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GE Lamp Products Catalog 2008-2009



lamps

2008-2009 product catalog

US/Canada Customer Ordering and Tracking—www.geelitenet.com

For detailed ballast and lamp specifications—www.gelighting.com

For order, technical or warranty assistance, call: 1-888-GEBALLAST (432-2552)

OEM Customer Service: (T) 1-800-833-4933, (F) 1-800-327-0588

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Transforming
the **POWER**
of light™



GE has a policy of continuous improvement of its products and reserves the right to change materials and specifications without notice.

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GE Edison Award

Celebrating excellence in lighting design for more than 25 years

GE sponsors the annual GE Edison Award competition to recognize excellence and quality in professional lighting designs that use GE light sources (lamps and/or LEDs).

Entries are judged on the basis of functional excellence; architectural compatibility; effective use of state-of-the-art lighting products and techniques; appropriate color, form, and texture revelation; energy effectiveness and cost effectiveness.

Projects must be completed within the prior calendar year and must employ significant use of GE light sources.

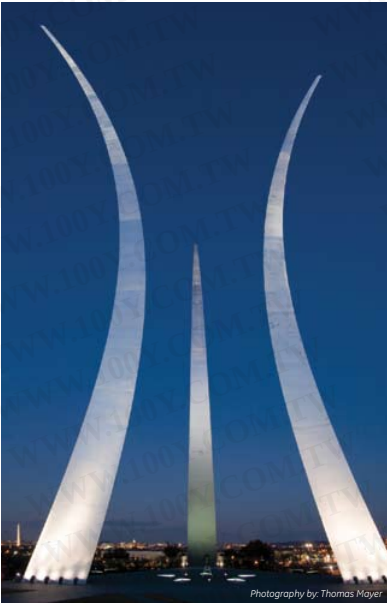
Visit www.GEEdisonAward.com



2005 GE Edison Award Winner
The Guardian Building Renovation—Detroit, Michigan, USA
Lighting design by:
Dennis Vogel, Keith Irtenkauf, Sonia Noble —Illuminating Concepts



2006 GE Edison Award Winner
Gardiner Museum of Ceramic Art—Toronto, Ontario, Canada
Lighting design by: Suzanne Powadiuk—Suzanne Powadiuk Design, Inc.



2007 GE Edison Award Winner
United States Air Force Museum—Arlington, Virginia, USA
Lighting design by:
Enrique Peiniger and Jean Sundin—Office for Visual Interaction—OVI

DESCRIBING LIGHT-SOURCE COLOR

The pictures are intended, within the limits of modern high-speed printing, to give a good indication of the differences between SP and SPX colors, at various color temperatures.

Note: Color Rendering (R_a) Index
Typical values in () for 4' linear
fluorescent lamps.

STANDARD COLOR AND HIGH EFFICIENCY	WARM WHITE (52)		COOL WHITE (60)		LITE WHITE (49)	
GOOD COLOR AND HIGH EFFICIENCY	SP30 (78)		SP35 (78)		SP41 (78)	
VERY GOOD COLOR AND HIGH EFFICIENCY	SPX27 (82)		SPX30 (86)		SPX35 (86)	
		3000K "WARM"	3500K	4000K	5000K	6500K "COOL"

TYPICAL SPECTRAL OUTPUT

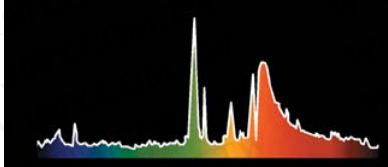
Incandescent



Fluorescent SPX



GE Ceramic Metal Halide (CMH®)



Energy Emitted (relative units)

SPECTRAL OUTPUT OF LAMPS

While CCT and CRI are useful measures to indicate the color of a light source, the "true and complete" information about the source is contained in the spectral output curve, samples of which are shown on the left. This curve tells us how much energy the lamp is emitting in each region of the spectrum. The incandescent lamp spectrum, for example, shows very little blue; consequently we might expect navy blue materials to appear almost black under this spectrum.

WHAT IS THE "RIGHT COLOR" FOR THIS APPLICATION?

People have preferences and the "right" color temperature is usually a subjective choice. An environment with "warm" colors—reds, yellows and browns—will be enhanced under warmer (lower color temperature) light sources while "cool" colors—blues, greens and grays—will be enhanced under cooler (higher color temperature) sources. However, this is far from a "hard and fast" rule. Another notion to remember is that indoor spaces lit to low light levels typically look better under warm lamps while high light levels are tolerated better with cool lighting. In spaces where daylighting is utilized, lamps with cooler color temperatures will integrate well with the higher color temperature of daylight.

Once you have picked the lamp type and the "right" color temperature, whatever that is, it is best to go with the highest CRI lamp available in that family. Since electricity constitutes the major portion of expense of a lighting system over its life, choosing the highest quality light source makes the best use of the electricity consumed.

Introduction

This latest edition of the GE product catalog has been updated to help you more easily select the GE lighting products that best meet your needs.

Technical data in this catalog (life, lumens, wattage, etc.) are nominal values, subject to manufacturer's tolerances. All technical data in this catalog is based on laboratory tests conducted under controlled conditions. Performance of individual lamps may vary. Because of frequent design improvements, the values listed may not be current ratings. Technical bulletins may be issued from time to time if changes in ratings occur prior to the next catalog printing.

Technical Support
1-800-GE LAMPS

For the most up-to-date, comprehensive product information, visit the GE Lighting website at www.gelighting.com.



imagination at work

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Fluorescent	Section 4
Compact Fluorescent	Section 5
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Introduction

GE Consumer & Industrial
Lighting

ecomaginationSM

The future can seem pretty intimidating: Our known reserves of oil and natural gas are expected to be depleted by 2045, the climate is changing, and more than a billion people lack clean water. At GE, we believe some of the world's most pressing challenges present an opportunity to do what we do best: **imagine and build innovative solutions that benefit our customers and society at large.**

As a global leader in energy, technology, manufacturing, and infrastructure, GE is uniquely suited to help solve environmental challenges, for today and generations to come. Our customers want a more prosperous, cleaner future. By harnessing our most abundant renewable resource – the imagination of our people – we can create that future with them. We are taking a new approach to solving some of our customers' toughest environmental problems.

We call it ecomagination.

Impact of ecomagination:

If every household in the U.S. replaced one 100-watt Incandescent light bulb with a GE compact fluorescent bulb equivalent in light output, over the bulb's life, we would save enough energy to power more than 1 million U.S. homes for an entire year.

Our Heritage, Our Future

We believe that better technology is the answer to our customers' environmental challenges. And we are confident we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison.

Throughout our 116-year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by researching and developing next-generation clean technologies. Our goal is to be a leader in bringing clean energy, air, and water and improved quality of life to all of the world's citizens.



imagination at work



GE Lighting & Electrical Institute

- World renowned training and education center at historic Nela Park in Cleveland, Ohio
- Impressive full-scale lighting demonstrations plus comprehensive electrical distribution solution center
- Variety of scheduled courses offered throughout the year, taught by experienced industry professionals
- Accreditation through IACET – International Association for Continuing Education and Training

Call **1-800-255-1200**, or visit **www.gelighting.com**

E-tools from the Institute:

- Mondays at noon and Mondays at 1/2 past noon – live webcasts each week to sharpen your product and application knowledge on lighting and electrical distribution products
- Specifier Technical Tuesdays – monthly webcasts on lighting and electrical distribution, designed for the specification community
- Value*Light – GE's award-winning cost of light analysis program
- The Lighting Toolkit – a collection of 7 simple estimating tools including a Simple Energy Calculator, Lighting Layout Estimator, and the Watts Per Square Foot Estimator
- The Lighting Assistant – a set of 26 user-friendly tools and additional resources
- Light Beams – a comprehensive beam rendering and design tool for GE's reflectorized lamps

Learning Central...the new GE portal for all of your training and education needs!

Use Learning Central to register for Institute courses, enroll in online courses, schedule a customized onsite conference, track your progress, and more!

Visit **www.gelearningcentral.com**

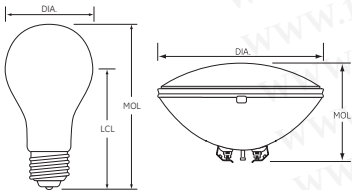
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Incandescent Lamps

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15 Watts	1-8	150 Watts	1-15
15/135/150 Watts	1-8	Lumen Rated Traffic Signal	
18 Watts	1-8	165 Watts	1-15
20 Watts	1-8	Airport	
25 Watts	1-8	30 Watts	1-15
27 Watts	1-9	40 Watts	1-15
30 Watts	1-9	200 Watts	1-15
30/70/100 Watts	1-9	620 Watts	1-15
34 Watts	1-9	1200 Watts	1-15
38 Watts (Complies with California Title 20 Regulations)	1-9	Multiple Street Lighting	
40 Watts	1-9	30 Watts	1-15
45 Watts	1-10	Landscape Lighting	
50 Watts	1-10	4 Watts	1-15
50/100/150 Watts	1-10	7 Watts	1-15
50/200/250 Watts	1-10	11 Watts	1-15
52 Watts	1-11	18 Watts	1-15
57 Watts (Complies with California Title 20 Regulations)	1-11	Decorative	
60 Watts	1-11	3 Watts	1-15
65 Watts	1-11	15 Watts	1-15
67 Watts	1-12	25 Watts	1-15
69 Watts	1-12	40 Watts	1-16
71 Watts (Complies with California Title 20 Regulations)	1-12	60 Watts	1-17
75 Watts	1-12	75 Watts	1-17
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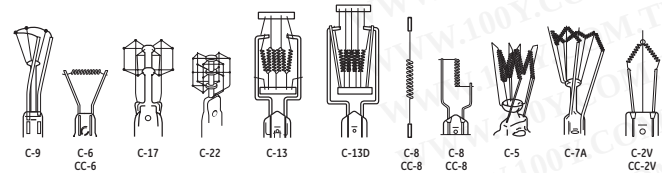
Incandescent Lamps

Bulb Identification

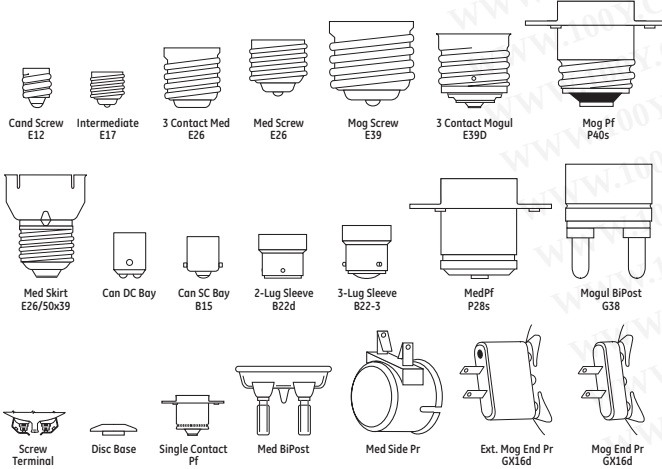


DIA: Diameter of bulb at widest point.
MOL: Maximum Overall Length including base or pins.
LCL: Distance between the center of the arc tube and the Light Center Length reference plane.
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

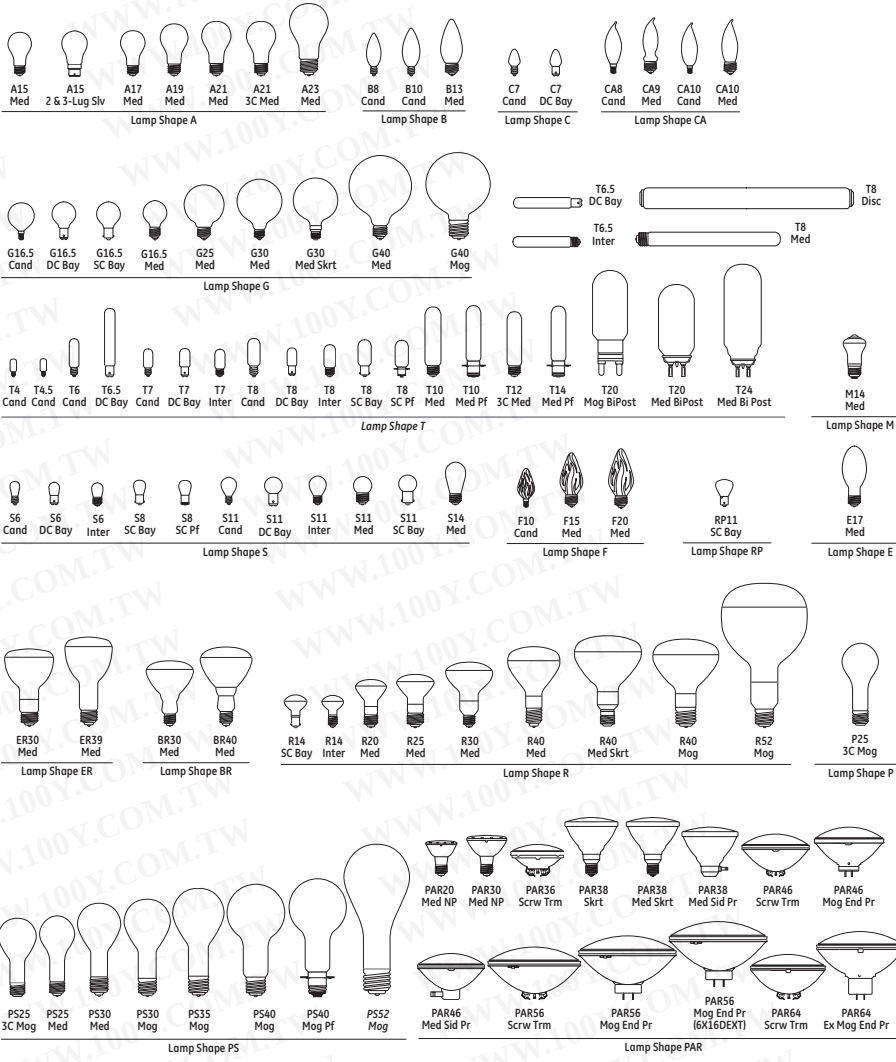
Filament Identification



Base Identification



Lamp Locator



Incandescent Lamps

Introduction

GE's incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder in 1879 of the company that became General Electric Company.

More than a century of research and development later, the present range of GE incandescent lamps represents the state of the art of lamps for residential and commercial use, as well as special purpose lamps for decorative or display applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings.

Incandescent lamps of similar size are commonly available with different wattage ratings. The fixture wattage limit should not be exceeded.

Protection From Moisture

When Hard Glass appears in the Additional Information column, the outer bulbs are made of special thermal-shock-resistant glass. Sometimes external protection of the lamps is also needed to eliminate the chance of bulb breakage due to contact with water during operation. Footnotes will indicate when external protection is needed. Where Hard Glass is not indicated, the bulb glass is such that the lamps require protection from exposure to mist or condensation as well as direct contact with water during operation.

Rated Life

Values are based on a large number of representative lamps under controlled conditions. Individual lamps or groups of lamps may vary from the Rated Life shown. Rated Life is a median value of life expectancy – the total operating time at which under normal conditions 50% of any large group of initially installed lamps are expected to be still burning.



Reveal® A-line

GE Reveal® Light Bulbs

- Superior light quality over regular incandescent that:
- Produces "clean, beautiful light®" for more vibrant colors
 - Contains Neodymium glass that filters out dulling yellow rays
 - Is available in 40-150 watt A-Line
 - Also available for nearly every application from candle shapes to flood lights
 - A color-enhanced full-spectrum light bulb

GE Rough Service A-Line Bulbs

Built to last, even under many "rough" service conditions...

- Extra filament support design protects against early burnouts caused by bumps, jars and vibration
- Longer life
- Dual Voltage Rating (120V/130V) provides application flexibility
- Saf-T-Gard® coating available - coating is shatter and weather-resistant; resists breakage from heat and thermal shock that can occur from water, sleet, snow, molten solder and weld spatter



Long Life BR30 Reflector Floodlight or Spotlight

GE Long Life Floodlight or Spotlight

- 25% longer life than standard reflectors. Ideal for use in high ceilings and hard-to-reach track lighting
- Easy replacement – same length and width as standard R bulbs
- Some lumen loss from standard reflectors (see listing for lumen values)
- Available in 45W floodlight and 65W floodlight and spotlight

Uses:

- Down lighting, display lighting, accent lighting, wall washing
- Wherever standard reflector bulbs are used

Incandescent Brand Name Cross-Reference

GE	OSRAM/SYLVANIA	PHILIPS
Reveal®	—	—
Bug-Lite	Bug Lite	Bug-A-Way®
covRguard®	Safeline	Silicone Coated
Saf-T-Gard®	—	—
Soft Pink	Soft Pink	Softone Pastels
Plant Light	Spot-GRO	Agro-Lite
Long Life Soft White	Double Life™ Soft White	Longer Life Soft White
Party Light	—	—
Watt-Miser®	Super Saver®	Econ-o-Watt®
Watt-Miser® Plus	Super Saver Excel®	Extended Service

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE brands. Individual lamp manufacturers' product offerings and performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or auxiliary equipment.

Incandescent Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking incandescent lamp specifications and when ordering products.

Within this product line, lamps are divided by wattage.

Within wattage, lamps are listed alphabetically by bulb shape.

	LCL (in): Distance between the center of the filament and the Light Center Length reference plane, in inches.	Rated Life (hours): Life (as defined by FTC Lamp Label Rules) is rated life in hours.							
Order Code: It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.	MOL (in): Maximum Overall Length in inches.	Light Output - Lumens: Light output (as defined by FTC Lamp Label Rules) is rated average lumens.	Color Temperature - Kelvins (K): "Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light.	Approximate CBPCP (Center Beam Candlepower): For reflector-type lamps, Center Beam Candlepower is the intensity (candela) at the center or maximum intensity of the beam.	Approximate Beam Spread: For reflector-type lamps, The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% of the maximum value.	Warning and Caution Notices: See page 1-18 for information.	Reduced Wattage:  Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens, and life to determine which lamp is best suited to your needs.	Additional Information: Typical application and/or other important information.	
Energy Used-Nominal Watts: Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.	Filament Design: Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.								
Bulb Shape: Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).	Base: The type of base.	Description: The lamp's identification code.	Case Quantity: Number of product units packed in a case.	Volts: Lamp data is based on operation at rated voltage.					

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBPCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps																	
3 Watts																	
S6	Cand	3	11098	5SR30/FL/65WM/A		130	24	C-7A	1.87	1.37	3000	11					Clear-Indicator

75 R30 / FL / 65WM / A

Identifies the lamp's wattage.

Identifies the lamp's shape.

Identifies the lamp as a floodlight.

Identifies the lamp as a Watt-Miser®

Identifies this lamp as amber colored.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify the lamp wattage.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 1-2.
4. Find your lamp in the table containing the bulb wattage, then match the shape, size and base, which are all listed alphabetically.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBPCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps																	
3 Watts																	
S6	Cand	3	11098	356/5 24PK	130	24	C-7A	1.87	1.37	3000	11						Clear-Indicator
4 Watts																	
C7	Cand	4	16001	4C7/W CD2	120	240	C-7A	2.12		3000					2e		White-Long Life Night Light
		4	43050	4C7 CARD 2	120	240	C-7A	2.12		3000					2e		Long Life Clear Night Light
		4	73257	4C7/5/CD4-6PK	120	6	C-7A	2.12		2000					2e		Standard-Clear Night Light
		4	73258	4C7/5/W/CD4-6PK	120	6	C-7A	2.12		2000					2e		Standard-Clear Night Light
		4	73259	4C7/PK/CD2-6PK	120	6	C-7A	2.12		3000					2e		Pink-Long Life Night Light
4	73260	4C7/BL/CD2-6PK	120	6	C-7A	2.12		3000						2e		Blue-Long Life Night Light	
6 Watts																	
S6	Cand	6	11316	656 24PK	12	24	C-2V	1.87	1.37	1500	50						Clear-Indicator
		6	11329	656	24	240	C-2V	1.87	1.37	1500	50						Clear-Indicator
		6	11331	656 24PK	30	24	C-2V	1.87	1.37	1500	50						Clear-Train
		6	43397	656 BB	32	24	C-2V	1.87	1.37	1500	50						Clear-Train
		6	11367	656 TRAY	120	240	C-7A	1.87	1.37	1500	41						Clear-Indicator, 12-Lamp Tray
		6	11577	656/3	120	240	C-7A	1.87	1.37	5000	23						Clear-Signal Light
		6	15820	656 CARD2	120	240	C-7A	1.87	1.37	1500	41						Clear-Indicator
		6	11369	656 TRAY	130	240	C-7A	1.87	1.37	1500	41						Clear-Indicator, 12-Lamp Tray
		6	11372	656	145	240	C-7A	1.87	1.37	1500	41						Clear-Indicator
		6	11374	656	155	240	C-7A	1.87	1.37	1500	41						Clear-Indicator
S6	DC Bay	6	11357	656DC 24PK	75	24	C-7A	1.81	1.43	1500	45						Clear-Indicator
		6	11592	656DC TRAY	120	240	C-7A	1.81	1.43	1500	41						Clear-Indicator, 12-Lamp Tray
		6	11594	656/DC TRAY	130	240	C-7A	1.81	1.43	1500	41						Clear-Indicator, 12-Lamp Tray
		6	11609	656DC 24PK	145	24	C-7A	1.81	1.43	1500	41						Clear-Indicator, 12-Lamp Tray
S6	Inter	6	11660	656/7 TRAY 24PK	120	24	C-7A	1.81	1.06	1500	41						Clear-Indicator, 12-Lamp Tray
TA.5	Cand	6	11764	6741/2/1	130	100	C-7A	1.87	1.31	1500	42						Clear-Indicator
7 Watts																	
C7	Cand	7	11779	7C7 TRAY	120	240	C-7A	2.12		3000	46						Clear-Indicator, 12-Lamp Tray
		7	11815	7C7/W TRAY	120	240	C-7A	2.12		3000	36						White-Indicator, 12-Lamp Tray
		7	11792	7C7 TRAY	130	240	C-7A	2.12		3000	46						Clear-Indicator, 12-Lamp Tray
7.5 Watts																	
S11	Med	8	11847	7 1/2S TRAY	120	240	C-9	2.25		1400	53						Clear-12-Lamp Tray
		8	73261	7 1/2S/CW/CD-5PK	120	5	C-9	2.25		1400	39				2e		White
		8	11848	7 1/2S TRAY	130	240	C-9	2.25		1400	53						Clear-12-Lamp Tray
		8	11922	7 1/2S/CW TRAY	130	240	C-9	2.25		1400	39						White-12-Lamp Tray
10 Watts																	
S6	Cand	10	12041	1056/10	230	24	C-7A	1.87	1.37	1500	66						Clear-Indicator
		10	12050	1056/10 24PK	250	24	C-7A	1.87	1.37	1500	66						Clear-Indicator
S6	DC Bay	10	12060	1056/10DC 24PK	230	24	C-7A	1.87	1.87	1500	66						Clear-Indicator
S11	Cand	10	12249	10511/79	120	120	C-7A	2.25	1.56	1000	80						Clear-Indicator
		10	12188	10511/NF	120	120	C-7A	2.31	1.62	1000	79						Frost-Appliance
11 Watts																	
S14	Med	11	12575	11514	130	120	C-9	3.50	2.50	3000	76						Clear-Sign
		11	12589	11514/NF	130	120	C-9	3.50	2.50	3000	76						LF-Sign
		11	12621	11514/R	130	120	C-9	3.50	2.50	3000							Red-Sign
		11	12632	11514/Y	130	120	C-9	3.50	2.50	3000							Yellow-Sign
12 - 13.5 Watts																	
S8	SC Bay B15	12	10690	1258/93T-CD2 6PK	12	240	C-2R	2.00	1.25	1000	200					2g	Low Voltage, High Intensity
S11	SC Bay BA15S	14	12649	13/3 1/2 S11/95	10	120	CC-6/ C-12	2.37	1.25	1000	180						Clear-Railway Signal Light, Filament in Multiple

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All warning and caution notices found at the end of this section (page 1-18).

Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	BCBP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information	
Incandescent Lamps (continued)																		
15 Watts																		
A15	Med	15	12784	15A	34	120	C-9	3.56	2.37	1000	180				5a		1-F-Train	
		15	97491	15A/W-2PK	120	24	C-9	3.50	2.37	2500	110						Soft-White	
		15	12658	15A15	130	120	C-9	3.50	2.37	2500	115						Inside Frost	
		15	97488	15A15/CL-2PK	120	24	C-9	3.50	2.37	3000	110						Clear	
R14	SC Bay B15	15	33404	15R14SC/SP	12	120	CC-8	2.62		2000	120						Reflector Spot	
S11	Cand	15	13210	15S11/13	120	120	C-7A	2.25	1.56	750	115						Clear	
S11	DC Bay	15	13188	15S11/3DC	75	120	C-9	2.37	1.25	1000	138						Clear-Train	
S11	Med	15	13291	15S11/102	120	240	C-7A	2.25		400	120						Clear-Refrigerator, 12-Lamp Tray	
S14	Med	15	42590	15S14/FBB	34	120	C-9	3.50	2.50	1000	144						Frost-Locomotive Cab	
		15	11137	15S14/G/CL/8	130	120	C-9	3.50	2.50	8000	90						Clear-Sign, Group Replacement	
T6	Cand	15	13390	15T6	120	60	C-7A	3.06	1.56	2000	107						Clear-Exit	
		15	13402	15T6	145	60	C-7A	3.06	1.56	1500	102						Clear-Exit	
		15	22114	15T6C-CD	145	120	C-7A	3.06	1.56	1500	102						Clear-Exit, Blister Card	
T7	Cand	15	13494	15T7C	120	120	C-7A	2.25	1.50	3000	108						Clear-Signal Light, Appliance	
T7	DC Bay	15	35154	15T7DC CARD	120	240	C-7A	2.25	1.31		108						Clear-Appliance, 12-Pack	
T7	Inter	15	35153	15T7N CARD	120	240	C-7A	2.25	1.56		108						Clear-Appliance	
15/135/150 Watts																		
A21	Med	15/135/150	23068	15/150-SECURITY	120	60	C-2R/CC-8	5.25	3.87	1200	75/2080/2155			35000		2b, 9c, 9j	Security 3-Way, Soft-White	
18 Watts																		
S11	SC Bay BA15s	18	13655	18S11/15C	10	120	CC-6	2.37	1.25	2000	200						Clear-Railway Signal Light	
20 Watts																		
T6.5	DC Bay	20	34241	20T61/2DC/F	120	60	C-8	5.56		5000	90						Frost-Exit Light	
T6.5	Inter	20	34272	20T61/2/F	120	60	C-8	5.50		7000	90						Frost-Exit Light	
25 Watts																		
A19	Med	25	97478	25A/CL-2PK	120	24	CC-6	4.25	2.50	2500	215						Clear	
		25	97857	25A/CL/2PK-130V	130	24	CC-6	4.25	2.50	2500	215						Clear	
		25	97864	25A/2PK-130V	130	24	CC-6	4.25	2.50	2500	215						Inside Frost	
		25	97492	25A/W-2PK	120	24	CC-6	4.25	2.50	2500	210						Soft White	
		25	16333	25A/TP-CD 6PK	120	24	C-9	3.87	2.37	2000							Transp. Purple-Party Light	
		25	16335	25A/TY-CD 6PK	120	24	C-9	3.87	2.37	2000							Transp. Yellow-Party Light	
		25	22731	25A/TP 6 PK	120	120	C-9	3.87	2.37	2000							Transp. Purple-Party Light	
		25	49728	25A/TY 6PK	120	120	C-9	3.87	2.37	2000							Transp. Yellow-Party Light	
	R14	Inter	25	49724	25A/TB 6PK	120	120	C-9	3.87	2.37	2000							Transp. Blue-Party Light
			25	22732	25A/TE 6PK	120	120	C-9	3.87	2.37	2000							Transp. Teal-Party Light
			25	49725	25A/TG 6PK	120	120	C-9	3.87	2.37	2000							Transp. Green-Party Light
			25	22730	25A/TPK 6PK	120	120	C-9	3.87	2.37	2000							Transp. Pink-Party Light
			25	49727	25A/TR 6PK	120	120	C-9	3.87	2.37	2000							Transp. Red-Party Light
			25	46645	25A/SG/CD-PQ1/5	120	25	CC-6	4.25	2.50	1500							Stained Glass
			25	73256	25A/SG/CD2-PK3	120	25	CC-6	4.25	2.50	1500							Stained Glass
			25	73280	25R14N/CD-3PK	120	3	CC-2V	2.56		1500				5e		Reflector-Light, Inside Frost	
R14	SC Bay B15	25	18230	25R14N	130	120	CC-2V	2.56		1500	180				5e		Reflector-Light, Inside Frost	
		25	33405	25R14SC/SP	12	120	CC-8	2.62		2000	200				5e		Reflector Spot, Light 1-F	
S11	SC Bay BA15s	25	14575	25S11/ASC	10	120	CC-6	2.37	1.25	1000	360						Clear-Railway, Signal Light	
T6.5	DC Bay	25	14676	25T61/2DC	120	60	C-8	5.56		1000	220						Clear-Appliance, Scale Illuminator	
		25	14678	25T61/2/DC	130	60	C-8	5.56		1000	244						Clear-Appliance, Scale Illuminator	
		25	14685	25T61/2DC/F	130	60	C-8	5.56		1000	240						Frost-Appliance, Scale Illuminator	

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All warning and caution notices found at the end of this section page 1-18l.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	BCBP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
25 Watts (continued)																	
T6.5	Inter	25	14639	25T61/2	120	60	C-8	5.50		1000	220						Clear-Showcase
		25	14641	25T61/2Z	130	60	C-8	5.50		1000	244						Clear-Showcase
		25	14668	25T61/2Z/F	130	60	C-8	5.50		1000	240						Frost-Showcase
T7	DC Bay	25	14741	25T7DC	120	60	C-7A	2.25	1.31	1000	195						Clear-Appliance
T7	Inter	25	10692	25T7N-CD 6PK	120	240	C-7A	2.25	1.56	1000	195						Clear-Appliance
T10	Med	25	14791	25T7N	120	60	C-7A	2.25	1.56	1000	195						Clear-Appliance
		25	45144	25T10 CD1-5PK	130	25	C-8	5.62		1000	248						Clear-Display Light
		25	45513	25T10/F CD1-5PK	130	25	C-8	5.62		1000							Frost-Display Light
27 Watts																	
R20	Med	27	47681	27R20/F/L/L 6PK	120	30	CC-6	3.93		2500	190					+	Long Life Reflector-Indoor Spotlight
30 Watts																	
A15	Med	30	14129	30A15	130	120	C-9	3.50	2.37	5000	215						1.F. Changing, Message Sign
		30	15291	30A15/CL	130	120	C-9	3.50	2.37	5000	215						Clear Changing, Message Sign
		30	19358	30A15/B	130	120	C-9	3.50	2.37	8000	180						1.F. Sign
R20	Med	30	14891	30R20/1-6PK	120	30	CC-6	3.93		2000	200				5b, 9k		Indoor Reflector
		30	46848	30R20/1	130	30	C-9	3.93		2000	200				5b, 9k		Indoor Reflector-Light 1.F.
		30	46849	30R20/6	130	30	C-9	3.93		6000	145				9d		Reflector-Light 1.F.-Flashing Message Sign
30/70/100 Watts																	
A21	Med	30/70/100	97493	30/100-1PK	120	12	C-2R/CC-8	5.25	3.88	1200	305/995/1300				2b, 5c, 9c, 9j		Soft-White, 3-Way
		30/70/100	97784	30/100RVL-PQ1/12	120	12	C-2R	5.25	3.88	1200	220/740/960				2b, 9c, 9j		Reveal® Soft-White, 3-Way
34 Watts																	
A19	Med	34/30	97848	40A/34WM	130/120	24	CC-6	4.43	3.12	2000/5400	365/270					+	Watt-Miser® Diffuse Coating
38 Watts (Complies with California Title 20 Regulations)																	
A19	Med	38	70688	38A 48PK	120	144	CC-6	4.43	3.12	1000	465					+	Inside Frost
		34/38	71950	38A/130V-4PK	130/120	144	CC-6	4.43	3.13	2000/5400	390/290					+	Inside Frost
		38	71958	38A/W-4PK	120	144	CC-6	4.43	3.12	1000	455					+	Soft White
		38	71978	38A/CL-2/12PK	120	24	CC-6	4.43	3.12	1500	440					+	Clear
		34/38	71985	38A/CL/2PK-130V	120/130	24	CC-6	4.43	3.13	1500/4000	435/310					+	Clear
		40	15199	40A15	120	120	C-9	3.50	2.37	1500	1500						
A15	Med	40	15206	40A15 CARD 12PK	120	60	C-9	3.50	2.37	1500	415						Clear-Appliance and Oven Service, Vibration Resistant
		40	21188	40A15 CD/2	120	60	C-9	3.50	2.37	1500	415						Clear-Appliance and Oven Service, Vibration Resistant
		40	27495	40A15/F/CD	120	60	C-9	3.50	2.37	1500	355						Frosted-Appliance and Oven Service, Vibration Resistant
		40	27451	40A15/F 120PK	120	120	C-9	3.50	2.37	1500	355						Frost
		40	73187	40A15/RV/CD2-4PK	120	6	C-9	3.50	2.37	1000	320						Reveal®
		40	20451	40A15/CF CD2	120	60	C-9	3.50	2.37	1500	415						Clear-Ceiling Fan, Vibration Resistant
		40	47260	40A15/CF/CD4-6PK	120	30	C-9	3.50	2.37	1500	415						Clear-Ceiling Fan, Vibration Resistant
		40	20452	40A15/W/CF CD2	120	60	C-9	3.50	2.37	1500	355						White-Ceiling Fan, Vibration Resistant
		40	73184	40A15/CF/RVCD2-6P	120	6	C-9	3.50	2.37	1000	320						Reveal®-Ceiling Fan, Vibration Resistant
		40	73185	40A15/W/CF/RV/CD2-6P	120	6	C-9	3.50	2.37	1000	260						Reveal® Soft-White, Ceiling Fan, Vibration Resistant
		40	46887	40A15/CF/STGPO2/6	120	30	C-9	3.50	2.37	1500	400				9f		Clear, Soft-T-Gard®, Ceiling Fan

Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBPC	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
40 Watts (continued)																	
A15	Cand	40	71393	40A15/CA/CF-CD2	120	6	C-7A	3.50	2.37	1500	305						Clear-Ceiling Fan, Vibration Resistant
		40	71394	40A15/CA/W/CF-CD2	120	6	C-7A	3.50	2.37	1500	230						White-Ceiling Fan, Vibration Resistant
A19	Med	40	97470	40A/CL-2PK	120	24	CC-6	4.43	3.12	1500	480						Clear
		40	13255	40A-48PK	120	144	CC-6	4.43	3.12	1000	505						Standard
		40	13257	40A/W 48PK	120	144	CC-6	4.43	3.12	1000	490						Standard
		40	48687	40A/RVL 48PK	120	144	CC-6	4.43	3.12	1000	360						Reveal® Soft-White
		40	81869	40A/CL/RVL 24PK	120	120	CC-6	4.43	3.12	1000	370						Reveal® Clear
		40	97480	40A/Y-2/10PK	120	20		4.43	3.12								Yellow-Bug Light
R14	Inter	40	25777	40R14/N/CD	120	30	CC-2V	2.68		1500				2a, 5e		Indoor Reflector	
R14	Med	40	25776	40R14/CD	120	30	CC-2V	2.18		1500				2a, 5e		Indoor Reflector	
R16	Med	40	73279	40R16/CD-3PK	120	30	CC-6	3.37		1500				5b, 9k		Reflector	
S11	Inter	40	15734	40S11/N/1F	120	120	C-9	2.31	1.62	500	440			5b			Frost
		40	35156	40S11/N/1 CARD	120	240	C-9	2.31	1.62	500	440			5b			Clear-12-Card Pack
T6.5	Inter	40	15740	40T6.5/12/2	120	60	C-8	5.50		750	420						Clear-Refrigerator
		40	44422	40T6.5/2/CD1-6PK	120	30	C-8	5.50		750	420						Clear-Appliance
		40	15742	40T6.5/2/2F	120	60	C-8	5.50		750	420						Frost-Appliance
		40	15852	40T10	120	120	C-8	5.62		1000	420						Clear-Showcase
T10	Med	40	15892	40T10/F	120	120	C-8	5.62		1000	415						Frost-Showcase
		40	45145	40T10/F CD1-5PK	120	25	C-8	5.62		1000	415						Frost-Display Light
		40	45514	40T10/CL CD1-5PK	120	25	C-8	5.62		1000	420						Clear-Display Light
		40	48707	40T10/RVL CD1	120	25	C-8	5.63		1000							Reveal® - Clear
		40	48709	40T10/F/RVL CD1	120	25	C-8	5.63		1000							Reveal® - Frost
		45 Watts															
BR30	Med	45	20330	45R/FL/M-1 6PK	120	30	CC-6	5.37		2000	485			300	2a, 5e, 9k	+	Reflector Flood
		45	26804	45R30/FL/L 6PK	120	30	CC-6	5.37		2500	450				2a, 5e, 9k	+	Reflector Flood-Long Life
R20	Med	45	47682	45R20/FL/L 6PK	120	30	CC-6	3.31		2500	400				2a, 5e, 9k	+	Long Life Indoor Floodlight
		45	73026	45R20/YR	120	6	CC-6	3.31		1500	350				2a, 5e, 9k	+	Indoor Reflector
		45	73025	45R20/YR-PK2/3	120	3	CC-6	3.31		1500	350				2a, 5e, 9k	+	Indoor Reflector
		45	73029	45R20/130V	130/120	30	CC-6	3.31		2000/4000					2a, 5e, 9k	+	Indoor Reflector
		45	73439	45R20/RVL PK1/6	120	30	CC-6	3.31		2000					2a, 5e, 9k	+	Indoor Reflector
50 Watts																	
A19	Med	50	16201	50A19/RS/SH	75	120	C-9	3.87	2.50	1000	545				2a, 5a		Long Life Indoor Spotlight
ER30	Med	50	47878	50ER30/PK	120	24	CC-6	6.25		2000	480				2a, 2b, 5e		Elliptical Reflector - Pink
P25	3C Mog E39D	50	16535	50/50P25/28	120	60	C-5/C-9	5.06	3.31	750	400				9c		Clear-2-filament Marine Running Light, BB
R20	Med	50	14888	50R20/PL/L 6PK	120	30	CC-6	3.93		2000					2a, 5e, 9k		Reflector Plant Light
R20	Med	50	22752	50R20/BL/8 6PK	120	6	CC-6	3.93		1000					2a, 2f, 5b, 7a, 7c, 9k		Blacklight Reflector
		50	46854	50R20/H/P/L	120	30	CC-6	3.93		2000					2a, 5e		Reflector, Hot Pink
		50	46853	50R20/PK/L	130	30	CC-6	3.93		2000					2a, 5e		Reflector, Pink
		50	48038	50R20/FUS 130V	130	30	CC-6	3.93		2000					2a, 5e		Reflector, Fusia
T12	Med	50	16726	50/50T12	115	24	C-5/C-9	5.31	3.00	750	400						Clear-2-filament Marine Running Light, BB
50/100/150 Watts																	
A21	Med	50/100/150	97494	50/150-1PK	120	12	CC-8	5.25	3.88	1200	615/1540/2155				2b, 9j		Soft-White, 3-Way
		50/100/150	97763	50/150-2PK	120	6	CC-8	5.25	3.88	1200	615/1540/2155				2b, 9j		Soft-White, 3-Way
		50/100/150	97785	50/150RVL-1/12PQ	120	12	CC-8	5.25	3.88	1200	450/1150/1600				2b, 9j		Reveal®, Soft-White 3-Way
		50/100/150	97469	50/150RVL-2PK	120	6	CC-8	5.25	3.875	1200	450/1150/1600				2b, 9j		Reveal®, Soft-White 3-Way
		50/100/150	97781	50/150/LL-1/12PK	120	12	CC-8	5.25	3.87	2400	500/1350/1850				2b, 9j		Long Life, Soft-White 3-Way
50/200/250 Watts																	
A21	Med	50/200/250	97482	50/250/1-1PK	120	12	CC-8/CC-25	5.25	3.87	1200	620/3335/3955				2b, 9c, 9j		Soft-White, 3-Way

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All warning and caution notices found at the end of this section page 1-181.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
52 Watts																	
A19	Med	52/46	97849	60A/52WM-130V	130/120	24	CC-8	4.43	3.12	1000/2600	710/530					+	Watt-Miser® Diffuse Coating
57 Watts (Complies with California Title 20 Regulations)																	
A19	Med	57	71909	57A 48PK	120	144	CC-6	4.43	3.12	1000	780					+	Inside Frost
		57/50	71951	57A/130V-4PK	130/120	144	CC-8	4.43	3.12	1200/3200	760/570					+	Inside Frost
		57	71959	57A/W-4PK	120	144	CC-6	4.43	3.12	1000	770					+	Soft-White
		57	71979	57A/CL-2/12PK	120	24	CC-6	4.43	3.12	1000	790					+	Clear
		57/50	72248	57A/CL/2PK-130V	130/120	24	CC-8	4.43	3.12	1200/3200	760/575					+	Clear
		57	71970	57A/W/LL50-2PK	120	24	CC-8	4.43	3.12	1500	765					+	Soft-White, Long Life
60 Watts																	
A19	Med	60	97490	60A/CL-2PK	120	24	CC-6	4.43	3.12	1000	870						Clear
		60	41026	60A 48PK	120	144	CC-6	4.43	3.12	1000	865						Standard
		60/53	97858	60A/2PK-130V	130/120	24	CC-6	4.43	3.12	1000/2600	850/640						Inside Frost
		60	41028	60A/W 48PK	120	144	CC-6	4.43	3.12	1000	840						Soft-White
		60	48688	60A/RVL 48PK	120	144	CC-8	4.43	3.12	1000	630						Reveal® Soft-White
		60	73188	60A/CL/RVL-PK24	120	120	CC-6	4.43	3.12	1000	650						Reveal® Clear
		60	97496	60A/W/LL-2PK	120	24	CC-6	4.43	3.12	1500	820						Soft-White
		60	22361	60A/COMM 24PK	120	24	CC-6	4.43	3.12	1000	855						Inside Frost
		60/53	72529	60A/RS130-PK2/12	130/120	24	C-7A	4.43	3.12	2000/5400	500/380					2a, 5e	Rough Service
		60/53	72549	60A/RS/STG-T2/12	130/120	24	C-7A	4.43	3.12	2000/5400	500/380					2a	Rough service Soft-T-Gard®
		60	97483	60A/SPK-2PK	120	24	CC-6	4.43	3.12	1000	675					2b	Pink
		60	72816	60A/SPK-2/10PK	120	20	CC-6	4.43	3.12	1000	675					2b	Soft Pink
A15	Med	60	97495	60A/Y-2PK	120	24	CC-6	4.43	3.12	1000	550						Yellow-Bug Light
		60	25905	60A/BLB 6PK	120	30	C-9	4.43		1000					2a, 2f, 5b, 7a, 7c, 9k	Blacklight	
		60	73277	60A/BLB/TW-6PK	120	6	C-9	4.43	3.12	1000					2a, 2f, 5b, 7a, 7c, 9k	Blacklight	
		60	73181	60A/NET-6PK	120	6	CC-8	4.44	3.13	1000							
		60	41624	60A/PL 6PK	120	30	CC-6	4.43	3.12	1000	630					5e	Plant
		60	17759	60A15/CF CD2	120	60	C-9	3.50	2.37	1500	650						Clear-Ceiling Fan and Appliance, Vibration Resistant
		60	47259	60A15/CF/CD4-6PK	120	30	C-9	3.50	2.38	1500	650						Clear-Ceiling Fan
A15	Med	60	14029	60A15/WCF-CD2	120	60	C-9	3.50	2.37	1500	650						White-Ceiling Fan, Vibration Resistant
		60	73186	60A15/CF/RVL/CD2-6PK	120	6	C-9	3.50	2.38	1500	480						Reveal® Ceiling Fan, Vibration Resistant
		60	73182	60A15/WCF/RVL/CD2-6PK	120	6	C-9	3.50	2.38	1500	465						Reveal® Soft-White
		60	46888	60A15/CF/STGPQ2/6	120	30	C-9	3.50	2.37	1500	650					9l	Ceiling Fan Soft-T-Gard®
		60	71395	60A15/CA/C/CF-CD2	120	6	C-7A	3.50	2.37	1500							Clear-Ceiling Fan, Vibration Resistant
		60	71396	60A15/CA/W/CF-CD2	120	6	C-7A	3.50	2.37	1500							White-Ceiling Fan, Vibration Resistant
T10	Med	60	45141	60T10 CD1-5PK	120	25	C-8	5.63		1000	740						Clear-Display Light
		60	17292	60T10/64 24PK	120	192	C-8	5.62		1000	740						Clear-Showcase, BDTH
		60	48710	60T10/RVL CD1	120	25	C-8	5.63		1000							Reveal® - Clear
65 Watts																	
BR30	Med	65	18011	65R/FL/M1-TWIN	120	6	CC-6	5.37		2000	755				2a, 5e, 9k	+	Reflector Flood Twin Pink
		65	20331	65R30/FL/M1- 6PK	120	30	CC-6	5.37		2000	755				2a, 5e, 9k	+	Reflector Flood
		65	20332	65R30/SP/M1-6PK	120	30	CC-6	5.37		2000	755				2a, 5e, 9k	+	Reflector
		65	22714	65R30/PL/COMM12PK	120	12	CC-6	5.37		2000	770				2a, 5e, 9k	+	Reflector Flood 12 Pack
		65	26805	65R30/FL/L 6PK	120	30	CC-6	5.37		2500	725				2a, 5e, 9k	+	Long Life Reflector-Flood
		65	48917	65R30/FL/LPQ2/3	120	15	CC-6	5.37		2500	725				2a, 5e, 9k	+	Long Life Indoor Floodlight
		65	26806	65R30/SP/LLL 6PK	120	30	CC-6	5.37		2500	725				2a, 5e, 9k	+	Long Life Spotlight
		65	73183	65R30/FL/RVL-6PK	120	6	CC-6	5.37		2000							Reveal® Floodlight
		65	73179	65R30/RVL/TW-3PK	120	3	CC-6	5.37		2000							Reveal® Floodlight

Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	BCBP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
65 Watts (continued)																	
BR30	Med	65	46858	65R30/FL/CVG	120	30	CC-6	5.37		2000					2a, 2b, 5e, 9a, 9l		Reflector-coatGuard® Coated
		65	47723	65R30/FL/STGPQ1U6	120	30	CC-6	5.37		2000					2a, 2b, 5e, 9k, 9a, 9l	+	Indoor Flood Light-Soft-T-Gard®
		65	41837	65R30/SP/HP	120	30	CC-6	5.37		2000					2a, 5e, 9k		Indoor Reflector, Hot Pink
		65	26803	65R30/FL/PPK	120	30	CC-6	5.37		2000					2a, 5e, 9k	+	Reflector - Pink
		65	26641	65R30/FL/B	120	30	CC-6	5.37		2000					2a, 5e, 9k	+	Reflector - Blue
		65	26642	65R30/FL/G	120	30	CC-6	5.37		2000					2a, 5e, 9k	+	Reflector - Green
		65	26645	65R30/FL/Y	120	30	CC-6	5.37		2000					2a, 5e, 9k	+	Reflector - Yellow
		65	20996	65R30/PL-1 6PK	120	30	CC-6	5.37		2000					2a, 5e, 9k	+	Reflector-Plant Light, BB
		65	46855	65R30/FL	130	30	CC-6	5.37		2000	725				2a, 2b, 5e, 9k	+	Watt-Miser® Reflector
		65	46856	65R30/SP	130	30	CC-6	5.37		2000	725				2a, 2b, 5e, 9k	+	Watt-Miser® Reflector
		65	46857	65R30/FL/PPK	130	30	CC-6	5.37		2000					2a, 2b, 5e, 9k	+	Watt-Miser® Reflector-Pink
		65	48039	65R30SP/FUS 130V	130	30	CC-6	5.37		2000					2a, 2b, 5e, 9k	+	Indoor Reflector, Fusa
BR40	Med	65	14016	65RA40/FL/MH-6PK	120	30	CC-6	6.56		2000	730				2a, 2b, 5e, 9k		Reflector Flood
		65	47683	65RA40/FL/L	120	30	CC-6	6.56		2500	650				2a, 2b, 5e, 9k		Long Life Reflector-Indoor Floodlight
		65	46861	65RA40/FL	130	30	CC-6	6.56		2000	700				2a, 2b, 5e, 9k		Watt-Miser® Reflector-LF
BR40	Med	65	87904	65RA40FL/RVL-TP6	120	30	CC-6	6.56		2000					2a, 2b, 5e, 9k		Reveal® Reflector Flood
67 Watts																	
A19	Med	67/60	97850	75A/67WM-130V	130/120	24	CC-8	4.43	3.12	1000/2600	1000/755					+	Inside Frost
69 Watts																	
A21	Med	69	17325	69A21/T5	130	120	C-9	4.37	2.43	8000	675					+	Clear-Traffic Signal, BDTH
71 Watts (Complies with California Title 20 Regulations)																	
A19	Med	71	71910	71A 48PK	120	144	CC-6	4.43	3.12	750	1075					+	Inside Frost
		71/63	71952	71A/130V-4PK	130/120	144	CC-8	4.43	3.12	750/1950	1050/790					+	Inside Frost
		71	71960	71A/W-4PK	120	144	CC-6	4.43	3.12	750	1060					+	Soft-White
		71	71980	71A/CL-2/12PK	120	24	CC-6	4.43	3.12	750	1090					+	Clear
		71	71971	71A/W/LL-50-2PK	120	24	CC-8	4.43	3.12	1125	1055					+	Soft-White, Long Life
75 Watts																	
A19	Med	75	97468	75A/CL-2PK	120	24	CC-6	4.43	3.12	750	1200						Clear
		75	41030	75A 48PK	120	144	CC-6	4.43	3.12	750	1190						Standard
		75/67	97859	75A/2PK-130V	130/120	24	CC-6	4.43	3.12	750/1950	1170/885						Standard
		75	41032	75A/W 48PK	120	144	CC-6	4.43	3.12	750	1170						Soft-White
		75	48689	75A/RVL 48PK	120	144	CC-8	4.43	3.12	750	830						Reveal® Soft-White
		75	81870	75A/CL/RVL 24PK	120	120	CC-6	4.43	3.12	750	885						Reveal® Clear
		75	97497	75A/W/LL-2PK	120	24	CC-6	4.43	3.12	1125	1125						Soft-White, Long Life
		75	22364	75A/COMM 24PK	120	24	CC-6	4.43	3.12	750	1180						Inside Frost
		75/67	72530	75A/RS130-PK6	130/120	6	C-7A	4.43	3.12	2000/5400	740/562				2a, 5e		Rough Service
		75/67	72550	75A/RS/STG-TP6	130/120	6	C-7A	4.43	3.12	2000/5400	740/562				2a		Rough Service, Soft-T-Gard®
		75	17482	75A21	12	120	C-6	5.25	3.81	1000	1500				5a		Inside Frost
		75	22748	75R30/BLB 6PK	120	6	C-9	5.37		1000					2a, 2f, 5b, 7a, 7c, 9k		Reflector Blacklight
85 Watts																	
PAR38	Med Skirt	85	20945	85PAR/FL/BG 6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b		Yellow-Bug Light, BB
		85	13465	100PAR/B/BSWM6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b	+	Powder Coated-Blue, BB
		85	13472	100PAR/R/BSWM6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b	+	Powder Coated-Red, BB
		85	13473	100PAR/Y/BSWM6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b	+	Powder Coated-Yellow, BB

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	BCBP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
85 Watts (continued)																	
PAR38	Med Skirt	85	13474	100PAR/G/BSWM6PK	120	6	CC-6	5.31		2000						1a, 2a, 2b	+ Powder Coated-Green, BB
90 Watts																	
A19	Med	90/80	97851	100A/90WM-130V	130/120	24	CC-8	4.43	3.12	1000/2600	1440/1095					+	Inside Frost
95 Watts (complies with California Title 20 Regulations)																	
A19	Med	95	71911	95A 48PK	120	144	CC-8	4.43	3.12	750	1635					+	Standard
		95	71915	95A-2/24PK	120	24	CC-8	4.43	3.12	750	1635					+	Standard
		84/95	71953	95A/130V-4PK	130/120	144	CC-8	4.43	3.12	750/1950	1600/1215					+	Standard
		95	71961	95A/W-4PK	120	144	CC-8	4.43	3.12	750	1610					+	Soft-White
		95	71981	95A/CL-2/12PK	120	24	CC-8	4.43	3.12	750	1655					+	Clear
		95	71972	95A/W/LL-50-2PK	120	24	CC-8	4.43	3.12	1125	1510					+	Soft-White, Long Life
100 Watts																	
A19	Med	100	97489	100A/CL-2PK	120	24	CC-8	4.43	3.12	750	1750						Clear
		100	41034	100A 48PK	120	144	CC-8	4.43	3.12	750	1710						Standard
		100/89	97860	100A/2PK-130V	130/120	24	CC-8	4.43	3.12	750/1950	1680/1275						Inside Frost
		100	41036	100A/W 48PK	120	144	CC-8	4.43	3.12	750	1690						Soft-White
		100	48690	100A/RLV 48PK	120	144	CC-8	4.43	3.12	750	1260						Reveal® Soft-White
		100	81871	100A/CL/RLV 24PK	120	120	CC-8	4.43	3.12	750	1300						Reveal® Clear
		100	97761	100A/W/LL-2PK	120	24	CC-8	4.43	3.12	1125	1600						Soft-White
		100	22366	100A/COMM 24PK	120	24	CC-8	4.43	3.12	750	1690						Inside Frost
		100/89	72527	100A/RS130-PK12	130/120	12	C-7A	4.43	3.12	2000/5400	1070/813				2a, 5e		Rough Service
		100	72546	100A/RS/STG-TP6	120	100	CC-8	4.43	3.12	750	1624				2a		Rough Service Soft-T-Guard®
		100	97484	100A/SPK-2PK	120	24	CC-8	4.43	3.12	1000	1330				2b		Pink
		100	97762	100A/Y-2PK	120	24	CC-8	4.43	3.12	1000	900				2b		Yellow-Bug Light
A21	Med	100	17517	100A 60PK	277	60	C-7A	5.25	3.81	750	1250						Inside Frost
A23	Med	100	18512	100A23	12	120	C-6	5.93	4.43	1000	1750				5a		Inside Frost
100/200/300 Watts																	
PS25	Mog	100/200/300	41459	100/300 6PK	120	30	CC-6	6.68	4.43	1200	1120/3300/4620					2b, 9c, 9j	Soft-White, 3-Way
110 Watts																	
R30	Med	110	46859	110R30/FL/RS/1	120	30	C-17	5.38		2000	1080					2a	Reflector Flood, I.F. Rough Service
116 Watts																	
A21	Med	116	19010	116A21/75	130	120	C-9	4.37	2.43	8000	1280						Clear-Traffic Signal, BOTH
120 Watts																	
BR40	Med	120	21000	120R40/PL-1 6PK	120		CC-6	6.56		2000						2a, 2b, 5a, 9k	Reflector Plant Light, BB
		120	46877	120R40/FL/UCVG	130	30	CC-6	6.56		1700	1550		1200			2a, 2b	Reflector-covRguard®
		120	47725	120R40/FL/STG P06	130	30	CC-6	6.56		1700	1550		1200			2a, 2b	Reflector-covRguard®
135 Watts																	
A21	Med	135/120	12627	150A/135WM	130/120	60	CC-8	5.37	4.06	2500/6800	2340/1790					+	Watt-Miser™-Diffuse Cooling (Ratings @ 120 volts)
150 Watts																	
A21	Med	150	16068	150A/CL 12PK	120	12	CC-8	5.37	4.06	750	2850						Clear
		150	10429	150A/W 12PK	120	12	CC-8	5.37	4.06	750	2780						Soft-White
		150	16703	150A/RLV	120	30	CC-8	5.37	4.06	750	1950						Reveal®
		150/133	72532	150A/2/RS-PK6	130/120	30	C-17	5.37	4.06	1000/2600	2065/1580				2a, 5e		Rough Service
PS25	Med	150/133	72547	150P25/RS/STG	130/120	60	C-17	6.93	5.18	1000/2600	2160/1650						Rough Service Soft-T-Guard®
175 Watts																	
PAR38	Med Skirt	175	13643	175PAR38/HEAT	120	12	CC-6	5.31	4.31	5000	3100					1a, 2a, 2b, 3b	Infrared-Clear
200 Watts																	
A21	Med	200	16069	200A/CL-1 12PK	120	12	CC-8	5.37	4.06	750	3980						Crystal
		200	11585	200A/W-1 12PK	120	12	CC-8	5.37	4.06	750	3910						Soft-White
		200	44534	200A/W-PK6	120.1		CC-8	5.37	4.06	750	3910						Soft-White
		200	89371	200A/RLV-TP1/6	120	30	CC-8	5.37	4.06	750	2800						Reveal® Soft-White

Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
200 Watts (continued)																	
A21	Med	200/177	25936	200A21/99/IF	130/120	60	CC-8	5.37	4.06	2500/6800	3250/2500						1-F, Extended Service (Ratings @ 120 volts)
PS30	Med	200/177	72548	200PS30RS/23/STG	130/120	60	C-9	8.06	6.00	1000/2600	3240/2495				2a, 5e		Soft-T-Guard®
250 Watts																	
R40	Med	250	37770	250R40/1 6PK	120	30	C-9	6.56		5000	2200				2a, 2b, 3b, 5e, 6a		Reflector-Warm Up Infrared Heat Lamp-Clear Face
		250	37771	250R40/10 6PK	120	30	C-9	6.56		5000					2a, 2b, 3b, 5e, 6a		Reflector-Chill Chaser Infrared Heat Lamp, Red, HRG
		250	46881	250R40/1/CVG	120	30	C-9	6.56		5000	2150				2a, 2b, 3b, 5e, 6a		Clear-cov/R-guard®, Flood Warming, Reflector-Infrared
R40	Med Skirt	250	20724	250R40/4	120	24	C-9	7.43		5000					2a, 2b, 3b, 5e, 6a		Reflector Infrared Industrial-Light 1-F, BB
R40	Med	250	47724	250R40/1/STG PQ6	120	30	C-9	6.56		5000	2150				2a, 2b, 3a, 3b, 6a		Heat Lamp Soft-T-Gard® - Shatter-Resistant
		250	23423	21A/R40/FL	12	24	C-2V	6.68		1000					2b, 5a, 5e		Reflector Flood
300 Watts																	
PS25	Med	300/266	20863	300M	130/120	60	CC-8	6.93	5.18	750/1950	6120/4170						Clear
		300/266	20917	300M/IF	130/120	60	CC-8	6.93	5.18	750/1950	6120/4170						Inside Frost
PS35	Mog Screw	300	21025	300	130	24	C-9	9.37	7.00	1000	5820						Clear
		300	21079	300/IF	130	24	C-9	9.37	7.00	1000	5820						Inside Frost
R40	Med	300	21197	300R/SP	120	24	CC-2V	6.56		2000	3700		9000		2a, 2b, 5b, 9e		Reflector-Light 1-F, HORIZ
		300	21213	300R/FL	120	24	CC-2V	6.56		2000	3700		2500		2a, 2b, 5b, 9e		Reflector-Flood 1-F, HORIZ
		300	21229	300R/FLJ1	120	24	CC-2V	6.75		2000	3700		1900		2a, 2b, 5b, 9e		Reflector-Flood 1-F, BB, HRG
		300/266	21215	300R/FL	130/120	24	CC-2V	6.56		2000/5400	3465/2670		2500		2a, 2b, 5b, 9e		Reflector Flood 1-F, HORIZ (Ratings @ 120 volts)
R40	Mog Screw	300	21254	300R/3FL	120	24	CC-2V	7.25		2000	3750				2a, 2b, 5b, 9e		Reflector Flood-1-F, 1BB
375 Watts																	
R40	Med Skirt	375	21331	375R40	115	24	C-9	7.37		5000h					2a, 2b, 3b, 5e, 6a		Reflector Infrared Industrial-Light 1-F, BB
		375	21334	375R40/1	115	24	C-9	7.50		5000					2a, 2b, 3b, 5e, 6a		Reflector Infrared Industrial-Clear Face, HRG, BB
400 Watts																	
G30	Med	400	21363	400G/FL	120	60	C-5	5.12	3.00	800	6800				2a, 2b, 3b, 5e, 6a		Clear Flood, BOTH, BB
R40	Med	400	17542	400R40/FL	120	24	CC-2V	6.75		2000	5000				5b, 5c, 9b		Reflector Flood, Swimming Pool, BB, HRG
500 Watts																	
PS35	Mog Screw	500	21532	500	130	24	CC-8	9.37	7.00	1000	10850				5d, 5e		Clear, BB
R40	Mog Screw	500	21734	500R/3FL	120	24	CC-2V	7.25		2000	6500				2a, 2b, 5b, 9e		Reflector Flood 1-F, BB, HRG
		500	21736	500R/3FL	130	24	CC-2V	7.25		2000	6500				2a, 2b, 5b, 9e		Reflector Flood 1-F, BB, HRG
R40	Med	500	48316	500R40/SFL/SLV	120	24	CC-2V	6.75		2000					9k		Reflector-Swimming Pool, BB, HRG
1000 Watts																	
PS52	Mog Screw	1000	22260	1000	130	12	CC-8	13	9.50	1000	23740				5d, 5e		Clear, BB
		1000	22348	1000/SBIF	120	12	C-7A	13	3.13	1000	20400						Inside Frost, BB
Export Only																	
75 Watts																	
PAR38	Med Skirt	75	14510	75PAR/FL/EX-120	120	12	CC-6	5.31		2000	765	2700	1750	33	1a, 2a, 2b		Frost
85 Watts																	
PAR38	Med Skirt	85	14509	100PAR/FLBSWM/EX	120	6	CC-6	5.31		2000	930	2700	2000	37	1a, 2a, 2b	➔	Watt-Miser®, Flood

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Export Only (continued)																	
120 Watts																	
PAR38	Med Skirt	120	14501	150PAR/FL/120WM/	120	12	CC-6	5.31		2000	1370	2725	3600	30	1a, 2a, 2b	↔	Watt-Miser®, Flood
		120	14502	150PAR/SP/120WM/	120	12	CC-6	5.31		2000	1370	2725	9200	18	1a, 2a, 2b	↔	Watt-Miser®, Reflector
150 Watts																	
PAR38	Med Skirt	150	14531	150PAR/FL/EX-120	120	12	CC-6	5.31		2000	1740	2775	3100	36	1a, 2a, 2b		Flood
		150	14535	150PAR/SP/EX-120	120	12	CC-6	5.31		2000	1740	2775	12000	16	1a, 2a, 2b		Reflector
Lumen Rated Traffic Signal																	
P25	Med	165	20097	1950L/P25/T5	130	60	C-9	4.75	3.00	8000	1950						Clear-Traffic Signal (BOTH), BB
Airport																	
30 Watts																	
T10	Med PF	30	23294	6.6A/T10/1P		60	C-2V	3.93	1.50	1000	400						Clear
40 Watts																	
T10	Med PF	40	15921	40T10P	120	60	CC-2V	3.93	1.50	1000	400						Clear
200 Watts																	
T14	Med PF	200	23298	6.6A/T14P		24	C-13	5.75	2.18		4900						Clear
620 Watts																	
PS40	Mogul PF	620	21950	620PS40P	120	24	C-9	10.06	5.68	3000	11200						Clear
		620	21952	620PS40P	130	24	C-9	10.06	5.68	3000	11200						Clear
1200 Watts																	
T20	Mog Bi-Post	1200	22524	1200T20	115	12	CC-8	9.50	4.00	750	29600						Clear-Beacon, HRG
Multiple Street Lighting																	
30 Watts																	
PS25	Med	189	19939	189PS25/64	130	60	C-9	6.93	5.25	3000							Clear, BB
		205	42663	205PS25/12	125	60	C-9	6.93	5.25	12000							Clear, BB
PS35	Mog Screw	327	21307	327PS35	125	24	C-9	9.37	7.00	6000							Clear, BB
Landscape Lighting																	
4 Watts																	
T5	Wedge	4	71479	901/LAND/BP2	12	48	C-2R	1.49	0.08	500	36						
7 Watts																	
T5	Wedge	7	71480	918/LAND/BP2	12	48	C-2R	1.49	0.08	500	82						
11 Watts																	
T5	Wedge	11	71481	923/LAND/BP2	12	48	C-2R	1.49	0.08	500	157						
18 Watts																	
T5	Wedge	18	71482	921/LAND/BP2	12	48	C-2R	1.49	0.08	500	264						
		18	71483	921/NE/LAND/BP2	12	48	C-2R	1.49	0.08	1400	297						
Decorative																	
3 Watts																	
CA10	Cand	3	73254	3CAC/FF/C01-6PK	120	6		4.13			2000						Flicker Flame
		3	73255	3CAM/FF/C01-6PK	120	6		4.13			2000						Flicker Flame
15 Watts																	
B8	Cand	15	73262	15BC/CF/CD2-1R6	120	6	C-7A	3.87		1500							Blunt Tip, Ceiling Fan, Vibration Resistant
		15	74033	15BC/RV/LCF-TA/6	120	6	C7-A	3.87		1500							Reveal®, Blunt Tip, Ceiling Fan, Vibration Resistant
		15	48400	15BC CD2 6PK	120	30	C-7A	3.87		1500							Clear-Blunt Tip
CA8	Cand	15	48396	15CAC CD2 6PK	120	30	C-7A	4.12		1500							Bent Tip
F10	Cand	15	48395	15FC CD2 6PK	120	30	C-7A	4.37		1500							Clear-Chandelier
		15	73283	15FC/AU/CD2-PK6	120	6	C-7A	4.37		1500							Auradescent
25 Watts																	
B8	Cand	25	73263	25BC/CF/CD2-1R6	120	6	C-7A	3.87		1500							Blunt Tip, Ceiling Fan, Vibration Resistant
		25	74034	25BC/RV/LCF-TA/6	120	6	C-7A	3.87		1500							Reveal®, Blunt Tip, Ceiling Fan, Vibration Resistant

Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	BCBP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Decorative (continued)																	
25 Watts (continued)																	
B10	Cand	25	15787	25BC 25PK	120	200	C-7A	3.75		1500							Clear, Blunt Tip
		25	45083	25BC CD4	120	30	C-7A	3.75		1500							Clear, Blunt Tip
		25	74034	25BC/RVL/CF-T4/6	120	6	C-7A	3.75		1500							Reveal® Clear Blunt Tip, Ceiling Fan, Vibration Resistant
B13	Med	25	41863	25BM/CD4	120	6	C-9	4.62		1500							Clear Ceiling Fan, Chandelier
CA10	Cand	25	15777	25CAC 25PK	120	200	CC-2V	4.12		1500							Clear, Bent Tip
		25	16046	25CAC/F CD4	120	30	CC-2V	4.12		1500							Clear, Bent Tip
		25	40045	25CAC/L	120	120	CC-2V	4.12		4000							Clear, Bent Tip, Brass Base, LL
CA10	Cand	25	16365	25CAC/LBB-CD4	120	24	CC-2V	4.12		4000							Clear, Bent Tip
		25	16045	25CAC CARD4	120	30	CC-2V	4.12		1500							Clear, Bent Tip
CA9	Med	25	72773	25CAM/LCD6-5PK	120	6	CC-2V	4.56		1500							Clear, Bent Tip
F15	Med	25	72810	25FM/CF/CD2-4P	120	4	C-9	4.37		1500							Clear, Flame Ceiling Fan
		25	72805	25FM/AC/CF/CD2-4PK	120	4	C-9	4.37		1500							Ceiling Fan
		25	72806	25FM/AU/CF/CD2-4PK	120	4	C-9	4.37		1500							Auradescend Ceiling Fan
G16.5	Cand	25	72804	25FM/M/CF/CD2-4PK	120	4	C-9	4.37		1500							White, Ceiling Fan
		25	11303	25GC 12PK	120	120	CC-2V	3.00		1500				Se, 9d			Clear, Globe
		25	72800	25GC/L/CD2-4PK	120	4	CC-2V	3.00		1500				Se, 9d			Clear, Globe
G16.5	Cand	25	72801	25GC/AU/CD2 4PK	120	4	CC-2V	3.00		1500				Se, 9d			Clear, Globe
		25	44412	25GC/W PQ2/6	120	30	CC-2V	3.00		1500				Se, 9d			White, Globe
		25	39679	25GC/W 12PK	120	120	CC-2V	3.00		1500				Se, 9d			White, Globe
G16.5	Med	25	71716	25GC/RVL/CD2-4PK	120	4	CC-2V	3.00		1500				Se, 9d			Reveal® Globe
		25	31106	25GM/LCL-PQ2/6	120	30	CC-2V	3.00		1500				Se, 9d			Clear-Globe, Medium Base
		25	31107	25GM/M-PQ2/6	120	30	CC-2V	3.00		1500				Se, 9d			White-Globe, Medium Base
G25	Med	25	12982	25G25/W 6PK	120	6	CC-6	4.50		1500							White-Globe
		25	12983	25G25 6PK	120	6	CC-6	4.50		1500							Clear-Globe
40 Watts																	
B8	Cand	40	73264	40BC/CF/CD2-TR6	120	6	C-7A	3.87		1500							Clear, Blunt Tip, Ceiling Fan
		40	74035	40BC/RVL/CF-T4/6	120	6	C-7A	3.87		1500							Reveal®, Clear, Blunt Tip, Ceiling Fan
B10	Cand	40	15788	40BC 25PK	120	200	CC-2V	3.75		1500							Clear, Blunt Tip
		40	19981	40BC CARD4	120	30	CC-2V	3.75		1500							Clear, Blunt Tip
		40	48701	40BC/RVL CD2	120	30	CC-2V	3.75		1500							Reveal® Clear, Blunt Tip
		40	74035	40BC/RVL/CF/T4/6	120	6	C-7A	3.75		1500							Reveal® Clear, Ceiling Fan
B13	Med	40	27310	40BM/CD4	120	6	C-9	4.62		1500							Clear-Blunt Tip
		40	72807	40BFM/CD2-4PK	120	4	C-9	4.62		1500							
		40	72780	40BM/RVL/CD2-4PK	120	4	C-9	4.62		1500							Clear, Bent Tip
		40	16049	40CAM CARD4	120	30	CC-2V	4.56		1500							Clear, Bent Tip
CA9	Med	40	48342	40CAM/JBB CD4	120	30	CC-2V	4.56		4000							Post Light
		40	15778	40CAC 25PK	120	200	CC-2V	4.12		1500							Clear, Bent Tip
		40	16047	40CAC CARD4	120	30	CC-2V	4.12		1500							Clear, Bent Tip
		40	48341	40CAC/LBB-CD4	120	30	CC-2V	4.12		3000							Clear, Bent Tip, Brass Base, Long Life
CA10	Cand	40	15778	40CAC 25PK	120	200	CC-2V	4.12		1500							Clear, Bent Tip
		40	16047	40CAC CARD4	120	30	CC-2V	4.12		1500							Clear, Bent Tip
		40	48341	40CAC/LBB-CD4	120	30	CC-2V	4.12		3000							Clear, Bent Tip, Brass Base, Long Life
F15	Med	40	16048	40CAC/F CARD4	120	30	CC-2V	4.12		1500							Frost, Bent Tip
		40	72811	40FM/CF/CF/CD2-4PK	120	4	C-6	4.37		1500							Clear, Flame, Ceiling Fan, Vibration Resistant
		40	72809	40FM/AU/CF/CF/CD2 4PK	120	4	C-6	4.37		1500							Auradescend, Flame, Ceiling Fan, Vibration Resistant
		40	72808	40FM/M/CF/CF/CD2-4PK	120	4	C-6	4.37		1500							White, Flame, Ceiling Fan, Vibration Resistant

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All warning and caution notices found at the end of this section (page 1-18).

Bulb Shape	Base	Watts	Order Code	Description	Volts	Cage Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	BCBP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information	
Decorative (continued)																		
40 Watts (continued)																		
G16.5	Cand	40	14958	40GC 12PK	120	120	CC-2V	3.00		1500					5e, 9d		Clear, Globe, BOTH	
		40	72802	40GC/LCL/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Clear, Globe, BOTH	
		40	72803	40GC/AU/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Auradescend, Globe, BOTH	
		40	72776	40GC/RVL/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Reveal®	
		40	72209	40GC/W/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		White-Globe, BOTH	
		40	48705	40GC/W/RVL CD2	120	30	CC-2V	3.00		1500					5e, 9d		Reveal® White-Globe, BOTH	
G16.5	Med	40	31109	40GM/LCL-PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		Clear, Globe, Medium Base, BOTH	
		40	31110	40GM/MW-PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		White, Globe, Medium Base, BOTH	
60 Watts																		
G25	Med	40	12979	40G25/W 6PK	120	6	CC-6	4.50		1500							White, Globe	
		40	12980	40G25 6PK	120	6	CC-6	4.50		1500							Clear, Globe	
		40	48694	40G25C/RVL PQ1/6	120	6	CC-6	4.50		1500							Reveal®	
		40	48695	40G25W/RVL PQ1/6	120	6	CC-6	4.50		1500							Reveal®	
G40	Med	40	36191	40G40/W 6PK	120	6	CC-6	6.93		2500							White, Globe	
B10	Cand	60	27298	60BC/CD4	120	30	CC-2V	3.75		1500							Clear, Blunt Tip	
		60	74036	60BC/RVL/CF-T4/6	130	6	C-7A	3.75		1500							Reveal® Clear, Ceiling Fan, Blunt Tip	
B13	Med	60	27497	60BM/CD4	120	6	C-9	4.62		1500							Clear, Blunt Tip	
		60	72781	60BM/RVL/CD2-4PK	120	4	C-9	4.62		1500							Reveal®, Blunt Tip	
CA10	Med	60	21009	60CAM CARD4	120	30	CC-2V	4.56		1500							Clear, Bent Tip, BOTH	
CA10	Cand	60	15781	60CAC 25PK	120	200	CC-2V	4.12		1500							Clear, Bent Tip	
		60	16050	60CAC CARD 4	120	30	CC-2V	4.12		1500							Clear, Bent Tip	
		60	16051	60CAC/F CARD4	120	30	CC-2V	4.12		1500							Frost, Bent Tip	
		60	72777	60GC/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Clear, Globe	
G16.5	Cand	60	44723	60GC/W PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		White, Globe	
G16.5	Med	60	31114	60GM/LCL-PQ2/6	120	30	CC-2V	3.00		1500						5e, 9d		Clear, Globe, Medium Base, BOTH
		60	31115	60GM/MW-PQ2/6	120	30	CC-2V	3.00		1500						5e, 9d		White, Globe, Medium Base, BOTH
G25	Med	60	42360	60G25C/RVL PQ1/6	120	6	CC-6	4.50		1500							Reveal®, Clear-Globe	
		60	42361	60G25W/RVL PQ1/6	120	6	CC-6	4.50		1500							Reveal®, White - Globe	
		60	14846	60G25 6PK	120	6	CC-6	4.50		1500							Clear, Globe	
		60	14848	60G25/W 6PK	120	6	CC-6	4.50		1500							White - Globe	
G30	Med	60	14850	60G30/W 6PK	120	24	CC-9	5.00		2500							White - Globe, Retail Pack	
G40	Med	60	14187	60G40 6PK	120	6	CC-6	6.93		2500							Clear - Globe	
		60	49780	60G40/W 6PK	120	6	CC-6	6.93		2500							White - Globe	
75 Watts																		
E17	Med	75	73289	75E17/TF-4PK	120	4	CC-6	5.00		4000								
G40	Med	75	36193	75G40/W 6PK	120	6	CC-6	6.93		2500							White - Globe	
100 Watts																		
F20	Med	100	44540	100F20/TF PQ1/6	120	30	CC-9	5.00		3000							Post Light, Teflon® Coated, Saf-T-Gard® BB	
G40	Med	100	16742	100G40/W CPK	120	24	CC-6	6.93		2500							White - Globe	
		100	49781	100G40/W 6PK	120	6	CC-6	6.93		2500							White - Globe	
150 Watts																		
G40	Med	150	16585	150G40/W	120	24	CC-6	6.93		2500							White - Globe	
Portable Lighting Products																		
R30	Med	65	44848	PLK 1 UNIT	120	4	CC-6	5.37		2000					2a, 5e, 9k		Plant Light Kit includes one 75R30/ PL Plant Light lamp, UL listed holder and information booklet.	

Incandescent Lamps

Warning and Caution Notices

1	⚠ WARNING Risk of electric shock a. Turn off power before inspection, installation or removal
2	⚠ WARNING Risk of fire a. Keep combustible materials away from lamp b. Use in fixture rated for this product c. Use in fixture rated for this product – see instructions d. Operate base down to horizontal only e. Keep away from bed coverings, drapes and other combustible materials f. Do not use in enclosed fixture or with lamp shade g. Use in a high intensity fixture rated for this product h. Do not use as a night light i. Burning position base down only
3	⚠ WARNING Lamp emits IR radiation which may cause eye injury a. Use in fixture approved for this product b. Do not use on infant, disabled, sleeping, or unconscious person/ animal unable to avoid potential injury
4	⚠ WARNING Pressurized lamp – unexpected rupture may cause injury, fire, or property damage a. Use eye protection when handling lamp b. Avoid direct water/liquid contact c. Use in enclosed fixture rated for this product d. Operate lamp only in specified position
5	⚠ WARNING Unexpected lamp rupture may cause injury, fire, or property damage a. Do not exceed rated voltage b. Avoid direct water/liquid contact c. Use in enclosed fixture rated for this product d. Do not use lamp if outer glass is scratched or broken e. Avoid direct water, liquid, or metal contact

6	⚠ WARNING Risk of burn a. Do not touch operating lamp
7	⚠ CAUTION Risk of burn a. Allow lamp to cool before handling b. Allow lamp/fixture to cool before handling c. Do not touch operating lamp
8	⚠ CAUTION Lamp may shatter and cause injury if broken a. Do not use excessive force when installing lamp
9	Operating Instructions a. Burning position – base up b. Burning position – horizontal c. Burn base down only d. Burn base down to horizontal e. For best performance burn lamp within 45 degrees of vertical base up f. For best performance burn within 45 degree of base down to horizontal g. For best performance operate base up within 30° of vertical h. For best performance burn base down i. Do not burn in base up position j. To produce all three levels of light, this lamp should be tightened firmly, but not forcibly, in the socket to assure that all contacts are connected k. Should not be used in equipment where the base lamp will exceed 550°F (260°C) l. Will operate in any burning position, but fixed-socket usage other than base up, or continuous burning in any position in ambient temperatures above 150°F (66°C), may result in some loss of protective coating m. Reflectors and accessories may raise bulb temperature n. For use with heat-resistant connector supported by bulb rim or metal shell of base o. For best performance replace lamp if it blisters or darkens

Cross-Reference

GE Description Order This GE Lamp	Osram/Sylvania Description If you currently use these lamps	Philips Description If you currently use these lamps
Incandescent Lamps		
356/S 130V	356/S 130V	356/S 120-130V
4C7	4C7/BL/2PK	BC-4C7
4C7/W	4C7/W/2PK 120V	BC4C7/W
10511N	10511N/CL	10511N
10511N/F	10511N/F	10511N/F
1551A/GR/CL 130V	1551A/CL 130V	—
40511N/1/F	40511N/CF 120V	40511N/F 120V
40R14N/CD	40R14N/RP	40R14N
40T6 1/2	40T6 5/CL	40T6-1/2 120V
40T8	40T8	40T8
40T10	40T10	40T10
60T10/CF/CD	60T10/CF	60T10/641F
38A 130V	38A/CVP 130V	38A 120V
38A/CL 130V	not available in 130V	38A/CL 130V
40A15	40A15	40A15
40A 48PK	40A/CVP 130V	40A 130V
50A19/RS/SH	50A/RS/CL	50A/RS/TF 120V
50/150	50/150A/W	50/150T5/W
57A 130V	57A/CVP 130V	57A 130V
57A/CL 130V	57A/CL 130V	57A/CL 130V
60A15	60A15	60A15
60A 48PK	60A/CVP 130V	60A19/35
60A/RS 130V	60A/RS/2/RP 130V	—
60A/RS/STG	60A/RS/SLRP 120V	—
60A/PL	60A/GRO	60A/AGRO
65R30/FL/LL	—	65BR30/FL/LL
65R30/SP/LL	—	65BR30/SP/LL
71A 130V	71A/CVP 130V	71A 120V
71A/CL 130V	not available in 130V	71A/CL 130V
75A 48PK	75A/CVP 130V	75A
75A/RS/130	75A/RS/2/RP 130V	—
75A/RS/STG	75A21/RS/SLRP 130V	75A/RH/TG 120-130V
95A 130V	95A/CVP 130V	95A 120V
95A/CL 130V	not available in 130V	95A/CL 130V
100A 48PK	100A/CVP 130V	100A 130V
100A/RS 130V	100A/RS/2/RP 130V	—
100A/RS/STG	100A/RS/SLRP 120V	100A/RS/5/BR/TG 120-130V
100A23	100A23 12V	100A 12V
150A21/RS	150A23/RS 130V	—
150A21/RS/STG	—	150A/35/RS/BR/TG 120-130V
150PS25/RS/STG	150PS25/RS/SL 120V	—
200PS30/RS/23/STG	200PS/RS/SL 120V	200PS30/RS/TF 120V
250RAQ/10	250RAQ/10	250RAQ/HR
300M	300M/CL	300-120V CLR P530
300M/F	300M/F	300MPS30F 130V
158C	15810C/T	158A9C
15FC	15FC	15F10C
258C	25810C/T	25810-1/2C
258M	25810	25813
25CAC	25810C	258A9C/CL
25CAC/F	25810C/W	258A9C/F
25CAC/L	25810C/DL	258A9C/M
25CAM	—	258A9-1/2

GE Description Order This GE Lamp	Osram/Sylvania Description If you currently use these lamps	Philips Description If you currently use these lamps
Incandescent Lamps (continued)		
25FM/CF	—	—
25GC	25G16.5C	25G16-1/2C
25GM	25G16.5	25G16-1/2
25G25	25G25	25G25
40BC	40B10C/T	40B10-1/2C
40BM	40B10	40B13
40CAC	40B10C	40BA9C/CL
40CAC/F	40B10C/F	40BA9C/F
40CAC/L	—	40BA9C/M
40CAM	—	40BA9-1/2
40CAM/L	—	40BA9-1/2/LL
40FM/CF	—	—
40GC	40G16.5C	40G16-1/2C
40GM	40G16.5	40G16-1/2
40G25	40G25	40G25
60BC	60B10C/T	60B10-1/2C
60BM	60B10	60B13
60CAC	60B10C	60BA9C/CL
60CAC/F	60B10C/F	60BA9C/F
60CAM	—	60BA9-1/2
60FM/CF	—	—
60GC	60G16.5C	60G16-1/2C
60GM	60G16.5	60G16-1/2
60G25	60G25	60G25

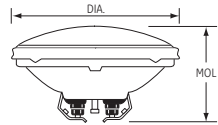
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Halogen Lamps

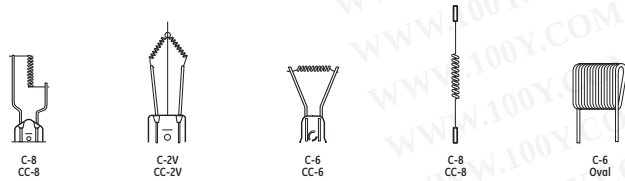
Bulb Identification



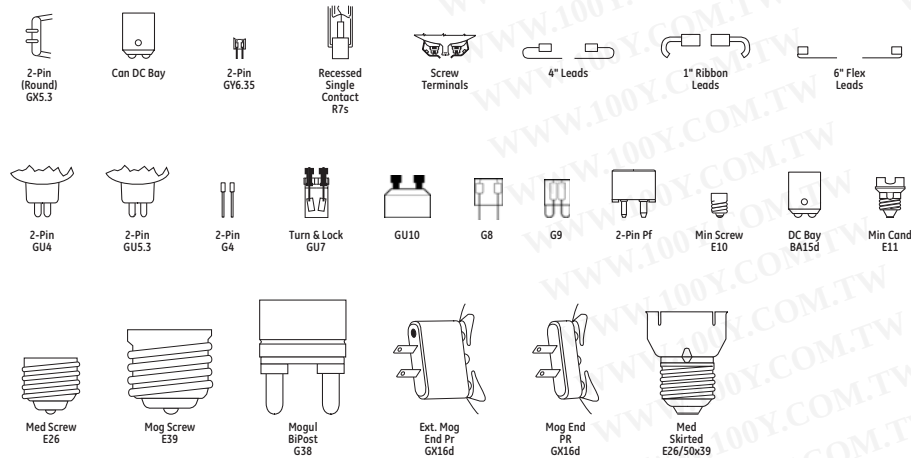
DIA. in.: Diameter of bulb at widest point.
 MOL in.: Maximum Overall Length including base or pins.
 LCL in.: Distance between the center of the filament and the Light Center Length reference plane.
 Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Filament Identification



Base Identification



Introduction

Halogen lamps provide a small, white light source with excellent color rendering. Unlike standard incandescent lamps, halogen lamps use a halogen gas which allows the bulbs to burn longer without sacrificing light output.

Compared to incandescent lamps, halogen lamps provide:

- Crisp, white light
- Excellent beam control
- Compact size
- High lumen maintenance
- Long life

Product Information

Par38 vs. Standard Halogen

HIR™ Silv-IR (pg 2-5)

- Up to 25% more efficient
- Up to 50% longer life – 4000 hours

HIR™ Plus (PAR38) (pg 2-5)

- Up to 36% in energy savings
- Up to 50% longer life – 4200 hours

HIR XL® UltraLong Life (PAR38) (pg 2-5)

- Up to 20% energy savings
- Ultra long life – 6000 hours

HIR™ (PAR38) (pg 2-5)

- Up to 28% more efficient
- Up to 22% energy savings
- Up to 50% longer life – 4000 hours

Halogen Plus (PAR38) (pg 2-6)

- Longer life than standard halogen – 3000 hours
- Wide variety of wattages and beam spreads

Standard Halogen (PAR38) (pg 2-6)

- Crisp, white light
- Life – 2000 hours

HIR™ XL® (PAR30) (pg 2-6)

- Up to 10% energy savings
- Ultra long life – 6000 hours

Halogen Compact PAR Lamps

Compact HIR™ (PAR30) (pg 2-6)

- Long life – 4000 hours

Compact PAR30 Long Neck (pg 2-6)

- Energy-efficient replacement for R30 lamps
- Ideal for recessed fixtures

Compact PAR Halogen (PAR30/PAR20) (pg 2-7)

- Small size for "low profile" fixture
- Energy-efficient replacement for R20/R30 lamps
- Long life – 3000 hours

MR

Turn & Lock (TAL) ConstantColor® (MR16) (pg 2-10)

- User-friendly base...easy to install and remove
- Over 90% maintained light over life
- Excellent color maintenance
- Suitable for use in open fixtures

ConstantColor® Precise™ Cover Glass (MR16) (pg 2-10)

- Cover glass lens protects bulb from dust and dirt
- Suitable for use in open fixtures

ConstantColor® Precise™ (MR16) (pg 2-10)

- Precise beam control
- Excellent color maintenance
- Over 90% maintained light output over life
- Long life – up to 6000 hours (50-watt)

Precise™ Cover Glass IR (MR16) (pg 2-10)

- Energy-saving MR16
- 5000 hour lamp life

Standard MR (MR16/MR11) (pg 2-11)

- Small size for "low profile" look
- Crisp, white light

Linear Quartz

Linear Quartzline® HIR™ (pg 2-11)

- 30%-40% energy cost savings vs. standard quartz lamps
- 95% maintained light output over life
- Cooler operation increases fixture life

Halogen Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families,

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Halogen Par 38 Lamps																
Retail HIR™ & Silv-IR																
PAR38	Med Skirt	50	46168	50PAR/HR/S/SP10	120	12	CC-8	5.31		4000	800	2750	140000	+	1a,2a,4f,9a,10c	Spotlight - Heavy Duty Filament

50 PAR / HIR / SP 10

Identifies the lamp's wattage.
Identifies the lamp shape and the bulb diameter in eighths of an inch.
Identifies the lamp type.
Identifies beam angle, code may also include packaging information.
Identifies as Spotlight.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.

lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.

MOL (in):
Maximum Overall Length in inches.

LCL (in):
Distance between the center of the filament and the Light Center Length reference plane, in inches.

Rated Life (hours):
Life as defined by FTC Lamp Label Rules is rated life in hours.

Lumens Initial:
Light output as defined by FTC Lamp Label Rules is rated lumens.

Initial Color Temperature Kelvins (K):
"Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light.

Approximate CBCP (Center Beam Candlepower):
For reflector-type lamps, Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Reduced Wattage:
+ Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Warnings and Caution Notices:
See page 2-17 for information.

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL	LCL	Rated Life (hrs)	Lumens Initial	Initial Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Halogen Par 38 Lamps																
Retail HIR™ & Silv-IR																
PAR38	Med Skirt	50	46168	50PAR/HR/S/SP10	120	12	CC-8	5.31		4000	800	2750	140000	+	1a,2a,4f,9a,10c	Spotlight - Heavy Duty Filament

Halogen Brand Name Cross-reference

GE	Osram/Sylvania	Philips
HIR™ Silv-IR	—	Energy Advantage, IRC
HIR™ PLUS	—	Long Life IRC
HIR/XL™ PAR	—	—
HIR™ PAR	Capsylite® PAR IR™	Masterline™ IRC
Halogen Plus PAR	Capsylite® PAR	Masterline™ 2500
Standard Halogen PAR	Capsylite® PAR	Masterline™ 2000
Compact PAR	Capsylite® PAR	Masterline™ PAR
Turn & Lock (TAL) ConstantColor®	—	—
ConstantColor®	—	—
Precise™	Tru-Aim Titan®	Continuum Color®
Precise™ IR	Tru-Aim® IR™	Masterline™ ES IRC
Standard MR16	Tru-Aim®	Continuum®
Halogen A-Line	Capsylite® A-Line (Midbreak)	Halogena®

ATTENTION: This brand-name cross reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or other auxiliary equipment.

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Halogen PAR 38 Lamps																
HIR™ Silv-IR																
PAR38	Med Skirt	50	46168	50PAR/HR/S/SP10	120	12	CC-8	5.31		4000	800	2750	140000	+	1a,2a,4f,9a,10c	Spotlight - Heavy Duty Filament
		50	46167	50PAR/HR/S/FL25	120	12	CC-8	5.31		4000	800	2750	3400	+	1a,2a,4f,9a,10c	Spotlight - Heavy Duty Filament
		60	46165	60PAR/HR/S/SP10	120	12	CC-8	5.31		4000	1050	2800	170000	+	1a,2a,4f,9a,10c	Spotlight - Heavy Duty Filament
		60	46166	60PAR/HR/S/FL30	120	12	CC-8	5.31		4000	1050	2800	28000	+	1a,2a,4f,9a,10c	Spotlight - Heavy Duty Filament
HIR™ Plus(+)																
PAR38	Med Skirt	45	90512	45PAR/HR/SP10	120	12	CC-8	5.31		4200	870	2750	14100	+	1a,2a,4f,9a,10c	Spotlight
		45	90513	45PAR/HR/FL25	120	12	CC-8	5.31		4200	870	2750	3500	+	1a,2a,4f,9a,10c	Floodlight
		48	90515	48PAR/HR/SP10	120	12	CC-8	5.31		4200	970	2750	155000	+	1a,2a,4f,9a,10c	Spotlight
		48	90519	48PAR/HR/FL25	120	12	CC-8	5.31		4200	970	2750	38000	+	1a,2a,4f,9a,10c	Floodlight
		55	71446	55PAR/HR/SP10	120	12	CC-8	5.31		4200	1120	2750	175000	+	1a,2a,4f,9a,10c	Spotlight
		55	71598	55PAR/HR/FL25	120	12	CC-8	5.31		4200	1120	2750	4100	+	1a,2a,4f,9a,10c	Floodlight
		60	90520	60PAR/HR/SP10	120	12	CC-8	5.31		4200	1260	2800	19000	+	1a,2a,4f,9a,10c	Spotlight
		60	90529	60PAR/HR/FL25	120	12	CC-8	5.31		4200	1260	2800	47000	+	1a,2a,4f,9a,10c	Floodlight
		67	90601	67PAR/HR/SP10	120	12	CC-8	5.31		4200	1500	2750	22000	+	1a,2a,4f,9a,10c	Spotlight
		67	90602	67PAR/HR/FL25	120	12	CC-8	5.31		4200	1500	2800	5000	+	1a,2a,4f,9a,10c	Floodlight
		83	90605	83PAR/HR/SP10	120	12	CC-8	5.31		4200	2030	2850	30000	+	1a,2a,4f,9a,10c	Spotlight
		83	90606	83PAR/HR/FL25	120	12	CC-8	5.31		4200	2030	2850	7000	+	1a,2a,4f,9a,10c	Floodlight
HIR XL™ (UltraLong Life)																
PAR38	Med Skirt	45	40793	45PAR/HR/SP12XL	120	6	CC-8	5.31		6000	600	2680	7000	+	1a,2a,4f,9a,10c	Spotlight, Long Life
		45	40790	45PAR/HR/FL40XL	120	6	CC-8	5.31		6000	600	2680	1300	+	1a,2a,4f,9a,10c	Floodlight, Long Life
		55	40794	55PAR/HR/SP12XL	120	6	CC-8	5.31		6000	800	2680	9000	+	1a,2a,4f,9a,10c	Spotlight, Long Life
		55	40792	55PAR/HR/FL40XL	120	6	CC-8	5.31		6000	800	2680	2000	+	1a,2a,4f,9a,10c	Floodlight, Long Life
		90	40795	90PAR/HR/SP12XL	120	6	CC-8	5.31		6000	1470	2800	170000	+	1a,2a,4f,9a,10c	Spotlight, Long Life
		90	40791	90PAR/HR/FL40XL	120	6	CC-8	5.31		6000	1470	2800	28000	+	1a,2a,4f,9a,10c	Floodlight, Long Life
HIR™																
PAR38	Med Skirt	50	40937	50PAR/HR/SP6	120	12	CC-8	5.31		3000	800	2810	20000	+	1a,2a,4f,9a,10c	Spotlight
		50	12396	50PAR/HR/SP9	120	12	CC-8	5.31		3000	800	2810	160000	+	1a,2a,4f,9a,10c	Spotlight
		50	12397	50PAR/HR/FL25	120	12	CC-8	5.31		3000	800	2810	3400	+	1a,2a,4f,9a,10c	Floodlight
		50/64	22850	50PAR/HR/FL25	130/120	12	CC-8	5.31		3000/6000	800/600	2810	3400	+	1a,2a,4f,9a,10c	Floodlight
		60	18627	60PAR/HR/SP10	120	12	CC-8	5.31		3000	1050	2850	170000	+	1a,2a,4f,9a,10c	Spotlight
		60/54	18629	60PAR/HR/SP10	130/120	12	CC-8	5.31		3000/6000	1050/800	2850	170000	+	1a,2a,4f,9a,10c	Spotlight
		60	11878	60PAR/HR/FL30-6PK	120	6	CC-8	5.31		3000	1050	2850	28000	+	1a,2a,4f,9a,10c	Spotlight
		60	18626	60PAR/HR/FL30	120	12	CC-8	5.31		3000	1050	2850	28000	+	1a,2a,4f,9a,10c	Floodlight
		60/54	18628	60PAR/HR/FL30	130/120	12	CC-8	5.31		3000/6000	1050/800	2850	28000	+	1a,2a,4f,9a,10c	Floodlight
		60	10467	60PAR/HR/FL40	120	12	CC-8	5.31		3000	1050	2850	17000	+	1a,2a,4f,9a,10c	Floodlight
		60	20947	60PAR/HR/WFL	120	12	CC-8	5.31		3000	1050	2850	1100	+	1a,2a,4f,9a,10c	Wide Floodlight
		60/54	20948	60PAR/HR/WFL	130/120	12	CC-8	5.31		3000/6000	1050/800	2850	1100	+	1a,2a,4f,9a,10c	Wide Floodlight
		70	46367	70PAR/HR/SP10	120	12	CC-8	5.31		3000	1260	2900	19000	+	1a,2a,4f,9a,10c	Spotlight
		70/64	46369	70PAR/HR/SP10	130/120	12	CC-8	5.31		3000/6000	1260/950	2900	19000	+	1a,2a,4f,9a,10c	Spotlight
		70	46368	70PAR/HR/FL25	120	12	CC-8	5.31		3000	1260	2900	47000	+	1a,2a,4f,9a,10c	Floodlight
		70/64	46370	70PAR/HR/FL25	130/120	12	CC-8	5.31		3000/6000	1260/950	2900	47000	+	1a,2a,4f,9a,10c	Floodlight
		70	16239	70PAR/HR/FL25-60	120	6	CC-8	5.31		3000	1260	2900	47000	+	1a,2a,4f,9a,10c	Floodlight
		80	27216	80PAR/HR/SP10	120	12	CC-8	5.31		3000	1500	2900	22000	+	1a,2a,4f,9a,10c	Spotlight
		80	27217	80PAR/HR/SP12	120	12	CC-8	5.31		3000	1500	2900	175000	+	1a,2a,4f,9a,10c	Spotlight
		80	27218	80PAR/HR/FL25	120	12	CC-8	5.31		3000	1500	2900	5000	+	1a,2a,4f,9a,10c	Floodlight
		100	18635	100PAR/HR/SP10	120	12	CC-8	5.31		3000	2030	2900	30000	+	1a,2a,4f,9a,10c	Spotlight
		100	11885	100PAR/HR/SP10K	120	6	CC-8	5.31		3000	2030	2900	30000	+	1a,2a,4f,9a,10c	Spotlight
		100/88	18636	100PAR/HR/SP10	130/120	12	CC-8	5.31		3000/6000	2030/1470	2900	30000	+	1a,2a,4f,9a,10c	Spotlight
		100	11883	100PAR/HR/FL25-6P	120	6	CC-8	5.31		3000	2030	2900	7000	+	1a,2a,4f,9a,10c	Floodlight
		100	18631	100PAR/HR/FL25	120	12	CC-8	5.31		3000	2030	2900	7000	+	1a,2a,4f,9a,10c	Floodlight
		100/88	18633	100PAR/HR/FL25	130/120	12	CC-8	5.31		3000/6000	2030/1470	2900	7000	+	1a,2a,4f,9a,10c	Floodlight
		100	10473	100PAR/HR/FL40	120	12	CC-8	5.31		3000	2030	2900	3400	+	1a,2a,4f,9a,10c	Floodlight
Long Life PAR38																
PAR38	Med Skirt	45	20757	45PAR/SP10XL-OD	120	6	CC-8	5.31		6000	520.00	2700	8000	+	1a,2a,4f,9a,10c	Spotlight, Long Life
		45	20758	45PAR/FL25XL-OD	120	6	CC-8	5.31		6000	520.00	2700	2000	+	1a,2a,4f,9a,10c	Floodlight, Long Life
		90	20759	90PAR/SP10XL-OD	120	6	CC-8	5.31		6000	1310	2800	20000	+	1a,2a,4f,9a,10c	Spotlight, Long Life
		90	20763	90PAR/FL25XL-OD	120	6	CC-8	5.31		6000	1310	2800	47000	+	1a,2a,4f,9a,10c	Floodlight, Long Life

Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Halogen PAR 38 Lamps (continued)																
Halogen Plus																
	Med Skirt	45	17470	45PAR/H/SP10	120	6	CC-8	5.31		2500	540	2750	8000	+	1a,2a,4f,9a,10c	Spotlight
		45/40	16229	45PAR/H/SP10	130/120	12	CC-8	5.31		2500/5000	540/410	2750	8000	+	1a,2a,4f,9a,10c	Spotlight
		45	17471	45PAR/H/FL25-6PK	120	6	CC-8	5.31		2500	540	2750	2000	+	1a,2a,4f,9a,10c	Floodlight
		45/40	16231	45PAR/H/FL25	130/120	12	CC-8	5.31		2500/5000	540/410	2750	2000	+	1a,2a,4f,9a,10c	Floodlight
		60	25266	60PAR/H/SP10	120	12	CC-8	5.31		3000	800	2800	13000		1a,2a,4f,9a,10c	Spotlight
		60	25269	60PAR/H/FL25	120	12	CC-8	5.31		3000	800	2800	3200		1a,2a,4f,9a,10c	Floodlight
		60/54	25271	60PAR/H/FL25	130/120	12	CC-8	5.31		3000/6000	800/608	2800	3200		1a,2a,4f,9a,10c	Floodlight
		75	14751	75PAR/H/SP9-6PK	120	6	CC-8	5.31		2500	1050	2850	18000		1a,2a,4f,9a,10c	Spotlight
		75	14748	75PAR/H/FL25-6PK	120	6	CC-8	5.31		2500	1050	2850	4000		1a,2a,4f,9a,10c	Floodlight
		75	81864	75PAR38HFL25/RVL	120	6	CC-8	5.31		2500	950		3200		1a,2a,4f,9a,10c	Reveal™ Floodlight
		75/66	21389	75PAR/H/FL25	130/120	12	CC-8	5.31		2500/5000	1050/800	2850	4000		1a,2a,4f,9a,10c	Floodlight
		90	17450	90PAR/H/SP10-6PK	120	6	CC-8	5.31		2500	1310	2900	20000		1a,2a,4f,9a,10c	Spotlight
		90/79	13311	90PAR/H/SP10	130/120	12	CC-8	5.31		2500/5000	1310/1000	2900	20000		1a,2a,4f,9a,10c	Spotlight
		90	17451	90PAR/H/FL25-6PK	120	6	CC-8	5.31		2500	1310	2900	47000		1a,2a,4f,9a,10c	Floodlight
		90/79	13308	90PAR/H/FL25	130/120	12	CC-8	5.31		2500/5000	1310/1000	2900	47000		1a,2a,4f,9a,10c	Floodlight
		90	22742	90PAR/H/FL-TWIN	120	3	CC-8	5.31		2500	1310	2900	47000		1a,2a,4f,9a,10c	Floodlight
		90	25727	90PAR/H/WFL-120V	120	12	CC-8	5.31		2500	1310	2900	2475		1a,2a,4f,9a,10c	Wide Floodlight
		120	41632	120PAR/H/SP9	120	6	CC-8	5.31		2500	1900	2950	18000		1a,2a,4f,9a,10c	Narrow Spot
		120	41631	120PAR/H/FL30	120	6	CC-8	5.31		2500	1900	2950	4000		1a,2a,4f,9a,10c	Floodlight
Standard Halogen																
	Med Skirt	50	17980	50PAR/H/SP10-6PK	120	6	CC-8	5.31		2000	600	2750	9500		1a,2a,4f,9a,10c	Spotlight
		50	17979	50PAR/H/FL25-6PK	120	6	CC-8	5.31		2000	600	2750	2200		1a,2a,4f,9a,10c	Floodlight
		50	25948	50PAR/H/FL-TWIN	120	3	CC-8	5.31		2000	600	2750	2200		1a,2a,4f,9a,10c	Floodlight
		50/46	17926	50PAR/H/FL	130/120	12	CC-8	5.31		2000/4000	600/450	2750	2200		1a,2a,4f,9a,10c	Floodlight
		100	17992	100PAR/H/SP10	120	6	CC-8	5.31		2000	1500	2900	22000		1a,2a,4f,9a,10c	Spotlight
		100	17986	100PAR/H/FL25	120	6	CC-8	5.31		2000	1500	2900	5000		1a,2a,4f,9a,10c	Floodlight
		100	25679	100PAR/H/FL-TWIN	120	3	CC-8	5.31		2000	1500	2900	5000		1a,2a,4f,9a,10c	Floodlight
		100/88	17947	100PAR/H/FL25	130/120	12	CC-8	5.31		2000/4000	1500/1150	2900	5000		1a,2a,4f,9a,10c	Floodlight
Cool Beam PAR38																
	Med Skirt	90	17691	90PAR/CB/H/FL25	120	12	CC-8	5.31		2500	1260	2870	4100		1a,2a,2c,4f,9a,10c	Floodlight
Halogen Compact PAR Lamps																
Compact HIR™																
	Med	45	41545	45PAR30HIR/SP9HL	120	15	CC-8	3.62		6000	620	2680	9750	+	1a,2a,4f,4h,9a,10c	Spotlight
		45	41547	45PAR30HIR/FL25K	120	15	CC-8	3.62		6000	620	2680	2025	+	1a,2a,4f,4h,9a,10c	Floodlight
		45	41550	45PAR30HIR/FL135X	120	15	CC-8	3.62		6000	620	2680	1125	+	1a,2a,4f,4h,9a,10c	Floodlight
		50	19902	50PAR30H/IR/SP9	120	15	CC-8	3.62		4000	825	2810	150000		1a,2a,4f,4h,9a,10c	Spotlight
		50	19901	50PAR30HIR/FL25	120	15	CC-8	3.62		4000	825	2810	3200		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	21533	50PAR30HIR/FL25	130/120	15	CC-8	3.62		3000/6000	825/620	2810	3200		1a,2a,4f,4h,9a,10c	Floodlight
		50	19900	50PAR30H/IR/FL35	120	15	CC-8	3.62		4000	825	2810	27000		1a,2a,4f,4h,9a,10c	Floodlight
50/46	19903	50PAR30H/IR/FL35	130/120	15	CC-8	3.62		3000/6000	825/320	2810	27000		1a,2a,4f,4h,9a,10c	Floodlight		
Compact HIR™ PAR30 Long Neck																
	Med	48	73546	45PAR30L/H/IR+FL	120	6	CC-8	4.75		4200	850	2750	2500		1a,2a,4f,4h,9a,10c	Floodlight
Compact PAR30 Long Neck																
	Med	50	14940	50PAR30L/H/SP10	120	6	CC-8	4.75		3000	580	2800	7500		1a,2a,4f,4h,9a,10c	Spotlight
		50/46	11117	50PAR30L/H/SP10	130/120	15	CC-8	4.75		3000/6000	580/460	2800	7500		1a,2a,4f,4h,9a,10c	Spotlight
		50	11116	50PAR30L/H/FL40	120	15	CC-8	4.75		3000	580	2800	1100		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	11123	50PAR30L/H/FL40	130/120	15	CC-8	4.75		3000/6000	580/460	2800	1100		1a,2a,4f,4h,9a,10c	Floodlight
		50	14941	50PAR30L/H/WFL	120	6	CC-8	4.75		3000	630	2800	880		1a,2a,4f,4h,9a,10c	Wide Floodlight
		75	11124	75PAR30L/H/SP10	120	15	CC-8	4.75		3000	940	2830	13000		1a,2a,4f,4h,9a,10c	Spotlight
		75/66	11129	75PAR30L/H/SP10	130/120	15	CC-8	4.75		3000/6000	940/714	2830	13000		1a,2a,4f,4h,9a,10c	Spotlight
		75	14943	75PAR30L/H/FL25	120	6	CC-8	4.75		3000	940	2830	38000		1a,2a,4f,4h,9a,10c	Floodlight
		75/66	11131	75PAR30L/H/FL25	130/120	15	CC-8	4.75		3000/6000	940/714	2830	38000		1a,2a,4f,4h,9a,10c	Floodlight
		75	16393	75PAR30L/H/WFL	120	6	CC-8	4.75		3000	1050	2830	620		1a,2a,4f,4h,9a,10c	Wide Floodlight
	Med	81862	75PAR30L/HFL25RVL	120	6	CC-8	4.75		3000	980	2830	3000		1a,2a,4f,4h,9a,10c	Reveal™ Floodlight	
		71742	75PAR30L/VR-TP2/6	120	6	CC-8	4.75		1500	940	2850	1700		1a,2a,4f,4h,9a,10c	Longer Life Floodlight	

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Halogen Compact PAR Lamps (continued)																
Compact PAR30																
	Med	50	14023	50PAR30/H/SP10	120	6	CC-8	3.62		3000	630	2800	8200		1a,2a,4f,4h,9a,10c	Spotlight
		50/46	17870	50PAR30/H/SP10	130/120	15	CC-8	3.62		3000/6000	630/500	2800	8200		1a,2a,4f,4h,9a,10c	Spotlight
		50	17871	50PAR30/H/FL25	120	15	CC-8	3.62		3000	630	2800	2300		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	17872	50PAR30/H/FL25	130/120	15	CC-8	3.62		3000/6000	630/500	2800	2300		1a,2a,4f,4h,9a,10c	Floodlight
		50	14022	50PAR30/H/FL35	120	6	CC-8	3.62		3000	630	2800	1400		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	17874	50PAR30/H/FL35	130/120	15	CC-8	3.62		3000/6000	630/500	2800	1400		1a,2a,4f,4h,9a,10c	Floodlight
		60	27212	60PAR30/H/NSP9	120	15	CC-8	3.62		3000	800	2800	11000		1a,2a,4f,4h,9a,10c	Spotlight
		60	40167	60PAR30/H/FL25	120	15	CC-8	3.62		3000	800	2800	29000		1a,2a,4f,4h,9a,10c	Floodlight
		60	27214	60PAR30/H/FL35	120	15	CC-8	3.62		3000	800	2800	17000		1a,2a,4f,4h,9a,10c	Floodlight
		75	14802	75PAR30/H/SP10	120	6	CC-8	3.62		3000	1030	2830	13000		1a,2a,4f,4h,9a,10c	Spotlight
		75	81863	75PAR30H/FL25/RVL	120	6	CC-8	3.62		3000	1010		3000		1a,2a,4f,4h,9a,10c	Reveal® Floodlight
		75/66	18056	75PAR30/H/SP10	130/120	15	CC-8	3.62		3000/6000	1030	2830	13000		1a,2a,4f,4h,9a,10c	Spotlight
75	18057	75PAR30/H/FL25	120	15	CC-8	3.62		3000	1030	2830	38000		1a,2a,4f,4h,9a,10c	Floodlight		
75	14779	75PAR30/H/FL35	120	6	CC-8	3.62		3000	1030	2830	2400		1a,2a,4f,4h,9a,10c	Floodlight		
75/66	18060	75PAR30/H/FL35	130/120	15	CC-8	3.62		3000/6000	1030/790	2830	2400		1a,2a,4f,4h,9a,10c	Floodlight		
Compact PAR20																
	Med	35	85476	35PAR20/H/F25-P01/6	120	6	CC-8	3.13		1500	260	2700	520		1a,2a,4f,4h,9a,10c	Floodlight
		35	71740	35PAR20/H/YR-TP12	120	12	CC-8	3.13		1500	260	2700	520		1a,2a,4f,4h,9a,10c	Longer Life Floodlight
		50	72795	50PAR20/H/FL25-TW	120	3	CC-8	3.13		3000	570	2800	1500		1a,2a,4f,4h,9a,10c	Indoor Floodlight
		50	14927	50PAR20/H/SP10	120	6	CC-8	3.13		3000	570	2800	6000		1a,2a,4f,4h,9a,10c	Floodlight
		50	81861	50PAR20/H/FL25/RVL	120	5	CC-8	3.13		2500	470		1360		1a,2a,4f,4h,9a,10c	Reveal® Floodlight
		50/46	17866	50PAR20/H/SP10	130/120	15	CC-8	3.13		3000/6000	570/498	2800	6000		1a,2a,4f,4h,9a,10c	Spotlight
		50	14928	50PAR20/H/FL25	120	6	CC-8	3.13		3000	570	2800	1500		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	17868	50PAR20/H/FL25	130/120	15	CC-8	3.13 cm		3000/6000	570/498	2800	1500		1a,2a,4f,4h,9a,10c	Floodlight
		50	71741	50PAR20/H/YR-TP2/6	120	6	CC-8	3.13		1500	550	2750	1000		1a,2a,4f,4h,9a,10c	Longer Life Floodlight
		Halogen Compact PAR16														
	Med	35	20641	35PAR16/CURIO	120	3	CC-6V	2.05		3000		2700	500		1a,2a,2b,2c,2e,4f,4h,7a,9a,10b,10c	Curio cabinet
		60	41628	60PAR16/H/SP10	120	6	CC-8	2.88		2000	650	2950	5400		1a,2a,4f,4h,9a,10c	Spotlight
		60	41623	60PAR16/H/FL30	120	6	CC-8	2.88		2000	650	2950	1550		1a,2a,4f,4h,9a,10c	Floodlight
		60	82142	60PAR16/R/VL-CD	120	6	CC-8	2.88		2000					1a,2a,4f,4h,9a,10c	Reveal® Floodlight, Coded
		75	41630	75PAR16/H/SP10	120	6	CC-8	2.88		2000	900	2950	6200		1a,2a,4f,4h,9a,10c	Spotlight
75	41629	75PAR16/H/FL30	120	6	CC-8	2.88		2000	900	2950	16000		1a,2a,4f,4h,9a,10c	Floodlight		
Halogen Reflector																
HIR®																
	Med	45	74204	45R20/H/HIR-TP6	120	6	CC-8	3.54		3000	620	2750			—	Halogen Reflector
		45	74205	45R30/H/HIR-TP6	120	6	CC-8	5.37		3000	620	2750			1a,1b, 2a, 2b, 2c, 4f, 7a	Halogen Reflector
		45	74207	45R40/H/HIR-TP6	120	6	CC-8	6.56		3000	620	2750			1a,1b, 2a, 2b, 2c, 4f, 7a	Halogen Reflector
Standard Halogen																
	Med	50	97675	50R16/H/FL-CD1/6	120	6	CC-8	90 mm		2000	470	2750	250			Halogen Reflector
		50	90125	50R16/H/FL/RVL-CD	120	6	CC-8	90 mm		2000	340	2750	160			Reveal® Reflector
	Med	50	97676	50R20/H/FL-CD1/6	120	6	CC-8	90 mm		2250	540	2750	470			Halogen Reflector
		60	85116	60BR30/FL/H-P01/6	120	6	CC-8	5.37		3000	700				1a,1b,2a,2b,2c,4f,7a,10b,10c	Halogen Reflector
	Med	60	85127	60BR30/FL/H-3PK	120	6	CC-8	5.37		3000	700				1a,1b,2a,2b,2c,4f,7a,10b,10c	Halogen Reflector, 3-Pack
		60	85131	60BR40/FL/H-P01/6	120	6	CC-8	6.56		3000	790				1a,1b,2a,2b,2c,4f,7a,10b,10c	Halogen Reflector
A-Line/Decorative																
A-15																
	Med	40	82114	40A15CF/CL/H-CD2	120	6	CC-8	3.50		2250	415	2700			1a,1b,2a,2b,2e,4f,4f,7a,10b,10c	Ceiling Fan, Halogen
		60	82115	60A15CF/CL/H-CD2	120	6	CC-8	3.50		2250	650	2800			1a,1b,2a,2b,2e,4f,4f,7a,10b,10c	Ceiling Fan, Halogen
A-19																
	Med	60	82137	60A/CL/RVL-CD	120	5	CC-8	4.43		3000	675				1a,1b,2a,2b,2c,4f,4f,7a,10b,10c	Reveal® Clear, Halogen, Coded
		60	72373	60A/CR/H/RVL-CD	120	6	CC-8	4.43		3000	800				1a,2a,2b,2c,2e,4f,4f,9a,10b,10c	Reveal® Crystal, Halogen, Coded
		60	71365	60A/H/CR/CD-TP5	120	5	CC-8	4.43		3000	800				1a,2a,2b,2c,4f,4f,9a,10b,10c	Halogen Mirror Top
		60	71366	60A/H/RVL/CR-TP5	120	5	CC-8	4.43		3000	800				1a,2a,2b,2c,4f,4f,9a,10b,10c	Halogen Mirror Top
		75	82138	75A/CL/RVL-CD	120	5	CC-8	4.43		3000	850				1a,1b,2a,2b,2e,4f,4f,7a,10b,10c	Reveal® Clear, Halogen, Coded

Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBPC	Reduced Wattage	Warning and Caution Notices	Additional Information
A-Line/Decorative (continued)																
A-19 (continued)																
	Med	100	82139	100A/CL/H/RL-CD	120	5	CC-8	4.43		3000	1275				1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Reveal® Clear, Halogen, Carded
		100	72374	100ACR/H/RL-CD	120	6	CC-8	4.43		3000	1400				1a.2a.2b.2c.4i.4j.9a.10b.10c	Reveal® Crystal, Halogen, Carded
A-21																
	3C Med	30/70/100	24699	30/100-HALOGEN	120	6	CC-8	5.25		2500	300/1050/1350				1a.2a.2b.2c.4i.4j.9a.10b.10c	3-Way
		50/100/150	81590	50/150-HALOGEN	120	6	CC-8	5.25		2500	700/1600/2300				1a.2a.2b.2c.4i.4j.9a.10b.10c	3-Way
	Med	50/100/150	71367	50/150H/RL-TP6	120	6	CC-8	5.25		2500	5600/1280/1840				1a.2a.2b.2c.4i.4j.9a.10b.10c	3-Way
		150	71364	150A/W/RL/HAL-TP6	120	6	CC-8	5.25		2000	2650				1a.2a.2b.2c.4i.4j.9a.10b.10c	Reader
TB19																
	Med	50/46	16747	50TB/H	130/120	60	CC-8	4.43	3.13	2000/4000	710/540	2800		+	1a.2a.4f.4h.9a.10c	Frost, Thick Glass
		50	20647	50A/HAL 6PK	120	6	CC-8	4.43	3.13	2000	710	2800		+	1a.2a.4f.4h.9a.10c	Frost, Thick Glass
		60	48105	60A/HAL/CD	120	4	CC-8	4.43	2.62	3000	840	2800			1a.2a.4f.4h.9a.10c	Frost, Thick Glass
		60	48106	60A/HAL/CL/CD	120	4	CC-8	4.43	2.62	3000	870	2800			1a.2a.4f.4h.9a.10c	Clear, Thick Glass
		75	48107	75A/HAL/CD	120	4	CC-8	4.43	2.62	3000	1170	2850			1a.2a.4f.4h.9a.10c	Frost, Thick Glass
		90/81	16745	90TB/H	130/120	60	CC-8	4.43	3.13	2000/4000	1580/1220	2930			1a.2a.4f.4h.9a.10c	Frost, Thick Glass
		90	20648	90A/HAL 6PK	120	6	CC-8	4.43	3.13	2000	1580	2930			1a.2a.4f.4h.9a.10c	Frost, Thick Glass
		90	48108	90A/HAL/CD	120	4	CC-8	4.43	2.62	3000	1470	2930			1a.2a.4f.4h.9a.10c	Frost, Thick Glass
		BT1														
	Med	57	72306	57BT1/CL/CD	120	5	C-8	4.75	3.00	3000	760	2800		+	1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Clear, Brass Base, Carded
		57	72307	57BT1/CL/CD/TW	120	5	C-8	4.75	3.00	3000	760	2800		+	1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Clear, Brass Base, Twin Pack, Carded
		57	72308	57BT1/SW/CD	120	5	C-8	4.75	3.00	3000	730	2800		+	1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Carded
		57	72309	57BT1/SW/CD/TW	120	5	C-8	4.75	3.00	3000	730	2800		+	1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Twin Pack, Carded
		60	10036	60BT1/CL/CD	120	5	C-8	4.75	3.00	3000	900	2800			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Clear, Brass Base, Carded
		60	11856	60BT1/CL/CD/TW	120	5	C-8	4.75	3.00	3000	900	2800			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Clear, Brass Base, Twin Pack, Carded
		60	10038	60BT1/SW/CD	120	5	C-8	4.75	3.00	3000	840	2800			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Carded
		60	10039	60BT1/SW/CD/TW	120	5	C-8	4.75	3.00	3000	840	2800			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Twin Pack, Carded
		60	10044	60BT1/POST/CD	120	5	C-8	4.75	3.00	3000	900	2800			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Clear, Brass Base, Carded, Postlamp
		71	72310	71BT1/SW/CD	120	5	C-8	4.75	3.00	3000	1010	2850		+	1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Carded
		75	10040	75BT1/SW/CD	120	5	C-8	4.75	3.00	3000	1070	2850		+	1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Carded
		95	72311	95BT1/SW/CD	120	5	C-8	4.75	3.00	3000	1490	2900		+	1a.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Carded
		95	72662	95BT1/SW/CD/TW	120	5	C-8	4.75	3.00	3000	1490	2900		+	1a.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Twin Pack, Carded
		100	10042	100BT1/SW/CD	120	5	C-8	4.75	3.00	3000	1600	2900			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Carded
		150	10043	150BT1/SW/CD	120	5	C-8	4.75	3.00	3000	2430	2900			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	White, Brass Base, Carded
Traditional Decorative																
CA11	Cand	25	80567	25CAC/H/CD2	120	5	CC-8	3.40		2250	260	2600			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Standard, Chandelier
	Cand	25	16764	25RC/H/CD2	120	5	CC-8	3.40	2.22	2250	280	2700			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Carded Twin Pack, Chandelier
	Med	25	16760	25BM/H/CD2	120	5	CC-8	3.40	2.22	2250	260	2700			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Carded Twin Pack, Chandelier
CA11	Cand	40	80568	40CAC/H/CD2	120	5	CC-8	3.40		2250	460	2700			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Standard Chandelier
	Cand	40	16765	40RC/H/CD2	120	5	CC-8	3.40	2.22	2250	485	2800			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Carded Twin Pack
		40	16761	40BM/H/CD2	120	5	CC-8	3.40	2.22	2250	485	2800			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Carded Twin Pack

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All warning and caution notices found at the end of this section (page 2-17).

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (Hrs)	Initial Lumens	Initial Color Temp	CBPC	Reduced Wattage	Warning and Caution Notices	Additional Information
A-Line/Decorative (continued)																
Traditional Decorative (continued)																
	Med	45	45650	45BM/HAL/PQ1/6	120	6	CC-8	4.63	2.38	3000	600	2750			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Frost, Thick Glass
Flame																
	Med	25	16766	25BFM/H/CD2	120	5	CC-8	3.40	2.22	2250	280	2700			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Carded Twin Pack
		40	16767	40BFM/H/CD2	120	5	CC-8	3.40	2.22	2250	485	2800			1a.1b.2a.2b.2c.4i.4j.9a.10b.10c	Carded Twin Pack
Globe																
	Cand	40	71370	40GC/H/CR/CD2-TP	120	6	CC-8	78mm	52mm	2250	415	2700			1a.1b.2a.2b.2c.4i.4j.7a.9c.10b.10c	Globe, Clear, Mirror Top
	Med	40	71371	40GM/H/CR/CD2-TP	120	6	CC-8	78mm	52mm	2250	415	2700			1a.1b.2a.2b.2c.4i.4j.7a.9c.10b.10c	Clear, Mirror Top Globe
	Med	40	16771	40G25/H/CL	120	6	CC-8	4.45	2.60	2250	510	2700			1a.1b.2a.2b.2c.4i.4j.9c.10b.10c	Reveal®, Halogen Globe
		40	82140	40G25/CL/H/RVL	120	6	CC-8	4.50	2.60	2250	510				1a.1b.2a.2b.2c.4i.4j.9c.10b.10c	Halogen, Clear Globe
		40	16774	40G25/H/CRYSTAL	120	6	CC-8	4.45	2.60	2250	500	2700			1a.1b.2a.2b.2c.4i.4j.9c.10b.10c	Crystal Clear Globe
		40	71373	40G25H/CRY/RV-TP	120	6	CC-8	4.45	2.56	2250	500	2700			1a.1b.2a.2b.2c.4i.4j.7a.9c.10b.10c	Reveal®, Crystal Globe
		40	71368	40G25H/CL/CR-TP	120	6	CC-8	4.45	2.56	2250	520	2700			1a.1b.2a.2b.2c.4i.4j.7a.9c.10b.10c	Clear, Mirror Top Globe
		40	71369	40G25H/RV/CR-TP	120	6	CC-8	4.45	2.56	2250	390	2650			1a.1b.2a.2b.2c.4i.4j.7a.9c.10b.10c	Reveal®, Mirror Top Globe
		60	16773	60G25/H/CL	120	6	CC-8	4.45	2.60	2250	1000	2900			1a.1b.2a.2b.2c.4i.4j.9c.10b.10c	Clear, Halogen Globe
		60	82141	60G25/CL/H/RVL	120	6	CC-8	4.50	2.60	2250	510				1a.1b.2a.2b.2c.4i.4j.9c.10b.10c	Reveal®, Halogen Globe
		60	16775	60G25/H/CRYSTAL	120	6	CC-8	4.45	2.60	2250	960	2900			1a.1b.2a.2b.2c.4i.4j.9c.10b.10c	Crystal Globe
		60	71374	60G25H/CRY/RV-TP	120	6	CC-8	4.45	2.56	2250	750	2800			1a.1b.2a.2b.2c.4i.4j.7a.9c.10b.10c	Reveal®, Crystal Globe
		60	90750	60G25H/CL/CR-TP	120	6	CC-8	4.45	2.56	2250	1000	2900			1a.1b.2a.2b.2c.4i.4j.7a.9c.10b.10c	Clear, Mirror Top Globe
		60	90751	60G25H/RV/CR-TP	120	6	CC-8	4.45	2.56	2250	750	2800			1a.1b.2a.2b.2c.4i.4j.7a.9c.10b.10c	Reveal®, Globe, Mirror Top
T-Shape																
	Med	40	16777	40T10/H/CD	120	4	CC-8	5.04	2.56	2250	510	2700			1a.1b.2a.2b.2c.4i.4j.9c.10b.10c	Carded
		60	16778	60T10/H/CD	120	4	CC-8	5.04	2.56	2250	800	2900			1a.1b.2a.2b.2c.4i.4j.9c.10b.10c	Carded
Landscape Lighting																
MR16	2-Pin GX5-3	20	71485	Q20MR16/LAND-CD	12	3	C-6	1.88		2000		2900	450			Outdoor Floodlight
		35	71486	Q35MR16/LAND-CD	12	3	C-6	1.88		2000	875	2900	840			Outdoor Floodlight
T3	2-Pin G4	10	71494	Q10T3/LAND-CD2	12	25	C-8	1.25	0.75	2000	140	2850				Outdoor
		20	71495	Q20T3/LAND-CD2	12	25	C-8	1.25	0.75	2000	320	2950				Outdoor
	2-Pin G16.35	50	71496	Q50T3/LAND-CD2	12	25	C-8	1.75	1.13	3000	900	2950				Outdoor
PAR36	PAR36	25	71498	25PAR36/LAND	12	6	C-6	2.75		2000		3000				Outdoor
	PAR36	20	71499	20PAR36/L/LAND	12	6	C-6	2.75		5000		3000				Outdoor
AR70																
AR70	DC Bay Ba15d	50	72255	50AR70/SP8	12	10	C-8	2.64		3000		2800	12500		2e.4a.4e.4f.9a.9d.10b.10c	Spotlight
AR111																
	G53	35	72253	35AR111/SP4	12	10	C-8	2.64		3000		2800	22000		2a.4a.4e.4f.9a.9d.10b.10c	Narrow Spotlight
		35	97532	35AR111/SP8	12	10	C-8	2.64		3000		2800	14000		2a.2j.4a.4e.4f.9a.9d.10b.10c	Spotlight
		35	97533	35AR111/FL24	12	10	C-8	2.64		3000		2800	25000		2a.2j.4a.4e.4f.9a.9d.10b.10c	Narrow Floodlight
		50	72254	50AR111/FL24	12	10	C-8	2.64		3000		2850	25000		2a.4a.4e.4f.9a.9d.10b.10c	Narrow Spotlight
		50	97534	50AR111/SP8	12	10	C-8	2.64		3000		2800	17800		2a.2j.4a.4e.4f.9a.9d.10b.10c	Spotlight
		50	97535	50AR111/FL24	12	10	C-8	2.64		3000		2800	3500		2a.2j.4a.4e.4f.9a.9d.10b.10c	Narrow Floodlight
		75	97536	75AR111/SP8	12	10	C-8	2.64		3000		2900	23500		2a.2j.4a.4e.4f.9a.9d.10b.10c	Spotlight

Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
AR111 (continued)																
	G53	75	97537	75AR111/FL24	12	10	C-8	2.64		3000		2900	5300		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Narrow Floodlight
		75	97538	75AR111/FL45	12	10	C-8	2.64		3000		2900	1700		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Wide Floodlight
		100	97539	100AR111/SP8	12	10	C-8	2.64		3000		2950	40000		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spotlight
		100	97540	100AR111/FL24	12	10	C-8	2.64		3000		2950	8000		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Narrow Floodlight
		100	97541	100AR111/FL45	12	10	C-8	2.64		3000		2950	2300		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Wide Floodlight
MR																
Turn & Lock ConstantColor®																
	TAL GU7	35	81282	35MR16/6/TL-AX	12	10	C-8	1.88		3500	475	3200	8500			
		35	30932	35MR16/Q/R/TL	12	10	C-6	2.00		3500		2900	8100		2a,2b,4f,7a,9a,10b,10c	Narrow Spot
		50	30901	50MR16/Q/10/TL	12	10	C-6	2.00		3500		3000	108000		2a,2b,4f,7a,9a,10b,10c	Narrow Spot
		50	30900	50MR16/Q/20/TL	12	10	C-6	2.00		3500		3000	3330		2a,2b,4f,7a,9a,10b,10c	Narrow Flood
		50	30899	50MR16/Q/40/TL	12	10	C-6	2.00		3500		3000	1395		2a,2b,4f,7a,9a,10b,10c	Floodlight
ConstantColor® Precise® Cover Glass MR16																
	2-Pin GU5.3	20	20858	Q20MR16/CG1SE5X	12	20	C-6	1.88		5000		2900	3150		2a,2b,4f,9a,10c	Narrow Spot, ANSI: ESX
		20	20857	Q20MR16/CG40B8B	12	20	C-6	1.88		5000		2900	475		2a,2b,4f,9a,10c	Flood, ANSI: BAB
		35	20864	Q35MR16/CG12	12	20	C-6	1.88		5000		3000	7500		2a,2b,4f,9a,10c	Narrow Spot, ANSI: FRB
		35	20860	Q35MR16/CG20	12	20	C-6	1.88		5000		3000	3200		2a,2b,4f,9a,10c	Spot, ANSI: FRA
		35	20859	Q35MR16/CG40	12	20	C-6	1.88		5000		3000	9000		2a,2b,4f,9a,10c	Flood, ANSI: FMW
		35	41487	Q35MR16/CCG40	24	20	CC-6	1.88		4000		2950	920		2a,2b,4f,9a,10c	Floodlight
		50	20872	Q50MR16/CG15	12	20	C-6	1.88		6000		3050	8400		2a,2b,4f,9a,10c	Narrow Spot, ANSI: EXT
		50	20871	Q50MR16/CG25	12	20	C-6	1.88		6000		3050	29000		2a,2b,4f,9a,10c	Narrow Spot, ANSI: EXZ
		50	20867	Q50MR16/CG40	12	20	C-6	1.88		6000		3050	1500		2a,2b,4f,9a,10c	Flood, ANSI: EXN
		50	20865	Q50MR16/CG55	12	20	C-6	1.88		6000		3050	850		2a,2b,4f,9a,10c	Wide Flood, ANSI: FNV
		50	41488	Q50MR16/CCG15	24	20	CC-6	1.88		4000		2950	8400		2a,2b,4f,9a,10c	Narrow Spot
		50	41489	Q50MR16/CCG40	24	20	CC-6	1.88		4000		2950	1570		2a,2b,4f,9a,10c	Floodlight
		71	20876	Q71MR16/CG15	12	20	C-6	1.88		4000		3050	108000		2a,2b,4f,9a,10c	Narrow Spot, ANSI: EYF
		71	20874	Q71MR16/CG25	12	20	C-6	1.88		4000		3050	4550		2a,2b,4f,9a,10c	Narrow Spot, ANSI: EYJ
		71	20873	Q71MR16/CG40	12	20	C-6	1.88		4000		3050	2000		2a,2b,4f,9a,10c	Flood, ANSI: EYV
ConstantColor® Precise® MR16																
	2-Pin GX5.3	20	20816	Q20MR16/C/VNSP7	12	20	CC-6	1.88		3000		2900	7400		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Very Narrow Spot, ANSI: EZK
		20	20815	Q20MR16/C/NSP15	12	20	C-6	1.88		5000		2900	3750		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Narrow Spot, ANSI: ESX
		20	20814	Q20MR16/CF140	12	20	C-6	1.88		5000		2900	525		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, ANSI: BAB
		35	20826	Q35MR16/C/SP20	12	20	C-6	1.88		5000		3000	39000		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spot, ANSI: FRA
		35	20825	Q35MR16/C/FL40	12	20	C-6	1.88		5000		3000	1000		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, ANSI: FMW
		42	20830	Q42MR16/C/VNSP9	12	20	CC-6	1.88		3500		3000	12300		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Very Narrow Spot, ANSI: EYZ
		50	20839	Q50MR16/C/NSP15	12	20	C-6	1.88		6000		3050	9100		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Narrow Spot, ANSI: EXT
		50	20835	Q50MR16/C/NFL25	12	20	C-6	1.88		6000		3050	3200		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Narrow Flood, ANSI: EXZ
		50	20834	Q50MR16/C/NFL30	12	20	C-6	1.88		6000		3050	2500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Narrow Flood, ANSI: EXK
		50	20833	Q50MR16/C/FL40	12	20	C-6	1.88		6000		3050	17000		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, ANSI: EXN
		50	20832	Q50MR16/C/WFL55	12	20	C-6	1.88		6000		3050	9000		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Wide Flood, ANSI: FNV
		71	20843	Q71MR16/C/NSP15	12	20	C-6	1.88		4000		3050	11500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Narrow Spot, ANSI: EYF
		71	20841	Q71MR16/C/NFL25	12	20	C-6	1.88		4000		3050	5500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Narrow Flood, ANSI: EYJ
		71	20840	Q71MR16/C/FL40	12	20	C-6	1.88		4000		3050	2200		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, ANSI: EYV
Precise® Cover Glass IR MR16																
	2-Pin GU5.3	20	28709	Q20MR16/HR/CG10	12	20	C-8	1.88		5000		3000	6000		2a,2b,4f,9a,10c	Narrow Spot
		20	28710	Q20MR16/HR/CG25	12	20	C-8	1.88		5000		3000	2300		2a,2b,4f,9a,10c	Narrow Flood
		20	28718	Q20MR16/HR/CG35	12	20	C-8	1.88		5000		3000	1000		2a,2b,4f,9a,10c	Flood
		37	16715	Q17MR16/HR/CG10	12	20	C-8	1.80		5000		3000	12500		2a,2b,4f,9a,10c	Narrow Spot
		37	16716	Q17MR16/HR/CG25	12	20	C-8	1.80		5000		3000	4400		2a,2b,4f,9a,10c	Narrow Flood
		37	16717	Q17MR16/HR/CG40	12	20	C-8	1.80		5000		3000	2050		2a,2b,4f,9a,10c	Flood
		50	16718	Q50MR16/HR/CG10	12	20	C-8	1.80		5000		3000	15000		2a,2b,4f,9a,10c	Narrow Spot
		50	16719	Q50MR16/HR/CG25	12	20	C-8	1.80		5000		3000	57000		2a,2b,4f,9a,10c	Narrow Flood

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All warning and caution notices found at the end of this section (page 2-17).

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information	
MR (continued)																	
Precise® Cover Glass IR MR16 (continued)																	
MR16	2-Pin GX5.3	50	16720	Q50MR16/HR/CG40	12	20	C-8	1.80		5000		3000	26000		2a,2b,4f,9a,10c	Flood	
Standard MR16																	
	2-Pin GX5.3	20	25481	Q20MR16/SP	12	20	C-6	1.88		2000		2900	3500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spot, ANSI: ESX	
		20	25480	Q20MR16/FL	12	20	C-6	1.88		2000		2900	500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, ANSI: BAB	
		20	85290	Q20MR16/SP-PQ3/6	12	6	C-6	1.88		2000		2900	3500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spotlight, ANSI: ESX	
		20	85289	Q20MR16/FL-PQ3/6	12	6	C-6	1.88		2000		2900	500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Floodlight, ANSI: BAB	
		50	25483	Q50MR16/SP	12	20	C-6	1.88		2000		2900	9500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spot, ANSI: EXT	
		50	25482	Q50MR16/FL	12	20	C-6	1.88		2000		2900	1500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, ANSI: EXN	
		50	85296	Q50MR16/FL-PQ3/6	12	6	C-6	1.88		2000		2900	9500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, ANSI: EXN	
		50	85297	Q50MR16/SP-PQ3/6	12	6	C-6	1.88		2000		2900	1500		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spot, ANSI: EXT	
Standard MR16 Cover Glass																	
	2-Pin GX5.3	20	81763	Q20MR16/CGFLCD-BA	12	6	C-6	1.88		2000	500	2900	450		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, Basic	
		20	81765	Q20MR16/CGSPCD-BA	12	6	C-6	1.88		2000	3500	2900	3150		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spot, Basic	
		35	81768	Q35MR16/CGFLCD-BA	12	6	C-6	1.88		2000	875	2900	840		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, Basic	
		35	81769	Q35MR16/CGSPCD-BA	12	6	C-6	1.88		2000	6125	2900	6750		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spot, Basic	
		50	81770	Q50MR16/CGFLCD-BA	12	6	C-6	1.88		2000	1250	2900	1350		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Flood, Basic	
		50	81771	Q50MR16/CGSPCD-BA	12	6	C-6	1.88		2000	8750	2900	8550		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Spot, Basic	
	2-Pin GX5.3	50	82110	Q50MR16/FCGGRV-CD	12	6	C-6	1.88		3000		2950	1750		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Reveal®, Spotlight, Corded	
		50	82111	Q50MR16/SCGGRV-CD	12	6	C-6	1.88		3000		2950	9000		2a,2j,4a,4c,4e,4f,9a,9d,10b,10c	Reveal®, Floodlight, Corded	
Standard MR11																	
	2-Pin G4	20	30754	Q20MR11/SP1SFTC	12	10	C-6	1.38		3500		2900	1760		2a,2b,4c,4e,4f,9a,9d,10b,10c,11a	Spot, ANSI: FTC	
		20	30773	Q20MR11/NFL30	12	10	C-6	1.38		3500		2900	600		2a,2b,4c,4e,4f,9a,9d,10b,10c,11a	Narrow Flood, ANSI: FTD	
		35	30774	Q35MR11/SP20FTF	12	10	C-6	1.38		3500		2900	3000		2a,2b,4c,4e,4f,9a,9d,10b,10c,11a	Spot, ANSI: FTF	
		35	30890	Q35MR11/NFL30FTH	12	10	C-6	1.38		3500		2900	1300		2a,2b,4c,4e,4f,9a,9d,10b,10c,11a	Narrow Flood, ANSI: FTH	
		35	41483	Q35MR11/CG12 24	24	50	C-6	1.38		2000		2950	4100		2a,2b,4c,4e,4f,9a,9d,10b,10c,11a	Spot	
		35	41484	Q35MR11/CG30 24	24	50	C-6	1.38		2000		2950	1300		2a,2b,4c,4e,4f,9a,9d,10b,10c,11a	Narrow Flood	
		35	71372	Q35MR11/FC/CG/RV-CD	12	6	C-6	1.38		2250		2900	1170		2a,2b,4c,4e,4f,9a,9d,10b,10c,11a	Floodlight	
		120V GU10															
	GU10	20	16753	Q20GU10/FL/CD	120	5	CC-2V	2.13		2000		2600	230		1a,2a,2b,2e,4f,4i,9a,10b,10c	Flood Corded	
		35	16752	Q35GU10/FL/CD	120	5	CC-2V	2.13		3000		2650	500		1a,2a,2b,2e,4f,4i,9a,10b,10c	Flood Corded	
		50	16751	Q50GU10/FL/CD	120	5	CC-2V	2.13		3000		2750	1000		1a,2a,2b,2e,4f,4i,9a,10b,10c	Flood Corded	
		50	82145	Q50GU10/FL/RVL-CD	120	6	CC-2V	2.13		3000		400	2750		1a,2b,2e,2f,4e,4i,9a,10b,10c	Reveal®, Floodlight, Corded	
Quartz Halogen																	
Low Voltage																	
	2-Pin G4	5	42959	Q5T3/CL	12	100	C-6	1.25 cm	0.75	2000	60				2a,2j,4c,4e,4f,9a,9d,10b,10c	Clear	
		10	34674	Q10T3/CL	12	100	C-6	1.25 cm	0.75	2000	140					2a,2j,4c,4e,4f,9a,9d,10b,10c	Clear
		10	97668	Q10T3/CL/SCD-5PK	12	100	C-6	1.25 cm	0.75	2000	140					2a,2j,4c,4e,4f,9a,9d,10b,10c	Display lights, Small Card
		20	34715	Q20T2 5/12V/CL	12	100	C-6	1.25 cm	0.75	2000	350						Clear, 12V
		20	97669	Q20T3/CL/SCD-5PK	12	25	C-6	1.25 cm	0.75	2000	350					2a,2j,4c,4e,4f,9a,9d,10b,10c	Display lights, Small Card
	2-Pin GY6.35	35	34708	Q35T3/12V/CL	12	100	C-6	1.75 cm		2000	550				2a,2j,4c,4e,4f,9a,9d,10b,10c	Clear, 12V	
		35	48503	Q35T3/CL/CD 5PK	12	25	C-6	1.75 cm		2000	550				2a,2j,4c,4e,4f,9a,9d,10b,10c	Clear Corded	
		50	34702	Q50T3/12V/CL	12	100	C-6	1.75 cm		2000	850				2a,2j,4c,4e,4f,9a,9d,10b,10c	Clear, 12V	

Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Quartz Halogen (continued)																
Low Voltage (continued)																
	2-Pin GY6.35	50	97670	Q50T3/CL/SCD-SPK	12	25	C-6	1.75 cm	1.13	2000	950				2a.2j.4c.4e.4f.9a.9d.10b.10c	Display lights
		75	19377	Q75T4/CL/CD SPK	12	25	C-6	1.75 cm	1.13	2000	1400				2a.2j.4c.4e.4f.9a.9d.10b.10c	Clear, Corded
	2-Pin GY6.35	100	34676	Q100T3/12V/CL	12	100	CC-6	1.75 cm		2000	2350				2a.2j.4c.4e.4f.9a.9d.10b.10c	Clear, 12V
		100	34663	Q100T3/24V/CL	24	100	CC-6	1.75		2000	2000				2a.2j.4c.4e.4f.9a.9d.10b.10c	Clear, 24V
High Voltage																
	2-Pin G8	25	97664	Q25G8/SCD2	120	5	CC-2V	1.59	1.04	1500	240	2600			1a.2a.2b.2c.4f.4i.9a.10b.10c	Small Card, Twin Pack
		50	21941	Q50G8/CD	120	5	CC-2V	1.77	1.33	1300	700	2750			1a.2a.2b.2c.4f.4i.9a.10b.10c	Corded
		50	97665	Q50G8/SCD	120	5	CC-2V	1.77	1.33	1300	700	2750			1a.2a.2b.2c.4f.4i.9a.10b.10c	Small Card
		50	72868	Q50G8/SCD2-PKS	120	5	CC-2V	1.77	1.33	1300	700	2750			1a.2a.2b.2c.4f.4i.9a.10b.10c	Small Card, Twin Pack
		75	97666	Q75G8/SCD	120	5	CC-2V	1.77	1.34	1500	900	2850			1a.2a.2b.2c.4f.4i.9a.10b.10c	Small Card
		75	72869	Q75G8/SCD2-PKS	120	5	CC-2V	1.77	1.34	1500	900	2850			1a.2a.2b.2c.4f.4i.9a.10b.10c	Small Card, Twin Pack
		100	97667	Q100G8/SCD	120	5	CC-2V	1.77	1.34	1500	1300	2900			1a.2a.2b.2c.4f.4i.9a.10b.10c	Small Card
		100	72870	Q100G8/SCD2-PKS	120	5	CC-2V	1.77	1.34	1500	1300	2900			1a.2a.2b.2c.4f.4i.9a.10b.10c	Small Card, Twin Pack
Quartzline®																
HIR® Recessed Single Contact (R7s)																
	R7s	350	13894	Q350T3/CL/HIR	120	6	C-8	4.69	2.25	2000	10000	3075		+	1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	IR, Clear, Horizontal
		350	14311	Q350T3/CL/HIR	130/120	6	C-8	4.69	2.25	2000	9600	3000		-	1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	IR, Clear, Horizontal
		900	13642	Q900T3/CL/HIR	240	6	C-8	10.06	6.13	2000	32000	3160		+	1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	IR, Clear, Horizontal
		900	14335	Q900T3/CL/HIR	277	6	C-8	10.06	6.13	2000	31000	3160		-	1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	IR, Clear, Horizontal, Halogen
Halogen G9																
	G9	25	16754	Q25G9/CD	120	5	CC-8	1.77	1.26	3000	240	6250			1a.2a.2b.2c.4f.4i.9a.10b.10c	Corded
		40	16755	Q40G9/CD	120	5	CC-8	1.77	1.26	3000	480	2750			1a.2a.2b.2c.4f.4i.9a.10b.10c	Corded
		60	16756	Q60G9/CD	120	5	CC-8	1.77	1.26	3000	780	2800			1a.2a.2b.2c.4f.4i.9a.10b.10c	Corded
		75	16759	Q75G9/CD	120	5	CC-8	1.77	1.26	3000	1100	2850			1a.2a.2b.2c.4f.4i.9a.10b.10c	Corded
Halogen Double Contact Bayonet (BA15d)																
	D C Bay BA15d	100	16451	Q100DC	120	6	CC-8	2.44	1.38	2000	1,550.00	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Frosted
		100	15508	Q100CL/DC	120	6	CC-8	2.44	1.38	2000	1600	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Clear
		100	44386	Q100CL/DC/2V	120	6	CC-2V	2.44	1.38	750 h	1800	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Clear
		150	44653	Q150DC	120	6	CC-8	2.50	1.38	2000	2700	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Frosted
		150	43693	Q150CL/DC	120	6	CC-8	2.50	1.38	2000	2800	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Clear
		150	44384	Q150CL/DC/2V	120	6	CC-2V	2.44	1.38	1000	2800	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Clear
		250	43701	Q250DC	120	6	CC-8	3.00	1.63	2000	4,850.00	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Frosted
		250	43702	Q250DC	130/120	6	CC-8	3.00	1.63	2000	4,850.00	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Frosted
		250	43697	Q250CL/DC	120	6	CC-8	3.00	1.63	2000	5,000.00	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Clear
		250	43698	Q250CL/DC	130/120	6	CC-8	3.00	1.63	2000	5,000.00	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Clear
		500	43709	Q500DC	120	6	CC-8	3.44	2.13	2000	10,100.00	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Frosted
		500	43710	Q500CL/DC	120	6	CC-8	3.44	2.13	2000	10,450.00	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Clear

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All warning and caution notices found at the end of this section (page 2-17).

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information	
Quartz Halogen (continued)																	
Halogen Recessed Single Contact (R7s)																	
	R7s	100	73286	Q100T3/SCD-SPK	210	5	C-8	3.13	1.25	1500	1650	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.11a	Torchiere, Motion-Sensing and Security, Small Card	
		100	22489	Q100T3/CL/CD SPK	210	60	C-8	3.13	1.25	1500	1650	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal, Corded	
		150	27449	Q150T3/117/CL/CD	120	60	C-8	4.69	2.25	1500	2400	2950			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal, Corded	
		150	19378	Q150T3/CL/CD SPK	120	60	C-8	3.13	1.25	1500	2400	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal, Corded	
		150	97672	Q150T3/HO/SCD2	120	25	C-8	3.13	1.25	2000	2400	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.11a	Torchiere, Motion-Sensing and Security, Small Card	
		R7s	250	22865	Q250T3/CL-6PK	120	144	C-8	3.13	1.25	1500	4000	2950			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal
		250	22121	Q250T3/CL/CD SPK	120	60	C-8	3.13	1.13	1500	4000	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Corded	
		300	43703	Q300T3/CL-6PK	120	144	C-8	4.69	2.25	2000	5950	2950			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal	
		300	19379	Q300T3/CL/CD SPK	120	60	C-8	4.69	2.25	2000	5950	2950			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal, Corded	
		300	27447	Q300T3/CL/CD2-SPK	120	60	C-8	4.69	2.25	2000	5950	2950			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal, Corded	
	R7s	300	97673	Q300T3/HO/SCD2	120	25	C-8	4.69	2.25	2000	5950	2950			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Torchiere, Small Card, Twin Pack	
		500	23731	Q500T3/CL	120	12	C-8	4.69	2.25	2000	11100	3000			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal	
		500	23733	Q500T3/CL	130/120	12	C-8	4.69	2.25	2000	10550	3000			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal	
		500	23744	Q500T3/CL/6-12PK	120	144	C-8	4.69	2.25	1500	10950	3000			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, 6 Filament Support, Rough Service, Horizontal	
		500	19382	Q500T3/CL/CD SPK	120	60	C-8	4.69	2.25	2000	11100	3000			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal, Corded	
		500	27448	Q500T3/CL/CD2-SPK	120	60	C-8	4.69	2.25	2000	11100	3000			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Clear, Horizontal, Corded	
		500	97674	Q500T3/HO/SCD2	120	25	C-8	4.69	2.25	2000	11100	2950			1a.2a.2j.4a.4c.4d.4e.4f.4g.9a.9d.10b.10c.11a	Special service, Motion-Sensing and Security, Small Card, Twin Pack	
		1000	43711	Q1000T3/CL-6PK	230	144	C-8	10.06	6.13	2000	21500	3050			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Horizontal	
		1000	43712	Q1000T3/CL-6PK	240	144	C-8	10.06	6.44	2000	21500	3050			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Horizontal	
		1500	23828	Q1500T3/CL-12PK	208	144	C-8	10.06 cm	6.25 cm	2000	33000	3050			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Horizontal	
	R7s	1500	23826	Q1500T3/CL-12PK	220	144	C-8	10.06	6.18	2000	35800	3050			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Horizontal	
		1500	23830	Q1500T3/CL	240	12	C-8	10.06 cm	6.31 cm	2000	32000	3050			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Horizontal	
		1500	23832	Q1500T3/CL	277	12	C-8	10.06	6.25	2000	34400	3050			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Horizontal	
		1500	23832	Q1500T3/CL	277	12	C-8	10.06	6.25	2000	34400	3050			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Horizontal	
		1500	23832	Q1500T3/CL	277	12	C-8	10.06	6.25	2000	34400	3050			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Horizontal	
	R7s	150	23710	Q150T4/CL	25	12	CC-8	2.56		3000	2760	2850			2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.11a	Clear, Dental Spotlight	
		R7s	300	43705	Q300T4/CL	120	12	CC-8	3.13	2.25	2000	5650	2900			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.11a	Clear
Halogen Miniature Candelabra Screw (E11)																	
	Mini-Cand	100	16452	Q100MC	120	6	CC-8	2.81	1.38	2000	1550	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.12e	Frosted	
		100	15507	Q100CL/MC	120	6	CC-8	2.81	1.38	2000	1600	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.12e	Clear	
		100	44385	Q100CL/MC/2V	120	6	CC-2V	2.81	1.38	750 H	1800	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.12e	Clear	
		100	19383	Q100CL/MC/CD SPK	120	25	CC-8	2.81	1.38	2000	1600	2950			1a.2a.2j.4a.4c.4e.4f.4g.9a.9d.10b.10c.12e	Clear, Corded	
	Mini-Cand	75	12715	Q75CL/MC/CD	120	25	CC-8	2.50	1.25	1000	1050	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Clear, Corded	
		150	44654	Q150MC	120	6	CC-8	3.00	1.38	2000	2700	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Frosted	
	Mini-Cand	150	43694	Q150CL/MC	120	6	CC-8	3.00	1.38	2000	2800	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Clear	

Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Quartz Halogen (continued)																
Halogen Miniature Candelabra Screw (E11) (continued)																
	Mini-Cand	150	19386	Q150CL/MC/CD 5PK	120	25	CC-8	3.00	1.38	2000	2800	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Clear, Corded
		250	43695	Q250MC	120	6	CC-8	3.16	1.63	2000	4850	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Frosted
		250	43696	Q250MC	130/120	6	CC-8	3.16	1.63	2000	4850	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Frosted
		250	43699	Q250CL/MC	120	6	CC-8	3.16	1.63	2000	5000	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Clear
		250	43700	Q250CL/MC	130/120	6	CC-8	3.16	1.63	2000	5000	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Clear
		250	19387	Q250CL/MC/CD 5PK	120	25	CC-8	3.16	1.63	2000	5000	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Clear, Corded
		400	43706	Q400MC	120	6	CC-8	3.62	2.00	2000	7850	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Frosted
		400	43707	Q400CL/MC	120	6	CC-8	3.62	2.00	2000	8250	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Clear
		500	47950	Q500CL/MC (EVRI)	120	6	CC-8	3.62	2.00	2000	10450	2950			1a.2a.2j.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c.12e	Stage and Studio
Other																
	DC PreFoc	45	14473	Q45T4/CL/DCR	6.6A	12	C-6	2.60	1.06	500	845	2850			1a.2a.2j.2k.4a.4c.4e.4f.4g.8a.9a.9d.10b.10c	Airport and Airfield
		45	41541	Q45T4/CL	45	12	C-6	2.50	1.06	500	835	3100			2a.2j.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12c	Clear, Airport, Base Down
		200	40702	Q200T4/CL	200	12	CC-6	2.50	1.53	500	4500	3100			2a.2j.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c	Clear, Airport, Base Down
	2-Pin GY9.5	235	11548	Q235T4/3	33	12	CC-6	2.63	1.53	150	6000	3125			2a.2j.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12c	Frosted, Instrument, Prefocus
	1" Ribbon Leads	500	39071	Q500T8/1CL	500	20	CC-8	4.25	2.50	500	13400	3200			1a.2a.2j.2k.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12b	Clear, Airport, Special Bulb
Airport																
	Bi-Pin Special	45	23847	Q6.6A/2.5/1/1CL	6.6A	12	C-8	1.75		1000	710				2a.2j.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c	Clear, Airport
	1" Ribbon Leads	200	23857	Q6.6A/4/SCL	6.6A	12	CC-8	3.00		500	5000				2a.2j.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c	Clear, Airport
	D C Bay BA15d	200	23860	Q6.6A/4/DCR	6.6A	12	CC-6	2.50	1.06	500	5150				2a.2j.4a.4c.4d.4e.4f.4g.8a.9a.9d.10b.10c.12e	Clear, Airport, Ringed
	Mag End Pr GX16d	200	18309	Q6.6A/PAR56/4	6.6A	12	CC-6	5.00		600					2a.2j.4b.4c.4d.4e.4f.4g.7a.9b.10c	PAR, Airport, Prismatic Lens, BOTH
Tubular Quartz Heat																
Sleeve																
	Sleeve	300	39019	QH300T3/CL	120	12	C-8	8.50	4.19	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear
		375	21337	QH375T3/CL	120	12	C-8	8.80	5.06	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear
		500	21788	QH500T3/CL	120	12	C-8	8.80	4.81	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear
		1000	22355	QH1000T3/CL	210	12	C-8	13.80	10.00	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear
Recessed Single Contact (R7s)																
	Sleeve	1000	22357	QH1000T3/CL	240	12	C-8	13.81	10.00	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared
		1000	22358	QH1000T3/CL/1	240	12	C-8	11.90	10.00	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Horizontal
		1000	22365	QH1000T3/2CL/HT	240	12	C-8	13.80	10.00	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, High Temp, Construction, Horizontal
		1200	22531	QH1200T3/CL	144	12	C-8	8.80	6.13	5000		2450			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Horizontal
		1200	22532	QH1200T3/CL/HT	144	12	C-8	8.80	6.13	5000		2450			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, High Temp, Construction, Horizontal

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Tubular Quartz Heat (continued)																
Recessed Single Contact (R7s) (continued)																
	Sleeve	1600	22686	QH1600T3/CL	210	12	C-8	19.80	15.88	5000		2350			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Horizontal
		1600	22688	QH1600T3/CL	240	12	C-8	19.80	15.88	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Horizontal
		1600	22695	QH1600T3/CL	277	12	C-8	19.80	15.88	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Horizontal
		2500	22838	QH2500T3/CL	480	12	C-8	28.80	24.88	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Horizontal
		3800	22875	QH3800T3/CL	575	6	C-8	41.80	38.00	5000		2500			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Horizontal
		3800	22878	QH3800T3/CL/V8	575	6	C-8	41.80	38.00	5000		2500			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Universal
		6600	13511	QH6600T3/CL/HT	480	12	C-8	11.90	9.75	150					1a.2a.2b.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Horizontal, High Temp
		T3	R7s	375	38893	QH375T3/CL/7	120	12	C-8	8.80	5.06	5000		2400		
	R7s	500	21787	QH500T3/CL/7	120	12	C-8	8.80	4.81	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear
		1600	22691	QH1600T3/CL/7	240	12	C-8	19.80	15.88	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Horizontal
		1600	22699	QH1600T3/CL/7	210	12	C-8	19.80	15.88	5000		2350			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Horizontal
		2500	22837	QH2500T3/CL/7	460	12	C-8	28.80	24.88	5000		2400			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Horizontal
		T3	R7s	3650	10872	QH3650T3/CL/5	480	6	C-8	41.63	38.00	5000		2500		
Other																
	Ceramic Sleeve	2000	12716	QH2MT3/CL/HT/R	230	12	C-8	13.00	11.00	5000		2450			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, High Temp, Horizontal, Reflector 170°
	Sleeve	2000	15551	QH2MT3/1CL/HT/V8	240	12	C-8	11.90	9.60	500		2450			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, High Temp, Construction, Universal
	Wire Lead	2000	18668	QH2MT3/CL/V8	230	12	C-8	13.80	11.00	5000		2450			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, Universal
	Sleeve	2000	22790	QH2M/T3/CL/HT	225	12	C-8	18.80	10.00	5000		2450			1a.2a.2b.3a.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, High Temp, Construction, Horizontal
	Wire Lead	6000	23843	QH6MT3/CL/HT	480	12	C-8	11.90	9.70	100		3250			1a.2a.2b.4c.4d.4e.4f.4g.9a.9d.10b.10c.12b.12e	Infrared, Clear, High Temp, Horizontal

Halogen Lamps

General Information

Halogen Lamp Operating Precautions

The lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (lumens per watt). Some general cautions are given below.

High Operating Temperatures

Since operating temperatures are critical to the effective self-cleaning properties of halogen lamps, filament tube wall temperatures should not go below 482°F (250°C). Hot spots on the bulb wall itself can go as high as 1230°F (700°C) in normal operation. Substantial heat is generated in all halogen lamps, so equipment design should make allowance for the dissipation of excessive heat. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and to prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors and lamp housings because the 1230°F (700°C) bulb wall temperature is greater than the kindling temperature of many materials. Lamp base temperatures should not exceed 662°F (350°C) because, above that point, lead wires may deteriorate and the basing cement loosen, causing premature lamp failure.

Distribution of Spectral Radiation

Halogen lamps offer large amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some halogen lamps can be used for special applications where small amounts of ultraviolet energy are required. The slight

ultraviolet radiation that comes from unprotected sources could cause skin and eye irritation following extended direct exposure. Passing the light through ordinary glass or plastic provides adequate protection. The lenses of the PAR, TAL or Cover Glass Precise™ lamps provide this protection.

Quartz Heat Lamps

GE standard quartz heat products are primarily pressurized halogen lamps. Many standard tungsten coil filaments have been converted to a deflection coil winding design that eliminates the need for filament supports through an integral coil/support construction. These changes will improve lamp life as well as keep the bulb wall cleaner during operation and throughout the life of the lamp.

In general, halogen lamps are more efficient than ordinary incandescent lamps. HIR™ lamps are the most efficient halogen lamps we offer. For each application, check life, lumens, wattage, beam spread and lamp dimensions to determine proper bulb selection.

GE has added a reflectorized heat lamp with a patented design that directs the infrared to a surface rather than in 360° angle.

Halogen Caution Notice – General

Halogen lamps are constructed of a glass bulb with a pressurized internal filament tube that operates at high temperatures and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture enclosure and/or surrounding environment, thereby creating a risk of personal injury or fire.

Halogen A-Line (TB/H)

Caution: Cracked or broken bulbs that still light should be replaced immediately. The inner tube of the GE Halogen lamp is pressurized, operates at high temperature and could unexpectedly shatter with the possibility of property damage or personal injury. Avoid use in unstable table lamps, dispose of with care. To avoid burns, electricity should be switched off and the lamp allowed to cool for several minutes before removing from socket. Use outdoors only in enclosed fixtures or where protected from exposure to water.

Operating Notes – Low Voltage Lamps

Low voltage tungsten-halogen lamps are sensitive to voltage variations. Even a small change in voltage can have a considerable impact on lamp life. Designers should match fixture transformer ratings to actual line voltages to ensure that the lamps operate at as close to 12 volts as possible.

Rapid cycling can also shorten lamp life, and designers should take advice from their GE Lighting representative before using these lamps in flashing or blinking applications.

The lamps may be dimmed by reducing voltage. However, this may cause the bulbs to blacken. If this occurs the lamp should be run at full voltage for fifteen minutes, thereby clearing the problem. Note that the nature of low voltage lighting systems requires the use of fluorescent-type dimmers. Lamp can be operated on AC or DC currents.

Warning and Caution Notices

1	⚠ WARNING Risk of electric shock a. Turn power off before inspection, installation or removal b. Turn power off if glass bulb is broken, even if bulb continues to light. Remove and dispose of lamp. c. Do not open. No user serviceable parts inside.	6	⚠ WARNING Risk of burn a. Do not touch operating lamp
	2		7
2	⚠ WARNING Risk of fire a. Keep combustible materials away from lamp b. Use in fixture rated for this product c. Use in fixture rated for this product—see instructions d. Operate base down to horizontal only e. In table lamp use only with shade f. Do not use in enclosed fixture or with lamp shade g. Use in high intensity fixture rated for this product h. Do not use as a night light i. Burning position base down only j. Use in enclosed fixture rated for this product k. Fire Hazard! Do not use in Torchieres or other indoor residential fixtures	7	⚠ WARNING A damaged lamp emits UV radiation which may cause eye/skin injury a. Turn power off if glass bulb is broken. Remove and dispose of lamp.
3	3	8	⚠ WARNING Lamp emits UV radiation which may cause eye/skin injury. a. Avoid exposure of eyes and skin to unshielded lamp
4	⚠ WARNING Lamp emits IR radiation which may cause eye injury a. Avoid exposure of eyes and skin to unshielded lamp	9	⚠ CAUTION Risk of burn a. Allow lamp to cool before handling b. Allow lamp/fixture to cool before handling c. Do not touch operating lamp d. Turn power off before installing lamp
5	4	10	⚠ CAUTION Lamp may shatter and cause injury if broken a. Wear safety glasses and gloves when handling lamp b. Dispose of lamp in a closed container c. Do not use lamp if outer glass is scratched or broken
6	⚠ WARNING Pressurized lamp—unexpected rupture may cause injury, fire, or property damage a. Use eye protection when handling lamp b. Avoid direct water/liquid contact c. Use in enclosed fixture rated for this product d. Operate lamp only in specified position e. Do not touch glass with bare hands f. Do not use lamp if outer glass is scratched or broken g. Do not exceed 110% of rated voltage h. Do not use where directly exposed to water or outdoors without an enclosed fixture i. Do not exceed rated voltage j. Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose. k. Do not use in wet locations	11	⚠ CAUTION Lamp emits UV radiation which may cause eye/skin irritation. a. Minimize exposure
7	5	12	OP. INST. a. Burning position – base up b. Burning position – horizontal c. Burn base down only d. Burn base down to horizontal e. Limit seal temp to 650°F. Maintain min bulb wall temp of 500°F for operation of halogen cycle
8	⚠ WARNING Unexpected lamp rupture may cause injury, fire, or property damage a. Do not touch glass with bare hands b. Operate lamp only in specified position c. Use in enclosed fixture rated for this product d. Do not use lamp if outer glass is scratched or broken e. Avoid direct water, liquid or metal contact		

Operating Notes

- Turn power off and let lamp cool before removal to avoid potential burn and electrical shock during lamp replacement
- Do not use lamp if outer glass is scratched or broken because it may break during installation or later during operation
- Do not use lamp in close proximity to combustible materials or those adversely affected by drying or fading action because of heat radiation in the lamp beam
- Dispose of removed lamp with care such as placing in used lamp carton or other closed container

Compact PAR Lamps (PAR20/30)

- Use outdoors in enclosed fixtures or where protected from exposure to water

Quartzline® PAR (250W)

- Avoid use where subjected to exposure to moisture which may cause lamp to break or shatter
- Do not operate lamp over 110% rated voltage. Overvoltage operation increases pressure and tendency to break.
- Use this lamp only in fixtures designed for Q250PAR38 lamps

Halogen Lamps

Cross-Reference

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Halogen PAR Lamps		
60PAR16/H/SP10	60PAR16/CAP/NSP10	60PAR16/HAL/NSP10
60PAR16/H/FL30	60PAR16/CAP/NFL30	60PAR16/HAL/NFL27
75PAR16/H/SP10	75PAR16/CAP/NSP10	—
75PAR16/H/FL30	75PAR16/CAP/NFL30	—
50PAR20/H/SP10	50PAR20/CAP/SP/NSP10	50PAR20/HAL/NSP9
50PAR20/H/FL25	50PAR20/CAP/SP/NFL30	50PAR20/HAL/NFL30
50PAR30/H/SP10	50PAR30/CAP/SP/NSP9	50PAR30S/HAL/NSP10
50PAR30/H/FL25	50PAR30/CAP/SP/NFL25	50PAR30S/HAL/NFL30
50PAR30/H/FL35	50PAR30/CAP/SP/FL40	50PAR30S/HAL/FL40
50PAR30L/H/SP10	50PAR30L/CAP/SP/NSP9	50PAR30L/HAL/NSP9
50PAR30L/H/FL40	50PAR30L/CAP/SP/NFL30	50PAR30L/HAL/NFL30
50PAR30L/H/WFL	50PAR30L/CAP/SP/WFL50	50PAR30L/HAL/WFL60
60PAR30/H/NSP9	60PAR30/CAP/SP/NSP9	60PAR30S/HAL/NSP10
60PAR30/H/FL25	60PAR30/CAP/SP/NFL25	60PAR30S/HAL/NFL30
60PAR30/H/FL35	—	60PAR30S/HAL/NFL40
75PAR30/H/SP10	75PAR30/CAP/SP/NSP9	75PAR30S/HAL/NSP10
75PAR30/H/FL25	75PAR30/CAP/SP/NFL25	75PAR30S/HAL/NFL30
75PAR30/H/FL35	75PAR30/CAP/SP/FL40	75PAR30S/HAL/FL40
75PAR30L/H/SP10	75PAR30L/CAP/NSP9	75PAR30L/HAL/NSP9
75PAR30L/H/FL25	75PAR30L/CAP/NFL25	75PAR30L/HAL/NFL30
75PAR30L/H/WFL	75PAR30L/CAP/WFL40	75PAR30L/HAL/FL40
45PAR/H/SP10	45PAR/CAP/SP/SP9	45PAR30S/HAL/SP12/LL
45PAR/H/FL25	45PAR/CAP/SP/FL30	45PAR30S/HAL/FL28/LL
50PAR/H/SP10	50PAR38/HAL/SP9	—
50PAR/H/FL25	50PAR38/HAL/FL30	—
60PAR/H/SP10	60PAR/CAP/SP/SP10	60PAR38S/HAL/SP10WLL
60PAR/H/FL25	60PAR/CAP/SP/NS125	60PAR38S/HAL/FL28WLL
75PAR/H/NSP9	75PAR/CAP/SP/SP9	75PAR38S/HAL/SP10WLL
75PAR/H/FL25	75PAR/CAP/SP/FL30	75PAR38S/HAL/FL28WLL
90PAR/H/SP10	90PAR/CAP/SP/SP9	90PAR38S/HAL/SP12/LL
90PAR/H/FL25	90PAR/CAP/SP/FL30	90PAR38S/HAL/FL28/LL
90PAR/H/WFL	90PAR/CAP/SP/WFL50	90PAR38S/HAL/WFL60WLL
100PAR/H/SP10	100PAR38/HAL/SP9	—
100PAR/H/FL25	100PAR38/HAL/FL30	—
120PAR/H/SP9	120PAR/CAP/SP/SP10	—
120PAR/H/FL30	120PAR/CAP/SP/FL30	—
Halogen HIR® PAR Lamps		
45PAR30/HIR/SP9/CL	—	45PAR30/IRC/HAL/SP10
45PAR30/HIR/FL25/CL	—	45PAR30/IRC/HAL/FL25
45PAR30/HIR/FL35/CL	—	45PAR30/IRC/HAL/FL40
50PAR30/HIR/SP9	50PAR30/CAP/IR/NSP9	50PAR30S/IRC/NSP10
50PAR30/HIR/FL25	50PAR30/CAP/IR/NFL25	50PAR30S/IRC/NFL30
50PAR30/HIR/FL35	50PAR30/CAP/IR/FL40	50PAR30S/IRC/FL40
Halogen HIR® PAR38 Lamps		
45PAR/HIR/FL40/CL	—	45PAR38/IRC/WFL
45PAR/HIR+SR10	—	—
45PAR/HIR+FL25	—	—
48PAR/HIR+SP10	—	—
48PAR/HIR+FL25	—	—
50PAR/HIR/SP6	—	—
50PAR/HIR/SP9	50PAR38/CAP/IR/SP9	50PAR38/IRC/SP10
50PAR/HIR/FL25	50PAR38/CAP/IR/NFL25	50PAR38/IRC/FL25
50PAR/HIR/SP10	—	—
50PAR/HIR/SP/FL25	—	—
55PAR/HIR+SP10	—	—
55PAR/HIR+FL25	—	—
60PAR/HIR/SP10	60PAR38/CAP/IR/SP9	60PAR38/IRC/SP12
60PAR/HIR/FL30	60PAR38/CAP/IR/FL30	60PAR38/IRC/FL25
60PAR/HIR/FL40	—	60PAR38/IRC/HAL/FL40
60PAR/HIR/SP10	—	—

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Halogen HIR® PAR38 Lamps (continued)		
60PAR/HIR/SP/FL25	—	—
60PAR/HIR+SP10	—	—
60PAR/HIR+FL25	—	—
67PAR/HIR+SP10	—	—
67PAR/HIR+FL25	—	—
70PAR/HIR/SP10	—	70PAR38/IRC/HAL/SP10
70PAR/HIR/FL25	—	70PAR38/IRC/HAL/FL25
80PAR/HIR/SP10	80PAR/CAP/IR/SP10	—
80PAR/HIR/SP12	80PAR/CAP/IR/SP12	—
80PAR/HIR/FL25	80PAR/CAP/IR/FL25	—
83PAR/HIR+SP10	—	—
83PAR/HIR+FL25	—	—
90PAR/HIR/SP12XL	—	—
90PAR/HIR/FL40XL	—	—
100PAR/HIR/SP10	100PAR/CAP/IR/SP10	100PAR38/IRC/SP10
100PAR/HIR/FL25	100PAR/CAP/IR/NFL25	100PAR38/IRC/FL25
100PAR/HIR/FL40	100PAR/CAP/IR/FL40	100PAR38/IRC/WFL
Halogen MR11 Lamps		
Q20MR11/SP15	20MR11/SP10/FTB	20MRC11/SP10
Q20MR11/NFL30	20MR11/FL35/FTD	20MRC11/FL30
Q35MR11/NSP20	35MR11/SP10/ETE	—
Q35MR11/NFL30	35MR11/FL40/ETH	35MRC11/FL30
Halogen Standard MR16 Lamps		
Q20MR16/SP	20MR16/NSP/ESX	20MRC16/SP10
Q20MR16/FL	20MR16/FL40/BAB	20MRC16/FL36
Q50MR16/SP	50MR16/NSP12/EST	50MRC16/SP10
Q50MR16/FL	20MR16/FL40/EXN	50MRC16/FL38
Halogen ConstantColor® Precise® MR16 Lamps		
Q20MR16/C/VNSP7	20MR16/T/NSP10	20MRC16/CC/SP10
Q20MR16/C/NSP15	—	20MRC16/CC/NFL24
Q20MR16/C/FL40	20MR16/T/NFL40	20MRC16/CC/FL38
Q35MR16/C/SP20	35MR16/T/NFL25	—
Q35MR16/C/FL40	35MR16/T/FL40	—
Q42MR16/C/VNSP9	50MR16/T/NSP10	—
Q50MR16/C/NSP15	—	50MRC16/CC/SP10
Q50MR16/C/NFL25	50MR16/T/NFL25	50MRC16/CC/NFL24
Q50MR16/C/NFL30	—	—
Q50MR16/C/FL40	50MR16/T/FL40	50MRC16/CC/NFL38
Q50MR16/C/WFLSSFN	50MR16/T/WFL60	—
Q71MR16/C/NSP15	65MR16/T/NSP10	—
Q71MR16/C/NFL25	65MR16/T/NFL25	—
Q71MR16/C/FL40	65MR16/T/FL40	—
Halogen HIR® MR16 Lamps		
Q20MR16/HIR/CG10	20MR16/IR/SP10/C	20MRC16/IRC/ALW/SP8
Q20MR16/HIR/CG25	20MR16/IR/NFL25/C	—
Q20MR16/HIR/CG35	20MR16/IR/FL35/C	20MRC16/IRC/ALW/FL36
Q37MR16/HIR/CG10	37MR16/IR/NSP10C	35MRC16/IRC/SP8
Q37MR16/HIR/CG25	37MR16/IR/NFL25C	35MRC16/IRC/NFL24
Q37MR16/HIR/CG40	37MR16/IR/FL40C	35MRC16/IRC/FL36
Q50MR16/HIR/CG10	50MR16/IR/NSP10C	45MRC16/IRC/SP8
Q50MR16/HIR/CG25	50MR16/IR/NFL25C	45MRC16/IRC/NFL24
Q50MR16/HIR/CG40	50MR16/IR/FL40C	45MRC16/IRC/FL36
Halogen Bi-Pin Low Voltage		
Q15T3/CL	5T3Q/CL	5W12V/Capsule
Q10T3/CL	10T3Q/CL	10W12V/Capsule
Q20T3/CL	20T3Q/CL/AX	20W12V/Capsule
Q35T3/CL	35T3Q/CL/AX	35W12V/Capsule
Q50T3/CL	50T4Q/CL	50W12V/Capsule
Q75T4/CL	75T4Q/CL/RP	—

Cross-Reference (continued)

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Halogen Single-Ended		
Q100CL/DC	100Q/CL/DC	100Q/CL/DC
Q100CL/MC	100Q/CL/MC	100Q/CL
Q100DC	100Q/DC	—
Q150CL/DC/2V	150Q/CL/DC/1	—
Q150CL/DC	150Q/CL/DC	150Q/CL/DC
Q150CL/MC	150Q/CL/MC/2	150Q/CL
Q150CL/MC/2V	150Q/CL/MC	—
Q150DC	150Q/DC	150Q/DC
Q150MC	150Q/MC	150Q
Q250CL/DC	250Q/CL/DC	250Q/CL/DC
Q250CL/MC	250Q/CL/MC/2	250Q/CL
Q250DC	250Q/DC	—
Q250MC	250Q/MC	—
Halogen Double-Ended		
Q100T3/CL/CD	100T3Q/CL	BC100T3Q/CL/TP
Q150T3/CL	150T3Q/CL	BC100T3Q/CL/TP
Q300T3/CL	300T3Q/CL	300T3Q/P/CL
Q500T3/CL	500T3Q/CL	500T3Q/P/CL

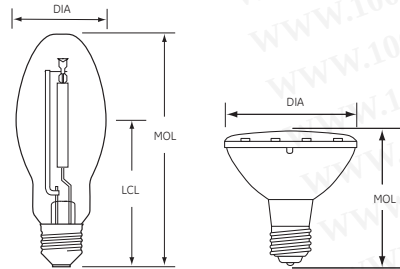
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High Intensity Discharge Lamps

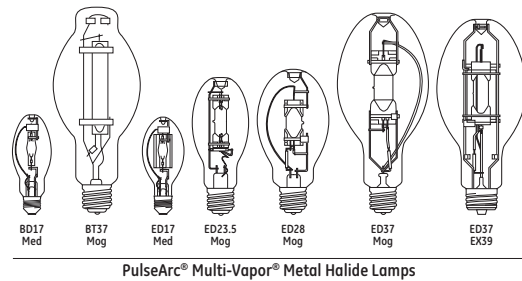
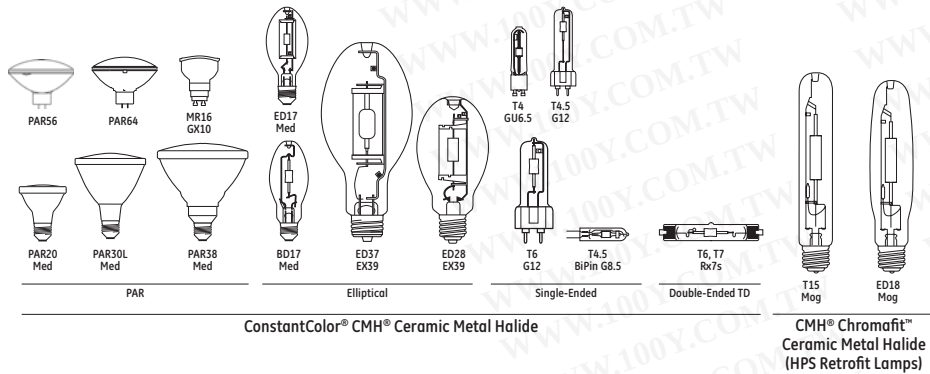
Bulb Identification



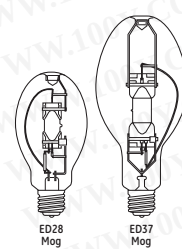
DIA: Diameter of bulb at widest point.
 MOL: Maximum Overall Length including base or pins.
 LCL: Distance between the center of the arc tube and the Light Center Length reference plane.
 Note: Lamp drawings are not drawn to scale.
 Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Lamp Locator

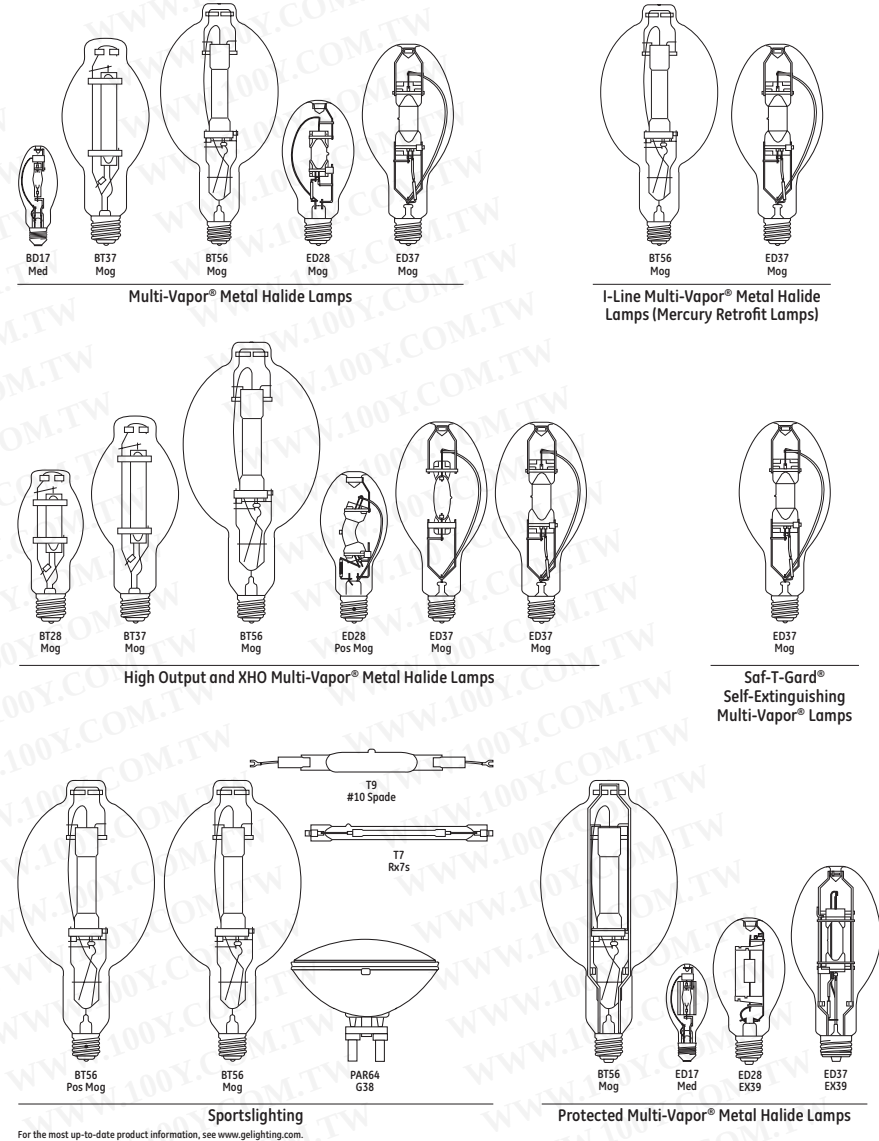


PulseArc® Multi-Vapor® Metal Halide Lamps



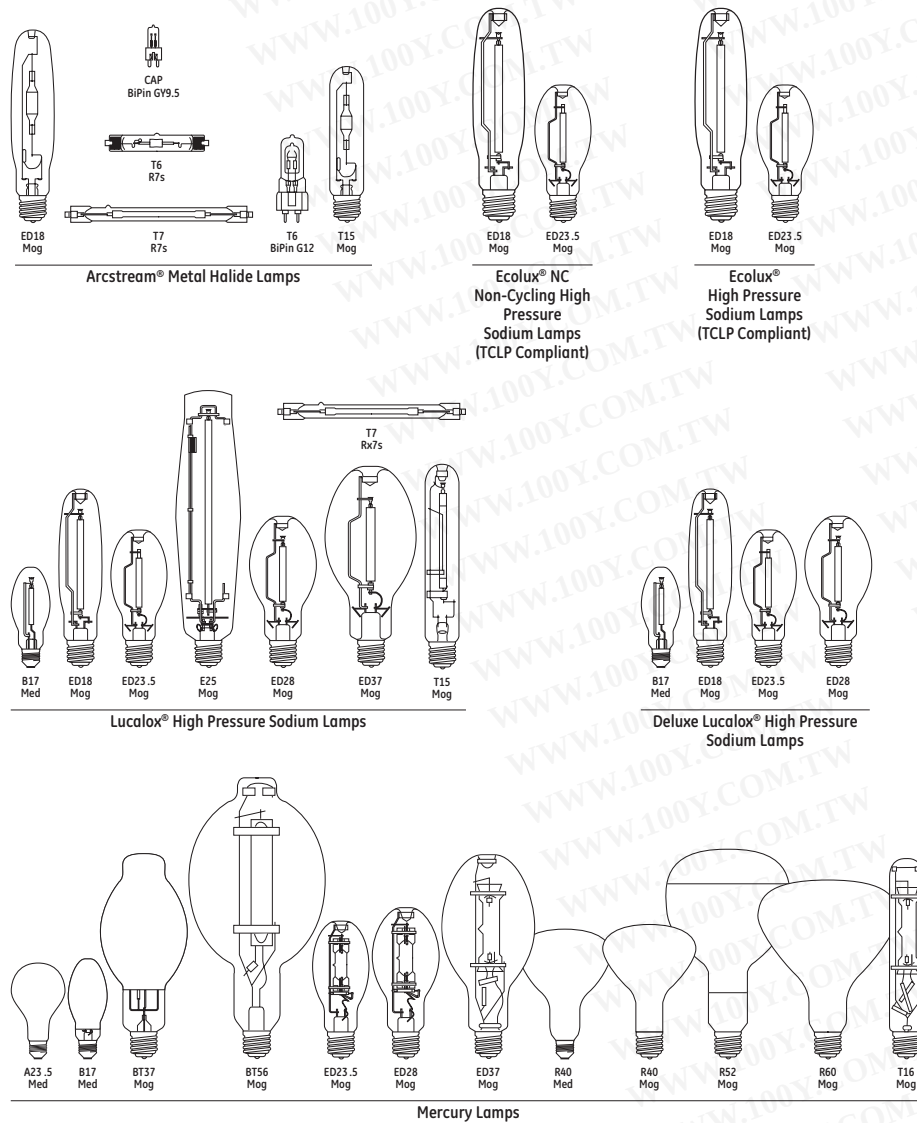
Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)

Lamp Locator (continued)

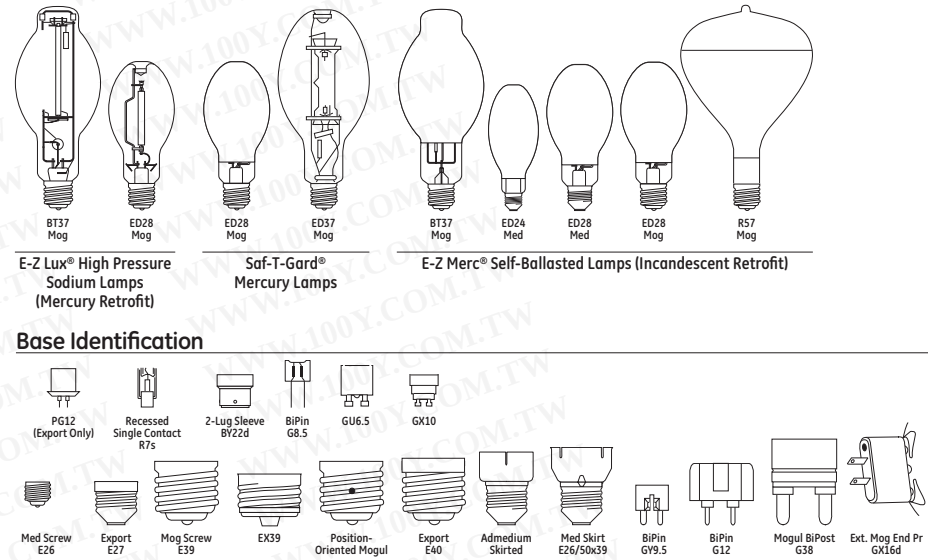


High Intensity Discharge Lamps

Lamp Locator (continued)



Lamp Locator (continued)



Introduction

GE HID lamps provide the following benefits:

High Efficacy/Low Operating Cost.

HID is generally the most efficient light source. Better efficiency almost always means lower operating cost.

Long Life.

Most HID lamps have life ratings that are better than incandescent lamps and similar to fluorescent lamps.

Compact Size.

An HID lamp produces high light output from a relatively compact source. Like incandescent, it is a "point" light source, which allows for good optical control.

The chart at right shows how HID lamps compare to incandescent, halogen, and fluorescent in terms of efficiency and rated life. Efficiency is measured in lumens per watt (LPW). Rated life for most lamp types is the number of burning hours when 50% of the tested samples have failed and 50% are still operational. For both HID and fluorescent, lamp life depends on the number of hours per start.

The combination of high efficiency and long life makes HID an ideal light source for many commercial and industrial applications.

Typical Lamp Characteristics

Lamp Type	Typical LPW	Rated Life (in hours)
Incandescent	5-22	750-2000
Halogen	12-36	2,000-6000
Compact Fluorescent	27-80	9,000-20,000
Fluorescent	75-100	5,000-36,000
Mercury	50-60	12,000-24,000+
ConstantColor® CMH®	80-95	10,000-20,000
Multi-Vapor® Metal Halide	80-115	10,000-20,000
Lucalox® High Pressure Sodium	90-140	10,000-40,000

Suggested Color Applications for HID Lamps

CMH®: Stores, people places, display, accent.

MVR: Stores, public spaces, industrial, gymnasiums, floodlighting signs and buildings, parking areas, sports.

MVR/C: Same as MVR – warmer color-diffuse coating reducing glare.

MVR/SP30: Same as MVR – warmer than MVR or MVR/C – matches SP30 fluorescent.

MXR: Warm color (3200K) – good match for halogen.

LU: Street lighting, parking areas, industrial, floodlighting, security, CCTV.

LU/DX: Floodlighting, parking areas, indoor/outdoor pedestrian malls, industrial, security, roadway.

Deluxe [DX] Mercury: Stores, public spaces – metal halide lamps however, are preferred.

Clear Mercury: Landscape lighting, specialized floodlighting such as green copper roofs.

High Intensity Discharge Lamps

Product Information

GE ConstantColor® CMH® Ceramic Metal Halide Lamps (pgs 3-9 to 3-11)

- Color uniformity lamp-to-lamp and over lamp life
- Excellent color rendering (80+ CRI, 90+ CRI for SPXX versions)
- Delivers more light than standard metal halide (10%-20% more)
- Lamp operates at high efficacy—up to 95 lumens per watt
- Many are universal burn—may be operated in any position
- Perfect for retail and commercial display lighting, accent and floodlighting, lobby and foyer lighting. Ideal for “people places”

GE CMH® Chromafit™ Ceramic Metal Halide Lamps (pg 3-11)

- Convert High Pressure Sodium sockets to crisp, white ceramic metal halide light (80+ CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Universal burn—may be operated in any position
- Uses: Area lighting, industrial and “people places”
- Enclosed glass fixtures only

GE PulseArc® Medium Based Metal Halide Lamps (/MED models) (pg 3-11)

- Low wattage metal halide lamps (formerly Halarc®) are now part of the PulseArc® family
- Compact source
- Sparkling white light (3000-4000K) and very good color rendition (70-75 CRI)
- High efficacy—more than 3 times the lumens per watt of incandescent
- Long life—up to 15 times longer than incandescent systems and up to 7 times longer than most PAR and R systems, saving maintenance and labor costs
- Superior optical control
- Uses: Display lighting, downlighting, floodlighting, corridors, lobbies, walkways, retail, office, commercial

GE PulseArc® Multi-Vapor® Metal Halide Lamps (/PA Models) (pg 3-11 to 3-12)

- Designed for operation only on approved ballasts with metal halide pulse ignitors
- More light—400W lamps provide highest initial and highest maintained lumens versus other standard universal or vertical base-up lamp options
- 50% longer life—400W lamps provide 30,000 hours life when burned on 120 hour on/1 hour off cycle (approximately continuous)
- Faster hot restrike—less than 4 minutes versus 10-15 minutes for typical metal halide lamps

GE Multi-Vapor® Metal Halide Lamps (pgs 3-12 to 3-13)

- Sparkling white light (3000-4000K) and very good color rendition (65-75 CRI)
- Warm, rich 3000K color of SP30 blends well with incandescent, halogen and triphosphor fluorescent lamps for interior retail applications
- High efficacy—more efficient than incandescent, mercury and most fluorescent sources
- Long life—10,000-20,000 hours for most types

- Full line, 150-1000 watts, to meet most application needs
- Uses: Downlighting, floodlighting, corridors, lobbies, walkways, retail, commercial, industrial

GE High Output Multi-Vapor® Lamps (pg 3-13)

- More light—optimized for higher light output in horizontal, vertical base-up and base-down burn applications
 - Horizontal burn lamps provide up to 25% more light than standard universal burn equivalents
 - 400W vertical burn lamps provide up to 22% more light than standard universal burn equivalents; the highest lumen lamps available for operation on standard M59 ballasts
- Longer life—horizontal burn lamps last up to 67% longer than universal burn lamp equivalents, significantly reducing replacement lamp and maintenance costs

GE Protected High Output Multi-Vapor® Lamps (/O) (pg 3-14)

- Protective quartz jacket surrounds the arc tube
- The/O suffix and/or the “MPR” prefix in the Lamp Description indicates lamps are suitable for open fixture applications

GE ChromaFit™ Multi-Vapor® Lamps (/R) (pg 3-14)

- Convert high pressure sodium sockets to crisp white metal halide light (65-70 CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Uses: Area lighting, industrial and “people places”

GE I-Line Multi-Vapor® Lamps (pg 3-14 to 3-15)

- Convert mercury sockets to crisp, white metal halide light
- More light, better color, energy cost savings for mercury users
- 40%-100% more light than existing mercury lamps
- Operate on standard CW and CWA mercury ballasts and auxiliary equipment

GE Saf-T-Gard® Multi-Vapor Lamps (MVT) (pg 3-15)

- Special self-extinguishing feature prevents exposure to UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21CFR1040.30
- Saf-T-Gard® I-Line lamps convert mercury sockets to crisp, white metal halide light
- Saf-T-Gard® I-Line lamps operate on standard mercury ballasts and auxiliary equipment
- Uses: Industrial, commercial, gymnasiums, sports complexes, especially where open fixtures are used and risk of outer bulb breakage is possible

GE Arcstream® Metal Halide Lamps (pg 3-15)

- Compact size, white light, excellent color
- Precise optical control delivers a concentrated beam of light right where it's needed
- Variety of color temperatures (3,000K-6,000K)
- PAR64: ideal for long-range projection and sports lighting applications
- Uses: Ideal for retail and commercial display lighting, floodlighting, accent/highlighting

GE Lucalox® High Pressure Sodium Lamps (pg 3-15)

- Very high efficacy/low operating cost
- Excellent lumen maintenance—over 90% @ 50% of life
- Very long life—24,000+ hours
- Universal burn—can be operated in any position without affecting performance
- Warm color
- For open or enclosed fixtures
- Uses: Industrial, roadway, security, floodlighting

GE Double-Ended Lucalox® Lamps (/TD) (pg 3-15)

- Compact tubular design fits compact fixtures for excellent optical control
- High efficacy, lumen maintenance and long life of standard Lucalox® HPS

GE Ecolux® High Pressure Sodium Lamps (/ECO) (pgs 3-15 to 3-16)

- Lead-free base. Passes TCLP, which can lower disposal costs.

GE Standby Longlife Lucalox® Lamps (/SBY) (pgs 3-16 to 3-17)

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes
- Dual arc tubes provide 40,000 hour rated life
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Industrial, roadway, security, and hard-to-reach sockets

GE Ecolux® NC “Non-Cycling” High Pressure Sodium Lamps (/ECO/NC) (pg 3-17)

- Low mercury. Passes TCLP, which can lower disposal costs.
- Non-cycling feature makes locating and replacing end-of-life lamps quick and easy
- Lead-free base
- High efficacy/low operating cost
- 6%-11% higher initial lumens than standard HPS in 100W and 400W versions
- Long life—30,000 hours
- Open or enclosed fixtures
- Uses: Industrial, roadway, security

GE Deluxe Lucalox® High Pressure Sodium Lamps (pg 3-17)

- High efficacy, lumen maintenance and long life of standard Lucalox® HPS
- High color rendering (65-70CRI), much better than standard HPS
- Blends well with incandescent and standard HPS sources
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Storage rooms, industrial facilities, offices, gymnasiums, malls, parks, building floodlighting

GE E-Z Lux® High Pressure Sodium Lamps (pg 3-17)

- Direct replacement for mercury lamps on mercury ballasts
- More efficient, 57-114% more lumens and 10-14% fewer watts than mercury lamps they replace
- Uses: General lighting, roadway
- See operating notes for further information

GE Mercury Lamps (pgs 3-17 to 3-18)

- Long life and good efficacy
- Phosphor coated Deluxe lamps provide good color rendering (50CRI)
- Uses: Industrial, roadway, landscapes, residential and commercial security, parking lots

GE Saf-T-Gard® Mercury Lamps (pg 3-18)

- Special self-extinguishing feature prevents exposure to harmful UV in case outer bulb is punctured or broken, lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21 CFR 1040.30
- See operating notes for further information

GE E-Z Merc® Self-Ballasted Mercury Lamps (pg 3-18)

- Retrofit incandescent sockets to longer-life mercury lamps without additional mercury ballasts or auxiliary equipment

GE Export Base Lamps (pg 3-18)

- Export-only lamps are not sold or intended for use in North America. The lamps are identified by “/27” or “/40” at the end of the lamp description, and comply with electrical characteristics defined by IEC standards.
- Bulb shapes are generally similar to U.S. lamp types. Refer to drawings on pages 3-2 to 3-5.

High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Constant Color CMH® Metal Halide Lamps (continued)																				
CMH® PAR (continued)																				
PAR56	GX160	E	U	150	5.00		88521	CMH150/PAR56/MFL/830	M102/M142	6		40000	5000		3000	80	Medium Flood		33.39	108
		E	U	150	5.00		88522	CMH150/PAR56/SP/830	M102/M142	6		85000	5000		3000	80	Spot		33.39	108
PAR64	GX160	E	U	150	6.42		88541	CMH150/PAR64/WFL/942	M102/M142	6		16000	8000		4200	90	Wide Flood		33.39	108
		E	U	150	6.42		88542	CMH150/PAR64/MFL/942	M102/M142	6		47000	8000		4200	90	Medium Flood		33.39	108
		E	U	150	6.42		88543	CMH150/PAR64/SP/942	M102/M142	6		154000	8000		4200	90	Spot		33.39	108
		E	U	150	6.42		88544	CMH150/PAR64/WFL/830	M102/M142	6		16000	8000		3000	80	Wide Flood		33.39	108
		E	U	150	6.42		88537	CMH150/PAR64/MFL/830	M102/M142	6		47000	8000		3000	80	Medium Flood		33.39	108
		E	U	150	6.42		88545	CMH150/PAR64/SP/830	M102/M142	6		154000	8000		3000	80	Spot		33.39	108
CMH® Elliptical																				
BD17	E26	E	U	70	5.43	3.37	22119	CMH70/U/830/MED	M139/M98/C98	6		15000	6300	4100	3000	80	Clear		33	116
		E	U	70	5.43	3.37	22124	CMH70/C/U/830/MED	M139/M98/C98	6		15000	6000	4000	3000	80	Coated		33	116
		E	U	100	5.43	3.37	22127	CMH100/U/830/MED	M140/M90	6		10000 V 15000 H	9200	6600 V 6400 H	3000	83	Clear		33	116
		E	U	100	5.43	3.37	22137	CMH100/C/U/830/MED	M140/M90	6		10000 V 15000 H	8700	6300	3000	83	Coated		33	116
CMH® Elliptical Open-Rated																				
ED17	E26	O	U	70	5.43	3.37	31069	CMH70/U830MED/O	M143/M98/C98	6		15000	5700	4100	3000	80	Clear		33	106
		O	U	70	5.43	3.37	31070	CMH70/CU830MED/O	M143/M98/C98	6		15000	5700	4100	3000	80	Coated		33	106
		O	U	70	5.43	3.37	31073	CMH70/U942MED/O	M143/M98/C98	6		15000	5500	4200	4000	90	Clear		33	106
		O	U	70	5.43	3.37	31074	CMH70/CU942MED/O	M143/M98/C98	6		15000	5200	4000	4000	90	Coated		33	106
		O	U	150	5.43	3.37	31065	CMH150/U830MED/O	M102/M142	6		12000	12900	9500	3000	80	Clear		33	106
		O	U	150	5.43	3.37	31066	CMH150/CU830MED/O	M102/M142	6		12000	11900	8800	3000	80	Coated		33	106
		O	U	150	5.43	3.37	31067	CMH150/U942MED/O	M102/M142	6		15000	12000	9000	4200	90	Clear		33	106
		O	U	150	5.43	3.37	31068	CMH150/CU942MED/O	M102/M142	6		15000	11000	8300	4200	90	Coated		33	106
		CMH® Single-Ended G12 ULTRA																		
T6	G12	E	U	70	3.56	2.18	73056	CMH70/U930G12ULR	C139/M139	12		15000	6400	5600	3000	87	UV Control		33.39	104
CMH® Single-Ended G12																				
T4.5	G12	E	U	20	3.56	2.18	29703	CMH20T/U/830/G12	M156	12		12000	1600	1200	3000	81	UV Control		33.39	51
		E	U	39	3.56	2.18	20153	CMH39T/UCU830G12	M130	12		15000	3400	2300	3000	84	UV Control		33.39	51
		E	U	39	3.56	2.18	29696	CMH39T/U/942/G12	M130	12		12000	3150	2700	4200	88	UV Control		33.39	51
T6	G12	E	U	70	3.56	2.18	20016	CMH70T/U/830/G12	C139/M139	12		15000	6200	4700	3000	83	UV Control		33.39	51
		E	U	70	3.56	2.18	20023	CMH70T/U/942/G12	C139/M139	12		15000	6000	4600	4200	93	UV Control		33.39	51
		E	U	150	3.93	2.18	20017	CMH150T/U/830/G12	M102/M142	12		12000	14000	11000	3000	82	UV Control		33.39	51
		E	U	150	3.93	2.18	20018	CMH150T/U/942/G12	M102/M142	12		12000	13000	11000	4200	94	UV Control		33.39	51
CMH® Double-Ended TD																				
T6	Rx7s	E	H45	70	4.50	2.25	92587	CMH70/TD/830RX7S	M85/M139	12		15000	7000	5600	3000	81	UV Control		33.39	109
		E	H45	70	4.50	2.25	92588	CMH70/TD/942RX7S	M85/M139	12		15000	7000	5600	4200	88	UV Control		33.39	109
T7	Rx7s	E	H45	150	5.37	2.62	92589	CMH150TD830RX7S	M81/M142	12		15000	14000	11500	3000	80	UV Control		33.39	109
		E	H45	150	5.37	2.62	92590	CMH150TD942RX7S	M81/M142	12		15000	14000	11500	4200	93	UV Control		33.39	109

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 3-20).

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices	
Constant Color CMH® Metal Halide Lamps (continued)																					
CMH® GU6.5																					
T4	GU6.5	E	U	20	2.05	1.18	85086	CMH20T/U830GU6.5	M156	12		12000	1615	1066	3000	81	UV Control		33,39	51	104
		E	U	39	2.05	1.18	71484	CMH39T/U930GU6.5	M130	12		10000	3400	2300	3000	88	UV Control		33,39	51	104
		E	U	39	2.05	1.18	71487	CMH39T/U942GU6.5	M130	12		12000	3400	2600	4000	90	UV Control		33,39	51	104
CMH® Mini ULTRA																					
T4.5	G8.5	E	U	70	3.37	2.00	73057	CMH70U930G8.5ULR	C139/ M139	12		15000	6200	5400	3000	88	UV Control		33,39	45	104
CMH® Mini's																					
T4.5	G8.5	E	U	20	3.37	2.00	92696	CMH20T/CU830/G8.5	M156	12		12000	1650	1090	3000	81	UV Control		33,39	51	104
		E	U	39	3.37	2.00	90352	CMH39T/CU830/G8.5	M130	12		15000	3400	2300	3000	84	UV Control		33,39	45	104
		E	U	39	3.37	2.00	29698	CMH39T/CU942/G8.5	M130	12		12000	3150	2700	4200	88	UV Control		33,39	45	104
		E	U	70	3.37	2.00	92585	CMH70T/CU830/G8.5	C139/ M139	12		15000	6200	4400	3000	83	UV Control		33,39	45	104
		E	U	70	3.37	2.00	29701	CMH70T/CU942/G8.5	C139/ M139	12		15000	6000	4600	4200	90	UV Control		33,39	45	104
CMH® Chromafit®																					
T15	E39	E	U	250	9.75	5.75	93357	CMH250/U/830/R	S50/ M168	12		20000	25000	20000	3000	85			33		105
ED18	E39	E	U	400	9.75	5.75	93295	CMH400/U/830/R	S51/ M169	12		20000	41000	31300	3000H 3600V	82H 80V			33,45	A9	105
High-Watt CMH® SPXX																					
ED28	EX39	O	V	250	8.31	5.00	48429	CMH250C/VP/PA/O		12		20000	23000	18400	4100	90	Clear		33,45	52	106
		O	V	250	8.31	5.00	48432	CMH250C/VP/PA/O		12		20000	22000	17600	4100	90	Coated		33,45	52	106
ED37	EX39	O	V	320	11.31	7.00	17264	CMH320C/VP/PA/O		6		20000	31000	24800	4100	90	Clear		33,45	52	106
		O	V	320	11.31	7.00	17267	CMH320C/VP/PA/O		6		20000	30000	24000	4100	90	Coated		33,45	52	106
		O	V	350	11.31	7.00	20035	CMH350C/VP/PA/O		6		20000	33000	26400	4000	90	Clear		33,45	52	106
		O	V	350	11.31	7.00	20036	CMH350C/VP/PA/O		6		20000	32000	25600	4000	90	Coated		33,45	52	106
		O	V	400	11.31	7.00	49910	CMH400C/VP/PA/O		6		20000	40000	32000	3700	92	Clear		33,45	52	106
		O	V	400	11.31	7.00	49911	CMH400C/VP/PA/O		6		20000	39000	31200	3700	92	Coated		33,45	52	106
PulseArc® Multi-Vapor® Metal Halide Lamps																					
50 Watts																					
BD17	E26	E	U	50	5.43	3.43	10361	MKR50/U/MED	M110	6		10000	3200	2100	3700	60	Clear				118
		E	U	50	5.43	3.43	10364	MKR50/C/U/MED	M110	6		10000	3000	2000	3400	65	Coated				118
70 Watts																					
BD17	E26	E	U	70	5.43	3.43	22158	MKR70/U/MED	M98	6		12000	5500	3500	3200	70	Clear				118
		E	U	70	5.43	3.43	22162	MKR70/C/U/MED	M98	6		12000	5300	3300	3200	70	Coated				118
		E	U	70	5.43	3.43	12590	MVR70/U/MED	M98	6		12000	4700	3000	4000	70	Clear				118
		E	U	70	5.43	3.43	12594	MVR70/C/U/MED	M98	6		12000	4500	2800	4000	70	Coated				118
100 Watts																					
BD17	E26	E	U	100	5.43	3.43	18680	MKR100/U/MED	M90	6		15000	9000	6200	3200	70	Clear				118
		E	U	100	5.43	3.43	18679	MKR100/C/U/MED	M90	6		15000	8500	5900	3200	70	Coated				118
		E	U	100	5.43	3.43	12652	MVR100/U/MED	M90	6		15000	8100	5800	4000	70	Clear				118
		E	U	100	5.43	3.43	12653	MVR100/C/U/MED	M90	6		15000	7600	4900	4000	70	Coated				118
150 Watts																					
BD17	E26	E	U	150	5.43	3.43	22935	MKR150/U/MED	M102	6		15000	13300	10000	5400	60	Clear				118
		E	U	150	5.43	3.43	22936	MKR150/C/U/MED	M102	6		15000	12600	9500	5100	60	Coated				118
		E	U	150	5.43	3.43	12598	MVR150/U/MED	M102	6		15000	14000	10500	4300	65	Clear				118
		E	U	150	5.43	3.43	12604	MVR150/C/U/MED	M102	6		15000	13300	10000	3900	70	Coated				118
175 Watts																					
ED23.5	E39	E	VB	175	7.50	5.00	22342	MKR175/VB/UPA	M137/ M152	6		15000	17000	12500	3200	65	Clear			43	117
		E	VB	175	7.50	5.00	11185	MKR175/C/VB/UPA	M137/ M152	6		15000	16000	12000	3200	65	Coated			43	117
		E	VB	175	7.50	5.00	12622	MVR175/VB/UPA	M137/ M152	6		15000	17500	13000	4000	75	Clear			43	117
		E	VB	175	7.50	5.00	12633	MVR175/C/VB/UPA	M137/ M152	6		15000	16500	12500	4000	75	Coated			43	117
BD17	E26	E	VB	175	5.75	3.43	12636	MVR175/VB/UMEDPA	M137/ M152	6		15000	17500	13000	4000	75	Clear			43	117
		E	VB	175	5.75	3.43	12637	MVR175/C/VB/UMEDPA	M137/ M152	6		15000	16500	12500	4000	75	Coated			43	117
250 Watts																					
ED28	E39	E	VB	250	8.25	5.00	26317	MVR250/VB/UPA	M138/ M153	12		15000	23000	17000	4200	65	Clear			43	117
		E	VB	250	8.25	5.00	26319	MVR250/C/VB/UPA	M138/ M153	12		15000	21500	15500	3900	65	Coated			43	117
		E	HOR	250	8.25	5.00	72882	MVR250/HOR/UPA	M138/ M153	12		12000	20000	13700	4400	60	Clear			43	116

High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warnings and Caution Notices	
PulseArc® Multi-Vapor® Metal Halide Lamps (continued)																					
320 Watts																					
ED28	E39	E	VBU	320	8.25	5.00	27501	MVR320/VBU/HO/PA	M132/ M154	12		20000	31000	18000	4000	65	Clear		43	117	
				320	8.25	5.00	27502	MVR320/C/VBUH/OPA	M132/ M154	12		20000	30000	16500	3700	70	Coated		43	117	
				320	8.25	5.00	45666	MVR320/VBU/XHO/PA	M132/ M154	12		20000	34000	25000	4000	65	Extra High Output		43	116	
				320	8.25	5.00	45669	MVR320/C/VBU/ XHO/PA	M132/ M154	12		20000	33000	23000	3700	70	Extra High Output		43	116	
				320	8.25	5.00	72884	MVR320/HOR/PA	M132/ M154	12		20000	30000	19100	4100	65	Clear		43	117	
350 Watts																					
ED37	E39	E	VBU	350	11.50	7.00	23729	MVR350/VBUXHO/PAE	M131	6		20000	36500	27000	4000	65	Extra High Output		43	117	
				350	11.50	7.00	23738	MVR350/CVBUXHO/PAE	M131	6		20000	34500	25000	3700	65	Extra High Output		43	117	
400 Watts																					
ED37	E39	S	VBU	400	11.50	7.00	45664	MVR400/VBU/HO/PA	M135/ M155	6		20000	41000	31000	4000	65	Clear			43, 49	121
				400	11.50	7.00	12642	MVR400/VBU/XHO/PA	M135/ M155	6		20000	44000	33000	4000	65	Extra High Output			43, 49	121
				400	11.50	7.00	12644	MVR400/CVBUXHO/PA	M135/ M155	6		20000	42000	31500	3700	70	Coated, Extra High Output			43, 49	121
				400	11.50	7.00	72886	MVR400/HOR/PA	M135/ M155	6		20000	40000	22300	4100	65	Clear			43, 49	116
				400	11.50	7.00	46632	MVR400/BD/XHO/PA	M135	6		20000	44000	35200	4000	65	Extra High Output			43, 49	116
				400	8.25	5.00	46271	MVR400/VBUED28PA	M135/ M155	12		20000	44000	28500	4000	65	Clear			43, 49	116
ED28	E39	E	VBU	400	8.25	5.00	46272	MVR400/CVBUED28PA	M135/ M155	12		20000	42000	27500	3700	70	Coated Compact			43, 49	116
				400	8.25	5.00	72885	MVR400/HOR/ ED28/PA	M135/ M155	12		20000	38000	15400	4100	65	Clear Compact			43, 49	116
750 Watts																					
BT37	E39	E	VBU	750	11.50	7.00	27219	MVR750/VBU/PA	M149	6		16000	82000	60000	4000	65	Clear			49	117
				750	11.50	7.00	45560	MVR750/C/VBU/PA	M149	6		16000	72000	54000	3700	70	Coated			49	117
1000 Watts																					
BT37	E39	E	U	1000	11.30	7.00	10389	MVR1000/BT37/PA	M141	6		9000H/ 12000V	105000H/ 115000V	82000H/ 90000V	3900	65	Clear		43, 49	116	
Multi-Vapor® Metal Halide Lamps																					
150 Watts																					
ED28	E39	E	U	150	8.25	5.00	13481	MVR150/U/WM	M57/ M107	12		7500H/ 10000V	11500H/ 13500V	7200H/ 8500V	4000	65	Clear, Watt-Miser®	➔		117	
				150	8.25	5.00	13490	MVR150/C/U/WM	M57/ M107	12		7500H/ 10000V	10900H/ 12800V	6900H/ 8000V	3700	70	Coated, Watt-Miser®	➔		117	
175 Watts																					
B017	E26	E	U	175	5.75	3.43	18902	MVR175/U/MED	M57	6		6000H/ 10000V	11700H/ 13600V	7400H/ 8800V	4000	65	Clear			117	
				175	5.75	3.43	26432	MVR175/U/MED/CP	M57	4		6000H/ 10000V	11700H/ 13600V	7400H/ 8800V	4000	65	Clear, Consumer Pack			117	
				175	5.75	3.43	19976	MVR175/C/U/MED	M57	6		6000H/ 10000V	11900H/ 12900V	7900H/ 8400V	3900	65	Coated			117	
ED28	E39	E	U	175	8.25	5.00	47760	MVR175/U	M57	12		6000H/ 10000V	11700H/ 13600V	7900H/ 8800V	4000	65	Clear			117	
				175	8.25	5.00	26433	MVR175/U/CP	M57	4		6000H/ 10000V	11700H/ 13600V	7900H/ 8800V	4000	65	Clear, Consumer Pack			117	
				175	8.25	5.00	47761	MVR175/C/U	M57	12		6000H/ 10000V	11900H/ 12900V	7900H/ 8400V	3900	70	Coated			117	
				175	8.25	5.00	17634	MVR175/SP30/U	M57	12		6000H/ 10000V	10300H/ 12000V	6500H/ 7600V	3000	70	RE730 Phosphor Coating			117	
				175	5.62		25218	MVR175/PAR38/FL1	M57	6	6500	7500	12000		3800	65	Clear, One-Piece PAR			117	
250 Watts																					
ED28	E39	E	U	250	8.25	5.00	42729	MVR250/U	M58	12		6000H/ 10000V	19100H/ 20800V	12400H/ 13500V	4200	65	Clear			117	
				250	8.25	5.00	26434	MVR250/U/CP	M58	4		6000H/ 10000V	19100H/ 20800V	12400H/ 13500V	4200	65	Clear, Consumer Pack			117	
				250	8.25	5.00	42731	MVR250/C/U	M58	12		6000H/ 10000V	18200H/ 19800V	11600H/ 13000V	3900	70	Coated			117	
				250	8.25	5.00	17633	MVR250/SP30/U	M58	12		6000H/ 10000V	16600H/ 18000V	10600H/ 11500V	3000	70	RE730 Phosphor Coating			117	
360 Watts																					
ED37	E39	S	VBU	360	11.50	7.00	13495	MVR360/VBU/WM/HO	M59/ M165	6		20000	36000	23500	4300	65	Clear, Watt-Miser®	➔	32, 49	121	

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 3-20).

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Multi-Vapor® Metal Halide Lamps (continued)																				
400 Watts																				
ED37	E39	S	U	400	11.50	7.00	43828	MVR400/U	M59	6		15000H/20000V	33100H/36000V	22100H/23500V	4000	65	Clear		49	121
				400	11.50	7.00	26435	MVR400/U/CP	M59	4		15000H/20000V	33100H/36000V	22100H/23500V	4000	65	Clear, Consumer Pack		49	121
				400	11.50	7.00	43829	MVR400/C/U	M59	6		15000H/20000V	32200H/35000V	19300H/23000V	3700	70	Coated		49	121
				400	11.50	7.00	17632	MVR400/SP30/U	M59	6		15000H/20000V	28500H/31000V	17100H/18600V	3000	70	RE730 Phosphor Coating		49	121
ED28	E39	E	U	400	8.25	5.00	18904	MVR400/U/ED28	M59	12		15000H/20000V	33100H/36000V	22100H/23500V	4000	65	Clear, Compact		49	117
				400	8.25	5.00	19979	MVR400/C/U/ED28	M59	12		15000H/20000V	32200H/35000V	19300H/23000V	4000	65	Coated, Compact		49	117
1000 Watts																				
BT56	E39	S	U	1000	15.37	9.50	41826	MVR1000/U	M47	6		11000H/15000V	100280H/108000V	79000H/86000V	4000	65	Clear		49	121
				1000	15.37	9.50	41827	MVR1000/C/U	M47	6		11000H/15000V	96600H/105000V	73000H/80000V	3700	65	Coated		49	121
BT37	E39	E	U	1000	11.50	7.00	18205	MVR1000/U/BT37	M47	6		9000H/12000V	105000H/115000V	82000H/90000V	3700	65	Clear, Compact		49	121
High Output and XHO Multi-Vapor® Metal Halide Lamps																				
175 Watts																				
ED28	PostMag	E	HOR	175	8.25	5.00	18104	MVR175/HOR	M57	12		10000	15000	7700	4000	65	Clear, Position Oriented Socket		49	117
				175	8.25	5.00	18105	MVR175/C/HOR	M57	12		10000	14100	7500	3500	70	Coated, Position Oriented Socket		117	
250 Watts																				
ED28	PostMag	E	HOR	250	8.25	5.00	18101	MVR250/HOR	M58	12		15000	21000	10000	4200	65	Clear, Position Oriented Socket		117	
				250	8.25	5.00	18103	MVR250/C/HOR	M58	12		15000	19700	9400	3600	70	Coated, Position Oriented Socket		117	
360 Watts - Watt-Miser® Energy-Saving Replacement for 400W Metal Halide																				
ED37	E39	S	VBUL	360	11.50	7.00	40053	MVR360/VBU/WM/XHO	M59	6		20000	37000	24000	4200	65	Extra High Output	➔	32, 49	121
				360	11.50	7.00	40055	MVR360C/VBULWMXHO	M59	6		20000	35000	23000	4000	70	Extra High Output	➔	32, 49	121
400 Watts																				
ED37	E39	S	VBUL	400	11.50	7.00	49657	MVR400/VBU/HO	M59	6		20000	41000	26500	4000	65	High Output		49	121
				400	11.50	7.00	49655	MVR400/VBD	M59	6		20000	41000	26500	4000	65	Clear		49	121
				400	11.50	7.00	20931	MVR400SP30VBUL/HO	M59	6		20000	34000	20400	3200	70	RE730 Phosphor Coating		49	121
				400	11.50	7.00	13923	MVR400/VBU/XHO	M59	6		20000	43000	28000	4000	65	Extra High Output		49	121
				400	11.50	7.00	13924	MVR400/C/VBU/HO	M59	6		20000	42000	27000	3700	70	Extra High Output		49	121
ED28	E39	E	VBUL	400	8.31	5.00	40135	MVR400/VBUED28HO	M59	12		20000	41000	26500	4000	65	Clear, Compact		49	121
BT28	E39	E	HOR	400	8.25	5.00	40201	MVR400/HOR/BT28	M59	12		20000	37000	22000	4200	65	Compact, Horizontal		49	117
BT37	E39	E	HOR	400	11.50	7.00	26218	MVR400/HOR/MOG	M59	6		20000	38000	22500	4200	65	Clear		49	117
				400	11.50	7.00	26219	MVR400/C/HOR/MOG	M59	6		20000	36800	22000	3900	70	Coated		49	117
1000 Watts																				
BT56	E39	S	VBUL	1000	15.37	9.50	44835	MVR1000/VBU/HO	M47	6		15000	111000	87000	3800	65	Clear		49	121
				1000	15.37	9.50	13137	MVR1000/C/VBU/HO	M47	6		15000	107000	81500	3700	70	Coated		49	121
Sports Lighting																				
1000 Watts																				
PAR64	G38	E	U	1000	6.87		29333	SPL1000/PAR64BA0	HID	1	1,350,000	3500	63000		4000	80	Clear, Narrow Spot		38	124
				1000	6.87		29336	SPL1000/PAR64A/HR	HID	1	1,350,000	3500	63000		4000	80	Clear, Narrow Spot		38	124
1500 Watts																				
BT56	E39	E	H	1500	10.12	5.00	16920	SPL1500/H/SP2	HID	1		6000	120000	90000	5200	65	Frosted		38	125
				1500	15.37	9.50	47326	MVR1500/U/PORTS	M48	6		3000	162000H/170000V	133000H/153000V	4000	65	Clear		17, 42, 49	117
				1500	15.37	9.50	37405	MVR1500/HBU	M48	6		3000	155000H/165000V	130000H/140000V	3900	65	Clear		16, 17, 49	117
1650 Watts																				
BT56	PostMag	E	HOR	1650	15.37	9.50	25532	MVR1650/HOR	M112	6		3000	177000	145000	3200	65	Clear, Position Oriented Socket		17, 49	117
2000 Watts																				
T9	#10 Spindle	E	HOR	2000	10.00	4.00	12275	MQJ/2000/T9/40	M134	10		3000	170000	153000	4000	65	Clear			125

High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Protected Multi-Vapor® Metal Halide Lamps																				
32 Watts																				
ED17	E26	O	VBD	32	5.43	3.43	12651	MKR32/C/VBD/O	M100	6		10000	2400	1700	3200	70	Coated, Protected			119
		O	VBU	32	5.43	3.43	16469	MKR32/C/VBU/O	M100	6		10000	2400	1700	3200	70	Coated, Protected			119
50 Watts																				
ED17	E26	O	U	50	5.43	3.43	45670	MKR50/U/MED/O	M110	6		10000	3400	1700	3500	70	Clear, Protected			120
		O	U	50	5.43	3.43	45671	MKR50/CU/MED/O	M110	6		10000	3200	1500	3500	70	Coated, Protected			120
70 Watts																				
ED17	E26	O	U	70	5.43	3.43	12377	MKR70/U/MED/O	M98	6		12000	5500	3500	3200	70	Clear, Protected			120
		O	U	70	5.43	3.43	12577	MKR70/CU/MED/O	M98	6		15000	5300	3300	3200	70	Coated, Protected			120
100 Watts																				
ED17	E26	O	U	100	5.43	3.43	12381	MKR100/U/MED/O	M90	6		15000	9000	6200	3200	70	Clear, Protected			120
		O	U	100	5.43	3.43	12579	MKR100/CU/MED/O	M90	6		15000	8500	5900	3200	70	Coated, Protected			120
150 Watts																				
ED17	E26	O	U	150	5.43	3.43	45683	MKR150/U/MED/O	M102	6		15000	12500	8600	3500	70	Clear, Protected			120
		O	U	150	5.43	3.43	45688	MKR150/CU/MED/O	M102	6		15000	12000	8300	3500	70	Coated, Protected			120
175 Watts																				
BT28	EX39	O	VBU	175	8.25	5.00	49470	MPR175/VBU/O	M57	6		10000	14400	10200	4000	65	Clear, Protected			119
		O	VBU	175	8.25	5.00	11649	MPR175/CVBU/O	M57	6		10000	12800	7800	3800	70	Coated, Protected			119
250 Watts																				
BT28	EX39	O	VBU	250	8.25	5.00	49471	MPR250/VBU/O	M58	6		10000	23000	17000	4000	65	Clear, Protected			119
		O	VBU	250	8.25	5.00	11650	MPR250/CVBU/O	M58	6		10000	20500	29500	3800	70	Coated, Protected			119
320 Watts																				
ED37	EX39	O	VBU	320	11.50	7.00	46275	MPR320/VBU/XHOPA	M132	6		20000	32000	22500	4000	65	Clear, Protected			120
		O	VBU	320	11.50	7.00	46276	MPR320/CVBU/XHOPA	M132/M154	6		20000	30500	21500	3700	70	Coated, Protected			120
ED28	EX39	O	VBU	320	8.25	5.00	19609	MPR320/CP/A/ED28	M132	12		20000	30600	22500	3700	70	Coated, Protected		43	120
350 Watts																				
ED37	EX39	O	VBU	350	11.50	7.00	10202	MPR350/VBU/PA	M131	6		20000	35200	24600	3700	65	Clear, Protected		43	120
		O	VBU	350	11.50	7.00	48824	MPR350/CVBU/PA	M131	6		20000	33400	23500	3700	70	Coated, Protected		43	120
		O	VBU	350	11.50	7.00	48825	MPR350/CVBU/KPA	M131	6		20000	33400	23500	3200	70	Coated, Protected		43	120
360 Watts - Watt-Miser® Energy-Saving Replacement for 400W Metal Halide																				
ED37	EX39	O	VBU	360	11.50	7.00	40056	MPR360/VBUWM/HO/O	M59	6		20000	36000	23500	4000	65	Clear, Protected		32, 49	119
		O	VBU	360	11.50	7.00	11685	MPR360/CVBUWMHO/O	M59	6		20000	35000	22500	3700	70	Coated, Protected		32, 49	119
400 Watts																				
ED37	EX39	O	VBU	400	11.50	7.00	18708	MPR400/VBU/HO/O	M59	6		20000	40000	26000	3400	65	Clear, Protected		49	119
		O	VBU	400	11.50	7.00	13582	MPR400/CVBU/HO/O	M59	6		20000	38000	25000	3200	70	Coated, Protected		49	119
		O	VBU	400	11.50	7.00	46273	MPR400/VBU/XHOPA	M135/M155	6		20000	42000	29500	4000	65	Clear, Protected		43, 49	120
		O	VBU	400	11.50	7.00	46274	MPR400/CVBU/XHOPA	M135/M155	6		20000	40000	28000	3700	70	Coated, Protected		43, 49	120
1000 Watts																				
BT56	EX39	O	VBU	1000	15.37	9.50	41433	MPR1000/VBU/O	M47	6		12000	107000	85500H/25500V	3500	65	Clear, Protected		49	119
Chromafit® Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)																				
250 Watts																				
ED28	E39	E	VBU	250	8.25	5.75	12762	MVR250/VBU/R	S50	12		10000	18500	13900	4500	65	Clear, HPS Retrofit		50	116
		E	VBU	250	8.25	5.75	12769	MVR250/CVBU/R	S50	12		10000	18000	13000	4000	70	Coated, HPS Retrofit		50	116
1000 Watts																				
ED28	E39	E	U	400	8.31	5.00	26851	MVR400/U/ED28/R	S51	12		15000H/20000V	33100H/36000V	20200H/22000V	4000	65	Clear, Compact, HPS Retrofit		49, 50	116
ED37	E39	S	VBU	400	11.50	5.75	12770	MVR400/VBU/R	S51	6		20000	37600	22600	4500	65	Clear, HPS Retrofit		49, 50	122
		S	VBU	400	11.50	5.75	12772	MVR400/CVBU/R	S51	6		20000	35700	21400	4000	70	Coated, HPS Retrofit		49, 50	122
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps)																				
325 Watts																				
ED37	E39	S	U	325	11.50	7.00	10687	MVR325/U/UWM	H33	6		10000H/20000V	25800H/28000V	12200H/28000V	4000	65	Clear, Watt-Miser®	+	49	121
ED37	E39	S	U	325	11.50	7.00	10688	MVR325/C/U/UWM	H33	6		10000H/20000V	24200H/26300V	11800H/21900V	3700	70	Coated, Watt-Miser®	+	49	121
400 Watts																				
ED37	E39	S	U	400	11.50	7.00	43817	MVR400/U/U	H33/M59	6		10000H/15000V	33100H/36000V	22100H/24000V	4000	65	Clear, 400W Mercury Retrofit		49	121
		S	U	400	11.50	7.00	43818	MVR400/C/U/U	H33/M59	6		10000H/15000V	32200H/35000V	19300H/21000V	3700	70	Clear, 400W Mercury Retrofit		49	121

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps) (continued)																				
950 Watts Energy-Saving Replacement for 1000W Mercury																				
BT56	E39	S	VBU	950	15.06	9.50	39097	MVR950/U/VBU	H36/M47	6		12000	100000	62900	3800	65	Coated, Retrofit Watt-Miser®	+	49	121
Saf-T-Gard® Self-Extinguishing Multi-Vapor® Lamps																				
400 Watts																				
ED37	E39	S	U	400	11.50	7.00	11146	MVT400/U/U	H33/M59	6		10000H/15000V	33100H/36000V	22100H/23500V	4000	65	Clear, Retrofit		49	123
		S	U	400	11.50	7.00	11119	MVT400/C/U/U	H33/M59	6		10000H/15000V	32200H/35000V	19300H/23000V	3700	70	Coated, Retrofit		49	123
		S	VBU	400	11.50	7.00	11144	MVT400/VBU	M59	6		20000	41000	26500	4000	65	Clear		49	123
S	VBU	400	11.50	7.00	11145	MVT400/C/VBU	M59	6		20000	41000	26500	3700	70	Coated		49	123		
Arcstream® Metal Halide Lamps																				
70 Watts																				
T6	R7s	E	HCR	70	4.68		34530	ARC70/TD/LVC/730	M85	12		6000	6000	4800	3000	75	Clear			103
		E	HCR	70	4.68		34536	ARC70/TD/LVC/743	M85	12		6000	6000	4800	4300	75	Clear			103
150 Watts																				
T7	R7s	E	HCR	150	5.37		34527	ARC150/TD/730R7s	M81	12		6000	13000	11000	3000	75	Clear			103
		E	HCR	150	5.37		34535	ARC150/TD/742R7s	M81	12		6000	12000	10000	4200	75	Clear			103
T6	G12	E	U	150	3.00	2.25	21053	ARC150T/U/830G12	M81	10		6000	12000	9500	3000	80	Clear			102
		E	U	150	3.00	2.25	21054	ARC150T/U/840G12	M81	10		6000	11500	10500	4000	80	Clear			102
T7	GY9.5	E	BDH	150	1.62	1.12	34813	CS150/CAP/50	M81	10		1000	10000	8000	5000	80	Clear, Disco Lamp			102
250 Watts																				
T15	E39	E	HCR	250	8.37	5.62	26683	ARC250T/H960/E39	M80	12		10000	19000	13300	6000	90	Clear			101
Lucalox® High Pressure Sodium Lamps																				
200 Watts																				
ED18	E39	O	U	200	9.75	5.75	44206	LU200		566	12		24000+	22000	19800	2100	22	Clear		111
250 Watts																				
ED18	E39	O	U	250	9.75	5.75	44047	LU250		550	12		24000+	28000	25200	2100	22	Clear		111
		O	U	250	9.75	5.75	26430	LU250/CP		550	4		24000+	28000	25200	2100	22	Clear, Consumer Pack		111
		O	U	250	9.00	5.00	44051	LU250/D		550	12		24000+	26000	23400	2100	22	Diffuse		111
310 Watts																				
ED18	E39	O	U	310	9.75	5.75	44053	LU310		567	12		24000+	37000	33300	2100	22	Clear		111
400 Watts																				
ED18	E39	O	U	400	9.75	5.75	44054	LU400		551	12		24000+	51000	45000	2100	22	Clear		111
		O	U	400	9.75	5.75	26431	LU400/CP		551	4		24000+	51000	45000	2100	22	Clear, Consumer Pack		111
ED37	E39	O	U	400	11.31	7.00	44056	LU400/D		551	6		24000+	47500	42750	2100	22	Diffuse		111
T7	Rv7s	O	HCR	400	10.12	0	30244	LU400/TD		551	10		24000	43000	37300	2000	25	Clear, Double-Ended Horizontal Burn		111
600 Watts																				
T15	E39	O	U	600	11.06	6.62	27187	LU600/T		5106	12		24000	90000	81000	2000	22	Clear		111
750 Watts																				
ED37	E39	O	U	750	11.50	6.75	14682	LU750		5111	6		24000+	110000	99000	2100	22	Clear		111
1000 Watts																				
T7	Rv7s	O	HCR	1000	13.18		30246	LU1000/TD		552	10		24000	137500	118200	2000	25	Clear, Double-Ended Horizontal Burn		111
Ecolux® High Pressure Sodium Lamps (TCLP Compliant)																				
35 Watts																				
B17	E26	O	U	35	5.43	3.43	11668	LU35/MED/ECO		576	6		16000	2250	2025	1900	22	TCLP Compliant		111
		O	U	35	5.43	3.43	26420	LU35/MED/CP		576	4		16000	2250	2025	1900	22	TCLP Compliant, Consumer Pack		111
50 Watts																				
B17	E26	O	U	50	5.43	3.43	11345	LU50/MED/ECO		568	6		24000+	4000	3600	1900	22	TCLP Compliant		111
		O	U	50	5.43	3.43	26421	LU50/MED/CP		568	4		24000+	4000	3600	1900	22	TCLP Compliant, Consumer Pack		111
B17	E26	O	U	50	5.43	3.43	11347	LU50/D/MED/ECO		568	6		24000+	3800	3420	1900	22	TCLP Compliant, Diffuse		111
ED23.5	E39	O	U	50	7.75	5.00	44975	LU50/H/ECO		568	12		24000+	4000	3600	1900	22	TCLP Compliant		111
		O	U	50	7.75	5.00	26425	LU50/CP		568	4		24000+	4000	3600	1900	22	TCLP Compliant, Consumer Pack		111
		O	U	50	7.75	5.00	49006	LU50/D/H/ECO		568	12		24000+	3800	3420	1900	22	TCLP Compliant, Diffuse		111

3-16

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 3-20).

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High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOI (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Mercury Lamps (continued)																				
175 Watts (continued)																				
R40	E26	O	U	175	7.00		33026	HR175RDXFL39	H39	12		24000+	5700	4350	3900	50	Deluxe White, Reflector WFL, Beam Spread			113
250 Watts																				
ED28	E39	O	U	250	8.25	5.00	24068	HR250A37	H37	12		24000	11000	8250	5700	15	Clear			113
	O	U	250	8.25	5.00	32127	HR250DX37		H37	12		24000	11200	8400	3900	50	Deluxe White			113
400 Watts																				
BT37	E39	O	U	400	11.31	7.00	32113	HR400DX33/BT	H33	6		24000+	22600	14400	3900	50	Deluxe White			113
ED37	E39	O	U	400	11.31	7.00	23974	HR400A33	H33	6		24000	21000	13400	5700	15	Clear			113
	O	U	400	11.31	7.00	23998	HR400DX33		H33	6		24000	22600	14400	3900	50	Deluxe White			113
R52	E39	O	U	400	11.75		33879	HR400RDX33	H33	6		24000+	20800	13400	3900	50	Reflector, Deluxe White, 160 Beam Spread			113
R60	E39	O	U	400	10.12		33938	HR400RDXFL33	H33	6		24000+	15500	8950	3900	50	Reflector WFL, Deluxe White, Clear Face, 110 Beam			113
1000 Watts																				
BT56	E39	O	U	1000	15.06	9.50	24171	HR1000A36	H36	6		24000+	57000	28500	5700	15	Clear		49	113
	O	U	1000	15.06	9.50	24191	HR1000DX36		H36	6		24000+	58000	29000	3900	50	Deluxe White		49	113
	O	U	1000	15.06	9.37	32733	HR1000DX34		H34	6		16000	58300	29200	3900	50	Deluxe White		28,49	113
Saf-T-Gard® Mercury Lamps																				
175 Watts																				
ED28	E39	O	U	175	8.25	5.00	43391	HT175DX39	H39	12		16000	7800	6800	3900	50	Deluxe White			114
400 Watts																				
ED37	E39	O	U	400	11.31	7.00	43363	HT400DX33	H33	6		24000	22600	14400	3900	50	Deluxe White		49	114
E-Z Merc® Self-Ballasted Lamps (Incandescent Retrofit)																				
160 Watts																				
ED24	E26	O	U	160	7.00	4.50	45178	HSB160JM	H87	24		12000	2300	1600	3900	50	Deluxe White		9	115
250 Watts																				
ED28	E26	O	U	250	8.50	5.18	45174	HSB250M	H94	12		12000	5000	3750	3900	50	Deluxe White		9	115
ED28	E39	O	U	250	8.50	5.18	45176	HSB250	H94	12		12000	5000	3750	3900	50	Deluxe White		9	115
450 Watts																				
BT37	E39	O	U	450		7.37	40122	HSB450	B75	6		16000	9100	8280	3900	50	Deluxe White		9,49	115
750 Watts																				
R57	E39	O	U	750	12.75	8.37	44012	HSB750R/120	B78	6		16000	14000	11200	3900	50	Deluxe White, Reflector Flood, 120V, 130 Beam		9,49	115
Export Lamps																				
Metal Halide																				
ED28	E40	E	U	175	8.25	5.00	47762	MVR175/U/40	M57	12		6000H/1000V	11700H/13600V	7400H/8800V	4000	65	Clear			117
	E	U	175	8.25	5.00	47763	MVR175/C/U/40	M57	12			6000H/1000V	11900H/12900V	7900H/8400V	3900	70	Coated			117
	E	U	175	8.25	5.00	44542	MVR250/U/40	M58	12			6000H/1000V	19100H/20800V	12400H/13500V	4200	65	Clear			117
	E	U	250	8.25	5.00	44543	MVR250/C/U/40	M58	12			6000H/1000V	18200H/19800V	11600H/13000V	3900	70	Coated			117
ED37	E40	S	U	400	11.50	7.00	43907	MVR400/U/40	M59	6		15000H/20000V	33100H/36000V	22100H/23500V	4000	65	Clear		49	121
	S	U	400	11.50	7.00	43908	MVR400/C/U/40	M59	6			15000H/20000V	32200H/35000V	19300H/23000V	3700	70	Coated		49	121
	S	VBU	400	11.50	7.00	49860	MVR400/VBU/40	M59	6			20000	41000	26500	4000	65	Clear, Vertical Base Up		49	121
	S	VBU	400	11.50	7.00	49857	MVR400/C/VBU/40	M59	6			20000	41000	25000	3700	70	Coated, Vertical Base Up		49	121
	O	VBU	400	11.50	7.00	27738	MPR400/CVB/U/O/40	M59	6			20000	38000	26000	3200	70	Coated, Vertical Base Up, Protected		49	119
	O	VBU	400	11.50	7.00	18709	MPR400/VBU/O/40	M59	6			20000	40000	26000	3400	65	Clear, Vertical Base Up, Protected		49	119
BT56	E40	S	U	1000	15.37	9.50	41828	MVR1000/U/40	M47	6		11000H/15000V	1002800H/108000V	79000H/86000V	4000	65	Clear		49	121
	S	U	1000	15.37	9.50	41829	MVR1000/C/U/40	M47	6			11000H/15000V	96600H/105000V	73000H/80000V	3700	65	Coated		49	121
Lucalox® High Pressure Sodium																				
ED23.5	E40	O	U	150	7.75	5.00	44044	LU150/S/5/40	S55	12		24000+	16000	14400	2000	22	Clear			111
ED18	E40	O	U	250	9.75	5.75	44048	LU250/40	S50	12		24000+	28000	25200	2100	22	Clear			111
	O	U	400	9.00	5.75	44055	LU400/40	S51	12			24000+	51000	45000	2100	22	Clear			111
E25	E40	O	U	1000	15.06	8.75	44059	LU1000/40	S52	6		24000+	130000	117000	2100	22	Clear			111

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General Information

Fixture Requirements – Lamp Enclosure type

HID lamps have fixture requirements that must be followed. The following three codes identify the appropriate fixture for a particular lamp. Lamps having an "O" code can be operated in an "Open or Enclosed" fixture. Lamps with a "S" code can be used in open fixtures only if operated in a vertical $\pm 15^\circ$ burn position. Lamps in all other burn positions must be suitably enclosed.

O = Open or Enclosed Fixtures

E = Enclosed Fixtures Only

S = Lamps operated in a vertical position (Base Up or Down), $\pm 15^\circ$, can be used in an open fixture. Lamps burned in any other orientation must be used in "enclosed fixtures only."

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) per UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use in Open Fixtures. For lamps operated in the vertical position $\pm 15^\circ$ that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

Protection of Bulbs from Moisture

Outer bulbs of HID lamps are made of heat-resistant glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaries. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

Rated Life

Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value of life expectancy; that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps is expected to be still burning. Where Rated Life is 24,000+ hours, 67% of lamps are expected to be still burning at 24,000 hours. For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened as follows:

5 hrs/start: approx. life 75% of rating

2-1/2 hrs/start: approx. life 56% of rating

1-1/4 hrs/start: approx. life 42% of rating

Lumens – Lumens listed are reference lumens

Rated average lamp lumens are obtained under controlled laboratory conditions in a prescribed burning position. **Initial Reference Lumens** refer to the lamp lumen output after 100-hours burning. **Mean Reference Lumens** refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for HPS and mercury lamps, and at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen ratings.

High Intensity Discharge lighting systems are subject to a wide range of variations which may affect final lighting levels. As a result, lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, line voltage and other

reasons. Care must be taken when choosing a system to consider how these changes can affect your light levels both initially and at the mean lumen point.

Ballasts

HID lamps (except E-Z-Merc®) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts.

All Lucalox®, Mercury, and Metal Halide lamps (except I-Line) will start at ambient temperatures of -22°F (-30°C). I-Line Multi-Vapor® will start at ambient temperatures of 5°F (-15°C) when used on approved mercury ballasts.

Start Characteristics

Full light output does not occur immediately when power is applied. Instead, there is a time delay for the lamp to reach 90% total light output. The starting delay for High Pressure Sodium is 3-4 minutes, for Metal Halide 2-5 minutes, and for Mercury 5-7 minutes.

Restart Characteristics

With a power interruption of a half cycle or more, the arc will extinguish. When power is immediately reappplied, full light output does not occur immediately. For HPS lamps there is a delay of 1 minute to reach 90% total light output; however, Lucalox® LU1000 requires 2 minutes and E-Z Lux® lamps require 3 minutes to reach 90% total light output. For most Metal Halide lamps, including CMH®, when the power is immediately reappplied, there will be a delay of 10 to 17 minutes before the lamps reach the 90% light output level. PulseArc® lamps restrike in <4 minutes. The restart delay for mercury lamps is 3 to 6 minutes to reach 90% total light output.

Operating Positions and Codes

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

U = Universal burning position

HBU = Horizontal -15° to Base Up

HBD = Horizontal $+15^\circ$ to Base Down

HOR = Horizontal $\pm 15^\circ$

HOR PA = $\pm 75^\circ$

HOR $\pm 60^\circ$ = applies to MVR 1650

H45 = Horizontal to $\pm 45^\circ$ only

VBV = Vertical Base Up $\pm 15^\circ$

VBD = Vertical Base Down $\pm 15^\circ$

If no special burn position is noted, the burn position is universal.

HID Color

The color temperature and CRI listed in the tabular data are for reference purposes only. All high intensity discharge lamps exhibit some degree of lamp-to-lamp color variation and shift over life. These characteristics can be increased based on choice of fixture, ballast, burning position, and ambient conditions. Color variation can be greater than normal during the initial 100 hours of burning. Where color consistency is important, consider using ConstantColor® CMH® for better performance. Contact your local GE Lighting representative for more information.

Export Base Lamps (/27 and /40)

Export only lamps have a non-domestic (non-U.S.) base and are not intended for use in the United States due to potential shock hazard. The lamps are identified by "/27" or "/40" at the end of the lamp description and comply with electrical characteristics defined by IEC standards.

High Intensity Discharge Lamps

Operating Notes

CMH® Chromafit™ Metal Halide Lamps

Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.

E-Z Lux® Lamps

These high pressure sodium lamps should be operated only on certain mercury ballasts, as indicated below.

LUH110/EZ: use only with the following types of 125-watt mercury ballasts: high-reactance lag-type autotransformers or 220-volt or greater reactors.

LUH150/EZ: use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH215/EZ: use only with the following types of H37 250-watt mercury ballasts: high reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH360/EZ: use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

Dimming

High Wattage CMH® lamps may be dimmed to 50% of full rated wattage. With dimming, the color shifts to a cooler (higher Kelvin) temperature and CRI decreases. The dimming of 20-150W CMH® lamps is not normally recommended. Large power reductions significantly alter the thermal characteristics of the lamp resulting in color shift. Quartz metal halide and mercury vapor lamps may be dimmed to 50% of full rated wattage. High pressure sodium lamps

MXR32 Metal Halide Lamp and Electronic Ballast

MXR32 lamps must be operated on GE's special, high-power-factor electronic ballast, HAL32/120. Outside dimensions for the ballast are 9-1/4" long, 3-1/8" wide and 1-3/4" high.

Saf-T-Gard® Multi-Vapor® and Saf-T-Gard® Mercury Lamps

Caution: If the outer glass envelope of a Saf-T-Gard® lamp is broken, the arc tube will self-extinguish, but the supporting structure will still be electrically connected. Be sure power is off and the lamp has cooled before removing the lamp to avoid possible electrical shock from contact with the arc tube support and to avoid risk of burn from the hot arc tube.

Arcstream® Metal Halide Lamps

Arcstream® tubular-shaped lamps must be used in suitably enclosed fixtures with UV-absorbing cover glass. Enclosed fixtures must be capable of containing fragments of hot quartz or glass (up to 1100°C) in the unusual event of the outer bulb shattering. Also see complete Warning and Caution Notices on metal halide lamps.

may be dimmed to 35%. For all dimming, the lamp must be started in full-power mode and must be operated in that mode for a minimum of fifteen minutes prior to reduced-power operation. Minimum open circuit voltage must meet ANSI requirements at full-power, during power transition, and in the reduced-power mode to prevent premature cycling (see appropriate ANSI lamp documents for specific minimum OCV requirements). Other application guidelines may apply.

Warning Notices

THE FOLLOWING WARNING NOTICES MUST BE COMPLIED WITH TO HELP AVOID POSSIBLE LAMP RUPTURE. General Electric Company will not be responsible for poor lamp performance, personal injury or property damage resulting from failure to follow these instructions.

HID LAMPS – GENERAL

WARNING

Most HID lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures—as high as approximately 1100°C. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

An arc tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles (as high as 1100°C). There is a risk of personal injury, property damage, burns and fire.

Some lamps are position-sensitive and must only be operated in specified burning positions (see "Additional Information" column in this catalog) with compatible electrical equipment in the types of fixtures prescribed in "Lamp Enclosure Type" on page 3-22 of this catalog.

In addition to the general warnings above, there are specific warnings for the HID lamp types listed below.

Metal Halide Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

In continuously operating systems (24 hours/day, 7 days/week), turn lamps off once per week for at least 15 minutes. FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.

Ceramic metal halide lamps can be operated 24/7.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

High Pressure Sodium Lamps

This is a vacuum jacket lamp and may implode if broken. As a precaution, wear safety glasses and gloves when installing or removing lamp. High pressure sodium lamps are not position-sensitive and may be operated in any burning position.

Mercury Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Mercury lamps are not position-sensitive and may be operated in any burning position.

Low Pressure Sodium Lamps

These lamps contain sodium which will ignite when exposed to water. If lamps are not disposed of properly, there is a risk of fire in the disposal vessel. Consult GE for disposal instructions.

Lamp Enclosure Type

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) in accordance with UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position $\pm 15^\circ$ that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

Footnotes

- 9 Do not use this lamp in fixtures designed for less than rated lamp wattage.
- 14 Life shown is for vertical $+15^\circ$ operation.
- 16 Approximate lumen ratings at 45° burning position: Initial ~ 145,000. Mean ~ 124,000.
- 17 Rated life based on 5 or more burning hours per start.
- 28 Use only 1000-watt H12 or H34-type ballasts. Do not use on 1000-watt H36-type ballasts.
- 32 Lamp will run at 400-watts when used on a linear reactor ballast.
- 33 Rated life based on 11 hours per start.
- 38 Requires a non-ANSI designated ballast with a special, add-on metal halide ignitor. Contact your local GE representative for a list of approved ballasts and ignitors.
- 39 UV Control is a quartz material that effectively cuts UVB and UVC radiation.
- 42 Approximate lumen ratings at 45° burning position: Initial ~ 153,000. Mean ~ 139,000.
- 43 When operated on a 120 hrs. cycle (minimum), lamp life rating may be extended by up to 50% based on engineering estimates.

- 44 Rated life based on 7 hours per start.
- 45 Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs.
- 46 Use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 47 Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 48 Use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.
- 49 Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing.
- 50 Not for use on Magnetic-Regulator or Electronic-Regulator ballast systems to avoid ballast overheating.
- 51 Use only with electronic ballast.
- 52 Use only with approved ballast.

Important Notice

In accordance to Federal Regulations (21 CFR 1040.30), the following notice applies to all lamps in the HID section of this catalog except E-Z Merc self ballasted lamps, High Pressure, Low Pressure Sodium Lamps, Saf-T-Gard® Multi-Vapor Lamps, CMH® MR16, CMH® PAR20 and CMH® PAR30.

R WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

High Intensity Discharge Lamps

Warning and Caution Notices

101 – Arcstream®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury
• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

102 – Arcstream® G12 Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

103 – Arcstream® Rx7s Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use in wet locations
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

104 – CMH® GU6.5, G12 and Mini Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Warning and Caution Notices (continued)

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.

- Do not use where directly exposed to water or outdoors without an enclosed fixture

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

- Use only properly rated ballast

- Do not use beyond rated life

- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

105 – CMH® HW HPS Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs. Does not apply to 250W CMH®

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture

- Use in enclosed luminaire with front cover made of GLASS, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with polymeric lens.

- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

- Do not use beyond rated life

- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

106 – CMH® HW PA Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use GE approved ballast/control gear

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture

- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

- Operate lamp only in specified position

- Do not store flammable materials near/below lamp

- Do not use beyond rated life

- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

107 – CMH® PAR 20-30 MR16 Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

108 – CMH® PAR38 Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.
- Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

109 – CMH® TD Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.
- Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product

- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

- Operate lamp only in specified position
- Do not use beyond rated life

- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

110 – Kolorarc® Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.
- Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product

- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

Warning and Caution Notices (continued)

- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

111 – Lucalox®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Contains sodium—chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

112 – Lucalox® HO

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

Contains sodium—chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

113 – Mercury

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.
- Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85 (HR 1000 only)

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

114 – Mercury Saf-T-Gard®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

115 – Mercury Self-Ballasted

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

116 – QMH E-rated Kr85 and CMH®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week. Does not apply to CMH®.
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

117 – QMH HOR Enclosed Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product

Warning and Caution Notices (continued)

- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not remove base locating pin if so equipped
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

118 – QMH LW Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

119 – QMH Protected

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

120 – QMH Protected Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

121 – QMH S-rated

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

122 – QMH S-rated Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

123 – QMH S-rated Saf-T-Gard®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

124 – Sport 1000W PAR64

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

125 – Sport MBIL-CSI-CID

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Cross-Reference

For the most up-to-date product information, see www.gelighting.com.

For the most up-to-date product information, see www.gelighting.com.

Fluorescent Lamps

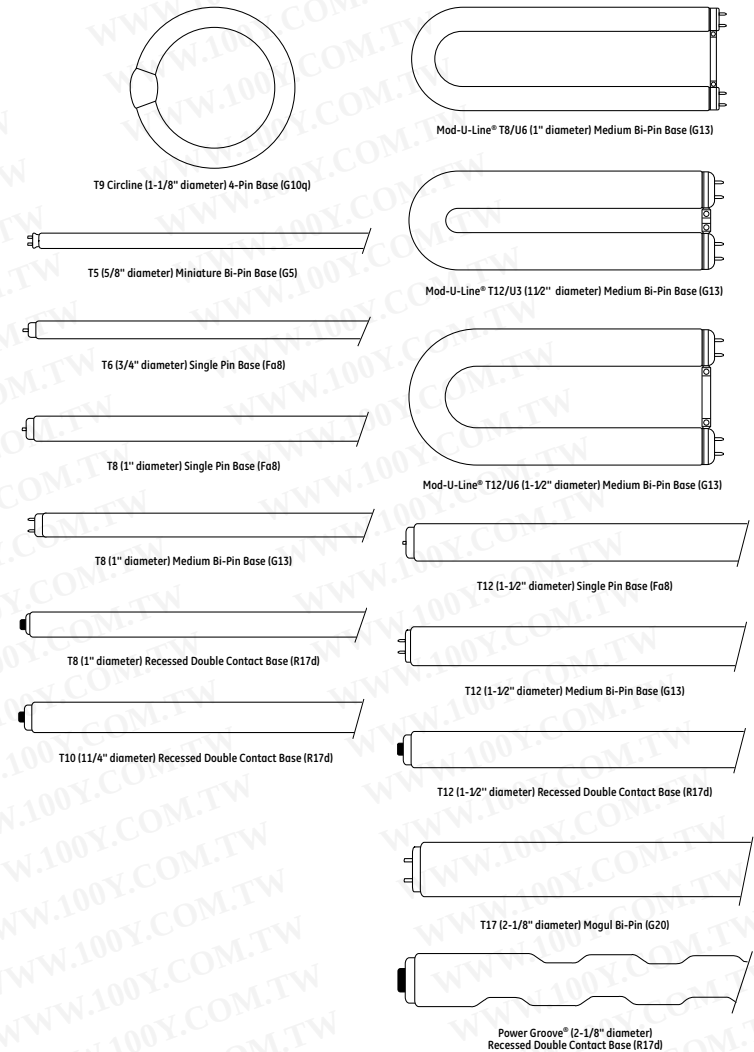
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Fluorescent Lamps

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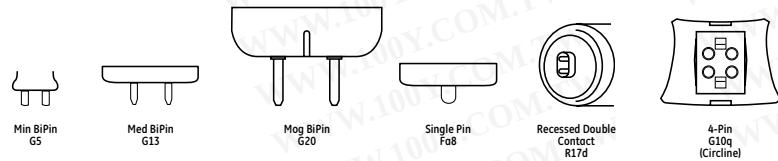
Lamp Locator (not drawn to scale)



For the most up-to-date product information, see www.gelighting.com.

Fluorescent Lamps

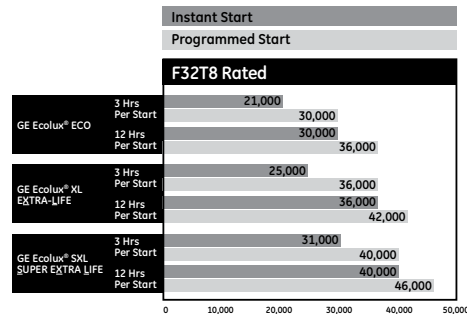
Base Identification



Introduction

GE introduced the first fluorescent lamp in 1939. Today, these lamps have become almost a universal standard in office and other lighting applications. The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- **Low Operating Cost:**
Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy-saving versions often designated in this catalog by Watt-Miser® (WM).
- **Long Life:**
Life ratings for fluorescent lamps range from 6,000 to 36,000 hours based on the industry standard of 3 burning hours per start, except where noted.
- **Light Quality:**
GE Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 92%-95%.
- **Flexibility:**
Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.
- **Fast Starting:**
Rapid Start and Instant Start lamps typically start within 1 second of being turned on.



Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 operating hours. Lamp life is approximately 35% longer @ 3 hours per start and 20% longer @ 12 hours per start on programmed start ballasts as compared to standard instant start ballasts.

GE	OSRAM/SYLVANIA	PHILIPS
Aquarium/Terrarium	—	—
Chroma 50	Design 50®	Colortone 50
covRguard®	—	Tuff Away®
Ecolux®	Ecologic	Alto
Gro & Sho™/Plant & Aquarium	GRO-LUX®	Agro-Lite
Kitchen and Bath ULTRA™	Interior Design® (D30)	Softone Pastel FL (SPEC 30)
Mod-U-Line®	Curvulume®	U-Bent
Power Groove®	—	—
Specification Series (SP)	Designer® Series (D)	SPEC Series
Specification Series (SPX)	Designer® *800* Series	Ultralume™
Starcoat®	—	—
T5	Pentron®	Silhouette™
T8	Octron®	TL70/TL80™
T10/1500MA	VHO/LT	—
/1500	VHO	VHO
Watt-Miser®	SuperSaver®	Econ-o-Watt
Watt-Miser® Plus	SuperSaver Plus®	—
XL	XP	Plus

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications and product offerings should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

See www.gelighting.com e-Catalog for a comprehensive cross-reference tool.

Product Information

GE T5 Starcoat® Ecolux® Lamps (pg 4-8)

- Used in a variety of applications from indirect fixtures in commercial office buildings to warehouses and manufacturing facilities
- Many combinations of wattage and length provide flexibility of fixture design and ceiling layout
- Longer rated life at 30,000 hours
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Ultra Energy Saving T5 Lamps (pg 4-8 to 4-9)

- High Output Watt-Miser®: Over 5% energy savings versus standard Starcoat® T5 HO lamps. Same lumen output. Great for use in high-bay systems.
- High Efficiency Watt-Misers®: Over 5% energy savings versus standard Starcoat® T5 HE lamps. Same lumen output. Available in four different lengths.
- High Lumen T5: 5% greater lumen output versus standard Starcoat® F28W/T5 lamps. Same wattage. Great for new commercial troffers.

- Excellent color rendering – 85 CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE T8 Starcoat® Ecolux® Lamps (pgs 4-9 to 4-10)

- More light over life – 95% lumen maintenance
- Enhanced color rendering...available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Starcoat® Ecolux® XL Extra-Life lamps (pg 4-10)

- Same great features of the T8 Starcoat® Ecolux®...with longer life...up to 20% longer than standard T8 lamps

GE Ultra Energy Saving T8 Lamps 2ft and 3ft T8 Watt-Misers® (pg 4-10)

- New energy-saving alternative to standard 2ft and 3ft T8 lamps. Up to 12% energy savings versus standard F17T8 and/or F25T8 lamps.
- New F17T8/XL/SPX/WM lamp = 15W. New F25T8/XL/SPX/WM lamp = 22W
- Excellent color rendering – 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Ultra Energy Saving T8 Lamps 4ft T8 25 Watt Lamp (pg 4-11)

- Lowest wattage 4ft T8 currently available.
- Long rated life! 36,000+ depending on ballast type and burn cycle
- Operates on any T8 Instant Start ballast; also approved on GE UltraStart® PRS ballast
- Excellent color rendering – 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Ultra Energy Saving T8 Lamps T8 28W UltraMax® (pg 4-11)

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart® PRS Ballast
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE Ultra Energy Saving T8 Lamps T8 30W Watt-Miser® (pg 4-11)

- Energy-saving replacement lamp for all standard T8's on Instant Start Ballast systems
- Up to 5% savings over 32W T8 systems with maintained light levels
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart® PRS Ballast
- Available in XL version – 20% longer life than standard T8 lamps
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE Ultra Energy Saving T8 Lamps T8 32W High Lumen Lamps (HL) (pg 4-11)

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 20% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE 8' T8 Lamps (pg 4-11)

- One of the most efficient fluorescent products available, up to 97 lumens per watt (LPW)
- Single-pin based lamps designed to operate on Instant Start Ballast
- Available in longer life (XL) versions...up to 17% longer life

GE 8' T8 Watt-Miser® (XL) Extra-Life Lamps (Energy Savings Alternative) (pg 4-12)

- Extra-life...lasts 17% longer than standard F96T8 lamps for reduced lamp replacement and maintenance cost
- Maximum energy savings...up to 3.5% less energy consumed than standard F96T8 lamps
- Same light output as standard lamps
- Excellent color...color-enhanced SP and SPX versions
- Watt-Miser® Plus lamp reduces wattage to 54W per lamp

GE 8' T8 High Output Lamps (pg 4-12)

- High system efficiency delivers 38% energy cost savings
- 50% longer life than T12 high output lamps
- Wide choice of color options
- Operate at 400mA

GE T8 Mod-U-Line® U-Shaped Fluorescent Lamps (pg 4-12)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Lower energy cost...36% energy cost savings vs. F40T12 U-Tubes
- New Watt-Miser® version saves even more money!
- Longer lamp life than T12 Mod-U-Line® – 20,000 hours
- 700 and 800 Series

Fluorescent Lamps

gelighting.com

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
TS Starcoat® Ecolux® Lamps																			
TS High Efficiency																			
TS	Miniature Bi-Pin (G5)	14	21.6	31590	F14W/TS/R30/ECO	40	30000	36000	1350	1240	3000	85	☑				19	101	
		14	21.6	46671	F14W/TS/R35/ECO	40	30000	36000	1350	1240	3500	85	☑				19	101	
		14	21.6	46673	F14W/TS/R41/ECO	40	30000	36000	1350	1240	4100	85	☑				19	101	
		14	21.6	46674	F14W/TS/R50/ECO	40	30000	36000	1300	1190	5000	85	☑				19	101	
		14	21.6	46676	F14W/TS/R65/ECO	40	30000	36000	1250	1150	6500	85	☑				19	101	
		21	33.4	46677	F21W/TS/R30/ECO	40	30000	36000	2100	1930	3000	85	☑				19	101	
		21	33.4	46684	F21W/TS/R35/ECO	40	30000	36000	2100	1930	3500	85	☑				19	101	
		21	33.4	46687	F21W/TS/R41/ECO	40	30000	36000	2100	1930	4100	85	☑				19	101	
		21	33.4	46688	F21W/TS/R50/ECO	40	30000	36000	2000	1840	5000	85	☑				19	101	
		21	33.4	46689	F21W/TS/R65/ECO	40	30000	36000	1950	1790	6500	85	☑				19	101	
		28	45.2	46704	F28W/TS/R30/ECO	40	30000	36000	2900	2660	3000	85	☑				19	101	
		28	45.2	46705	F28W/TS/R35/ECO	40	30000	36000	2900	2660	3500	85	☑				19	101	
		28	45.2	46706	F28W/TS/R41/ECO	40	30000	36000	2900	2660	4100	85	☑				19	101	
		28	45.2	46707	F28W/TS/R50/ECO	40	30000	36000	2750	2530	5000	85	☑				19	101	
		28	45.2	46708	F28W/TS/R65/ECO	40	30000	36000	2700	2480	6500	85	☑				19	101	
		35	57.1	46724	F35W/TS/R30/ECO	40	30000	36000	3650	3350	3000	85	☑				19	101	
		35	57.1	46727	F35W/TS/R35/ECO	40	30000	36000	3650	3350	3500	85	☑				19	101	
		35	57.1	46735	F35W/TS/R41ECO	40	30000	36000	3650	3350	4100	85	☑				19	101	
		35	57.1	46742	F35W/TS/R50/ECO	40	30000	36000	3500	3220	5000	85	☑				19	101	
		35	57.1	46743	F35W/TS/R65/ECO	40	30000	36000	3400	3120	6500	85	☑				19	101	
TS High Output																			
TS	Miniature Bi-Pin (G5)	24	21.6	46699	F24W/TS/R30/ECO	40	30000	36000	2000	1840	3000	85	☑				19	101	
		24	21.6	46700	F24W/TS/R35/ECO	40	30000	36000	2000	1840	3500	85	☑				19	101	
		24	21.6	46701	F24W/TS/R41/ECO	40	30000	36000	2000	1840	4100	85	☑				19	101	
		24	21.6	46702	F24W/TS/R50/ECO	40	30000	36000	1900	1740	5000	85	☑				19	101	
		24	21.6	46703	F24W/TS/R65/ECO	40	30000	36000	1880	1740	6500	85	☑				19	101	
		39	33.4	46744	F39W/TS/R30/ECO	40	30000	36000	3500	3220	3000	85	☑				19	101	
		39	33.4	46745	F39W/TS/R35/ECO	40	30000	36000	3500	3220	3500	85	☑				19	101	
		39	33.4	46746	F39W/TS/R41/ECO	40	30000	36000	3500	3220	4100	85	☑				19	101	
		39	33.4	46747	F39W/TS/R50/ECO	40	30000	36000	3350	3080	5000	85	☑				19	101	
		39	33.4	46748	F39W/TS/R65/ECO	40	30000	36000	3330	3060	6500	85	☑				19	101	
		54	45.2	46759	F54W/TS/R30/ECO	40	30000	36000	5000	4600	3000	85	☑				19	101	
		54	45.2	46760	F54W/TS/R35/ECO	40	30000	36000	5000	4600	3500	85	☑				19	101	
		54	45.2	46761	F54W/TS/R41/ECO	40	30000	36000	5000	4600	4100	85	☑				19	101	
		54	45.2	46762	F54W/TS/R50/ECO	40	30000	36000	4800	4410	5000	85	☑				19	101	
		54	45.2	46763	F54W/TS/R65/ECO	40	30000	36000	4750	4370	6500	85	☑				19	101	
		80	57.1	46802	F80W/TS/R30/ECO	40	30000	36000	7000	6440	3000	85	☑				19	101	
		80	57.1	46803	F80W/TS/R35/ECO	40	30000	36000	7000	6440	3500	85	☑				19	101	
		80	57.1	46804	F80W/TS/R41/ECO	40	30000	36000	7000	6440	4100	85	☑				19	101	
		80	57.1	46805	F80W/TS/R50/ECO	40	30000	36000	6700	6160	5000	85	☑				19	101	
		80	57.1	46806	F80W/TS/R65/ECO	40	30000	36000	6650	6110	6500	85	☑				19	101	
Ultra Energy Saving TS Lamps																			
TS High Efficiency Watt-Miser®																			
TS	Miniature Bi-Pin (G5)	13	21.6	71632	F13T5/R30/WM/ECO	40	25000	30000	1350	1240	3000	85	☑	\$	+		19	101	
		13	21.6	71633	F13T5/R35/WM/ECO	40	25000	30000	1350	1240	3500	85	☑	\$	+		19	101	
		13	21.6	71634	F13T5/R41/WM/ECO	40	25000	30000	1350	1240	4100	85	☑	\$	+		19	101	
		13	21.6	71635	F13T5/R50/WM/ECO	40	25000	30000	1300	1190	5000	85	☑	\$	+		19	101	
		13	21.6	71636	F13T5/R65/WM/ECO	40	25000	30000	1250	1150	6500	85	☑	\$	+		19	101	
		20	33.4	71637	F21T5/R30/WM/ECO	40	25000	30000	2100	1930	3000	85	☑	\$	+		19	101	
		20	33.4	71638	F21T5/R35/WM/ECO	40	25000	30000	2100	1930	3500	85	☑	\$	+		19	101	
		20	33.4	71639	F21T5/R41/WM/ECO	40	25000	30000	2100	1930	4100	85	☑	\$	+		19	101	
		20	33.4	71640	F21T5/R50/WM/ECO	40	25000	30000	2000	1840	5000	85	☑	\$	+		19	101	
		20	33.4	71641	F21T5/R65/WM/ECO	40	25000	30000	1950	1790	6500	85	☑	\$	+		19	101	
		26	45.2	71642	F28T5/R30/WM/ECO	40	25000	30000	2900	2660	3000	85	☑	\$	+		19	101	
		26	45.2	71643	F28T5/R35/WM/ECO	40	25000	30000	2900	2660	3500	85	☑	\$	+		19	101	
		26	45.2	71644	F28T5/R41/WM/ECO	40	25000	30000	2900	2660	4100	85	☑	\$	+		19	101	
		26	45.2	71645	F28T5/R50/WM/ECO	40	25000	30000	2750	2530	5000	85	☑	\$	+		19	101	
		26	45.2	71646	F28T5/R65/WM/ECO	40	25000	30000	2700	2480	6500	85	☑	\$	+		19	101	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information	
Ultra Energy Saving T5 Lamps (continued)																				
T5 High Efficiency Watt-Miser® (continued)																				
T5	Miniature Bi-pin (G5)	33	57.1	71647	F33T5/830/WM/ECO	40	25000	30000	3650	3350	3000	85	☑	\$	+		19	101		
		33	57.1	71648	F33T5/835/WM/ECO	40	25000	30000	3650	3350	3500	85	☑	\$	+		19	101		
		33	57.1	71649	F33T5/841/WM/ECO	40	25000	30000	3650	3350	4100	85	☑	\$	+		19	101		
		33	57.1	71650	F33T5/850/WM/ECO	40	25000	30000	3500	3220	5000	85	☑	\$	+		19	101		
		33	57.1	71651	F33T5/865/WM/ECO	40	25000	30000	3400	3120	6500	85	☑	\$	+		19	101		
T5 High Output Watt-Miser®																				
T5	Miniature Bi-Pin (G5)	51	45.2	71627	F54T5/830/WM/ECO	40	25000	30000	5000	4600	3000	85	☑	\$	+		19	101		
		51	45.2	71628	F54T5/835/WM/ECO	40	25000	30000	5000	4600	3500	85	☑	\$	+		19	101		
		51	45.2	71629	F54T5/841/WM/ECO	40	25000	30000	5000	4600	4100	85	☑	\$	+		19	101		
		51	45.2 cm	71630	F54T5/850/WM/ECO	40	25000	30000	4790	4410	5000	85	☑	\$	+		19	101		
		51	45.2	71631	F54T5/865/WM/ECO	40	25000	30000	4750	4370	6500	85	☑	\$	+		19	101		
T5 High Lumen																				
T5	Miniature Bi-Pin (G5)	28	45.2 cm	71652	F28WT5/830/HJ/ECO	40	20000	24000	3050	2810	3000	85	☑	\$				19	101	
		28	45.2 cm	71653	F28WT5/835/HJ/ECO	40	20000	24000	3050	2810	3500	85	☑	\$				19	101	
		28	45.2 cm	71654	F28WT5/841/HJ/ECO	40	20000	24000	3050	2810	4100	85	☑	\$				19	101	
		28	45.2 cm	71655	F28WT5/850/HJ/ECO	40	20000	24000	2900	2670	5000	85	☑	\$				19	101	
		28	45.2 cm	71656	F28WT5/865/HJ/ECO	40	20000	24000	2850	2620	6500	85	☑	\$				19	101	
T5 Preheat Lamps																				
6" T5																				
T5	Miniature Bi-Pin (G5)	4	6.0	10004	F4T5/CW	24	5000		135	100	4100	60						101		
		4	6.0	15983	F4T5/CW CARD	10	5000		135	100	4100	60						101		
		4	6.0	29089	F4T5/WW/CD	10	5000		140	105	3000	52						101		
9" T5																				
T5	Miniature Bi-Pin (G5)	6	9.0	10032	F6T5/CW	24	5000		295	235	4100	60						101		
		6	9.0	15986	F6T5/CW CARD	10	5000		295	235	4100	60						101		
		6	9.0	90062	F6T5/N/CW	24	8000		260	210	4100	60						101		
		6	9.0	10028	F6T5/D	24	5000		230	185	6500	75	☑					101		
12" T5																				
T5	Miniature Bi-Pin (G5)	8	12.0	10059	F8T5/CW	24	5000		400	320	4100	60						101		
		8	12.0	15987	F8T5/CW CARD	10	5000		400	320	4100	60						101		
		8	12.0	90063	F8T5/N/CW	24	8000		400	320	4100	60						101		
		8	12.0	10055	F8T5/D	24	5000		330	265	6500	75	☑					101		
		8	12.0	10064	F8T5/WW	24	5000		410	330	3000	52						101		
		8	12.0	25425	F8T5/WW/CARD	5	5000		410	330	3000	52						101		
21" T5																				
T5	Miniature Bi-Pin (G5)	13	21.0	10086	F13T5/CW	24	5000		850	705	4100	60						101		
		13	21.0	49333	F13T5/CW/CD	5	5000		850	705	4100	60						101		
		13	21.0	90064	F13T5/N/CW	24	8000		830	690	4100	60						101		
		13	21.0	10089	F13T5/WW	24	5000		870	720	3000	52						101		
		13	21.0	25426	F13T5/WW/CARD	5	5000		870	720	3000	52						101		
T8 Starcoat® Lamps																				
2" T8 Ecolux®																				
T8	Medium Bi-Pin (G13)	17	24.0	45741	F17T8/SP30/ECO	24	20000	24000	1325	1260	3000	78	☑					18	101	
		17	24.0	45743	F17T8/SP35/ECO	24	20000	24000	1325	1260	3500	78	☑					18	101	
		17	24.0	45748	F17T8/SP41/ECO	24	20000	24000	1325	1260	4100	78	☑					18	101	
		17	24.0	45742	F17T8/SPX30/ECO	24	20000	24000	1350	1280	3000	86	☑					18	101	
		17	24.0	45747	F17T8/SPX35/ECO	24	20000	24000	1350	1280	3500	86	☑					18	101	
		17	24.0	45749	F17T8/SPX41/ECO	24	20000	24000	1350	1280	4100	86	☑					18	101	
2" T8 Ecolux® XL Extra-life																				
T8	Medium Bi-Pin (G13)	17	24.0	15476	F17T8/L/SP30/ECO	24	24000	29000	1325	1260	3000	78	☑					18	101	
		17	24.0	15479	F17T8/L/SP35/ECO	24	24000	29000	1325	1260	3500	78	☑					18	101	
		17	24.0	15480	F17T8/L/SP41/ECO	24	24000	29000	1325	1260	4100	78	☑					18	101	
		17	24.0	15481	F17T8/L/SPX30/ECO	24	24000	29000	1350	1280	3000	86	☑					18	101	
		17	24.0	15483	F17T8/L/SPX35/ECO	24	24000	29000	1350	1280	3500	86	☑					18	101	
		17	24.0	15484	F17T8/L/SPX41/ECO	24	24000	29000	1350	1280	4100	86	☑					18	101	
		17	24.0	10415	F17T8/N/SPX60/ECO	24	24000	29000	1300	1235	5000	86	☑					18	101	
		17	24.0	16092	F17T8/N/SPX65/ECO	24	24000	29000	1250	1125	6500	85	☑					18	101	

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot- notes	Warning and Caution Notices	Additional Information
T8 Starcoat® Lamps (continued)																			
3" T8 Ecolux®																			
T8	Medium Bi-Pin (G13)	25	36.0	45750	F25T8/SP30/ECO	24	20000	24000	2080	1970	3000	78	☑				18	101	
		25	36.0	45754	F25T8/SP35/ECO	24	20000	24000	2080	1970	3500	78	☑				18	101	
		25	36.0	45756	F25T8/SP41/ECO	24	20000	24000	2080	1970	4100	78	☑				18	101	
		25	36.0	45753	F25T8/SPK30/ECO	24	20000	24000	2150	2040	3000	86	☑				18	101	
		25	36.0	45755	F25T8/SPK35/ECO	24	20000	24000	2150	2040	3500	86	☑				18	101	
		25	36.0	45757	F25T8/SPK41/ECO	24	20000	24000	2150	2040	4100	86	☑				18	101	
3" T8 Ecolux® XL Extra-life																			
T8	Medium Bi-Pin (G13)	25	36.0	15486	F25T8/XL/SP30/ECO	24	24000	29000	2080	1970	3000	78	☑				18	101	
		25	36.0	15487	F25T8/XL/SP35/ECO	24	24000	29000	2080	1970	3500	78	☑				18	101	
		25	36.0	15488	F25T8/XL/SP41/ECO	24	24000	29000	2080	1970	4100	78	☑				18	101	
		25	36.0	15489	F25T8/XL/SPK30/ECO	24	24000	29000	2150	2040	3000	86	☑				18	101	
		25	36.0	15490	F25T8/XL/SPK35/ECO	24	24000	29000	2150	2040	3500	86	☑				18	101	
		25	36.0	15491	F25T8/XL/SPK41/ECO	24	24000	29000	2150	2040	4100	86	☑				18	101	
		25	36.0	10416	F25T8/XL/SPK50/ECO	24	24000	29000	2050	1950	5000	86	☑				18	101	
		25	36.0	16314	F25T8/XL/SPK65/ECO	24	24000	29000	1950	1755	6500	85	☑				18	101	
4" T8 Ecolux®																			
T8	Medium Bi-Pin (G13)	32	48.0	26666	F32T8/SP30/ECO	36	30000	36000	2800	2660	3000	78	☑				Ⓢ	18	101
		32	48.0	26667	F32T8/SP35/ECO	36	30000	36000	2800	2660	3500	78	☑				Ⓢ	18	101
		32	48.0	26668	F32T8/SP41/ECO	36	30000	36000	2800	2660	4100	78	☑				Ⓢ	18	101
		32	48.0	16090	F32T8/SP50/ECO	36	30000	36000	2750	2610	5000	78	☑				Ⓢ	18	101
		32	48.0	16091	F32T8/SP65/ECO	36	30000	36000	2700	2565	6500	78	☑				Ⓢ	18	101
		32	48.0	25611	F32T8/SPK30/ECO	36	30000	36000	2950	2800	3000	86	☑				Ⓢ	18	101
		32	48.0	25612	F32T8/SPK35/ECO	36	30000	36000	2950	2800	3500	86	☑				Ⓢ	18	101
		32	48.0	25613	F32T8/SPK41/ECO	36	30000	36000	2950	2800	4100	86	☑				Ⓢ	18	101
		32	48.0	42064	F32T8/SPK50/ECO	36	30000	36000	2800	2660	5000	86	☑				Ⓢ	18	101
		32	48.0	42064	F32T8/SPK50/ECO	36	30000	36000	2800	2660	5000	86	☑				Ⓢ	18	101
4" T8 Ecolux® XL Extra-life																			
T8	Medium Bi-Pin (G13)	32	48.0	27616	F32T8/XL/SP30/ECO	36	36000	42000	2800	2660	3000	78	☑				Ⓢ	18	101
		32	48.0	27617	F32T8/XL/SP35/ECO	36	36000	42000	2800	2660	3500	78	☑				Ⓢ	18	101
		32	48.0	27618	F32T8/XL/SP41/ECO	36	36000	42000	2800	2660	4100	78	☑				Ⓢ	18	101
		32	48.0	27619	F32T8/XL/SPK30/ECO	36	36000	42000	2950	2800	3000	86	☑				Ⓢ	18	101
		32	48.0	27620	F32T8/XL/SPK35/ECO	36	36000	42000	2950	2800	3500	86	☑				Ⓢ	18	101
		32	48.0	27621	F32T8/XL/SPK41/ECO	36	36000	42000	2950	2800	4100	86	☑				Ⓢ	18	101
		32	48.0	16313	F32T8/XL/SPK50/ECO	36	36000	42000	2800	2660	5000	86	☑				Ⓢ	18	101
		32	48.0	16089	F32T8/XL/SPK65/ECO	36	36000	42000	2750	2475	6500	85	☑				Ⓢ	18	101
4" T8 Ecolux® Super Long Life																			
T8	Medium Bi-Pin (G13)	32	48.0	73093	F32T8/XL/SPK30/ECO	36	40000	46000	2850	2675	3000	84	☑				Ⓢ	18	101
		32	48.0	73094	F32T8/XL/SPK35/ECO	36	40000	46000	2850	2675	3500	83	☑				Ⓢ	18	101
		32	48.0	73095	F32T8/XL/SPK41/ECO	36	40000	46000	2850	2675	4100	81	☑				Ⓢ	18	101
		32	48.0	73096	F32T8/XL/SPK50/ECO	36	40000	46000	2800	2630	5000	80	☑				Ⓢ	18	101
Ultra Energy Saving T8 Lamps																			
2" T8 Ecolux® Watt-Miser® 15 Watt Lamp																			
T8	Medium Bi-Pin (G13)	15	24.0	72132	F17T8/XL/SPK30/WM/ECO	24	24000	29000	1200	1130	3000	85	☑	\$	+		1.18	101	
		15	24.0	72133	F17T8/XL/SPK35/WM/ECO	24	24000	29000	1200	1130	3500	85	☑	\$	+		1.18	101	
		15	24.0	72134	F17T8/XL/SPK41/WM/ECO	24	24000	29000	1200	1130	4100	82	☑	\$	+		1.18	101	
		15	24.0	72135	F17T8/XL/SPK50/WM/ECO	24	24000	29000	1175	1105	5000	80	☑	\$	+		1.18	101	
3" T8 Ecolux® Watt-Miser® 22 Watt Lamp																			
T8	Medium Bi-Pin (G13)	22	36.0	72136	F25T8/XL/SPK30/WM/ECO	24	24000	29000	1925	1810	3000	85	☑	\$	+		1.18	101	
		22	36.0	72137	F25T8/XL/SPK35/WM/ECO	24	24000	29000	1925	1810	3500	85	☑	\$	+		1.18	101	
		22	36.0	72138	F25T8/XL/SPK41/WM/ECO	24	24000	29000	1925	1810	4100	82	☑	\$	+		1.18	101	
		22	36.0	72139	F25T8/XL/SPK50/WM/ECO	24	24000	29000	1900	1785	5000	80	☑	\$	+		1.18	101	

Rated life for 2 ft through 4 ft Starcoat® Ecolux® Medium Bi-Pin T8 lamps is determined on programmed start ballasts. Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start ballasts (see chart on page 4-4).

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 4-32).

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot-notes	Warning and Caution Notices	Additional Information
Ultra Energy Saving T8 Lamps (continued)																			
4" T8 Ecolux® 25 Watt Lamp																			
T8	Medium Bi-Pin (G13)	25	48.0	72128	F32T8/25W/SPK30/ECO	36	40000	46000	2400	2256	3000	85	☑	\$	+	Ⓢ	1.18	101	
		25	48.0	72129	F32T8/25W/SPK35/ECO	36	40000	46000	2400	2256	3500	85	☑	\$	+	Ⓢ	1.18	101	
		25	48.0	72130	F32T8/25W/SPK41/ECO	36	40000	46000	2400	2256	4100	85	☑	\$	+	Ⓢ	1.18	101	
		25	48.0	72131	F32T8/25W/SPK50/ECO	36	40000	46000	2350	2209	5000	80	☑	\$	+	Ⓢ	1.18	101	
4" T8 Ecolux® UltraMax® 28 Watt Lamp																			
T8	Medium Bi-Pin (G13)	28	48.0	72863	F28T8/XL/SPK30/ECO	36	36000	42000	2725	2562	3000	85	☑	\$	+	Ⓢ	1.18	101	
		28	48.0	72864	F28T8/XL/SPK35/ECO	36	36000	42000	2725	2562	3500	85	☑	\$	+	Ⓢ	1.18	101	
		28	48.0	72866	F28T8/XL/SPK41/ECO	36	36000	42000	2725	2562	4100	82	☑	\$	+	Ⓢ	1.18	101	
		28	48.0	72867	F28T8/XL/SPK50/ECO	36	36000	42000	2625	2463	5000	80	☑	\$	+	Ⓢ	1.18	101	
4" T8 Ecolux® Watt-Miser® 30 Watt Lamp																			
T8	Medium Bi-Pin (G13)	30	48.0	48277	F32T8/SP30/IS/WM/ECO	36	30000	36000	2850	2675	3000	84	☑	\$	+	Ⓢ	1.18	101	
		30	48.0	48278	F32T8/SP35/IS/WM/ECO	36	30000	36000	2850	2675	3500	83	☑	\$	+	Ⓢ	1.18	101	
		30	48.0	48279	F32T8/SP41/IS/WM/ECO	36	30000	36000	2850	2675	4100	81	☑	\$	+	Ⓢ	1.18	101	
		30	48.0	11791	F32T8/SP50/IS/WM/ECO	36	30000	36000	2750	2585	5000	80	☑	\$	+	Ⓢ	1.18	101	
4" T8 Ecolux® Watt-Miser® XL Extra-Life 30 Watt Lamp																			
T8	Medium Bi-Pin (G13)	30	48.0	48521	F32T8/XL/SP30/WM/ECO	36	36000	42000	2800	2625	3000	84	☑	\$	+	Ⓢ	1.18	101	
		30	48.0	48522	F32T8/XL/SP35/WM/ECO	36	36000	42000	2800	2625	3500	83	☑	\$	+	Ⓢ	1.18	101	
		30	48.0	48523	F32T8/XL/SP41/WM/ECO	36	36000	42000	2800	2625	4100	81	☑	\$	+	Ⓢ	1.18	101	
		30	48.0	42553	F32T8/XL/SP50/WM/ECO	36	36000	42000	2700	2540	5000	80	☑	\$	+	Ⓢ	1.18	101	
4" T8 Ecolux® High Lumen																			
T8	Medium Bi-Pin (G13)	32	48.0	10327	F32T8/XL/SPK30/HL/ECO	36	36000	42000	3100	2915	3000	85	☑	\$		Ⓢ	18	101	
		32	48.0	10326	F32T8/XL/SPK35/HL/ECO	36	36000	42000	3100	2915	3500	85	☑	\$		Ⓢ	18	101	
		32	48.0	10322	F32T8/XL/SPK41/HL/ECO	36	36000	42000	3100	2915	4100	82	☑	\$		Ⓢ	18	101	
		32	48.0	42556	F32T8/XL/SPK50/HL/ECO	36	36000	42000	3000	2820	5000	80	☑	\$		Ⓢ	18	101	
8" T8 Lamps																			
8" T8																			
T8	Single Pin (F8)	59	96.0	23407	F96T8/SP30	24	15000	20000	5800	5500	3000	78	☑			Ⓢ		101	
		59	96.0	23411	F96T8/SP35	24	15000	20000	5800	5500	3500	78	☑			Ⓢ		101	
		59	96.0	23412	F96T8/SP41	24	15000	20000	5800	5500	4100	78	☑			Ⓢ		101	
		59	96.0	23414	F96T8/SPK30	24	15000	20000	5950	5650	3000	86	☑			Ⓢ		101	
		59	96.0	23415	F96T8/SPK35	24	15000	20000	5950	5650	3500	86	☑			Ⓢ		101	
		59	96.0	23416	F96T8/SPK41	24	15000	20000	5950	5650	4100	86	☑			Ⓢ		101	
59	96.0	23575	F96T8/SPK50	24	15000	20000	5950	5650	5000	86	☑			Ⓢ		101			
8" T8 Ecolux®																			
T8	Single Pin (F8)	59	96.0	28105	F96T8/SP30/ECO	24	15000	20000	5700	5130	3000	75	☑			Ⓢ		101	
		59	96.0	28106	F96T8/SP35/ECO	24	15000	20000	5700	5130	3500	75	☑			Ⓢ		101	
		59	96.0	28125	F96T8/SP41/ECO	24	15000	20000	5700	5130	4100	75	☑			Ⓢ		101	
8" T8 XL Extra-Life																			
T8	Single Pin (F8)	59	96.0	41889	F96T8/XL/SP30	24	24000	29000	5800	5500	3000	78	☑			Ⓢ		101	
		59	96.0	41890	F96T8/XL/SP35	24	24000	29000	5800	5500	3500	78	☑			Ⓢ		101	
		59	96.0	41891	F96T8/XL/SP41	24	24000	29000	5800	5500	4100	78	☑			Ⓢ		101	
		59	96.0	41892	F96T8/XL/SPK30	24	24000	29000	5950	5650	3000	86	☑			Ⓢ		101	
		59	96.0	41893	F96T8/XL/SPK35	24	24000	29000	5950	5650	3500	86	☑			Ⓢ		101	
		59	96.0	41894	F96T8/XL/SPK41	24	24000	29000	5950	5650	4100	86	☑			Ⓢ		101	
59	96.0	45497	F96T8/XL/SPK50	24	24000	29000	5950	5650	5000	86	☑			Ⓢ		101			

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (1hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
8" T8 Lamps (continued)																			
8" T8 XL Extra-Life Watt-Miser® Energy Saving Lamps																			
T8	Single Pin (FoS)	57	96.0	48524	F96T8/XL/SP30/WM	24	24000	29000	5800	5450	3000	84	☑	\$	→	Ⓢ	1	101	
		57	96.0	48525	F96T8/XL/SP35/WM	24	24000	29000	5800	5450	3500	83	☑	\$	→	Ⓢ	1	101	
		57	96.0	48526	F96T8/XL/SP41/WM	24	24000	29000	5800	5450	4100	81	☑	\$	→	Ⓢ	1	101	
8" T8 XL Extra-Life Watt-Miser® Plus Energy Saving Lamps																			
T8	Single Pin (FoS)	54	96.0	47072	F96T8/XL/SP30WMP	24	24000	29000	5800	5450	3000	84	☑	\$	→	Ⓢ	1	101	
		54	96.0	47076	F96T8/XL/SP35WMP	24	24000	29000	5800	5450	3500	83	☑	\$	→	Ⓢ	1	101	
		54	96.0	47103	F96T8/XL/SP41WMP	24	24000	29000	5800	5450	4100	81	☑	\$	→	Ⓢ	1	101	
8" T8 Instant Start																			
T8	Single Pin (FoS)	50	96.0	10912	F96T8/CW	24	7500		4050	3730	4100	60						101	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
8" T8 High Output																		
8" T8 High Output - Recessed Double Contact																		
T8	Recessed Double Contact (R17d)	86	96.0	12536	F96T8/SP30/HO	24	18000	8000	7600	3000	78	☑					101	
		86	96.0	12537	F96T8/SP35/HO	24	18000	8000	7600	3500	78	☑					101	
		86	96.0	12538	F96T8/SP41/HO	24	18000	8000	7600	4100	78	☑					101	
		86	96.0	12533	F96T8/SPK35/HO	24	18000	8200	7800	3500	86	☑					101	
		86	96.0	12534	F96T8/SPK41/HO	24	18000	8200	7800	4100	86	☑					101	
		86	96.0	12535	F96T8/SPK50/HO	24	18000	8200	7800	5000	86	☑					101	
T8 Mod-U-Line®																		
T8 1-5/8" Spacing																		
T8	Medium Bi-Pin (G13)	31	22.5	41776	F31T8/SPK30/U	15	20000	2725	2500	3000	82	☑					102	
		31	22.5	41777	F31T8/SPK35/U	15	20000	2725	2500	3500	82	☑					102	
		31	22.5	41778	F31T8/SPK41/U	15	20000	2725	2500	4100	82	☑					102	
T8 1-5/8" Spacing Ecolux®																		
T8	Medium Bi-Pin (G13)	31	22.5	72117	F31T8SPK30/U/ECO	15	24000	2775	2636	3000	85	☑					102	
		31	22.5	72118	F31T8SPK35/U/ECO	15	24000	2775	2636	3500	85	☑					102	
		31	22.5	72119	F31T8SPK41/U/ECO	15	24000	2775	2636	4100	85	☑					102	
T8 6" Spacing																		
T8	Medium Bi-Pin (G13)	32	22.5	10479	F32T8/SP30/U/6	12	20000	2700	2565	3000	78	☑			Ⓢ		102	
		32	22.5	23585	F32T8/SP35/U/6	12	20000	2700	2565	3500	78	☑			Ⓢ		102	
		32	22.5	10480	F32T8/SP41/U/6	12	20000	2700	2565	4100	78	☑			Ⓢ		102	
		32	22.5	10483	F32T8/SPK30/U/6	12	20000	2800	2630	3000	86	☑			Ⓢ		102	
		32	22.5	10485	F32T8/SPK35/U/6	12	20000	2800	2630	3500	86	☑			Ⓢ		102	
		32	22.5	10488	F32T8/SPK41/U/6	12	20000	2800	2630	4100	86	☑			Ⓢ		102	
		32	22.5	10489	F32T8/SPK50/U/6	12	20000	2660	2510	5000	86	☑			Ⓢ		102	
T8 6" Spacing Ecolux®																		
T8	Medium Bi-Pin (G13)	32	22.5	28145	F32T8/SP30/U/6/ECO	12	20000	2700	2565	3000	78	☑			Ⓢ		102	
		32	22.5	28149	F32T8/SP35/U/6/ECO	12	20000	2700	2565	3500	78	☑			Ⓢ		102	
		32	22.5	28152	F32T8/SP41/U/6/ECO	12	20000	2700	2565	4100	78	☑			Ⓢ		102	
		32	22.5	72111	F32T8/SPK30/U/6/ECO	12	20000	2800	2630	3000	86	☑			Ⓢ		102	
		32	22.5	72112	F32T8/SPK35/U/6/ECO	12	20000	2800	2630	3500	86	☑			Ⓢ		102	
		32	22.5	72113	F32T8/SPK41/U/6/ECO	12	20000	2800	2630	4100	86	☑			Ⓢ		102	
T8 6" Spacing Ecolux® Watt-Miser® 30 Watt Lamp																		
T8	Medium Bi-Pin (G13)	30	22.5	72114	F32T8/SPK30/U/6/WM/ECO	12	24000	2800	2632	3000	85	☑	\$	→	Ⓢ		102	
		30	22.5	72115	F32T8/SPK35/U/6/WM/ECO	12	24000	2800	2632	3500	85	☑	\$	→	Ⓢ		102	
		30	22.5	72116	F32T8/SPK41/U/6/WM/ECO	12	24000	2800	2632	4100	85	☑	\$	→	Ⓢ		102	
Other T8 Lengths																		
18" T8 w/Starcoat®																		
T8	Medium Bi-Pin (G13)	15	18.0	49489	F15T8/XL/SPK65	24	24000	875	785	6500	85	☑					101	Use with Electronic Ballast Only

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Other T8 Lengths (continued)																		
5" T8 w/Starcoat®																		
T8	Medium Bi-Pin (G13)	40	60.0	15950	F40T8/SP30	24	20000	3600	3240	3000	75	☑					101	
		40	60.0	15951	F40T8/SP35	24	20000	3600	3240	3500	75	☑					101	
		40	60.0	15952	F40T8/SP41	24	20000	3600	3240	4100	75	☑					101	
		40	60.0	22660	F40T8/SPK30	24	20000	3725	3350	3000	84	☑					101	
		40	60.0	22661	F40T8/SPK35	24	20000	3725	3350	3500	84	☑					101	
		40	60.0	22662	F40T8/SPK41	24	20000	3725	3350	4100	84	☑					101	
6" T8 Instant Start																		
T8	Single Pin (FoS)	35	72.0	10829	F72T8/CW	24	7500	3000	2730	4100	60						101	
		35	72.0	10835	F72T8/WW 6PK	6	7500	3100	2820	3000	52						101	Warm White
T8 PolyLux																		
2" T8 PolyLux																		
T8	Medium Bi-Pin (G13)	18	24.0	93311	F18T8/B35/XLR	25	20000	1350	1280	3500	85	☑					101	
		18	24.0	93317	F18T8/B41/XLR	25	20000	1350	1280	4100	85	☑					101	
4" T8 PolyLux																		
T8	Medium Bi-Pin (G13)	36	48.0	19991	F36W78/B35/XLR	25	20000	3350	3180	3500	85	☑					101	
		36	48.0	16856	F36W78/B41/XLR	25	20000	3350	3180	3500	85	☑					101	
5" T8 PolyLux																		
T8	Medium Bi-Pin (G13)	58	60.0	40120	F58T8/B35PLVXLR	25	20000	5200	4940	3500	85	☑					101	
		58	60.0	40081	F58T8/B41PLVXLR	25	20000	5200	4940	4000	85	☑					101	
6" T8 PolyLux																		
T8	Medium Bi-Pin (G13)	70	72.0	42792	F70T8/B35PLVUX	25	20000	6300	5985	3500	85	☑					101	
		70	72.0	42793	F70T8/B40PLVUX	25	20000	6300	5985	4100	85	☑					101	
T8 Preheat																		
12" T8																		
T8	Medium Bi-Pin (G13)	13	12.0	10098	F13T8/CW	24	7500	565	480	4100	60						101	
15" T8																		
T8	Medium Bi-Pin (G13)	14	15.0	10104	F14T8/CW	24	7500	685	580	4100	60						101	
18" T8																		
T8	Medium Bi-Pin (G13)	15	18.0	17911	F15T8/SP35	24	7500	940	850	3500	75	☑					101	
		15	18.0	19643	F15T8/SP41	24	7500	940	850	4100	72	☑					101	
		15	18.0	19644	F15T8/SPK30	24	7500	1000	900	3000	82	☑					101	
		15	18.0	19645	F15T8/SPK35	24	7500	1000	900	3500	82	☑					101	
		15	18.0	10142	F15T8/CW	24	7500	825	725	4100	60						101	
		15	18.0	10143	F15T8/CW 6PK	24	7500	825	725	4100	60						101	
		15	18.0	10134	F15T8/D	24	7500	700	615	6500	75	☑						Daylight
		15	18.0	21326	F15T8/NB 6PK	24	7500	940	850	3000	70	☑					104	Kitchen & Bath
		15	18.0	13968	F15T8/SUN 6PK	24	7500	620	525	5000	90	☑					101	Sunlight
		15	18.0	10147	F15T8/WW	24	7500	845	745	3000	52						101	Warm White
36" T8																		
T8	Medium Bi-Pin (G13)	30	36.0	16323	F30T8/SPK30	24	7500	2300	2140	3000	82	☑					101	
		30	36.0	10316	F30T8/CW 6PK	24	7500	2175	1980	4100	60						101	
		30	36.0	10310	F30T8/D	24	7500	1850	1625	6500	75	☑					101	Daylight
		30	36.0	22747	F30T8/KB 6PK	24	7500	2125	1910	3000	70	☑					104	Kitchen & Bath
		30	36.0	10318	F30T8/WW	24	7500	2150	1880	3000	52						101	Warm White
T12 Lamps																		
3" T12 Ecolux® - Rapid Start																		
25W																		
T12	Medium Bi-Pin (G13)	25	36.0	80080	F25T12/SP30/RS/WW/ECO	24	18000	2025	1780	3000	70	☑	\$	+			101	
		25	36.0	80081	F25T12/SP35/RS/WW/ECO	24	18000	2025	1780	3500	73	☑	\$	+			101	
		25	36.0	80065	F25T12/CWRS/WW/ECO	24	18000	1925	1640	4100	60		\$	+			101	
		25	36.0	80077	F25T12/WW/RS/WW/ECO	24	18000	1975	1640	3000	52		\$	+			101	Warm White
30W																		
T12	Medium Bi-Pin (G13)	30	36.0	80087	F30T12/SP15/RS/ECO	24	18000	2350	2120	3500	73	☑					101	
		30	36.0	80088	F30T12/SP41/RS/ECO	24	18000	2350	2120	4100	72	☑					101	
		30	36.0	80089	F30T12/SPK30/RS/ECO	24	18000	2375	2140	3000	82	☑					101	
		30	36.0	80090	F30T12/SPK35/RS/ECO	24	18000	2375	2140	3500	82	☑					101	
		30	36.0	80083	F30T12/C50/RS/ECO	24	18000	1650	1350	5000	90	☑						Chroma 50
		30	36.0	80084	F30T12/CW/RS/ECO	24	18000	2200	1910	4100	60						101	

Fluorescent Lamps

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
3" T12 Ecolux® – Rapid Start (continued)																		
30W (continued)																		
T12	Medium Bi-Pin (G13)	30	36.0	80085	F30T12/CW/RS/ECO/6PK	24	18000	2200	1910	4100	60						101	
		30	36.0	80086	F30T12/D/RS/ECO	24	18000	1900	1650	6500	75						101	Daylight
		30	36.0	80091	F30T12/NW/RS/ECO	24	18000	2275	1980	3000	52						101	Warm White
4" T12 – Rapid Start																		
34W Watt-Miser® Ecolux® – TCLP Compliant																		
T12	Medium Bi-Pin (G13)	34	48.0	23163	F34SP30RS/WM/ECO	30	20000	2750	2475	3000	70		\$	+	Ⓢ	1	101	
		34	48.0	23165	F34SP35RS/WM/ECO	30	20000	2750	2475	3500	73		\$	+	Ⓢ	1	101	
		34	48.0	21858	F34SP35RS/WM/ECO/UPC/6P	24	20000	2750	2475	3500	73		\$	+	Ⓢ	1	101	
		34	48.0	23166	F34SP41RS/WM/ECO	30	20000	2750	2475	4100	72		\$	+	Ⓢ	1	101	
		34	48.0	41563	F34SP65RS/WM/ECO	30	20000	2650	2430	6500	75		\$	+	Ⓢ	1	101	
		34	48.0	23157	F34SPK30/RS/WM/ECO	30	20000	2900	2610	3000	82		\$	+	Ⓢ	1	101	
		34	48.0	23158	F34SPK35/RS/WM/ECO	30	20000	2900	2610	3500	82		\$	+	Ⓢ	1	101	
		34	48.0	23159	F34SPK41RS/WM/ECO	30	20000	2900	2610	4100	80		\$	+	Ⓢ	1	101	
		34	48.0	80095	F34SPK50/RS/WM/ECO	30	20000	2700	2430	5000	80		\$	+	Ⓢ	1	101	
		34	48.0	80092	F34/C50/RS/WM/ECO	30	20000	2000	1720	5000	90		\$	+	Ⓢ	1	101	Chroma 50
		34	48.0	23010	F34CW/RS/WM/ECO	30	20000	2650	2280	4100	60		\$	+	Ⓢ	1	101	
		34	48.0	25391	F34CW/RS/WM/ECO/UPC	30	20000	2650	2280	4100	60		\$	+	Ⓢ	1	101	
		34	48.0	23485	F34CW/RS/WM/ECO/C10PK	10	20000	2650	2280	4100	60		\$	+	Ⓢ	1	101	
		34	48.0	80093	F34DX/RS/WM/ECO	30	20000	1950	1620	6500	84		\$	+	Ⓢ	1	101	Daylight Deluxe
		34	48.0	80094	F34WL/RS/WM/ECO	30	20000	2825	2430	4200	49		\$	+	Ⓢ	1	101	Lite White
		34	48.0	45065	F34WW/RS/WM/ECO	30	20000	2700	2320	3000	52		\$	+	Ⓢ	1	101	Warm White
		34	48.0	25398	F34WW/RS/WM/ECO/UPC	30	20000	2700	2320	3000	52		\$	+	Ⓢ	1	101	Warm White
40W Ecolux® – TCLP Compliant																		
T12	Medium Bi-Pin (G13)	40	48.0	80099	F40SP30/ECO	30	20000	3250	2950	3000	70				Ⓢ		101	
		40	48.0	80186	F40SP35/ECO	30	20000	3200	2910	3500	73				Ⓢ		101	
		40	48.0	80187	F40SP41/ECO	30	20000	3200	2910	4100	72				Ⓢ		101	
		40	48.0	23382	F40SP41/ECO/C	10	20000	3200	2910	4100	72				Ⓢ		101	
		40	48.0	80188	F40SP65/ECO	30	20000	3050	2775	6500	75				Ⓢ		101	
		40	48.0	25400	F40SP65/ECO/UPC	30	20000	3050	2775	6500	75				Ⓢ		101	
		40	48.0	80189	F40SPK30/ECO	30	20000	3400	3090	3000	82				Ⓢ		101	
		40	48.0	80190	F40SPK35/ECO	30	20000	3400	3090	3500	82				Ⓢ		101	
		40	48.0	80191	F40SPK41/ECO	30	20000	3350	3050	4100	80				Ⓢ		101	
		40	48.0	80199	F40SPK50/ECO	30	20000	3200	2860	5000	80				Ⓢ		101	
		40	48.0	80096	F40C50/ECO	30	20000	2250	1870	5000	90						101	Chroma 50
		40	48.0	25399	F40C50/ECO/UPC	30	20000	2250	1870	5000	90						101	Chroma 50
		40	48.0	13795	F40C75 30PK	30	20000	1950	1680	7500	92						101	Chroma 75, non-TCLP compliant
		40	48.0	13969	F40D/ULTRA/ECO/6P	24	20000	3050	2775	6500	75				Ⓢ		101	Daylight
		40	48.0	80097	F40DX/ECO	30	20000	2250	1910	6500	84				Ⓢ		101	Daylight Deluxe
		40	48.0	40333	F40K/ECO/2PK	9	20000	3400	3090	3000	70				Ⓢ		104	Kitchen & Bath
		40	48.0	21323	F40K/ECO 6PK	24	20000	3400	3090	3000	70				Ⓢ		104	Kitchen & Bath
		40	48.0	80098	F40N/ECO	30	20000	2100	1740	3700	90						101	Natural
		40	48.0	12224	F40/SUN/ECO/6PK	24	20000	2250	1870	5000	90						101	Sunlight
		40	48.0	14440	F40/RES/ECO/SUV	30	15000	3150	2860	4100	72				Ⓢ		101	
40	48.0	14433	F40/RES/ECO/SUV/6	24	15000	3150	2860	4100	72				Ⓢ		101			
40	48.0	14441	F40/RES/ECO/TW/9	9	15000	3150	2860	4100	72				Ⓢ		101			
40W Ecolux® XL Extra-life																		
T12	Medium Bi-Pin (G13)	40	48.0	80217	F40XL/SP30/ECO	30	24000	3300	2970	3000	75				Ⓢ		101	
		40	48.0	80224	F40XL/SP35/ECO	30	24000	3300	2970	3500	75				Ⓢ		101	
		40	48.0	80227	F40XL/SP41/ECO	30	24000	3300	2970	4100	73				Ⓢ		101	
		40	48.0	80230	F40XL/SPK30/ECO	30	24000	3400	3060	3000	82				Ⓢ		101	
		40	48.0	80248	F40XL/SPK35/ECO	30	24000	3400	3060	3500	82				Ⓢ		101	
		40	48.0	80249	F40XL/SPK41/ECO	30	24000	3400	3060	4100	80				Ⓢ		101	
		40	48.0	80250	F40XL/SPK50/ECO	30	24000	3350	3050	5000	80				Ⓢ		101	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information	
T12 Lamps (continued)																			
4" T12 Rapid Start (continued)																			
25W Ecolux® Utility Shoplight																			
T12	Medium Bi-Pin (G13)	25	48.0	14450	F4825W/UTECOSLV	30	12000	1860	1675	4100	60						10	101	
		25	48.0	14456	F4825W/UTECOTWN	9	12000	1860	1675	4100	60						10	101	
		25	48.0	14445	F4825W/UTECOUPC	30	12000	1860	1675	4100	60						10	101	
T12 Mod-U-Line®																			
T12 3-5/8" Spacing																			
T12	Medium Bi-Pin (G13)	40	22.5	15259	F40SP30/U/3	12	14000	2925	2660	3000	70	☞				Ⓢ		102	
		40	22.5	14228	F40SP35/U/3	12	14000	2925	2660	3500	73	☞				Ⓢ		102	
		40	22.5	15260	F40SP41/U/3	12	14000	2925	2660	4100	72	☞				Ⓢ		102	
		40	22.5	14814	F40SPK30/U/3	12	14000	3000	2730	3000	82	☞				Ⓢ		102	
		40	22.5	14813	F40SPK35/U/3	12	14000	3000	2730	3500	82	☞				Ⓢ		102	
		40	22.5	14649	F40SCW/U/3	12	14000	2725	2400	4100	75	☞				Ⓢ		102	Super Cool White
T12 6" Spacing																			
T12	Medium Bi-Pin (G13)	40	22.5	15263	F40SP30/U/6	12	14000	3050	2780	3000	70	☞				Ⓢ		102	
		40	22.5	14227	F40SP35/U/6	12	14000	3050	2780	3500	73	☞				Ⓢ		102	
		40	22.5	22050	F40SP35/U/6/UPC	12	14000	3050	2780	3500	73	☞				Ⓢ		102	
		40	22.5	15265	F40SP41/U/6	12	14000	3050	2780	4100	72	☞				Ⓢ		102	
		40	22.5	14816	F40SPK30/U/6	12	14000	3100	2820	3000	82	☞				Ⓢ		102	
		40	22.5	14648	F40SCW/U/6	12	14000	2800	2460	4100	75	☞				Ⓢ		102	Super Cool White
		40	22.5	25374	F40SCW/U/6/UPC/6P	6	14000	2800	2460	4100	75	☞				Ⓢ		102	Super Cool White
		40	22.5	14815	F40SPK35/U/6	12	14000	3100	2820	3500	82	☞				Ⓢ		102	
40	22.5	14632	F40SWW/U/6	12	14000	2800	2460	3000	75	☞				Ⓢ		102	Super Warm White		
Watt-Miser® Energy Saving Lamps																			
T12 3-5/8" Spacing Watt-Miser®																			
T12	Medium Bi-Pin (G13)	35	22.5	12199	F35CW/U/3/WM	12	14000	2200	2050	4100	60		\$	+	Ⓢ	1	102		
		35	22.5	12200	F35WW/U/3/WM	12	14000	2300	2100	3000	52		\$	-	Ⓢ	1	102	Warm White	
T12 6" Spacing Watt-Miser®																			
T12	Medium Bi-Pin (G13)	35	22.5	12203	F35CW/U/6/WM	12	14000	2300	2100	4100	60		\$	-	Ⓢ	1	102		
		35	22.5	14471	F35CW/U/6/WM/UPC	12	14000	2300	2100	4100	60		\$	-	Ⓢ	1	102		
		35	22.5	12383	F35CW/U/6/WM/C	6	14000	2300	2100	4100	60		\$	-	Ⓢ	1	102		
		35	22.5	12207	F35WW/U/6/WM	12	14000	2350	2150	3000	52		\$	+	Ⓢ	1	102	Warm White	
T12 6" Spacing Watt-Miser® Ecolux®																			
T12	Medium Bi-Pin (G13)	35	22.5	15622	F35CW/U/6/WM/ECO	12	18000	2600	2235	4100	62		\$	-	Ⓢ	1	102		
T12 Instant Start																			
T12	Single Pin (Fø8)	20	24.0	10691	F24T12/CW	24	7500	1050	900	4100	60							101	
		30	36.0 cm	10709	F36T12/CW	24	7500	2000	1900	4100	60							101	
		35	42.0	10735	F42T12/CW	24	7500	2400	2210	4100	60							101	
		40	48.0	15262	F48T12/SP35	24	9000	3000	2820	3500	73	☞						101	
		40	48.0	15088	F48T12/SPK30	24	9000	3050	2870	3000	82	☞						101	
		40	48.0	15116	F48T12/SPK35	24	9000	3050	2870	3500	82	☞						101	
		40	48.0	10748	F48T12/CW	24	9000	2875	2650	4100	60							101	
		40	48.0	20461	F48T12CW/UPC 6PK	24	9000	2875	2650	4100	60							101	
		Watt-Miser® Energy Saving Lamps																	
T12	Single Pin (Fø8)	30	48.0	14319	F48T12/SP35/WM	24	9000	2575	2420	3500	73	☞	\$	-		1	101		
		30	48.0	13048	F48T12/SP41/WM	24	9000	2575	2420	4100	72	☞	\$	-		1	101		
		30	48.0	44967	F48T12/CW/WM	24	9000	2475	2400	4100	60		\$	-		1	101		
8" T12 Instant Start																			
8" Instant Start Standard																			
T12	Single Pin (Fø8)	75	96.0	15357	F96T12SP30 15PK	15	12000	6500	6110	3000	70	☞				Ⓢ		101	
		75	96.0	14067	F96T12SP35 15PK	15	12000	6500	6110	3500	73	☞				Ⓢ		101	
		75	96.0	15358	F96T12/SP41 15PK	15	12000	6500	6110	4100	72	☞				Ⓢ		101	
		75	96.0	12127	F96T12/SP65	15	12000	6125	5760	6500	75	☞				Ⓢ		101	
		75	96.0	15110	F96T12SPK30 15PK	15	12000	6800	6390	3000	82	☞				Ⓢ		101	
		75	96.0	15101	F96T12SPK35 15PK	15	12000	6800	6390	3500	82	☞				Ⓢ		101	
		75	96.0	15335	F96T12SPK41 15PK	15	12000	6800	6390	4100	80	☞				Ⓢ		101	
		75	96.0	23466	F96T12/SPK50	15	12000	6250	5880	5000	80	☞				Ⓢ		101	
75	96.0	14652	F96T12/DX	15	12000	4500	4050	6500	84	☞				Ⓢ		101	Daylight Deluxe		

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
8" T12 Instant Start (continued)																		
8" Instant Start XL Extra-life																		
T12	Single Pin (Fø8)	75	96.0	13725	F96T12/N 15PK	15	12000	4250	3740	3700	90	Ⓔ					101	Natural
		75	96.0	13752	F96T12/C30	15	12000	4600	4050	5000	90	Ⓔ					101	Chrome 50
		75	96.0	11661	F96T12/XL/SP41	15	15000	6700	6180	4100	73	Ⓔ			Ⓔ		101	
		75	96.0	11664	F96T12/XL/SPX41	15	15000	6900	6370	4100	80	Ⓔ			Ⓔ		101	
Watt-Miser® Energy Saving Lamps																		
8" Instant Start Watt-Miser®																		
T12	Single Pin (Fø8)	60	96.0	14201	F96T12/SP30/WM/15PK	15	12000	5700	5360	3000	70	Ⓔ	\$ +	Ⓔ	1	101		
		60	96.0	13849	F96T12/SP35/WM/15PK	15	12000	5700	5360	3500	73	Ⓔ	\$ +	Ⓔ	1	101		
		60	96.0	21856	F96T12/SP35/WM/UPC	15	12000	5700	5360	3500	73	Ⓔ	\$ +	Ⓔ	1	101		
		60	96.0	11217	F96T12/SP35/WM/C10P	10	12000	5700	5360	3500	73	Ⓔ	\$ +	Ⓔ	1	101		
		60	96.0	13758	F96T12/SP41/WM/15PK	15	12000	5700	5360	4100	72	Ⓔ	\$ +	Ⓔ	1	101		
		60	96.0	25171	F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60		\$ +	Ⓔ	1	101		
		60	96.0	12128	F96T12/SP65/WM	15	12000	5100	4800	6500	75	Ⓔ	\$ +	Ⓔ	1	101		
		60	96.0	14629	F96T12/SPK30/WM/15P	15	12000	6000	5640	3000	82	Ⓔ	\$ +	Ⓔ	1	101		
		60	96.0	14630	F96T12/SPK35/WM/15P	15	12000	6000	5640	3500	82	Ⓔ	\$ +	Ⓔ	1	101		
		60	96.0	13756	F96T12/C50/WM/15PK	15	12000	4000	3520	5000	90	Ⓔ	\$ +	Ⓔ	1	101	Chrome 50	
		60	96.0	13729	F96T12/CW/WM/15PK	15	12000	5500	5060	4100	60		\$ +	Ⓔ	1	101		
		60	96.0	21713	F96T12/CW/WM/UPC10PK	10	12000	5500	5060	4100	60		\$ +	Ⓔ	1	101		
		60	96.0	13742	F96T12/LW/WM/15PK	15	12000	5800	5340	4200	49		\$ +	Ⓔ	1	101	Lite White	
		60	96.0	13736	F96T12/LW/WM/15PK	15	12000	5700	5240	3000	52		\$ +	Ⓔ	1	101	Warm White	
8" Instant Start Watt-Miser® XL Extra-life																		
T12	Single Pin (Fø8)	60	96.0	12406	F96T12/XL/SP35/WM	15	15000	5900	5480	3500	75	Ⓔ	\$ +	Ⓔ	Ⓔ	1	101	
		60	96.0	12408	F96T12/XL/SP41/WM	15	15000	5900	5480	4100	73	Ⓔ	\$ +	Ⓔ	Ⓔ	1	101	
8" Instant Start Watt-Miser® Ecolux®																		
T12	Single Pin (Fø8)	60	96.0	27233	F96T12/SP35/WM/ECO	15	12000	5700	5360	3500	73	Ⓔ	\$ +	Ⓔ	Ⓔ	1	101	
		60	96.0	27235	F96T12/SP41/WM/ECO	15	12000	5700	5360	4100	72	Ⓔ	\$ +	Ⓔ	Ⓔ	1	101	
		60	96.0	40373	F96T12/SP65/WM/ECO	15	12000	5100	4800	6500	75	Ⓔ	\$ +	Ⓔ	Ⓔ	1	101	
		60	96.0	27238	F96T12/SPK35/WM/ECO	15	12000	6000	5640	3500	82	Ⓔ	\$ +	Ⓔ	Ⓔ	1	101	
		60	96.0	27186	F96T12/CW/WM/ECO	15	12000	5500	5060	4100	60		\$ +	Ⓔ	Ⓔ	1	101	
T12 Other Lengths																		
5" T12 Instant Start																		
T12	Single Pin (Fø8)	50	60.0	23073	F60T12/CW 15PK	15	12000	3600	3310	4100	60						101	
		50	60.0	23076	F60T12/D 15PK	15	12000	3000	2760	6500	75	Ⓔ					101	Daylight
64" T12 Instant Start																		
T12	Single Pin (Fø8)	50	64.0	23082	F64T12/CW 15PK	15	10000	3850	3540	4100	60						101	
		50	64.0	23085	F64T12/D 15PK	15	10000	3300	3040	6500	75	Ⓔ					101	Daylight
6" T12 Instant Start																		
T12	Single Pin (Fø8)	55	72.0	15286	F72T12/SP35 15PK	15	12000	4700	4420	3500	73	Ⓔ					101	
		55	72.0	15097	F72T12/SP41	15	12000	4700	4420	4100	72	Ⓔ					101	
		55	72.0	15117	F72T12/SPK30/15PK	15	12000	4800	4510	3000	82	Ⓔ					101	
		55	72.0	15098	F72T12/SPK35/15PK	15	12000	4800	4510	3500	82	Ⓔ					101	
		55	72.0	13743	F72T12/CW/15PK	15	12000	4500	4140	4100	60						101	
		55	72.0	12525	F72T12/CW/UPC/10PK	10	12000	4500	4140	4100	60						101	
		55	72.0	13748	F72T12/D/15PK	15	12000	3800	3500	6500	75	Ⓔ					101	Daylight
7" T12 Instant Start																		
T12	Single Pin (Fø8)	65	84.0	13764	F84T12/CW 15PK	15	12000	5300	4880	4100	60						101	
T12 High Output (800mA) Rapid Start Recessed Double Contact																		
18" High Output																		
T12	Recessed Double Contact (R17d)	30	18.0	10204	F18T12/CW/HO	24	9000	1000	750	4100	60						101	
2" High Output																		
T12	Recessed Double Contact (R17d)	35	24.0	10261	F24T12/CW/HO	24	9000	1620	1345	4100	60						101	
		35	24.0	10275	F24T12/D/HO	24	9000	1400	1160	6500	74	Ⓔ					101	Daylight

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All footnotes, warning and caution notices found at the end of this section (page 4-32).

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
T12 High Output (800mA) Rapid Start Recessed Double Contact (continued)																		
30" High Output																		
T12	Recessed Double Contact (R17d)	40	30.0	33707	F30T12/CW/HO	24	9000	2250	1950	4100	60						101	
3" High Output																		
T12	Recessed Double Contact (R17d)	45	36.0	10374	F36T12/CW/HO	24	9000	2800	2440	4100	60						101	
		45	36.0	10380	F36T12/D/HO	24	9000	2350	2040	6500	75	Ⓔ					101	
		45	36.0	10388	F36T12/SGN/HO	24	9000	2150	1830	5400	82	Ⓔ					101	
42" High Output																		
T12	Recessed Double Contact (R17d)	55	42.0	10559	F42T12/CW/HO	24	9000	3200	2790	4100	60						101	
		55	42.0	10560	F42T12/D/HO	24	9000	2900	2520	6500	74	Ⓔ					101	Daylight
		55	42.0	10562	F42T12/SGN/HO	24	9000	2600	2215	5400	82	Ⓔ					101	Sign White
4" High Output																		
T12	Recessed Double Contact (R17d)	60	48.0	15359	F48T12/SP30/HO	24	12000	4250	3830	3000	70	Ⓔ					101	
		60	48.0	15360	F48T12/SP35/HO	24	12000	4250	3830	3500	73	Ⓔ					101	
		60	48.0	15361	F48T12/SP41/HO	24	12000	4250	3830	4100	72	Ⓔ					101	
		60	48.0	15115	F48T12/SPK35/HO	24	12000	4350	3920	3500	82	Ⓔ					101	
		60	48.0	10773	F48T12/CW/HO	24	12000	3825	3320	4100	60						101	
		60	48.0	27313	F48T12/CW/HO/UPC	24	12000	4050	3520	4100	60						101	
		60	48.0	10778	F48T12/D/HO	24	12000	3400	2960	6500	75	Ⓔ					101	Daylight
		60	48.0	10573	F48T12/SGN/HO	24	12000	3100	2640	5400	80	Ⓔ					101	Sign White
		4" High Output Watt-Miser® Energy Saving Lamps																
T12	Recessed Double Contact (R17d)	55	48.0	15342	F48T12/SP35/HO/NWM	24	12000	3850	3465	3500	73	Ⓔ	\$	-		1	101	
		55	48.0	11179	F48T12/LWH/OWM	24	12000	3900	3390	4200	49		\$	-		1	101	Lite White
5" High Output																		
T12	Recessed Double Contact (R17d)	75	60.0	23075	F60T12/CW/HO 15PK	15	12000	5150	4480	4100	60						101	
		75	60.0	23077	F60T12/D/HO 15PK	15	12000	4400	3830	6500	75	Ⓔ					101	Daylight
		75	60.0	23081	F60T12/SGN/HO 15PK	15	12000	4000	3400	5400	82	Ⓔ					101	Sign White
64" High Output																		
T12	Recessed Double Contact (R17d)	80	64.0	23083	F64T12/CW/HO/15PK	15	12000	5600	4870	4100	60						101	
		80	64.0	23087	F64T12/D/HO/15PK	15	12000	4750	4130	6500	75	Ⓔ					101	Daylight
		80	64.0	23089	F64T12/SGN/HO/15PK	15	12000	4300	3660	5400	82	Ⓔ					101	Sign White
6" High Output																		
T12	Recessed Double Contact (R17d)	85	72.0	15343	F72T12/SP30/HO/15PK	15	12000	6650	5990	3000	70	Ⓔ					101	
		85	72.0	15347	F72T12/SP35/HO/15PK	15	12000	6650	5990	3500	73	Ⓔ					101	
		85	72.0	15348	F72T12/SP41/HO/15PK	15	12000	6650	5990	4100	72	Ⓔ					101	
		85	72.0	15137	F72T12/SPK30/HO/15P	15	12000	6800	6120	3000	82	Ⓔ					101	
		85	72.0	15351	F72T12/SPK35/HO/15P	15	12000	6800	6120	3500	82	Ⓔ					101	
		85	72.0	13697	F72T12/CW/HO/15PK	15	12000	6350	5520	4100	60						101	
		85	72.0	13699	F72T12/D/HO/15PK	15	12000	5350	4650	6500	75	Ⓔ					101	Daylight
		85	72.0	12527	F72T12/N/HO	10	12000	4300	3610	3700	90	Ⓔ					101	Natural
		85	72.0	13701	F72T12/SGN/HO/15PK	15	12000	4900	4170	5400	82	Ⓔ					101	Sign White
		85	72.0	13702	F72T12/MM/HO/15PK	15	12000	6550	5700	3000	52						101	Warm White
		7" High Output																
T12	Recessed Double Contact (R17d)	100	84.0	13766	F84T12/CW/HO/15PK	15	12000	7700	6700	4100	60						101	
		100	84.0	13767	F84T12/D/HO/15PK	15	12000	6500	5660	6500	75	Ⓔ					101	Daylight
		100	84.0	13768	F84T12/SGN/HO/15PK	15	12000	6000	5100	5400	82	Ⓔ					101	Sign White
8" High Output																		
T12	Recessed Double Contact (R17d)	110	96.0	15362	F96T12/SP30/HO/15PK	15	12000	9200	8280	3000	70	Ⓔ			Ⓔ		101	
		110	96.0	15363	F96T12/SP35/HO/15PK	15	12000	9200	8280	3500	73	Ⓔ			Ⓔ		101	
		110	96.0	15364	F96T12/SP41/HO/15PK	15	12000	9200	8280	4100	72	Ⓔ			Ⓔ		101	
		110	96.0	12130	F96T12/SP65/HO	15	12000	8900	8010	6500	75	Ⓔ					101	
		110	96.0	15119	F96T12/SPK30/HO/15PK	15	12000	9350	8420	3000	82	Ⓔ					101	
		110	96.0	15352	F96T12SPK35HO15PK	15	12000	9350	8420	3500	82	Ⓔ					101	
		110	96.0	23070	F96T12/SPK41/HO/15PK	15	12000	9350	8420	4100	80	Ⓔ					101	
		110	96.0	13707	F96T12/CS0/HO/15PK	15	12000	6750	5670	5000	90	Ⓔ					101	Chroma 50
		110	96.0	14653	F96T12/OX/HO	15	12000	6600	5610	6500	84	Ⓔ				Ⓔ	101	Daylight Deluxe

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For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 4-32).

Incandescent	Halogen	High intensity Discharge	Fluorescent	Compact Fluorescent	Ballast	LED lamps and Systems	Stage and Studio	Primaries and Sealed Beam	Projection

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 4-32).

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Fluorescent Lamps

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Special Application Lamps (continued)																		
covGuard® Shatter Resistant (continued)																		
T6 Instant Start Lamps																		
T6	Single Pin (Fa8)	25	42.0	41140	F42T6/CW/CVG	24	7500	1690	1530	4100	60					11.13	103	
		25	42.0	41142	F42T6/SP35/CVG	24	7500	1770	1650	3500	73					11.13	103	
		25	42.0	41141	F42T6/MW/CVG	24	7500	1770	1590	3000	52					11.13	103	
		40	64.0	46422	F64T6/CW/CVG	24	7500	2710	2445	4100	60					11.13	103	
		40	64.0	41143	F64T6/SP35/CVG	24	7500	2840	2638	3500	73					11.13	103	
T8 Ecolux® w/ Starcoat®																		
2" T8 Ecolux® w/ Starcoat®																		
T8	Medium Bi-Pin (G13)	17	24.0	47417	F17T8SP30ECO/CVG	24	20000	1280	1220	3000	78					11.13.18	103	
		17	24.0	15974	F17T8SP35ECO/CVG	24	20000	1280	1220	3500	78					11.13.18	103	
		17	24.0	15977	F17T8SP41ECO/CVG	24	20000	1280	1220	4100	78					11.13.18	103	
		17	24.0	11836	F17T8SPK30ECO/CVG	24	20000	1310	1241	3000	85					11.13.18	103	
		17	24.0	15975	F17T8SPK35ECO/CVG	24	20000	1310	1242	3500	86					11.13.18	103	
		17	24.0	15976	F17T8SPK41ECO/CVG	24	20000	1310	1242	4100	86					11.13.18	103	
		17	24.0	28885	F17T8KLSPK30ECO/CVG	24	24000	1310	1243	5000	86					11.13.18	103	
3" Ecolux® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	25	36.0	15978	F25T8SP30ECO/CVG	24	20000	2020	1920	3000	78					11.13.18	103	
		25	36.0	15981	F25T8SP35ECO/CVG	24	20000	2020	1920	3500	78					11.13.18	103	
		25	36.0	15984	F25T8SP41ECO/CVG	24	20000	2020	1920	4100	78					11.13.18	103	
		25	36.0	15989	F25T8SPK30ECO/CVG	24	20000	2080	1970	3000	86					11.13.18	103	
		25	36.0	15990	F25T8SPK35ECO/CVG	24	20000	2080	1970	3500	86					11.13.18	103	
		25	36.0	15991	F25T8SPK41ECO/CVG	24	20000	2080	1970	4100	86					11.13.18	103	
		25	36.0	28887	F25T8KLSPK30ECO/CVG	24	24000	2080	1970	5000	86					11.13.18	103	
		25	36.0	72655	F25T8SPK65ECO/CVG	24	20000	2080	1970	6500	86					11.13.18	103	
4" T8 (48") Ecolux® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	40803	F32T8SP30ECO/CVG	36	30000	2715	2580	3000	78				Ⓢ	11.13.18	103	
		32	48.0	40804	F32T8SP35ECO/CVG	36	30000	2715	2580	3500	78				Ⓢ	11.13.18	103	
		32	48.0	40812	F32T8SP41ECO/CVG	36	30000	2715	2580	4100	78				Ⓢ	11.13.18	103	
		32	48.0	18366	F32T8/SP50ECO/CVG	36	30000	2667	2532	5000	78				Ⓢ	11.13.18	103	
		40	48.0	18368	F32T8/SP65ECO/CVG	36	30000	2620	2488	6500	78				Ⓢ	11.13.18	103	
		32	48.0	41125	F32T8SPK30ECO/CVG	36	30000	2860	2715	3000	86				Ⓢ	11.13.18	103	
		32	48.0	41126	F32T8SPK35ECO/CVG	36	30000	2860	2715	3500	86				Ⓢ	11.13.18	103	
		32	48.0	41127	F32T8SPK41ECO/CVG	36	30000	2860	2715	4100	86				Ⓢ	11.13.18	103	
		32	48.0	15971	F32T8SPK50ECO/CVG	36	30000	2715	2580	5000	86				Ⓢ	11.13.18	103	
4" T8 Ecolux® XL Extra-Life w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	15972	F32T8KLSPK30ECO/CVG	36	36000	2860	2715	3000	86				Ⓢ	11.13.18	103	
		32	48.0	15973	F32T8KLSPK35ECO/CVG	36	36000	2860	2715	3500	86				Ⓢ	11.13.18	103	
		32	48.0	18369	F32T8KLSPK41ECO/CVG	36	36000	2860	2715	4100	86				Ⓢ	11.13.18	103	
		32	48.0	23746	F32T8KLSPK50ECO/CVG	36	36000	2715	2580	5000	86				Ⓢ	11.13.18	103	
Ultra Energy Saving T8 Lamps w/ covGuard®																		
4" T8 Ecolux® 25 Watt Lamp																		
T8	Medium Bi-Pin (G13)	25	48.0	72812	F32T8/25WSPK30ECO/CVG	36	40000	2328	2188	3000	85		\$	→	Ⓢ	1.11.13.18	103	
		25	48.0	72813	F32T8/25WSPK35ECO/CVG	36	40000	2328	2188	3500	85		\$	→	Ⓢ	1.11.13.18	103	
		25	48.0	72814	F32T8/25WSPK41ECO/CVG	36	40000	2328	2188	4100	82		\$	→	Ⓢ	1.11.13.18	103	
		25	48.0	72815	F32T8/25WSPK50ECO/CVG	36	40000	2280	2143	5000	80		\$	→	Ⓢ	1.11.13.18	103	
4" T8 Ecolux® UltraMax® 28 Watt Lamp																		
T8	Medium Bi-Pin (G13)	28	48.0	73292	F28T8/MLSPK30ECO/CVG	36	36000	2643	2485	3000	85		\$	→	Ⓢ	1.11.13.18	103	
		28	48.0	73293	F28T8/MLSPK35ECO/CVG	36	36000	2643	2485	3500	85		\$	→	Ⓢ		103	
		28	48.0	73294	F28T8/MLSPK41ECO/CVG	36	36000	2643	2485	4100	82		\$	→	Ⓢ		103	
		28	48.0	73295	F28T8/MLSPK50ECO/CVG	36	36000	2546	2344	5000	80		\$	→	Ⓢ		103	
4" T8 Ecolux® Watt-Miser® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	30	48.0	40286	F30T8SP30SWM/CVG	36	30000	2765	2595	3000	84		\$	→	Ⓢ	1.11.13.18	103	
		30	48.0	40299	F30T8SP35SWM/CVG	36	30000	2765	2595	3500	83		\$	→	Ⓢ	1.11.13.18	103	
		30	48.0	40309	F30T8SP41SWM/CVG	36	30000	2765	2595	4100	81		\$	→	Ⓢ	1.11.13.18	103	
		30	48.0	47422	F30T8SP50SWM/CVG	36	30000	2568	2570	4100	80		\$	→	Ⓢ	1.11.13.18	103	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information		
Special Application Lamps (continued)																				
Ultra Energy Saving T8 Lamps w/ covGuard® (continued)																				
4" T8 Ecolux® Watt-Miser® XL Extra-Life w/Starcoat®																				
T8	Medium Bi-Pin (G13)	30	48.0	10023	F32T8KLSP30WMCVG	36	36000	2715	2545	3000	84	☞	\$	→	Ⓢ	11.13.18	103			
		30	48.0	40297	F32T8KLSP35WMCVG	36	36000	2715	2545	3500	83	☞	\$	→	Ⓢ	11.13.18	103			
		30	48.0	40310	F32T8KLSP41WMCVG	36	36000	2715	2545	4100	81	☞	\$	→	Ⓢ	11.13.18	103			
		30	48.0	47423	F32T8KLSP50WMCVG	36	36000	2619	2464	5000	80	☞	\$	→	Ⓢ	11.13.18	103			
4" T8 Ecolux® High Lumen XL Extra-Life w/Starcoat®																				
T8	Medium Bi-Pin (G13)	32	48.0	00267	F32T8KLSPK30H/CVG	36	36000	3007	2228	3000	85	☞	\$		Ⓢ	11.13.18	103			
		32	48.0	00268	F32T8KLSPK35H/CVG	36	36000	3007	2228	3500	85	☞	\$		Ⓢ	11.13.18	103			
		32	48.0	00269	F32T8KLSPK41H/CVG	36	36000	3007	2228	4100	82	☞	\$		Ⓢ	11.13.18	103			
		32	48.0	80497	F32T8KLSPK50H/CVG	36	36000	3910	2735		85	☞	\$		Ⓢ	11.13.18	103			
T8 Mod-U-Line® 6" Spacing																				
T8	Medium Bi-Pin (G13)	32	22.5	23655	F32T8/SP30U6/CVG	12	20000	2619	2488	3000	78	☞			Ⓢ	11.13	103			
		32	22.5	23656	F32T8/SP35U6/CVG	12	20000	2619	2488	3500	78	☞			Ⓢ	11.13	103			
		32	22.5	23657	F32T8/SP41U6/CVG	12	20000	2619	2488	4100	78	☞			Ⓢ	11.13	103			
		32	22.5	23658	F32T8/SPX30U6/CVG	12	20000	2716	2551	3000	86	☞			Ⓢ	11.13	103			
		32	22.5	23659	F32T8/SPX35U6/CVG	12	20000	2716	2551	3500	86	☞			Ⓢ	11.13	103			
		32	22.5	23660	F32T8/SPX41U6/CVG	12	20000	2716	2551	4100	86	☞			Ⓢ	11.13	103			
5" T8 w/Starcoat®																				
5" T8 (60") w/Starcoat®																				
T8	Medium Bi-Pin (G13)	40	60.0	41130	F40T8/SP35/CVG	24	20000	3490	3315	3500	75	☞				11.13	103			
		40	60.0	48092	F40T8/SP41/CVG	24	20000	3490	3315	4100	75	☞				11.13	103			
		40	60.0	14564	F40T8/SPX30/CVG	24	20000	3610	3250	3000	85	☞				11.13	103			
		40	60.0	41131	F40T8/SPX35/CVG	24	20000	3610	3250	3500	85	☞				11.13	103			
		40	60.0	47351	F40T8/SPX41/CVG	24	20000	3610	3250	4100	85	☞				11.13	103			
T8 Instant Start w/Starcoat®																				
6" T8 (72") Instant Start																				
T8	Single Pin (F8)	35	72.0	41149	F72T8/CW/CVG	24	7500	2910	2640	4100	60					11.13	103			
8" T8 (96") Instant Start w/Starcoat®																				
T8	Single Pin (F8)	59	96.0	40094	F96T8/SP30/CVG	24	15000	5620	5335	3000	78	☞				Ⓢ	11.13	103		
		59	96.0	40095	F96T8/SP50/CVG	24	15000	5620	5335	3500	78	☞				Ⓢ	11.13	103		
		59	96.0	40096	F96T8/SP41/CVG	24	15000	5620	5335	4100	78	☞				Ⓢ	11.13	103		
		59	96.0	40099	F96T8/SPX30/CVG	24	15000	5770	5480	3000	86	☞				Ⓢ	11.13	103		
		59	96.0	40105	F96T8/SPX35/CVG	24	15000	5770	5480	3500	86	☞				Ⓢ	11.13	103		
		59	96.0	40106	F96T8/SPX41/CVG	24	15000	5770	5480	4100	86	☞				Ⓢ	11.13	103		
		59	96.0	48205	F96T8/SPX30/CVG	24	15000	5770	5480	5000	86	☞				Ⓢ	11.13	103		
		8" T8 High Output Lamps Recessed Double Contact w/Starcoat®																		
T8	Recessed Double Contact (R17d)	86	96.0	16822	F96T8/SP30H/CVG	24	18000	7760	7370	3000	78	☞				11.12.13	103			
		86	96.0	40107	F96T8/SP35H/CVG	24	18000	7760	7370	3500	78	☞				11.12.13	103			
		86	96.0	40108	F96T8/SP41H/CVG	24	18000	7760	7370	4100	78	☞				11.12.13	103			
		86	96.0	16823	F96T8/SPX35H/CVG	24	18000	7954	7566	3500	86	☞				11.12.13	103			
		86	96.0	42022	F96T8/SPX41H/CVG	24	18000	7954	7566	4100	86	☞				11.12.13	103			
		86	96.0	81563	F96T8/SPX50H/CVG	24	18000	7954	7566	5000	86	☞				11.12.13	103			
		T8 Preheat Lamps																		
		T8	Medium Bi-Pin (G13)	13	12.0	41109	F13T8/CW/CVG	24	7500	545	465	4100	60					11.13	103	Preheat
15	18.0			41110	F15T8/CW/CVG	24	7500	800	700	4100	60					11.13	103	Preheat		
15	18.0			46627	F15T8/K/CVG/UFC	24	7500	910	825	3000	70	☞				11.13	103	Preheat, Kitchen & Bath		
15	18.0			46216	F15T8/SP35/CVG	24	7500	910	825	3500	75	☞				11.13	103	Preheat		
15	18.0			41111	F15T8/SPX35/CVG	24	7500	970	870	3500	82	☞				11.13	103	Preheat		
18	24.0			41117	F24T8/CW/H/CVG	6	7500	1180	1000	4100	60					11.13	103	Preheat		
18	24.0			41121	F28T8/CW/H/CVG	6	7500	1300	1110	4100	60					11.13	103	Preheat		
30	36.0			41122	F30T8/CW/CVG	24	7500	2100	1920	4100	60					11.13	103	Preheat		
30	36.0			46206	F30T8/SPX30/CVG	24	7500	2230	2070	3000	82	☞				11.13	103	Preheat		

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information	
Special Application Lamps (continued)																			
T12 Rapid Start Lamps																			
3" Ecolux® T12 (S67)																			
T12	Medium Bi-Pin (G13)	30	36.0	80486	F30T12CWRSECO/CGV	24	18000	2130	1850	4100	60					11.13	103		
		30	36.0	80987	F30T12SPK30ECOCV	24	18000	2300	2070	3000	60					11.13	103		
		30	36.0	80487	F30T12SPK35ECOCV	24	18000	2300	2070	3500	82					11.13	103		
		30	36.0	80986	F30T12SP35SECO/CGV	24	18000	2280	2050	3500	73					11.13	103		
4" T12 Ecolux® Rapid Start Watt-Miser® Lamps (487)																			
T12	Medium Bi-Pin (G13)	40	48.0	80495	F40CW/ECO/CGV	30	20000	2950	2600	4100	70					11.13	103		
		40	48.0	80992	F40CW/ECO/CGV6PK	6	20000	2950	2600	4100	70					11.13	103		
		40	48.0	80995	F40KB/ECO/CGVUPC	24	20000	3290	2990	3000	70				Ⓢ	11.13	103	Kitchen & Bath	
		40	48.0	80988	F40SP30/ECO/CGV	30	20000	3150	2860	3000	70				Ⓢ	11.13	103		
		40	48.0	80989	F40SP35/ECO/CGV	30	20000	3100	2820	3500	73				Ⓢ	11.13	103		
		40	48.0	80990	F40SP65/ECO/CGV	30	20000	2950	2690	6500	75				Ⓢ	11.13	103		
		40	48.0	80493	F40SPK30/ECO/CGV	30	20000	3290	2990	3000	82				Ⓢ	11.13	103		
		40	48.0	80494	F40SPK35/ECO/CGV	30	20000	3290	2990	3500	82				Ⓢ	11.13	103		
		40	48.0	80991	F40SPK41/ECO/CGV	30	20000	3240	2950	4100	80				Ⓢ	11.13	103		
		40	48.0	80993	F40D/ECO/CGV	30	20000	2480	2170	6500	75				Ⓢ	11.13	103	Daylight	
		40	48.0	80994	F40D/ECO/CGV	30	20000	2180	1850	6500	84				Ⓢ	11.13	103	Daylight Deluxe	
		40	48.0	80996	F40N/ECO/CGV	30	20000	2030	1680	3700	90					11.13	103	Natural	
		40	48.0	80496	F40C/50/ECO/CGV	30	20000	2180	1810	5000	90					11.13	103	Chroma 50	
		40	48.0	41133	F40C75/CGV	30	20000	1890	1630	7500	92					11.13	103	Chroma 75, non-TCLP Compliant	
		34	48.0	80489	F34SP35WM/ECOCVG	30	20000	2660	2400	3500	73			\$	+	Ⓢ	11.13	103	
		34	48.0	80490	F34SP41WM/ECOCVG	30	20000	2660	2400	4100	72			\$	+	Ⓢ	11.13	103	
		34	48.0	80491	F34SPK41WM/ECOCVG	30	20000	2820	2530	4100	80			\$	+	Ⓢ	11.13	103	
		34	48.0	80488	F34WRSWM/ECOCVG	30	20000	2620	2250	3000	52			\$	+	Ⓢ	11.13	103	Warm White
		34	48.0	71262	F34D/RSWM/ECOCVG	30	20000	1890	1570	6500	84			\$	+	Ⓢ	11.13	103	Daylight Deluxe
		34	48.0	80492	F34LW/RSWM/ECOCVG	30	20000	2730	2350	4100	49			\$	+	Ⓢ	11.13	103	Lite White
		34	48.0	40805	F34CWRSWM/ECOCVG	30	20000	2570	2210	4100	60			\$	+	Ⓢ	11.13	103	
		34	48.0	41138	F34SPK30RSWM/ECVCV	30	20000	2810	2530	3000	82			\$	+	Ⓢ	11.13	103	
		34	48.0	41139	F34SPK35RSWM/ECVCV	30	20000	2810	2530	3500	82			\$	+	Ⓢ	11.13	103	
T12 Instant Start																			
T12	Single Pin (Fa8)	20	24.0	47342	F24T12/CW/CGV	24	7500	870	785	4100	60					11.13	103		
		40	48.0	40127	F48T12/CW/CGV	24	9000	2780	2560	4100	60					11.13	103		
		40	48.0	48091	F48T12/SP35/CGV	24	9000	2910	2730	3500	73					11.13	103		
		40	48.0	41144	F48T12/SPK35/CGV	24	9000	2950	2780	3500	82					11.13	103		
		50	60.0	41147	F60T12/CW/CGV	15	12000	3490	3210	4100	60					11.13	103		
		55	72.0	46213	F72T12/SP35/CGV	15	12000	4550	4280	3500	73					11.13	103		
		55	72.0	41151	F72T12/SPK30/CGV	15	12000	4650	4370	3000	82					11.13	103		
		55	72.0	41153	F72T12/SPK35/CGV	15	12000	4650	4370	3500	82					11.13	103		
		75	96.0	40117	F96T12/CW/CGV	15	12000	5960	5480	4100	60					11.13	103		
		75	96.0	46215	F96T12/SP35/CGV	15	12000	6300	5920	3500	73				Ⓢ	11.13	103		
		75	96.0	41157	F96T12/SPK30/CGV	15	12000	6590	6190	3000	82				Ⓢ	11.13	103		
		75	96.0	41158	F96T12/SPK35/CGV	15	12000	6590	6190	3500	82				Ⓢ	11.13	103		
T12	Single Pin (Fa8)	75	96.0	41159	F96T12/SPK41/CGV	15	12000	6590	6190	4100	80				Ⓢ	11.13	103		
		75	96.0	41973	F96T12/DX/CGV	15	12000	4360	3920	6500	84				Ⓢ	11.13	103	Daylight Deluxe	
		75	96.0	46208	F96T12/C50/CGV	15	12000	4460	3920	5000	90				Ⓢ	11.13	103	Chroma 50	
T12 Instant Start - Watt-Miser® Energy Saving Lamps																			
8" T12 Rapid Start Watt-Miser® Lamps (967)																			
T12	Single Pin (Fa8)	58	96.0	45993	F96T12SP35WM/PCV	15	12000	5520	5190	3500	75		\$	+	Ⓢ	1.11.13	103		
		60	96.0	40115	F96T12/CWWM/PCV	15	12000	5330	4910	4100	60		\$	+	Ⓢ	1.11.13	103		
		60	96.0	40124	F96T12SP35WM/PCV	15	12000	5520	5200	3500	73		\$	+	Ⓢ	1.11.13	103		
8" T12 Ecolux® Rapid Start Watt-Miser® Lamps (967)																			
T12	Single Pin (Fa8)	60	96.0	40807	F96T12CWWM/ECOCVG	15	12000	5330		4100	60		\$	+	Ⓢ	1.11.13	103		

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information	
Special Application Lamps (continued)																			
T12 Mod-U-Line® 6" Spacing																			
T12	Medium Bi-Pin (G13)	40	22.5	23661	F40/SP30/U6/CGV	12	14000	2959	2697	3000	70				Ⓢ	11.13	103		
		40	22.5	23662	F40/SP35/U6/CGV	12	14000	2959	2697	3500	73				Ⓢ	11.13	103		
		35	22.5	23664	F35CW/ECO/CGVUPC	12	14000	2522	2169	4100	60				Ⓢ	11.13	103		
T12 Preheat																			
T12	Medium Bi-Pin (G13)	15	18.0	41114	F15T12/CW/CGV	24	9000	735	660	4100	60						11.13	103	Preheat
		20	24.0	46377	F20T12/C50/CGV	24	9000	845	765	5000	90	Ⓢ					11.13	103	Preheat, Chroma 50
		20	24.0	40125	F20T12/CW/CGV	24	9000	1160	1110	4100	60						11.13	103	Preheat
		20	24.0	41000	F20T12CW/CGV/UPC	24	9000	1160	1110	4100	60						11.13	103	Preheat, UPC
		20	24.0	46622	F20T12/KBC/CGVUPC	24	9000	1230	1160	3000	70	Ⓢ					11.13	103	Preheat, Kitchen & Bath, UPC
		20	24.0	46218	F20T12/SP35/CGV	24	9000	1230	1160	3500	73	Ⓢ					11.13	103	Preheat
		20	24.0	41116	F20T12SPK35/CGV	24	9000	1260	1180	3500	82	Ⓢ					11.13	103	Preheat
		25	33.0	41120	F25T12/WW/33/CGV	24	7500	1850	1160	3000	52						11.13	103	Preheat, Warm White
T12 High Output Lamps Recessed Double Contact																			
T12	Recessed Double Contact (R17d)	35	24.0	48990	F24T12/CW/HO/CGV	24	9000	1570	1300	4100	60						11.12.13	103	
		60	48.0	40129	F48T12/CW/HO/CGV	24	12000	3930	3410	4100	60						11.12.13	103	
		60	48.0	41146	F48T12SPK35HOCVG	24	12000	4220	3800	3500	82	Ⓢ					11.12.13	103	
		60	48.0	41969	F48T12/D/HO/CGV	24	12000	3290	2870	6500	75	Ⓢ					11.12.13	103	Daylight
		75	60.0	41148	F60T12/CW/HO/CGV	15	12000	4990	4340	4100	60						11.12.13	103	
		85	72.0	40811	F72T12CW/HO/CGV	15	12000	6150	5350	4100	60						11.12.13	103	
		85	72.0	46207	F72T12SP35SHO/CGV	15	12000	6450	5810	3500	73	Ⓢ					11.12.13	103	
		85	72.0	41152	F72T12SPK30HOCVG	15	12000	6590	5930	3000	82	Ⓢ					11.12.13	103	
		85	72.0	41154	F72T12SPG35HOCVG	15	12000	6590	5930	3500	82	Ⓢ					11.12.13	103	
		85	72.0	48994	F72T12/N/HO/CGV	10	12000	4170	3590	3700	90	Ⓢ					11.12.13	103	Natural
		100	84.0	41156	F84T12/CW/HO/CGV	15	12000	7460	6490	4100	60						11.12.13	103	
		110	96.0	40908	F96T12CW/HO/CGV	15	12000	8830	7500	4100	60						11.12.13	103	
		110	96.0	46210	F96T12SP35SHO/CGV	15	12000	8920	8030	3500	73	Ⓢ				Ⓢ	11.12.13	103	
		110	96.0	45264	F96T12SP65SHO/CGV	15	12000	8630	7760	6500	75	Ⓢ					11.12.13	103	
		110	96.0	41160	F96T12SPK30HOCVG	15	12000	9070	8160	3000	82	Ⓢ					11.12.13	103	
		110	96.0	41161	F96T12SPK35HOCVG	15	12000	9070	8160	3500	82	Ⓢ					11.12.13	103	
110	96.0	41162	F96T12SP94HOCVG	15	12000	9070	8160	4100	80	Ⓢ					11.12.13	103			
110	96.0	46424	F96T12/D/HO/CGV	15	12000	7370	6410	6500	75	Ⓢ					Ⓢ	11.12.13	103	Daylight	
110	96.0	46430	F96T12/DX/HO/CGV	15	12000	6400	5440	6500	84	Ⓢ					Ⓢ	11.12.13	103	Daylight Deluxe	
T12 High Output Lamps Recessed Double Contact - Watt-Miser® Energy Saving Lamps																			
T12	Recessed Double Contact (R17d)	95	96.0	40116	F96T12CW/HO/MW/CGV	15	12000	7760	6750	4100	60		\$	+	Ⓢ	1.11.12.13	103		
		95	96.0	40118	F96T12SP35SHO/MW/CGV	15	12000	8090	7290	3500	73	Ⓢ	\$	+	Ⓢ	1.11.12.13	103		
		95	96.0	40123	F96T12SP41HOMW/CGV	15	12000	8090	7290	4100	72	Ⓢ	\$	+	Ⓢ	1.11.12.13	103		
		95	96.0	16821	F96T12CW/HO/MW/EC/CGV	15	12000	7760	6285	4100	60		\$	+	Ⓢ	1.11.12.13	103		
Germicidal covRguard®																			
T8																			
T8	Medium Bi-Pin (G13)	15	18.0	72761	G15T8/CGV	24	7500										9	106	
		25	18.0	72762	G25T8/CGV	24	7500										9	106	
		30	36.0	72763	G30T8/CGV	24	7500										9	106	
		55	36.0	72764	G55T8/HO/CGV	24	8000										9	106	
Blacklight covRguard®																			
T8																			
T8	Medium Bi-Pin (G13)	15	18.0	72939	F15T8BL/CGV 6PK	6	7500										8	105	
		15	18.0	72940	F15T8BLB/CGV 6PK	6	7500										8	105	
T12																			
T12	Medium Bi-Pin (G13)	20	24.0	72941	F20T12BL/CGV 6PK	6	9000										8	105	
		20	24.0	72942	F20T12BLB/CGV 6PK	6	9000										8	105	
		40	48.0	72943	F40T12BL/CGV 6PK	6	20000										8	105	
		40	48.0	72944	F40T12BLB/CGV 6PK	6	20000										8	105	
Cold Temperature Lamps																			
T5																			
T5	Miniature Bi-Pin (G5)	54	45.2	81521	F54T5/R35/CT	36	30000	4500	4275	3500	86	Ⓢ					11.13.17	101	Plastic Jacket
		54	45.2	81522	F54T5/94U/CT	36	30000	4500	4275	4100	86	Ⓢ					11.13.17	101	Plastic Jacket

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Cold Temperature Lamps (continued)																		
T8	Medium Bi-Pin (G13)	58	60.0	16148	F58T8/R35/CT	24	20000	4680	4450	3500	85	☞				11.13.17	101	Plastic Jacket
		58	60.0	23752	F58T8/R41/CT	24	20000	4680	4450	4100	85					11.13.17	101	Plastic Jacket
		70	72.0	16149	F70T8/R35/CT	18	20000	5670	5386	3500	85	☞				11.13.17	101	Plastic Jacket
		70	72.0	23754	F70T8/R41/CT	18	20000	5670	5386	4100	85	☞				11.13.17	101	Plastic Jacket
High Output (800mA) Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	60	48.0	45976	F48T12/CW/HO-AT	12	12000	3710	3220	4100	60					11.13.17	101	Plastic Jacket w/ Vent Holes
		75	60.0	47353	F60T12/CW/HO-CT	12	12000	4990	4340	4100	60					11.13.17	101	Plastic Jacket
		85	72.0	47346	F72T12/SP35/HO-CT	8	12000	6450	5810	3500	73	☞				11.13.17	101	Plastic Jacket
		85	72.0	48095	F72T12/SPK35HO-CT	8	12000	6590	5930	3500	82	☞				11.13.17	101	Plastic Jacket
		85	72.0	46199	F72T12/CW/HO-AT	8	12000	6150	5350	4100	60					11.13.17	101	Plastic Jacket w/ Vent Holes
		110	96.0	45979	F96T12/SP35/HO-CT	8	12000	8920	8030	3500	73	☞				11.13.17	101	Plastic Jacket
		110	96.0	45912	F96T12/CW/HO-AT	8	12000	8630	7500	4100	60					11.13.17	101	Plastic Jacket w/ Vent Holes
		110	96.0	11918	F96T12/CW/HO/CT	15	12000	8900	7740	4100	60					11.13.17	101	Plastic Jacket
		110	96.0	11919	F96T12/D/HO/CT	15	12000	7600	6610	6500	75	☞				11.13.17	101	Plastic Jacket
T10 Very High Output (1500mA) Recessed Double Contact																		
T10	Recessed Double Contact (R17d)	110	48.0	10742	F48T10/CW	24	9000	6200		4100	60					4	101	
		110	48.0	46196	F48T10/CW-CT	12	9000	6010		4100	60					4.13.17	101	Plastic Jacket
		135	60.0	17135	F60T10/SP30	24	6000	8500		3000	70	☞				4	101	
		135	60.0	39157	F60T10/CW	24	6000	7000		4100	60					4	101	
		135	60.0	13002	F60T10/CW 6PK	6	6000	7000		4100	60					4	101	
		135	60.0	46197	F60T10/CW-CT	12	6000	6790		4100	60					4.13.17	101	Plastic Jacket
		160	72.0	13776	F72T10/CW 15PK	15	9000	9700		4100	60					4	101	
		160	72.0	46198	F72T10/CW-CT	8	9000	9400		4100	60					4.13.17	101	Plastic Jacket
T12 Very High Output (1500mA) Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	110	48.0	34206	F48T12/CW/1500/0	24	10000	7000		4100	60					4	101	
		110	48.0	46195	F48T12/CW/VHO/CT	12	10000	6790		4100	60					4.15.17	101	Plastic Jacket
		170	72.0	13762	F72T12/CW/1500/0	15	10000	10800		4100	60					4	101	
		170	72.0	46200	F72T12/CW/VHO/CT	8	10000	10470		4100	60					4.15.17	101	Plastic Jacket
		220	96.0	13788	F96T12/CW/1500/0	15	10000	14400		4100	60					4	101	
		220	96.0	46202	F96T12/CW/VHO-CT	8	10000	13960		4100	60					4.15.17	101	Plastic Jacket
Appliance Lamps																		
T8																		
T8	Medium Bi-Pin (G13)	18	22.0	10257	F22T8/D/4	24	7500	925	790	6500	75	☞					101	Daylight
		18	24.0	17705	F24T8/CW/4 6PK	24	7500	1225	1040	4100	60						101	
		19	26.0	10702	F26T8/CW/4	24	7500	1275	1085	4100	60						101	
		19	26.0	38199	F26T8/CW/4 6PK	24	7500	1275	1085	4100	60						101	
		19	28.0	17704	F28T8/CW/4 6PK	24	7500	1350	1145	4100	60						101	
		19	30.0	10349	F30T8/CW/4	24	7500	1375	1170	4100	60						101	
T12																		
T12	Medium Bi-Pin (G13)	21	30.0	10355	F30T12/CW	24	7500	1350	1220	4100	60						101	
		25	28.0	10282	F25T12/CW/28 6PK	24	7500	1550	1390	4100	60						101	
		25	28.0	10286	F25T12/D/28	24	7500	1450	1310	6500	75	☞					101	Daylight
		25	33.0	38201	F25T12/CW/33 6PK	24	7500	1860	1675	4100	60						101	
		25	33.0	10299	F25T12/D/33	24	7500	1600	1440	6500	75	☞					101	Daylight
		25	33.0	10293	F25T12/WW/33	24	7500	1910	1720	3000	52						101	Warm White
Blacklight/Blacklight Blue Lamps																		
Blacklight																		
T8	Medium Bi-Pin (G13)	15	18.0	35884	F15T8/BL 6PK	24	7500									8	105	Blacklight, UVA Source
T12	Medium Bi-Pin (G13)	20	24.0	10244	F20T12/BL 6PK	24	9000									8	105	Blacklight, UVA Source
		40	22.5	40537	F40BL/U/3	12	14000									8	105	Blacklight, UVA Source, Mod-U-Line®, 3-5/8 Spacing Between Legs
		40	48.0	10526	F40BL 6PK	24	20000									8	105	Blacklight, UVA Source

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Blacklight/Blacklight Blue Lamps (continued)																		
Blacklight Blue																		
T5	Miniature Bi-Pin (G5)	4	6.0	10019	F4T5/BLB	24	5000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		8	12.0	10077	F8T5/BLB	24	5000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T8	Medium Bi-Pin (G13)	15	18.0	35885	F15T8/BLB 6PK	24	7500									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9	4-Pin (G10q)	22	8.25	25665	FC8T9/BLB	6	12000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium Bi-Pin (G13)	20	24.0	34747	F20T12/BLB 6PK	24	9000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		40	48.0	10531	F40BLB 6PK	24	20000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
Colored Lamps																		
T8																		
T8	Medium Bi-Pin (G13)	32	48.0	15992	F32T8/B/65ECOCVG	36	20000										103	Sleeved Rosco Blue 65
		32	48.0	15993	F32T8/G/89ECOCVG	36	20000										103	Sleeved Rosco Green 89
		32	48.0	15994	F32T8/R/24ECOCVG	36	20000										103	Sleeved Rosco Red 24
T12																		
T12	Medium Bi-Pin (G13)	40	48.0	10514	F40B 6PK	24	20000										101	Phosphor Blue
		40	48.0	10517	F40G 6PK	24	20000										101	Phosphor Green
		40	48.0	81003	F40T12/R24ECOCVG	30	20000										103	Sleeved Rosco Red 24
		40	48.0	81001	F40T12/B65ECOCVG	30	20000										103	Sleeved Rosco Blue 65
		40	48.0	81002	F40T12/G89ECOCVG	30	20000										103	Sleeved Rosco Green 89
		40	48.0	81002	F40T12/G89ECOCVG	30	20000										103	Sleeved Rosco Green 89
Preheat																		
T12	Medium Bi-Pin (G13)	20	24.0	48259	F20T12/R24/CVG	24	9000										103	Sleeved Rosco Red 24
		20	24.0	48260	F20T12/B65/CVG	24	9000										103	Sleeved Rosco Blue 65
		20	24.0	48261	F20T12/G89/CVG	24	9000										103	Sleeved Rosco Green 89
		20	24.0	10231	F20T12/B 6PK	24	9000										101	Phosphor Blue
		20	24.0	10233	F20T12/G 6PK	24	9000										101	Phosphor Green
		20	24.0	10233	F20T12/G 6PK	24	9000										101	Phosphor Green
Gold Lamps																		
T5																		
T5	Miniature (G5)	28	45.2	25768	F28T5/GO/CVG	40	20000	1986	1946								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T8																		
T8	Medium Bi-Pin (G13)	17	24.0	25779	F17T8/GO/ECOCVG	24	15000	970	950								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		25	36.0	25783	F25T8/GO/ECOCVG	24	15000	1590	1558								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		32	48.0	25784	F32T8/GO/ECOCVG	36	15000	2280	2235								103	Gold Sleeved, Blocks UV and Deep Blue Emissions

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Gold Lamps (continued)																		
T8 (continued)																		
T8	Single Pin (Fa8)	59	96.0	25810	F96T8/GO/CSVG	24	1500	4492	4400								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T12																		
T12	Medium Bi-Pin (G13)	40	48.0	25850	F40/GO/CSVG	30	20000	2510	2460								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T12	Single Pin (Fa8)	55	72.0	25854	F72T12/GO/CSVG	15	12000	4150	4070								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		55	96.0	25852	F96T12/GO/CSVG	15	12000	5640	5530								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T12	Recessed Double Contact (R17d)	110	96.0	25853	F96T12/GO/HO/CSVG	15	12000	8010	7850								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
Germicidal Lamps																		
T5	Miniature Bi-Pin (G5)	4	6.0	15872	G4T5	24	6000									16	106	Clear, UVC Source
		6	8.0	15873	G6T5	24	6000									16	106	Clear, UVC Source
		8	12.0	11077	G8T5	24	7500									16	106	Clear, UVC Source
		11	9.0	29495	G11T5	24	8000									16	106	Clear, UVC Source
		16	12.0	16494	G16T5	24	8000									16	106	Clear, UVC Source
		39	36.0	15874	G36T5	24	9000									16	106	Clear, UVC Source
T5	4-Pin (G10g)	65	64.0	15864	G64T5	24	9000									16	106	Clear, UVC Source
		11	9.0	29500	G11T5/AP/SE	24	8000									9.16	106	Clear, UVC Source
		16	13.0	29502	G16T5/AP/SE	24	8000									9.16	106	Clear, UVC Source
		25	22.0	72640	G25T5/AP/SE	24	8000									9.16	106	Clear, UVC Source
		39	34.0	29503	G36T5/AP/SE	24	9000									9.16	106	Clear, UVC Source
		65	64.0	29504	G64T5/AP/SE	24	9000									9.16	106	Clear, UVC Source
T8	Medium Bi-Pin (G13)	95	14.0	29498	G10T8	24	6000									16	106	Clear, UVC Source
		15	18.0	11078	G15T8	24	7500									16	106	Clear, UVC Source
		25	18.0	11082	G25T8	24	7500									16	106	Clear, UVC Source
		30	36.0	11080	G30T8	24	7500									16	106	Clear, UVC Source
		36	48.0	29499	G36T8	24	8000									16	106	Clear, UVC Source
		55	36.0	15875	G55T8/HO	24	8000									16	106	Clear, UVC Source
T10	Medium Bi-Pin (G13)	20	24.0	15876	G20T10	24	8000									9.16	106	Clear, UVC Source
		40	48.0	29532	G40T10	24	8000									9.16	106	Clear, UVC Source
Plant and Aquarium/Terrarium Lamps																		
T8																		
15" T8 Lamps																		
T8	Medium Bi-Pin (G13)	14	15.0	41373	F14T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		14	15.0	40903	F14T8/AR/FS/6PK	24	7500	550		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		14	15.0	41375	F14T8/AR/SA 6PK	24	7500	190		10000	62						104	Aquarium Lamp Saltwater
		14	15.0	41377	F14T8/SR 6PK	24	7500	565		5000	90						104	Aquarium/Terrarium Lamp
18" T8 Lamps																		
T8	Medium Bi-Pin (G13)	15	18.0	22907	F15T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		15	18.0	22910	F15T8/AR/FS 6PK	24	7500	675		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		15	18.0	22920	F15T8/AR/SA 6PK	24	7500	210		10000	62						104	Aquarium Lamp Saltwater
		15	18.0	49892	F15T8/PL/AQ 6PK	24	7500	510		3100	90						104	Plant & Aquarium Wide Spectrum
		15	18.0	22904	F15T8/SR 6PK	24	7500	620		5000	90						104	Aquarium/Terrarium Lamp

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information		
Plant and Aquarium/Terrarium Lamps (continued)																				
T8 (continued)																				
36" T8 Lamps																				
T8	Medium Bi-Pin (G13)	30	36.0	41374	F30T8/AR/FR 6PK	24	7500	675		4000	92						104	Aquarium Lamp Freshwater		
		30	36.0	40904	F30T8/AR/FS/6PK	24	7500	1400		9325	64						104	Aquarium Lamp Freshwater & Saltwater		
		30	36.0	41376	F30T8/AR/SA 6PK	24	7500	315		10000	62						104	Aquarium Lamp Saltwater		
T12																				
24" T12 Lamps																				
T12	Medium Bi-Pin (G13)	20	24.0	22908	F20T12/AR/FR 6PK	24	9000	600		4000	92						104	Aquarium Lamp Freshwater		
		20	24.0	22911	F20T12/AR/FS 6PK	24	9000	950		9325	64						104	Aquarium Lamp Freshwater & Saltwater		
		20	24.0	22922	F20T12/AR/SA 6PK	24	9000	270		10000	62						104	Aquarium Lamp Saltwater		
		20	24.0	49891	F20T12/PL/AQ/ECO	24	9000	750		3100	90						104	Plant & Aquarium Wide Spectrum		
		20	24.0	22905	F20T12/SR 6PK	24	9000	875		5000	90						104	Aquarium/Terrarium Lamp		
36" T12 Lamps																				
T12	Medium Bi-Pin (G13)	30	36.0	41378	F30T12/SR 6PK	24	18000	1100		5000	90						104	Aquarium/Terrarium Lamp		
48" T12 Lamps																				
T12	Medium Bi-Pin (G13)	40	48.0	22909	F40T12/AR/FR 6PK	24	9000	1425		4000	92						104	Aquarium Lamp Freshwater		
		40	48.0	22914	F40T12/AR/FS 6PK	24	9000	2350		9325	64						104	Aquarium Lamp Freshwater & Saltwater		
		40	48.0	22923	F40T12/AR/SA 6PK	24	9000	700		10000	62						104	Aquarium Lamp Saltwater		
		40	48.0	49893	F40PL/AQ/ECO	24	20000	1900		3100	90						104	Plant & Aquarium Wide Spectrum		
		40	48.0	22906	F40T12/SR 6PK	24	20000	2250		5000	90						104	Aquarium/Terrarium Lamp		
Export Outside U.S. and Canada Only																				
T12	Medium Bi-Pin (G13)	40	22.5	14496	F40CW/U6/EX	12	14000	2800	2460	4100	60						102	6" Spacing Between Legs		
		40	22.5	14498	F40D/U6/EX	12	14000	2350	2070	6500	75						102	Daylight, 6" Spacing Between Legs		
		40	48.0	14656	F40CW/EX-30PK	30	20000	3050	2680	4100	60						101			
T12	Single Pin (Fa8)	40	48.0	14488	F40D/EX	30	20000	2550	2240	6500	75						101	Daylight		
		75	96.0	12541	F96T12CW/EX-15PK	15	12000	6150	5660	4100	60						101			
		75	96.0	12543	F96T12/D/EX-15PK	15	12000	5250	4330	6500	75						101	Daylight		
T12	Recessed Double Contact (R17d)	110	96.0	12540	F96T12CW/HO/EX	15	12000	8900	7740	4100	60						101			
		110	96.0	12542	F96T12D/HO/EX-15	15	12000	7600	6610	6500	75						101	Daylight		
Consumer Products																				
T8																				
4" T8																				
T8	Medium Bi-Pin (G13)	32	48.0	15900	F32T8SP30ECO/UPC	36	20000	2800	2660	3000	78				Ⓔ		101			
		32	48.0	15903	F32T8SP35ECO/UPC	36	20000	2800	2660	3500	78				Ⓔ		101			
		32	48.0	11873	F32T8SP35ECO12PK	12	20000	2800	2660	3500	78				Ⓔ		101			
		32	48.0	15909	F32T8SP41ECO/UPC	36	20000	2800	2660	4100	78				Ⓔ		101			
		32	48.0	15904	F32T8/SP41ECO/C	12	20000	2800	2660	4100	78				Ⓔ		101			
		32	48.0	16263	F32T8/RES1/ECO2P	12	20000	2650	2385	4100	78				Ⓔ		101			
		32	48.0	31231	F32T8/RES/ECO2PK	24	15000	2650	2385	4100	78				Ⓔ		101			
		32	48.0	49356	F32T8/KB/ECO2PK	6	20000	2800	2660	4100	78				Ⓔ		104	Kitchen & Bath		
		32	48.0	49357	F32T8/KB/ECO2PK-24	24	20000	2800	2660	3000	78				Ⓔ		104	Kitchen & Bath		
		32	48.0	29566	F32T8/D/ECO2PK	24	20000	2700	2565	3000	78				Ⓔ		101	Daylight		
		32	48.0	87783	F32T8/D/ECO2PK	6	20000	2700	2565	6500	78				Ⓔ		101	Daylight		
		8" T8																		
		T8	Single Pin (Fa8)	59	96.0	10401	F96T8/SP41/UPC	24	15000	5800	5500	4100	78				Ⓔ		101	

Fluorescent Lamps

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covGuard® Shatter Resistant																		
T8 Preheat																		
T8	Medium Bi-Pin (G13)	15	18.0	46627	F15T8/K8/CVG/UPC	24	7500	910		3000	70	Ⓔ				11.13	104	Kitchen & Bath
T12 Rapid Start																		
T12	Medium Bi-Pin (G13)	25	48.0	46625	F4825W/UTSLCVGUPC	30	12000	1800		4100	60					11.13	103	Kitchen & Bath
		40	48.0	80995	F40K8/ECO/CVGUPC	24	20000			3000	70	Ⓔ				11.13	108	
		40	48.0	80999	F40CW/ECO/CVGUPC	30	20000			4100	70					11.13	103	
T12 Rapid Start Watt-Miser®																		
T12	Medium Bi-Pin (G13)	34	48.0	80997	F34CW/MMECCVCGUPC	30	20000			4100	60		\$	+	Ⓢ	11.13	103	
T12 Preheat																		
T12	Medium Bi-Pin (G13)	20	24.0	80984	F20T12CW/ECOCVCGUPC	24	9000			4100	60					11.13	103	Kitchen & Bath
		20	24.0	80985	F20T12K8/ECOCVCGUPC	24	9000			3000	70	Ⓔ				11.13	108	
T12 Instant Start																		
T12	Single Pin (F8)	60	96.0	41002	F96T12CW/MM/CVG/UPC	15	12000	5330	4910	4100	60		\$	+		11.13	103	Watt-Miser®
Plant and Aquarium / Terrarium																		
T8	Medium Bi-Pin (G13)	14		41373	F14T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		14		40903	F14T8/AR/FS/6PK	24	7500	550		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		14		41375	F14T8/AR/SA 6PK	24	7500	190		10000	62						104	Aquarium Lamp Saltwater
		14		41377	F14T8/SR 6PK	24	7500	565		5000	90						104	Aquarium/Terrarium Lamp
		15		22907	F15T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		15		22910	F15T8/AR/FS 6PK	24	7500	675		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		15		22920	F15T8/AR/SA 6PK	24	7500	210		10000	62						104	Aquarium Lamp Saltwater
		15		49892	F15T8/PL/AQ 6PK	24	7500	510		3100	90						104	Plant & Aquarium Wide Spectrum
		15		22904	F15T8/SR 6PK	24	7500	620		5000	90						104	Aquarium/Terrarium Lamp
T12	Medium Bi-Pin (G13)	20		22908	F20T12/AR/FR 6PK	24	9000	600		4000	92						104	Aquarium Lamp Freshwater
		20		22911	F20T12/AR/FS 6PK	24	9000	950		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		20		22922	F20T12/AR/SA 6PK	24	9000	270		10000	62						104	Aquarium Lamp Saltwater
		20		49891	F20T12/PL/AQ/ECO	24	9000	750		3100	90						104	Plant & Aquarium Wide Spectrum
		20		22905	F20T12/SR 6PK	24	9000	875		5000	90						104	Aquarium/Terrarium Lamp
T8	Medium Bi-Pin (G13)	30		41374	F30T8/AR/FR 6PK	24	9000	675		4000	92						104	Aquarium Lamp Freshwater
		30		40904	F30T8/AR/FS/6PK	24	7500	1400		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		30		41376	F30T8/AR/SA 6PK	24	9000	315		10000	62						104	Aquarium Lamp Saltwater
T12	Medium Bi-Pin (G13)	30		41378	F30T12/SR 6PK	24	18000	1100		5000	90						104	Plant & Aquarium Wide Spectrum
		40		22909	F40T12/AR/FR 6PK	24	9000	1425		4000	92						104	Aquarium Lamp Freshwater
		40		22914	F40T12/AR/FS 6PK	24	9000	2350		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		40		22923	F40T12/AR/SA 6PK	24	9000	700		10000	62						104	Aquarium Lamp Saltwater
		40		49893	F40PL/AQ/ECO	24	20000	1900		3100	90						104	Plant & Aquarium Wide Spectrum
		40		22906	F40T12/SR 6PK	24	20000	2250		5000	90						104	Aquarium/Terrarium Lamp

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 4-32).

Operating Notes

General Operation

GE fluorescent lamps should be used only with auxiliary equipment designed to produce proper characteristics. Specifications for auxiliary equipment are covered by ANSI. Specifications for auxiliary equipment not included in ANSI Standards are available from GE Lighting.

Factors Affecting Lamp Performance

Ballasts

The three basic types of ballasts for fluorescent lamps are Preheat (PH), Instant Start (IS), and Rapid Start (RS). In general, lamps identified as preheat, rapid start or instant start should be used only on the corresponding ballast type. Electronic ballasts are presently available in both instant start and rapid start designs. Ballasts that operate with output currents below recommended levels, either by design or poor performance, will reduce fluorescent lamp life.

Application – Choosing the appropriate ballast for an application can have an impact on lamp life. For example, T8 lamps with electronic Instant Start ballasts should not be used in applications with electronic controls (such as occupancy sensors). The frequent switching will significantly reduce lamp life. Use only programmed rapid start ballasts in these situations.

Operating Characteristics – Fluorescent lamp life is strongly affected by the ballast. ANSI has set standards for fluorescent ballasts that will ensure proper operation of fluorescent lamps. Ballast characteristics that have a significant effect on lamp life are Current Crest Factor, Starting Time, Cathode Voltage and Open Circuit Voltage.

General Information

Lumens

Nominal Initial Lumens refer to the nominal light output of the lamp after 100 hours of operation at 25° C. **Nominal Mean Lumens** refer to the nominal light output of the lamp at 40% of its rated life. Some values are based on engineering calculations derived from extrapolation of initial measured lumens.

A self-ballasted lamp is measured using its integral ballast. Lamps without an integral ballast are measured using reference ballasts.

Lumens produced by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. For lighting design calculations, refer to the ballast manufacturer's published data for the appropriate "Ballast Factor."

Nominal Watts

Wattage is classified in accordance with American National Standards Institute standards and may not be the same as the wattage run on a reference ballast. The nominal wattage as defined by ANSI may vary from the listed wattage. Watts consumed by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings.

Rated Life

The rated life (hours) is the approximate median life when lamps are operated for three hours per start under laboratory conditions using an ANSI reference ballast or GE Lighting specifications where no industry standards exist. Some lamps are rated at 12 hours per start where noted.

Ballast Factor – This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast under laboratory conditions. For example, a ballast having a ballast factor of 0.93 will result in the lamp emitting 93% of its rated lumen output.

High Frequency – All fluorescent lamps operate more efficiently when driven at frequencies greater than 15 kHz. Four-foot fluorescent lamps operate approximately 10% more efficiently, while eight-foot lamps improve efficiency by about 5%. This efficiency improvement is one reason for the popularity of electronic ballasts.

Temperature

Light output and watts of a fluorescent lamp are affected by the ambient temperature, and by drafts. Most fluorescent lamps reach their maximum light output at room temperatures or at "luminaire temperatures." All-Weather fluorescent lamps are designed with jackets that improve performance in low-temperature environments.

Luminaire

The design of the lighting fixture (luminaire) affects the ambient temperature in which the fluorescent lamps will be operating. A fixture that operates too cool or warm will result in lower light output from the lamps and reduce illumination levels.

Starting

The life of a fluorescent lamp is affected by the number of times the lamp is started. Starting results in shorter lamp life, while continuous operation will provide the longest lamp life. All fluorescent lamps, except where noted, have life ratings based on three hours per start.

Performance Notes:

T8 Lamps:

- Rated life for 2 ft through 4 ft. Starcoatl® Ecolux® Medium Bi-Pin T8 Lamps is Rated life on programmed rapid start circuits.
- Rated life for the F40T8 is rated life on rapid start circuits. Rated life for these linear lamps on instant start electronic circuits is reduced by 25%.

T12 Lamps:

- Life of 4' T12 lamps on single-lamp, rapid start ballasts may be reduced.

Color Temperature/Chromaticity

Approximate color temperature of fluorescent is measured using industry standard methods and is based on a nominal 40-watt source. Fluorescent sources operating at different lamp currents will have slightly shifted color appearances when compared to the corresponding 40-watt sources.

Scotopic/Photopic Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic Vision) and cones to yellow light (Photopic Vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens, for the light source, on an ANSI reference ballast. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Fluorescent Lamps

Scotopic/Photopic (S/P) Ratio:

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

T5	S/P Ratio	F17 and F25T8	S/P Ratio	F32 and F32T8/WM	S/P Ratio
830	1.3	SP30	1.3	SP30	1.3
835	1.5	SP35	1.4	SP35	1.4
841	1.7	SP41	1.6	SP41	1.6
850	1.9			SP50	1.9
865	2.2	F17 and F25T8	S/P Ratio	SP65	2.1
F28T8	S/P Ratio	SPX30	1.3	F32T8 and F32T8/HL	S/P Ratio
SP30	1.3	SPX35	1.5	SPX30	1.3
SP35	1.5	SPX41	1.8	SPX35	1.5
SP41	1.8	SPX50	2.0	SPX41	1.8
SP50	2.0	SPX65	2.3	SPX50	2.0
				SPX65	2.3

Footnotes

- 1 Watt-Miser®, Watt-Miser® Plus, F28T8, F32T8/25W and Energy Efficient (EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. These lamps are not recommended for use with dimming systems. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F34 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps and F28UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart® programmed rapid start ballasts.
- 3 F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.
- 4 Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.
- 6 Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).
- 7 Performance data based on engineering estimates.
- 8 **CAUTION:** Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.

- 9 **WARNING:** Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.
- 10 Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
- 11 Lumen rating based on approximate 3% reduction in light output with covRguard® sleeving.
- 12 Do not use covRguard® HO lamps in watertight or airtight fixtures.
- 13 Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
- 14 Life rating is based on 12 hrs. per start.
- 15 Lumen rating based on approximate 3% reduction in light output with jacket.
- 16 Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
- 17 Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).
- 18 T8 lamps run on Instant Start ballasts should not be used in conjunction with electronic controls such as occupancy sensors. The frequent switching will significantly impact lamp life and void any warranties. Programmed Rapid Start ballasts such as GE's UltraStart® ballast should be used in these situations.
- 19 T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)

Warning and Caution Notices

101

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

102

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

CAUTION

Improper handling may cause breakage

- Do not carry lamp by bracket

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

103

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

104

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

- Avoid direct water/liquid contact

CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

105

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

CAUTION

Lamp emits UV radiation which may cause eye/skin irritation. RG-1

- Minimize exposure

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

106

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Lamp emits UV radiation which may cause eye/skin injury. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

107

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

- Do not open – there are no serviceable parts inside

- Do not drill or cut into plastic parts

- Avoid direct water/liquid contact

- Fully insert plug

- Use indoors only

CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Lamp is not replaceable. Do not attempt to remove lamp from fixture

- Use in permanent installation only — not for portable use

Unit will fail if not installed properly

- Follow installation instructions

108

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

- Avoid direct water/liquid contact

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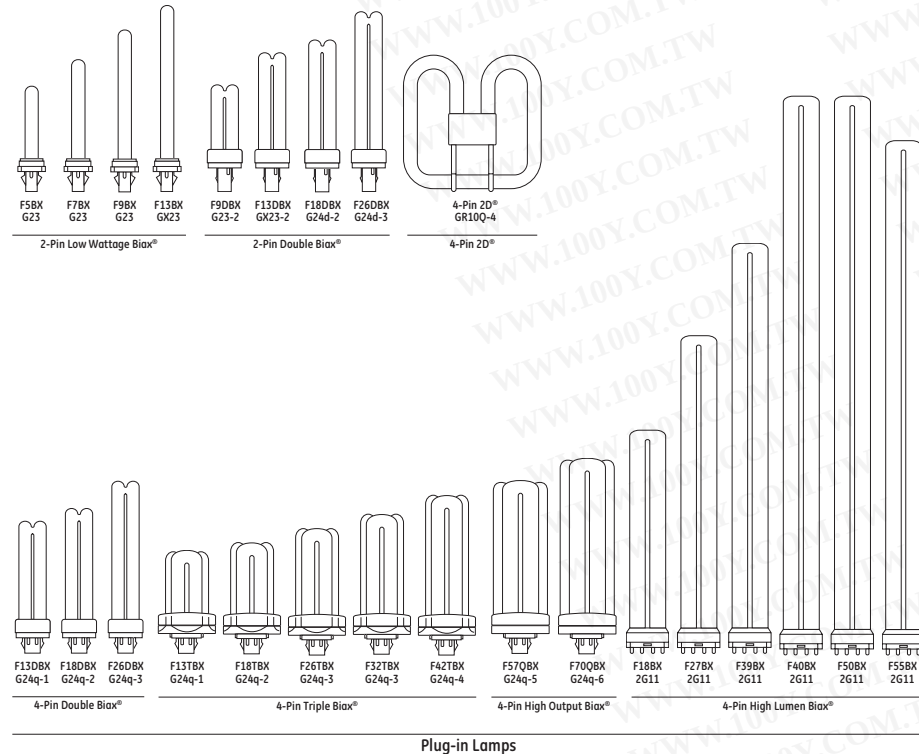
Compact Fluorescent Lamps

Bulb Identification

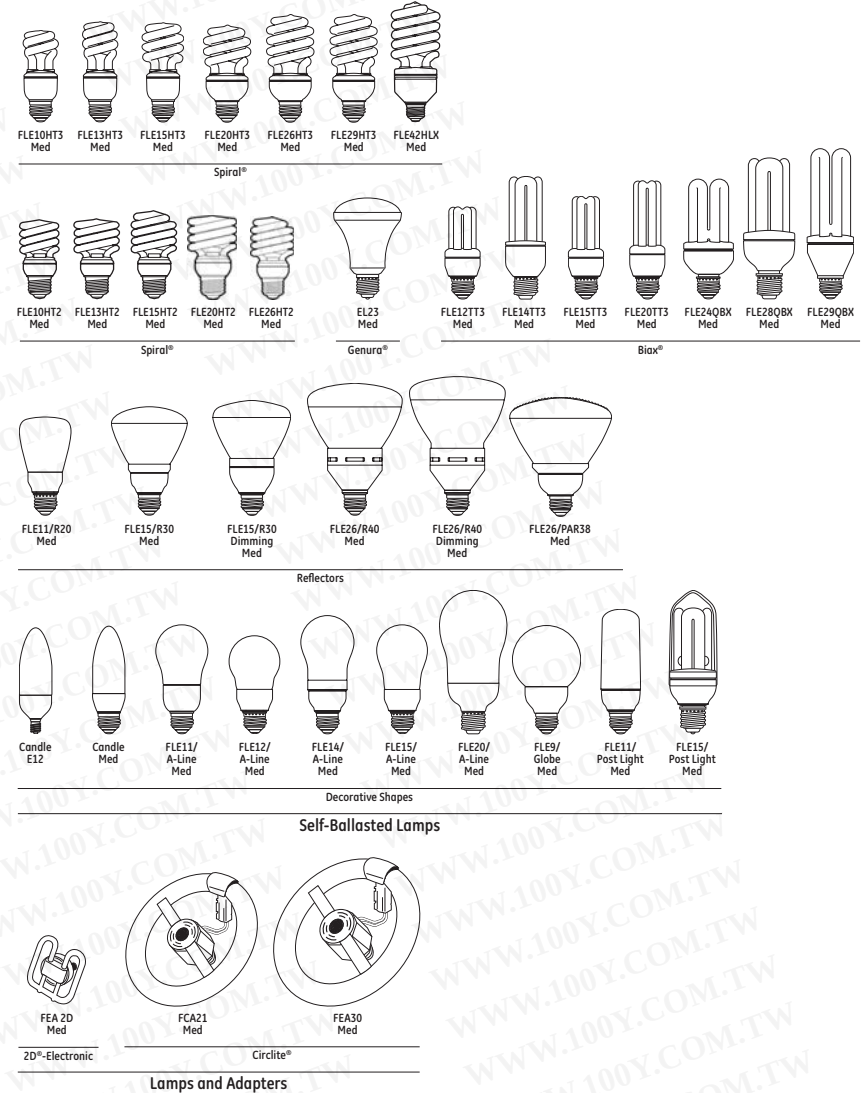


NOMINAL LENGTH:
Overall length including base or pins.
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Lamp Locator

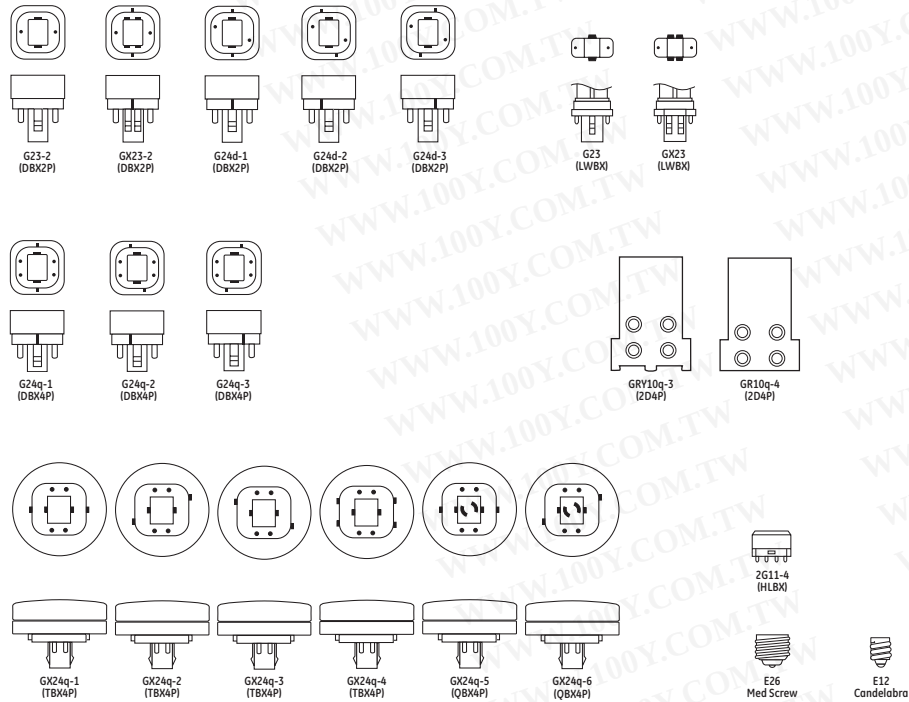


Lamp Locator (continued)



Compact Fluorescent Lamps

Base Identification



Introduction

GE Compact Fluorescent lamps offer many advantages:

- Dramatic energy cost savings...up to 77% vs. incandescent lamps of comparable light output
- Extra long life...most last 8 to 10 times longer, and some last up to 20 times longer, than standard incandescent lamps
- High light output comparable to, and in some cases exceeding, incandescent lamps replaced
- Excellent color rendering...rare earth tri-phosphor provides such high-quality color you won't believe it's fluorescent. Most types offer a choice of color options, from warm to cool, to let you select the tone and atmosphere you need.
- A choice of wattages, shapes and sizes to meet your lighting needs. Designed to fit everything from table lamps to wall sconces and ceiling fixtures.
- Many lamps use amalgam technology which provides stable lumen performance when operated in any position, over a wider range of ambient temperatures.

Compact Fluorescent Brand Name Cross-Reference

GE	OSRAM/SYLVANIA	PHILIPS
2D®	—	—
Biax®	Dulux® S	PL-S
High Lumen Biax®	Dulux® L	PL-L
Double Biax®	Dulux® D, D/E	PL-C
Triple Biax®	Dulux® T/E	PL-T
Quad Biax®	—	—
High Output Biax®	—	PL-H
Spiral®	Dulux® EL Twist	EL Twist
Genura®	Dura-One	—

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

For the most up-to-date product information, see www.gelighting.com.

Product Information

Plug-in Lamps

2-Pin Low Wattage Biax® (pg 5-7)

- Compact size offers fixture and design flexibility
- GX23 and G23 bases are preheat lamps with internal starters, providing flicker-free instant on
- 13-watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm and cool color temperatures
- TCLP Compliant

4-Pin High Lumen Biax® (pg 5-7)

- Available in a range of sizes and wattages for innovative compact luminaires
- High efficiency and outstanding performance in fixtures make them ideal for 2X2, 1X1 and indirect fixtures
- Available in warm to cool color temperatures; excellent color rendering

2-Pin Double Biax® (pg 5-8)

- More compact than low-wattage Biax® CFLs with higher lumen output—suitable for a broad range of applications
- Preheat lamps with starters; not suitable for use with dimming ballasts
- 26-watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Double Biax® (pg 5-8)

- More compact than low-wattage Biax® CFLs with higher lumen output—suitable for a broad range of applications
- Dimmable and compatible with electronic ballasts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Triple Biax® (pg 5-8)

- GE's shortest, most compact Biax® lamp. 17-31% shorter than similar wattage Double Biax® lamps.
- 4-Pin, dimmable and compatible with electronic ballasts
- Available in a wide range of wattages: from 13 to 42 watts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin High Output Biax® (pg 5-9)

- GE's highest light output compact fluorescent lamps
- High efficacy 72-75 LPW
- Dimmable, available in 5 colors (2,700 to 5,000K)
- Suitable for high-bay lighting
- TCLP Compliant

4-Pin 2D® (pg 5-9)

- Unique shape suitable for broad range of applications
- Uniform light distribution
- High light output – up to 200W incandescent equivalent

Self-Ballasted Lamps

Spiral® (pg 5-10)

- Long life – up to 12,000 hours
- One-piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T2 & T3 Spiral® CFLs provide economical solution with small overall size
- The 42-watt T4 Spiral® CFL provides a 150W incandescent replacement in the smallest possible size (fits an 8.5" harp)

Biax® (pg 5-11)

- Super long life – from 10,000 to 15,000 hour rating
- One-piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T3 Mini Biax® CFL provides longest life with smallest overall size
- Selected lamps offer 3-way or dimming functionality

Reflectors (pg 5-11)

- R20, R30, R40 and PAR38 glass reflectors available to meet application needs
- Medium based; fits most incandescent reflector applications
- R30 and R40 lamps available with dimming functionality

Genura® (pg 5-12)

- Extremely long life – rated life of 15,000 hours
- One-piece unit screws directly into incandescent sockets
- Provides more light than 75W incandescent reflector lamps
- Electrodeless design

Decorative Shapes (pg 5-12)

- Variety of shapes (A-Line, Bullet, Candle, Globe, and Post) and wattages to meet all needs
- One-piece unit screws directly into incandescent sockets
- Candle-shaped CFLs available in both medium base and candelabra base

Lamps and Adapters

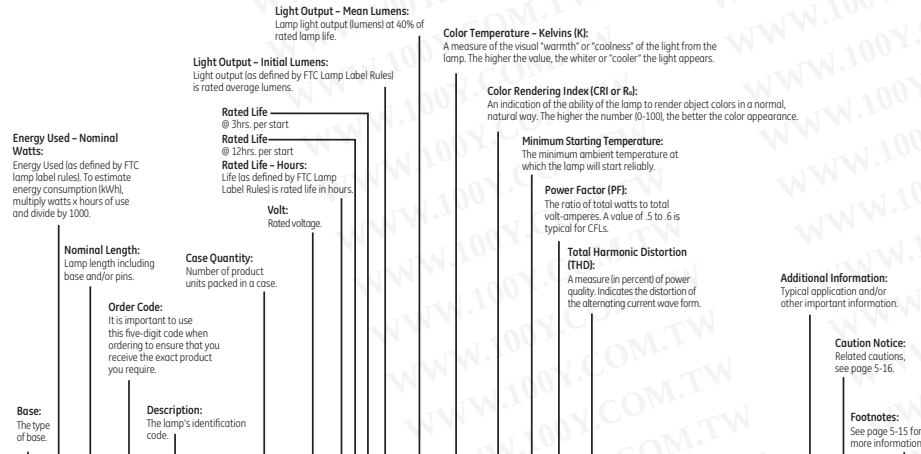
CircLite® (pg 5-13)

- Lamp and adapter are separate. Replaceable lamps plug into adapters that screw into standard incandescent sockets.
- Lamps rated for 10,000 hours; adapters rated for 40,000 hours (4 lamp lives)

Compact Fluorescent Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Compact Fluorescent lamp specifications and when ordering



Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min. Start. Temp (°F)	Power Fact.	THD	TCLP Compliant Plug-Ins	EOL Protection Plug-Ins	ENERGY STAR® Screw-Ins	Additional Information	Caution Notice	Footnotes

Self-Ballasted Lamps

Spiral®																				
Med	10	4.4	15829	FL E10 HT3 / 2 / 827	10	120	8000	520	420	2700	82	5	0.6	120					T1 Spiral®, Baled	153



FL E 10 HT3 / 2 / 827

Identifies as Fluorescent Lamp
Identifies wattage
Identifies additional information
Identifies lamp shape
Identifies lamp's finish or color

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 5-4.
4. Find your lamp in the table containing the bulb shape, size and base.

Base	Watts	Nom. Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min Starting Temp (°F)	TCLP Compliant Plug-Ins	EOL Protection Plug-Ins	Additional Information	Caution Notice	Footnotes

Plug-In Lamps

2-Pin Low Wattage Biac®

G23	5	4.2	97551	F58X/827/ECO	100	10000	265	220	2700	82		*			151	1.2
	5	4.2	97552	F58X/827/CDECO	6	10000	265	220	2700	82		*		Corded	151	1.2
	5	4.2	97553	F58X/841/ECO	100	10000	265	220	4100	82		*			151	1.2
	7	5.3	97554	F78X/827/ECO	100	10000	425	350	2700	82		*			151	1.2
	7	5.3	97555	F78X/827/CDECO	6	10000	425	350	2700	82		*		Corded	151	1.2
	7	5.3	97556	F78X/835/ECO	100	10000	425	350	3500	82		*			151	1.2
	7	5.3	97557	F78X/841/ECO	100	10000	425	350	4100	82		*			151	1.2
	9	6.6	97558	F98X/827/ECO	100	10000	600	500	2700	82		*			151	1.2
	9	6.6	97559	F98X/827/CDECO	6	10000	600	500	2700	82		*		Corded	151	1.2
	9	6.6	97560	F98X/835/ECO	100	10000	600	500	3500	82		*			151	1.2
	9	6.6	97561	F98X/841/ECO	100	10000	600	500	4100	82		*			151	1.2
G23	13	7.0	97573	F138X/827/ECO	100	10000	825	710	2700	82		*			151	1.2
	13	7.0	97567	F138X/827/CDECO	6	10000	825	710	2700	82		*		Corded	151	1.2
	13	7.0	97574	F138X/830/ECO	100	10000	825	710	3000	82		*			151	1.2
	13	7.0	97569	F138X/835/ECO	100	10000	825	710	3500	82		*			151	1.2
	13	7.0	97568	F138X/835/ECO100P	100	10000	825	710	3500	82		*		Bulk Pack	151	1.2
	13	7.0	97571	F138X/841/ECO	100	10000	825	710	4100	82		*			151	1.2
	13	7.0	97570	F138X/841/ECO100P	100	10000	825	710	4100	82		*		Bulk Pack	151	1.2
	13	7.0	97572	F138X/850/ECO	100	10000	784	675	5000	80		*			151	1.2
	13	7.0	97562	F138X/E/827/ECO	100	10000	825	710	2700	82		*		Internal Electronic Starter	151	1.2
	13	7.0	97563	F138X/E/830/ECO	100	10000	825	710	3000	82		*		Internal Electronic Starter	151	1.2
	13	7.0	97564	F138X/E/835/ECO	100	10000	825	710	3500	82		*		Internal Electronic Starter	151	1.2
	13	7.0	97565	F138X/E/841/ECO	100	10000	825	710	4100	82		*		Internal Electronic Starter	151	1.2
	13	7.0	97566	F138X/E/850/ECO	100	10000	785	675	5000	82		*		Internal Electronic Starter	151	1.2

4-Pin High Lumens Biac®

G21	18	9.0	16649	F188X/SPX30 10PK	40	10000	1200	1080	3000	82	25				151	1.2,4.6
	18	9.0	16053	F188X/SPX35 10PK	40	10000	1200	1080	3500	82	25				151	1.2,4.6
	18	9.0	16940	F188X/SPW41 10PK	40	10000	1200	1080	4100	82	25				151	1.2,4.6
	18	10.0	17174	F188X/SPK30S15 10PK	40	20000	1250	1130	3000	82	50				151	1.2,6.13
	18	10.5	17175	F188X/SPK35S15 10PK	40	20000	1250	1130	3500	82	50				151	1.2,6.13
	18	10.5	17176	F188X/SPW41RS15 10PK	40	20000	1250	1130	4100	82	50				151	1.2,6.13
	18	10.5	12521	F188X/SPW65RS	40	20000	1160	1050	6500	82	50				151	1.2,6.13
	27	4.9	16944	F278X/SPK30S15 10PK	40	12000	1800	1620	3000	82	50				151	1.2,6.13
	27	12.8	16948	F278X/SPK35S15 10PK	40	12000	1800	1620	3500	82	50				151	1.2,6.13
	27	12.8	16951	F278X/SPW41RS15 10PK	40	12000	1800	1620	4100	82	50				151	1.2,6.13
	39		16538	F398X/SPK30S15 10PK	40	12000	2850	2510	3000	82	50				151	1.2,6.13
	39	16.5	15867	F398X/SPK35S15 10PK	40	12000	2850	2510	3500	82	50				151	1.2,6.13
	39	16.5	16952	F398X/SPW41RS15 10PK	40	12000	2850	2510	4100	82	50				151	1.2,6.13
	40	22.5	16953	F4030BX/SPX30 10P	40	20000	3150	2840	3000	82	50				151	1.2,6.13
	40	22.5	20444	F4030BX/SPX30-36	36	20000	3150	2840	3000	82	50			Bulk Pack	151	1.2,6.13
	40	22.5	16648	F4030BX/SPX35	40	20000	3150	2840	3500	82	50				151	1.2,6.13
	40	22.5	20446	F4030BX/SPX35-36	36	20000	3150	2840	3500	82	50			Bulk Pack	151	1.2,6.13
	40	22.5	16954	F4030BX/SPW41	40	20000	3150	2840	4100	82	50				151	1.2,6.13
	40	22.5	20447	F4030BX/SPW41-36	36	20000	3150	2840	4100	82	50			Bulk Pack	151	1.2,6.13
	40	22.5	10490	F4030BX/SPX50SRS	36	20000	2900	2700	5000	80	50			Bulk Pack	151	1.2,6.13
	50	22.5	20898	F508X/SPK30S15 10PK	40	14000	4000	3400	3000	82	50			Bulk Pack	151	1.2,6.13
	50	22.5	20899	F508X/SPK35S15 10PK	40	14000	4000	3400	3500	82	50				151	1.2,6.13
	50	22.5	20900	F508X/SPW41RS15 10PK	40	14000	4000	3400	4100	82	50				151	1.2,6.13
	55	20.7	31951	F558X/830	25	10000	4800	4080	3000	82	50				151	1.2,6.13
	55	20.7	31952	F558X/835	25	10000	4800	4080	3500	82	50				151	1.2,6.13
	55	20.7	31953	F558X/840	25	10000	4800	4080	4100	82	50				151	1.2,6.13
	55	5.8	45851	F558X/AR/FS 6PK	6	10000	4800	4080	9325	67	50			Fresh and Salt Water Phosphor	151	1.2,6.13
	55		45859	F558X/AR/FS/BULK	25	10000	4800	4080	9325	67	50			Fresh and Salt Water Phosphor	151	1.2,6.13

Compact Fluorescent Lamps

Base	Watts	Nom. Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Rated Life @ 12 Hrs	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min Starting Temp (°F)	TCLP Compliant Plug-Ins	EOL Protection Plug-Ins	Additional Information	Caution Notice	Footnotes
Plug-In Lamps (continued)																	
2-Pin Double Biak®																	
	9	4.3	97576	F90BK23/B27/ECO	50	10000		550	470	2700	82		●	▲		151	1,2,17
	9	5.43	97575	F90BK23/B41/ECO	50	10000		550	470	4100	82		●	▲		151	1,2,17
	13	4.7	97586	F130BK23/B27/ECO	50	10000		810	685	2700	82		●	▲		151	1,2,17
	13	4.7	97585	F130BK/B27/CD	6	10000		810	685	2700	82		●	▲	Corded	151	1,2,17
	13	4.7	97587	F130BK23/B30/ECO	50	10000		810	685	3000	82		●	▲		151	1,2,17
	13	4.7	97588	F130BK23/B35/ECO	50	10000		810	685	3500	82		●	▲		151	1,2,17
	13	4.7	97589	F130BK23/B41/ECO	50	10000		810	685	4100	82		●	▲		151	1,2,17
	13	4.7	97590	F130BK/B27/ECO	50	10000		900	755	2700	82		●	▲		151	1,2,17
	13	5.3	97591	F130BK/B30/ECO	50	10000		900	755	3000	82		●	▲		151	1,2,17
	13	5.3	97592	F130BK/B35/ECO	50	10000		900	755	3500	82		●	▲		151	1,2,17
	13	5.3	97593	F130BK/B41/ECO	50	10000		900	755	4100	82		●	▲		151	1,2,17
	13	5.3	97577	F180BK/B27/ECO	50	10000		1200	980	2700	82		●	▲		151	1,2,17
	18	6.1	97577	F180BK/B27/ECO	50	10000		1200	980	2700	82		●	▲		151	1,2,17
	18	6.1	97578	F180BK/B30/ECO	50	10000		1200	980	3000	82		●	▲		151	1,2,17
	18	6.1	97579	F180BK/B35/ECO	50	10000		1200	980	3500	82		●	▲		151	1,2,17
	18	6.1	97580	F180BK/B41/ECO	50	10000		1200	980	4100	82		●	▲		151	1,2,17
	26	6.7	97606	F260BK/B27/ECO	50	10000		1710	1460	2700	82		●	▲		151	1,2,17
	26	6.7	97607	F260BK/B30/ECO	50	10000		1710	1460	3000	82		●	▲		151	1,2,17
	26	6.7	97608	F260BK/B35/ECO	50	10000		1710	1460	3500	82		●	▲		151	1,2,17
	26	6.7	97609	F260BK/B41/ECO	50	10000		1710	1460	4100	82		●	▲		151	1,2,17
	26	6.7	97602	F260BK/E/B27/ECO	50	10000		1710	1460	2700	82		●	▲	Internal Electronic Starter	151	1,2,15,17
	26	6.7	97603	F260BK/E/B30/ECO	50	10000		1710	1460	3000	82		●	▲	Internal Electronic Starter	151	1,2,15,17
	26	6.7	97604	F260BK/E/B35/ECO	50	10000		1710	1460	3500	82		●	▲	Internal Electronic Starter	151	1,2,15,17
	26	6.7	97605	F260BK/E/B41/ECO	50	10000		1710	1460	4100	82		●	▲	Internal Electronic Starter	151	1,2,15,17
4-Pin Double Biak®																	
	13	5.0	97594	F130BK/B27/ECO4P	50	12000 20000			755	2700	82		●	▲		151	1,2,6,17
	13	5.0	97595	F130BK/B30/ECO4P	50	12000 20000		900	755	3000	82		●	▲		151	1,2,6,17
	13	5.0	97596	F130BK/B35/ECO4P	50	12000 20000		900	755	3500	82		●	▲		151	1,2,6,17
	13	5.0	97597	F130BK/B41/ECO4P	50	12000 20000		900	755	4100	82		●	▲		151	1,2,6,17
	18	5.8	97598	F180BK/B27/ECO4P	50	12000 20000		1200	970	2700	82		●	▲		151	1,2,5,6,17
	18	5.8	97599	F180BK/B30/ECO4P	50	12000 20000		1200	970	3000	82		●	▲		151	1,2,5,6,17
	18	5.8	97600	F180BK/B35/ECO4P	50	12000 20000		1200	970	3500	82		●	▲		151	1,2,5,6,17
	18	5.8	97601	F180BK/B41/ECO4P	50	12000 20000		1200	970	4100	82		●	▲		151	1,2,5,6,17
	26	6.4	97610	F260BK/B27/ECO4P	50	12000 20000		1710	1440	2700	82		●	▲		151	1,2,6,17
	26	6.4	97611	F260BK/B30/ECO4P	50	12000 20000		1710	1440	3000	82		●	▲		151	1,2,6,17
	26	6.4	97612	F260BK/B35/ECO4P	50	12000 20000		1710	1440	3500	82		●	▲		151	1,2,6,17
	26	6.4	97613	F260BK/B41/ECO4P	50	12000 20000		1710	1440	4100	82		●	▲		151	1,2,6,17
4-Pin Triple Biak®																	
	13	4.2	97623	F131TB/B27/AP/ECO	10	12000 20000		900	755	2700	82		●	▲	Non-Amalgam	151	1,2,6,17
	13	4.2	97619	F131TB/B27/AP/ECO	10	12000 20000		900	755	2700			●	▲		151	1,2,6,12,17
	13	4.2	97620	F131TB/B30/AP/ECO	10	12000 20000		900	755	3000			●	▲		151	1,2,6,12,17
	13	4.2	97621	F131TB/B35/AP/ECO	10	12000 20000		900	755	3500	82		●	▲		151	1,2,6,12,17
	13	4.2	97622	F131TB/B41/AP/ECO	10	12000 20000		900	755	4100			●	▲		151	1,2,6,12,17
	18	4.8	97628	F181TB/B27/AP/ECO	10	12000 20000		1200	1010	2700	82		●	▲	Non-Amalgam	151	1,2,6,17
	18	4.8	97624	F181TB/B27/AP/ECO	10	12000 20000		1200	1010	2700	82		●	▲		151	1,2,6,12,17
	18	4.8	97625	F181TB/B30/AP/ECO	10	12000 20000		1200	1010	3000			●	▲		151	1,2,6,12,17
	18	4.8	97626	F181TB/B35/AP/ECO	10	12000 20000		1200	1010	3500	82		●	▲		151	1,2,6,12,17
	18	4.8	97627	F181TB/B41/AP/ECO	10	12000 20000		1200	1020	4100	82		●	▲		151	1,2,6,12,17
	26	5.2	97618	F261TB/B27/AP/ECO	10	12000 20000		1710	1440	2700	82		●	▲	Non-Amalgam	151	1,2,6,17
	26	5.2	97614	F261TB/B27/AP/ECO	10	12000 20000		1710	1440	2700	82		●	▲		151	1,2,6,12,17
	26	5.2	97615	F261TB/B30/AP/ECO	10	12000 20000		1710	1440	3000	82		●	▲		151	1,2,6,12,17
	26	5.2	97616	F261TB/B35/AP/ECO	10	12000 20000		1710	1440	3500	82		●	▲		151	1,2,6,12,17
	26	5.2	97617	F261TB/B41/AP/ECO	10	12000 20000		1710	1440	4100	82		●	▲		151	1,2,6,12,17
	32	5.5	97629	F321TB/B27/AP/ECO	10	12000 20000		2200	1850	2700	82		●	▲		151	1,2,6,12,17

Base	Watts	Nom. Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Rated Life 12 Hrs	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min Starting Temp (°F)	TCLP Compliant Plug-Ins	EOL Protection Plug-Ins	Additional Information	Caution Notice	Footnotes
Plug-In Lamps (continued)																	
4-Pin Triple Biok® (continued)																	
	32	5.5	97630	F32T8/B30/A/ECO	10	12000	20000	2200	1850	3000	82		●	▲		151	1,2,6,12,17
	32	5.5	97631	F32T8/B35/A/ECO	10	12000	20000	2200	1850	3500	82		●	▲		151	1,2,6,12,17
	32	5.5	97632	F32T8/B41/A/ECO	10	12000	20000	2200	1850	4100	82		●	▲		151	1,2,6,12,17
	42	6.4	97633	F42T8/B27/A/ECO	10	12000	20000	3200	2690	2700	82		●	▲		151	1,2,6,12,17
	42	6.4	97634	F42T8/B30/A/ECO	10	12000	20000	3200	2690	3000	82		●	▲		151	1,2,6,12,17
	42	6.4	97635	F42T8/B35/A/ECO	10	12000	20000	3200	2690	3500	82		●	▲		151	1,2,6,12,17
	42	6.4	97636	F42T8/B41/A/ECO	10	12000	20000	3200	2690	4100	82		●	▲		151	1,2,6,12,17
4-Pin High Output Biok®																	
	57	7.1	48861	F57QB/B27/A/PEOL	10	12000		4300	3700	2700	82		●	▲		151	1,2,6,12,17
	57	7.1	48862	F57QB/B30/A/PEOL	10	12000		4300	3700	3000	82		●	▲		151	1,2,6,12,17
	57	7.1	48863	F57QB/B35/A/PEOL	10	12000		4300	3700	3500	82		●	▲		151	1,2,6,12,17
	57	7.1	48864	F57QB/B41/A/ECO	10	12000		4300	3700	4100	82		●	▲		151	1,2,6,12,17
	57	5.2	93404	F57QB/B50A/PEOL	10	12000		4300	3700	5000	82		●	▲		151	1,2,6,12,17
	70	8.2	48865	F70QB/B27/A/PEOL	10	12000		5200	4470	2700	82		●	▲		151	1,2,6,12,17
	70	8.2	48866	F70QB/B30A/PEOL	10	12000		5200	4470	3000	82		●	▲		151	1,2,6,12,17
	70	8.2	48867	F70QB/B35A/PEOL	10	12000		5200	4470	3500	82		●	▲		151	1,2,6,12,17
	70	8.2	48868	F70QB/B41/A/ECO	10	12000		5200	4470	4100	82		●	▲		151	1,2,6,12,17
	70	8.2	93406	F70QB/B50A/PEOL	10	12000		5200	4470	5000	82		●	▲		151	1,2,6,12,17
4-Pin 2D®																	
	10	3.6	21301	F10D2/B27/AP	60	10000		650	545	2700	82					151	1,2,3,6
	16	5.5	22169	F16D2/B27/AP	50	10000		1050	880	2700	82					151	1,2,3,6
	16	5.5	22177	F16D2/B35/AP	50	10000		1050	880	3500	82					151	1,2,3,6
	21	5.5	21303	F21D2/B27/AP	50	10000		1350	1135	2700	82					151	1,2,3,6
	21	5.5	22178	F21D2/B35/AP	50	10000		1350	1135	3500	82					151	1,2,3,6
	28	8.1	22172	F28D2/B27/AP	20	10000		2050	1720	2700	82					151	1,2,3,6
	28	8.1	22180	F28D2/B35/AP	20	10000		2050	1720	3500	82					151	1,2,3,6
	38	8.1	21305	F38D2/B27/AP	20	10000		2850	2395	2700	82		●			151	1,2,3,6
	38	8.1	25427	F38D2/B27/AP/CD	5	10000		2850	2395	2700	82		●		Carded	151	1,2,3,6
	38	8.1	22181	F38D2/B35/AP	20	10000		2850	2395	3500	82		●			151	1,2,3,6
	55	8.1	36358	F55D2/B30A/74P/B	20	10000		4000	3400	3000	82				Torchiere Replacement Lamp	151	1,2,3,6
	55	8.1	40184	F55D2/B30A/PCD	5	10000		4000	3400	3000	82				Torchiere Replacement Lamp, Carded	151	1,2,3,6

Compact Fluorescent Lamps

Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp. K	CRI	Min. Start Temp (°F)	Power Factor	THD	ENERGY STAR® Screws-In	Additional Information	Caution Notice	Footnotes
Self-Ballasted Lamps																		
	Spiral®																	
	10	4.4	15829	FLE10HT3/2/B27	10	120	8000	520	420	2700	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	10	4.4	49906	FLE10HT3/2/SW/CD	12	120	8000	520	420	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	10	4.4	49907	FLE10HT3/2/SW/CD2PK	3	120	8000	520	420	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	10	4.4	25182	FLE10HT3/2/B41	10	120	8000	520	420	4100	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	10	4.4	89082	FLE10HT3/2/D/CD	12	120	8000	500	400	6500	82	5	0.6	120	★	Carded Single Pack		
	10	4.4	85393	FLE10HT3/2/D/2PK	3	120	8000	500	400	6500	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	10	4.4	80936	FLE10HT3/2/XL	10	120	12000	550	440	2700	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	10	4.4	47430	FLE10HT3/2/XL/CD	12	120	12000	550	440	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	10	4.4	49671	FLE10HT3/2/XL2PK	3	120	12000	550	440	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	10	3.7	86241	FLE10HT2/2/B27	10	120	12000	580	460	2700	82	5	0.5	120	★	T2 Spiral®, Boxed	153	1,7,8,9,10
	10	3.7	85382	FLE10HT2/2/SW/CD	3	120	12000	580	464	2700	82	5	0.5	120	★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
	13	4.7	14660	FLE13HT3/2/SW/CD	12	120	8000	825	660	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	13	4.7	16459	FLE13HT3/2/SW/2P	3	120	8000	825	660	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	13	4.7	21760	FLE13HT3/2/10PK	10	120	8000	825	660	2700	82	5	0.6	120	★	T3 Spiral®, Consumer 10-Pack	153	1,7,8,9,10
	13	4.7	71763	FLE13HT3/2/65TP	6	120	6000	855	685	5000	82	5	0.6	145	★	T3 Spiral®, Tray Pack	153	1,7,8,9,10
	13	3.9	86256	FLE13HT2/2/B27	10	120	12000	870	695	2700	82	5	0.5	120	★	T2 Spiral®, Boxed	153	1,7,8,9,10
	13	3.9	85383	FLE13HT2/2/SW/CD	3	120	12000	870	750	2700	82	5	0.6	120	★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
	15	4.8	15831	FLE15HT3/2/B27	10	120	8000	950	765	2700	82	5	0.6	145	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	15	4.8	25183	FLE15HT3/2/B41	10	120	8000	950	765	4100	82	5	0.6	145	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	15	4.8	89091	FLE15HT3/2/D/CD	3	120	8000	900	738	6500	82	5	0.6	145	★	Carded Single Pack		
	15	4.8	85394	FLE15HT3/2/D/2PK	3	120	8000	900	738	6500	82	5	0.6	145	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	15	4.8	80937	FLE15HT3/2/XL/SW	10	120	12000	950	765	2700	82	5	0.6	145	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	15	4.8	47435	FLE15HT3/2/XL/CD	12	120	12000	950	765	2700	82	5	0.6	145	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	15	4.8	49680	FLE15HT3/2/XL2PK	3	120	12000	950	765	2700	82	5	0.6	145	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	15	4.1	86271	FLE15HT2/2/B27	10	120	12000	950	760	2700	82	5	0.5	120	★	T2 Spiral®, Boxed	153	1,7,8,9,10
	15	4.1	85385	FLE15HT2/2/SW/CD	12	120	8000	950	765	2700	82	5	0.6	145	★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
	15	5.2	89619	FLE15HT3/2/DW	10	120	10000	900	720	2700	82	5	0.6	120	★	Dimming, Boxed	152	1,7,8,9,14
	15	5.2	89623	FLE15HT3/2/DW/CD	12	120	10000	900	720	2700	82	5	0.6	120	★	Dimming, Carded Single Pack	152	1,7,8,9,14
	20	4.7	15834	FLE20HT3/2/B27	10	120	8000	1200	965	2700	82	5	0.6	135	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	20	4.7	15536	FLE20HT3/2/SW/CD	12	120	8000	1200	965	2700	82	5	0.6	135	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	20	4.7	15538	FLE20HT3/2/SW/2P	3	120	8000	1200	965	2700	82	5	0.6	135	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	20	4.7	25186	FLE20HT3/2/B41	10	120	8000	965	965	4100	82	5	0.6	135	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	20	4.7	80888	FLE20HT3/2/XL/B27	10	120	12000	1300	1040	2700	82	5	0.6	135	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	20	4.7	71764	FLE20HT3/2/65/TP	6	120	6000	1235	990	5000	82	5	0.6	145	★	T3 Spiral®, Tray Pack	153	1,7,8,9,10
	20	4.7	89094	FLE20HT3/2/D/CD	12	120	8000	1150	945	6500	82	5	0.6	145	★	Carded Single Pack	153	1,7,8,9,14
	20	4.8	85396	FLE20HT3/2/D/2PK	3	120	8000	1150	945	6500	82	5	0.6	135	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	20	4.8	47442	FLE20HT3/2/XL/CD	12	120	12000	1300	1040	2700	82	5	0.6	135	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	20	4.8	49684	FLE20HT3/2/XL2PK	3	120	12000	1300	1040	2700	82	5	0.6	135	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	20	4.8	47466	FLE20HT3/2/XL/D	12	120	12000	1250	1000	6500	82	5	0.6	135	★	T3 Spiral®, Carded Single Pack, Daylight	153	1,7,8,9,10
	20	4.5	72880	FLE20HT2/2/XL/CD	3	120	12000	1250	1000	2700	82	5	0.6	120	★	T3 Spiral®, Carded	153	1,7,8,9,10
	23	5.1	80889	FLE23HT3/2/XL/B27	10	120	12000	1600	1280	2700	82	5	0.6	135	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	23	5.1	47445	FLE23HT3/2/XL/CD	12	120	12000	1600	1280	2700	82	5	0.6	135	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	26	5.1	89095	FLE26HT3/2/D/CD	12	120	8000	1600	1280	6500	82	5	0.6	120	★	Carded Single Pack	153	1,7,8,9,10
	26	5.2	15836	FLE26HT3/2/B27	10	120	8000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	26	5.2	15537	FLE26HT3/2/SW/CD	12	120	8000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	26	5.2	71765	FLE26HT3/2/65TP	6	120	6000	1660	1325	5000	82	5	0.6	145	★	T3 Spiral®, Tray Pack	153	1,7,8,9,10

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All footnotes and caution notices found at the end of this section (page 5-15).

Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min. Start Temp (°F)	Power Factor	THD	ENERGY STAR® Screws-In	Additional Information	Caution Notice	Footnotes	
Self-Ballasted Lamps (continued)																			
Spiral® (continued)																			
	Med	26	5.1	85397	FLE26HT3/2/D/2PK	3	120	8000	1600	1315	6500	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
		26	5.2	15519	FLE26HT3/2/SW/2P	3	120	8000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
		26	5.2	21845	FLE26HT3/2/10PK	10	120	8000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Consumer 10 Pack	153	1,7,8,9,10
		26	5.2	25195	FLE26HT3/2/B41	10	120	8000	1700	1365	4100	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
		26	5.2	80890	FLE26HT3/2/XL/B27	10	120	12000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
		26	5.8	89621	FLE26HT3/2/DW	10	120	10000	1700	1360	2700	82	5	0.6	120	★	Dimming, Boxed	152	1,7,8,9,14
		26	5.8	89624	FLE26HT3/2/DW/CD	12	120	10000	1700	1360	2700	82	5	0.6	120	★	Dimming, Carded Single Pack	152	1,7,8,9,14
		26	5.1	47446	FLE26HT3/2/XL/CD	12	120	12000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
		26	5.1	49685	FLE26HT3/2/XL2PK	3	120	12000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
		26	4.8	72881	FLE26HT2/2/XL2PK	3	120	12000	1650	1320	2700	82	5	0.6	120	★	T2 Spiral®, Carded	153	1,7,8,9,10
	Med	29	6.3	81514	FLE29HLX/2/XL/B27	10	120	12000	2200	1760	2700	82	5	0.6	170	★	T4 Spiral®, Boxed	153	1,7,8,9,10
		29	6.3	47459	FLE29HLX/2/XL/CD	12	120	12000	2200	1760	2700	82	5	0.6	170	★	T4 Spiral®, Carded Single Pack	153	1,7,8,9,10
		12 23 29	6.3	81515	FLE29HLX/2D3/B27	10	120	10000	600/ 1600/ 2150	480/ 1280/ 1740	2700	82	5	0.6	170	★	T3 Spiral®, Boxed, 3-Way	155	1,7,8,9,10
		12 23 29	6.3	47448	FLE29HLX/2D3/CD	12	120	10000	600/ 1600/ 2150	480/ 1280/ 1740	2700	82	5	0.6	170	★	T3 Spiral®, Carded Single Pack, 3-Way	155	1,7,8,9,10
		42	6.4	80891	FLE42HLX/2/XL/B27	10	120	12000	2700	2160	2700	82	5	0.6	170	★	T4 Spiral®, Boxed	153	1,7,8,9,10
		42	6.9	47452	FLE42HLX/2/XL/CD	12	120	12000	2700	2160	2700	82	5	0.6	170	★	T4 Spiral®, Carded Single Pack	153	1,7,8,9,10
Biax®																			
	Med	12	4.4	20702	FLE12T3/B27	10		15000	600	480	2700	82	5	0.6	120	★	T3 Triple Biax®, Boxed	153	1,7,8,9,10,12
		14	5.9	49884	FLE14TBX/2/SW/CD	12	120	8000	850	685	2700	82	5	0.6	120	★	Triples Biax®, Carded Single Pack	153	1,7,8,9,10
		15	4.9	12004	FLE15T3/B27	10	120	15000	900	720	2700	82	5	0.6	145		T3 Triple Biax®, Boxed	153	1,7,8,9, 10,12
		20	5.5	12008	FLE20T3/B27	10	120	15000	1200	960	2700	82	5	0.6	130	★	T3 Triple Biax®, Boxed	153	1,7,8,9,10,12
		20	6.9	49885	FLE20TBX/2/SW/CD	12	120	8000	1200	960	2700	82	5	0.6	120	★	Triples Biax®, Carded Single Pack	153	1,7,8,9,10
		24	5.6	23669	FLE24QBX/A/B27	6	120	18000	1520	1290	2700	82	-9	0.6	170	★	Boxed	153	1,7,8,9,10,12
		27	6.9	49887	FLE27QBX/2/SW/CD	12	120	6000	1700	1365	2700	82	5	0.6	130	★	Quad Biax®, Carded Single Pack	153	1,7,8,9,10
		28	6.3	40351	FLE28QBX/L/CD	3	120	12000	1750	1485	2700	82	-9	0.6	170		Soft White, Quad Biax®, Carded	153	1,7,8,9,10,12
		28	5.9	46270	FLE28QBX/A/B27	6	120	12000	1750	1485	2700	82	-9	0.6	170		Soft White, Quad Biax®, Carded	153	1,7,8,9,10,12
		29	6.3	41457	FLE29QBX/DW/B27	6	120	10000	1750	1500	2700	82	-9	0.6	170		Dimming	156	1,7,8,9,12,14
Reflectors																			
	Med	11	4.7	80892	FLE11/2/R20XL/B27	10	120	10000	400	320	2700	82	5	0.6	120	★	Soft White, R20 Gloss Reflector, Boxed	157	1,8,9,10,12
		11	4.7	47477	FLE11/2/R20XL/CD	12	120	10000	400	320	2700	82	5	0.6	120	★	Soft White, R20 Gloss Reflector, Carded Single Pack	157	1,8,9,10,12
	Med	15	5.4	20708	FLE15/2/R30/SWCD	12	120	8000	700	565	2700	82	5	0.6	120	★	Soft White, R30 Gloss Reflector, Carded Single Pack	158	1,8,9,10,12
		15	5.5	80893	FLE15/2/R30XL/B27	10	120	10000	750	600	2700	82	5	0.6	120	★	Soft White, R30 Gloss Reflector, Boxed	157	1,8,9,10,12
		15	5.3	47478	FLE15/2/R30XL/CD	12	120	10000	750	600	2700	82	5	0.6	120	★	Soft White, R30 Gloss Reflector, Carded Single Pack	157	1,8,9,10,12
		15	5.6	21709	FLE15/2/DW/R30	6	120	6000	700	565	2700	82	5	0.6	170	★	Dimming, Soft White, R30 Gloss Reflector, Boxed	165	1,8,9,10,14
		15	5.6	21710	FLE15/2DVR30SWCD	3	120	6000	700	565	2700	82	5	0.6	170	★	Dimming, Soft White, R30 Gloss Reflector, Carded Single Pack	165	1,8,9,12,14
		15	5.6	89617	FLE15/2/R30/PINK	10	120	10000	700	560			5	0.5	120		Pink	157	1,8,9,10,12
	Med	26	6.5	21738	FLE26/2/R40/SWCD	3	120	6000	1300	1040	2700	82	5	0.6	170	★	Soft White, R40 Gloss Reflector, Carded Single Pack	158	1,8,9,10,12
		26	6.5	80894	FLE26/2/R40XL/B27	6	120	10000	1300	1040	2700	82	5	0.6	120	★	Soft White, R40 Gloss Reflector, Boxed	157	1,8,9,10,12
	26	6.5	47479	FLE26/2/R40XL/CD	3	120	10000	1300	1040	2700	82	5	0.6	120	★	Soft White, R40 Gloss Reflector, Carded Single Pack	157	1,8,9,10,12	

Compact Fluorescent Lamps

Base	Watts	Nominal Length (in)	Order Code	Description	Core Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp. K	CRI	Min. Start Temp (°F)	Power Factor	THD	ENERGY STAR® Screws-In	Additional Information	Caution Notice	Footnotes
Self-Ballasted Lamps (continued)																		
Reflectors (continued)																		
	26		21716	FLE26/2/DW/R40	6	120	6000	1200	970	2700	82	5	0.6	170	★	Dimming, Soft White, R40 Glass Reflector, Boxed	165	1.8,9,12,14
	26	6.9	21718	FLE26/2/DV/R40SWCD	3	120	6000	1200	970	2700	82	5	0.6	170	★	Dimming, Soft White, R40 Glass Reflector, Carded Single Pack	165	1.8,9,12,14
	26	6.6	89618	FLE26/2/R40/PINK	10	120	10000	1400	1120			5	0.5	120		Pink	157	1.8,9,10,12
	26	5.5	21739	FLE26/2/PAR38/CD	3	120	6000	1200	970	2700	82	5	0.6	120	★	Soft White, Par 38 Glass Reflector, Carded Single Pack	164	1.8,9,12,16
	26	5.5	80895	FLE26/2/PAR38/XL	6	120	10000	1300	1040	2700	82	5	0.6	120	★	Soft White, Par 38 Glass Reflector, Boxed, Wet Rated	166	1.8,9,12,16
	26	5.6	47483	FLE26/2/PAR38/CD	3	120	10000	1300	1040	2700	82	5	0.6	120	★	Soft White, Par 38 Glass Reflector, Carded Single Pack, Wet Rated	166	1.8,9,12,16
	23	5.3	73265	FLE23/3/PAR38FL	6	120	8000	1000		2700	82	5	0.5	150		Flat Lens PAR38	166	1.8,9,12,16
Genura®																		
	23	4.9	25418	EL23/R25/SW	6	120	15000	1100	880	2700	82	32	0.6	130		Genura® Electrodeless Design, Soft White	160	1.8,9,10
	23	4.9	12273	EL23/R25/WW	6	120	15000	1100	880	3000	82	32	0.6	130		Genura® Electrodeless Design, RE 830 Phosphor, Warm White	160	1.8,9,10
Decorative Shapes																		
	5	4.8	16098	FLE5/2/CAC/R27	10	120	6000	200	160	2700	82	5	0.6	145		Candle Shape, Candelabra Base, Boxed	157	1.8,10,12
	5	4.8	16099	FLE5/2/CAM/R27	10	120	6000	200	160	2700	82	5	0.6	145		Candle Shape, Medium Base, Boxed	157	1.8,10,12
	7	5.2	16103	FLE7/2/CAC/R27	10	120	6000	370	296	2700	82	5	0.6	130		Candle Shape, Candelabra Base, Boxed	157	1.8,10,12
	7	5.2	16104	FLE7/2/CAM/R27	10	120	6000	370	296	2700	82	5	0.6	130	★	Candle Shape, Medium Base, Boxed	157	1.8,10,12
	9	5.4	85388	FLE9/2/CAC/SWCD	12	120	6000	430	344	2700	82	5	0.6	125		Candle Shape, Candelabra Base, Carded Single Pack	157	1.8,10,12
	9	5.4	16105	FLE9/2/CAC/R27	10	120	6000	430	344	2700	82	5	0.6	125		Candle Shape, Candelabra Base, Boxed	157	1.8,10,12
	9	5.4	47488	FLE9/2/CAM/XL/CD	12	120	10000	430	344	2700	82	5	0.6	125	★	Candle Shape, Medium Base, Carded Single Pack	157	1.8,10,12
	9	5.4	16106	FLE9/2/CAM/R27	10	120	6000	430	344	2700	82	5	0.6	125	★	Candle Shape, Medium Base, Boxed	157	1.8,10,12
	10	4.2	89622	FLE11/2/A13XL	10	120	10000	500	400	2700	82	5	0.6	130	★	A-Line Shape, Boxed	157	1.8,10,12
	11	4.4	47486	FLE11/2/A17XL/CD	12	120	10000	500	400	2700	82	5	0.6	120	★	A-Line Shape, Carded Single Pack	157	1.8,10,12
	11	4.2	89629	FLE11/2/G25XL	10	120	10000	500	400	2700	82	5	0.6	130	★	Globe Shape, Boxed	157	1.8,10,12
	11	4.8	47484	FLE11/2/G25XL/CD	12	120	10000	500	400	2700	82	5	0.5	130	★	Globe Shape, Carded Single Pack	157	1.8,10,12
	11	4.1	89631	FLE11/2/T14XL	10	120	10000	500	400	2700	82	5	0.6		★	Bullet Shape, Boxed		1.8,10,12
	11	96.0	49894	FLE11/2TC14SW/CD	3	120	6000	520	420	2700	82	5	0.6	120	★	Post Light, Carded Single Pack	157	1.8,10,12
	11	96.0	49895	FLE11/2TC14B/UGCD	3	120	6000	520	420	2700	82	5	0.6	120	★	Bug Yellow Post Light, Carded Single Pack	157	1.8,10,12
	14	5.0	85384	FLE14/2TC16SW/CD	12	120	10000	750	600	2700	82	5	0.5	150	★	Bullet Shape, Carded Single Pack		1.8,10,12
	14	5.0	47464	FLE14/2TC16/BUG	12	120	10000	750		2700	82		0.5	150	★	Bug Yellow Post Light, Carded Single Pack	157	1.8,10,12
	15	4.6	89632	FLE15/2/A13XL	10	120	10000	825	660	2700	82	5	0.6	120	★	A-Line Shape, Boxed		1.8,10,12
	15	4.8	47487	FLE15/2/A21XL/CD	12	120	10000	825	660	2700	82	5	0.6	120	★	A-Line Shape, Carded Single Pack	157	1.8,10,12
	15	4.6	89633	FLE15/2/G25XL	10	120	10000	825	660	2700	82	5	0.5	150	★	Globe Shape, Boxed		1.8,10,12
	15	4.8	47485	FLE15/2/G25XL/CD	12	120	10000	825	660	2700	82	5	0.6	120	★	Globe Shape, Carded Single Pack	157	1.8,10,12
	15	4.7	21733	FLE15/2/A21/SWCD	12	120	8000	850	689	2700	82	5	0.6	120	★	A-Line Shape, Carded Single Pack	157	1.8,10,12
	20	5.4	89635	FLE20/2/T19XL	10	120	10000	1100	880	2700	82	5	0.6	130	★	Bullet Shape, Boxed		1.8,10,12
	20	5.7	89634	FLE20/2/A19XL	10	120	10000	1100	880	2700	82	5	0.6	130	★	A-Line Shape, Boxed	158	1.8,10,12
	26	6.0	89636	FLE26/2/T21XL	10	120	10000	1350	1080	2700	82	5	0.6	130	★	Bullet Shape, Boxed	157	1.8,10,12

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Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp. K	CRI	Min. Start. Temp (°F)	Power Factor	THD	ENERGY STAR® Screws-In	Additional Information	Caution Notice	Footnotes
Lamps and Adapters																		
Circlite®																		
	21	3.4	11307	PCA21/CD	4	120	10000	1200	1020	3000	82	50	0.5	20		Circlite® Carded, FC819/K8 Replacement Lamp	163	1.7,10,11
Specialty																		
covrGuard® Spiral®																		
	15	4.8	71989	FLE15HT3/2/R27/CGV	10	120	8000	900	765	2700	82	5	0.6	120		Shatter Resistant Coating		
	20	4.7	71988	FLE20HT3/2/R27/CGV	10	120	8000	1300	1105	2700	82	5	0.6	120		Shatter Resistant Coating		
	26	5.2	71990	FLE26HT3/2/R27/CGV	10	120	8000	1620	1375	2700	82	5	0.6	120		Shatter Resistant Coating		
	42	6.4	71991	FLE42HLX/2/XL827/CGV	10	120	8000	2525	2150	2700	82	5	0.6	120		Shatter Resistant Coating		
Blacklight																		
	9	5.7	42935	F9BX/BL	10	59	5000			Blacklight						Blacklight UVA Source 2-Pin Internal Starter. Lamp emits UV irradiation which may cause eye/skin irritation. RGL	104	
	11	8.5	42936	F11BX/BL	10	91	5000			Blacklight						Blacklight UVA Source 2-Pin Internal Starter. Lamp emits UV irradiation which may cause eye/skin irritation. RGL	104	
	13	6.7	42937	F13BX/BL	10	59	5000			Blacklight						Blacklight UVA Source 2-Pin Internal Starter. Lamp emits UV irradiation which may cause eye/skin irritation. RGL	104	
	26	6.7	42938	F26BX/BL	10	105	5000			Blacklight						Blacklight UVA Source 4-Pin Electronic. Lamp emits UV irradiation which may cause eye/skin irritation. RGL	104	
	24	12.5	42939	F24BX/BL	10	75	5000			Blacklight						Blacklight UVA Source 4-Pin Electronic. Lamp emits UV irradiation which may cause eye/skin irritation. RGL	104	
	36	16.3	42940	F36BX/BL	10	90	5000			Blacklight						Blacklight UVA Source 4-Pin Electronic. Lamp emits UV irradiation which may cause eye/skin irritation. RGL	104	
	55	20.7	42941	F55BX/BL	10	101	5000			Blacklight						Blacklight UVA Source 4-Pin Electronic. Lamp emits UV irradiation which may cause eye/skin irritation. RGL	104	
Blacklight Blue																		
	36	16.3	88833	F36BX/BLB	10	90	5000			Blacklight						Blacklight, UVA Source 4-Pin Electronic. Internal Blue filter. Lamp emits UV irradiation which may cause eye/skin irritation. RGL	104	
Germicidal																		
	5	3.4	40695	GBX5/UVC	10		8000									Clear, Preheat, 2-Pin Internal Starter, UVC Source. WARNING: Risk group 3 High Risk! UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes and caution notices found at the end of this section (page 5-15).

Compact Fluorescent Lamps

gelighting.com

Base	Watts	Nominal Length (in)	Order Code	Description	Care Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp. K	CRI	Min. Start Temp (°F)	Power Factor	THD	ENERGY STAR® Screws-In	Additional Information	Caution Notice	Footnotes
Germicidal (continued)																		
	9	5.7	A0696	GBX9/UVC	10		8000									Clear, Preheat, 2-Pin Internal Starter, UVC Source. WARNING: Risk group 3 High Risk. UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	11	8.8	A0700	GBX11/UVC	10		8000									Clear, Preheat, 2-Pin Internal Starter, UVC Source. WARNING: Risk group 3 High Risk. UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	13	6.7	A0703	GBX13/UVC	10		8000									Clear, Preheat, 2-Pin Internal Starter, UVC Source. WARNING: Risk group 3 High Risk. UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	18	8.8	A0704	GBX18/UVC	40		8000									Clear, 4-Pin UVC Source. WARNING: Risk group 3 High Risk. UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	36	16.3	A0705	GBX36/UVC	40		8000									Clear, 4-Pin UVC Source. WARNING: Risk group 3 High Risk. UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	55	20.7	A0706	GBX55/UVC	25		8000									Clear, 4-Pin UVC Source. WARNING: Risk group 3 High Risk. UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		

Base	Watts	Nominal Length (in)	Order Code	Description	Care Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp. K	CRI	Min. Start Temp (°F)	Power Factor	THD	ENERGY STAR® Screws-In	Additional Information	Caution Notice	Footnotes
Germicidal (continued)																		
	60	16.3	72301	GBX60/UVC	25		8000									Clear, 4-Pin UVC Source. WARNING: Risk group 3 High Risk. UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	55	20.7	41869	F55BX/STUDIOBX32	40		10000	4100		3200	86					High color rendering. Ideal for TV studios, live broadcasts. Color tuned to match tungsten and daylight light sources.		
	55	20.7	41873	F55BX/STUDIOBX56	40		10000	4100		5600	89					High color rendering. Ideal for TV studios, live broadcasts. Color tuned to match tungsten and daylight light sources.		
	55	20.7	41903	F55BX/CINPLUS/32	40		2000	2400		3200	92					High color rendering. Soft light used in film applications. GEI free light source. Matches the color spectrum of film. LB and CC +/-5.		
	55	20.7	41911	F55BX/CINPLUS/55	40		2000	2400		5500	95					High color rendering. Soft light used in film applications. GEI free light source. Matches the color spectrum of film. LB and CC +/-5.		

Footnotes

- 1 Fluorescent lamp lumens decline during life.

2 Based on 60Hz reference circuit.

3  10-watt, 16-watt and 28-watt 2D® lamps may be operated in any position. 21-watt, 38-watt, 39-watt and 55-watt 2D® lamps must be used with the leg marked (a) in the diagram below the bend (b), in order to avoid overheating the end of the cap marked (a).

4 Life ratings for the F18BX preheat lamps are based on operating the lamp at 3 hrs. per start on a preheat type circuit. Operation on rapid start and instant start ballasts is not recommended.

5 Cold cathode resistance is approximately 6.0 Ohms.

6 4-Pin lamp minimum starting temperature is a function of the ballast. Most ballasts are rated with a minimum starting temperature of 50°F (10°C). Ballasts are also available that provide reliable starting to 0°F (-18°C) and -20°F (-29°C).

7 Most one-piece self-ballasted lamps for incandescent sockets and plug-in lamps with screw-in adapters do not work with clip-on shades.

8 Lumens on one-piece self-ballasted lamp systems are measured base up.
- 9 Best performance if operated base up and at 77°F (25°C) ambient temperature.

10 Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers. Do not use in wet locations.

11 Adapters rated at 40,000 hours life.

12 Amalgam products experience stable brightness over a wider temperature range and in various operating positions.

13 Life ratings are based on operating the lamp at 3 hrs. per start on a rapid start type ballast. Life rating on a preheat or instant start ballast is 25% lower.

14 Use only on 120V, 60Hz circuits. Do not use on with photocells or timers. Do not use in wet locations.

15 These lamps are only recommended for use with single-lamp ballasts or parallel-wired 2-lamp ballasts.

16 UL Listed for wet locations. Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers.

17 Max. bulb wall temperature not to exceed 180°C. Consult GE sales representative for further information.

Compact Fluorescent Lamps

Caution Notices

151**⚠ CAUTION****Lamp may shatter and cause injury if broken**

- Remove and install by grasping only plastic portion of the lamp

152**⚠ CAUTION****Risk of electric shock**

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights or in electronic timers.

153**⚠ CAUTION****Risk of electric shock**

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

155**⚠ CAUTION****Risk of electric shock**

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers.

156**⚠ CAUTION****Risk of electric shock**

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or in totally enclosed recessed fixtures.

157**⚠ CAUTION****Risk of electric shock**

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

158**⚠ CAUTION****Risk of electric shock**

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

160**⚠ CAUTION****Risk of electric shock**

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product may cause interference to radio equipment operating in the frequency range of 2.2–2.8 MHz. Avoid placing this product near these devices. To reduce the possibility of radio interference to maritime safety communications, this device should not be installed:
1) On board cargo vessels of more than 300 tons
2) On board cargo vessels carrying more than 12 passengers for hire
3) At any medium frequency public coast station

Further, installation is not recommended on board vessels equipped with medium frequency, single band marine radios. If interference occurs, move this product away from the device or plug either into a different outlet. Such interference complaints should be reported to: Application Solutions at General Electric Company, 1975 Noble Road, Cleveland, Ohio 44112, or call toll free 1800 435-4448 from 8:00 am to 6:00 pm EST. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

163**⚠ CAUTION****Risk of electric shock**

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width or with portable lamps which are provided with lamp shades. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers.

Caution Notices (continued)

164**⚠ CAUTION****Risk of electric shock**

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights; in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

165**⚠ CAUTION****Risk of electric shock**

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells or in totally enclosed recessed fixtures.

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This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

Compact Fluorescent Lamps

Cross-Reference

GE Description	Generic Description	Ostrom/Sylvania Description	Philips Description
Order This GE Lamp If you currently use these lamps			
Low Wattage Biac® 2-Pin			
F58X/SPX27	CF75W/G23/R27	CF50S/R27	PL-S 5W/R27
F58X/SPX41	CF75W/G23/R41	CF50S/R41	—
F78X/SPX27	CF77W/G23/R27	CF70S/R27	PL-S 7W/R27
F78X/SPX35	CF77W/G23/R35	CF70S/R35	PL-S 7W/R35
F78X/SPX41	CF77W/G23/R41	CF70S/R41	PL-S 7W/R41
F98X/SPX27	CF79W/G23/R27	CF90S/R27	—
F98X/SPX35	CF79W/G23/R35	CF90S/R35	PL-S 9W/R35
F98X/SPX41	CF79W/G23/R41	CF90S/R41	PL-S 9W/R41
F118X/SPX27	CF113W/G23/R27	CF130S/R27	PL-S 13W/R27
F118X/SPX30	CF113W/G23/R30	CF130S/R30	PL-S 13W/R30
F118X/SPX35	CF113W/G23/R35	CF130S/R35	PL-S 13W/R35
F118X/SPX41	CF113W/G23/R41	CF130S/R41	PL-S 13W/R41
F138X/SPX50	CF113W/G23/R50	CF130S/R50	PL-S 13W/R50
F138X/E/827	CF113W/G23/R27	—	—
F138X/E/830	CF113W/G23/R30	—	—
F138X/E/835	CF113W/G23/R35	—	—
F138X/E/841	CF113W/G23/R41	—	—
F138X/E/850	CF113W/G23/R50	—	—
High Lumen Biac®			
F188X/SPX30	FT18W/G211/R30	FT180L/R30	PL-L 18W/R30
F188X/SPX35	FT18W/G211/R35	FT180L/R35	PL-L 18W/R35
F188X/SPX41	FT18W/G211/R41	FT180L/R41	PL-L 18W/R41
F188X/SPX30/RS	FT18W/G211/RS/R30	FT180L/R30/RS	PL-L 18W/R30/RS
F188X/SPX35/RS	FT18W/G211/RS/R35	FT180L/R35/RS	PL-L 18W/R35/RS
F188X/SPX41/RS	FT18W/G211/RS/R41	FT180L/R41/RS	PL-L 18W/R41/RS
F188X/SPX65/RS	FT18W/G211/RS/R65	—	—
F278X/SPX3/RS	FT24W/G211/R30	FT240L/R30	PL-L 24W/R30
F278X/SPX4/RS	FT24W/G211/R35	FT240L/R35	PL-L 24W/R35
F278X/SPX14/RS	FT24W/G211/R41	FT240L/R41	PL-L 24W/R41
F398X/SPX3/RS	FT36W/G211/R30	FT360L/R30	PL-L 36W/R30
F398X/SPX3/RS	FT36W/G211/R35	FT360L/R35	PL-L 36W/R35
F398X/SPX3/RS	FT36W/G211/R41	FT360L/R41	PL-L 36W/R41
F40/308X/SPX30	FT40W/G211/RS/R30	FT400L/R30/RS	PL-L 40W/R30/RS
F40/308X/SPX35	FT40W/G211/RS/R35	FT400L/R35/RS	PL-L 40W/R35/RS
F40/308X/SPX41	FT40W/G211/RS/R41	FT400L/R41/RS	PL-L 40W/R41/RS
F40/308X/SPX50/RS	FT40W/G211/RS/R50	—	—
F50/308X/SPX30/RS	FT50W/G211/RS/R30	—	PL-L 50W/R30/RS
F50/308X/SPX35/RS	FT50W/G211/RS/R35	—	PL-L 50W/R35/RS
F50/308X/SPX41/RS	FT50W/G211/RS/R41	—	PL-L 50W/R41/RS
F558X/R30	FT55W/G211/RS/R30	FT550L/R30	—
F558X/R35	FT55W/G211/RS/R35	FT550L/R35	—
F558X/R41	FT55W/G211/RS/R41	FT550L/R41	—
Double Biac® 2-Pin			
F908X/314/SPX27	CF99W/G23/R27	CF90D/R27	—
F908X/314/R41	CF99W/G23/R41	—	—
F1308X/3214/SPX27	CF130W/GX23/R27	CF130D/R27	PL-C 13W/R27/USA
F1308X/3214/SPX30	CF130W/GX23/R30	CF130D/R30	PL-C 13W/R30/USA
F1308X/3214/SPX35	CF130W/GX23/R35	CF130D/R35	PL-C 13W/R35/USA
F1308X/3214/SPX41	CF130W/GX23/R41	CF130D/R41	PL-C 13W/R41/USA
F1308X/3214/SPX27	CF130W/G24d/R27	—	PL-C 13W/R27
F1308X/3214/SPX30	CF130W/G24d/R30	—	PL-C 13W/R30
F1308X/3214/SPX35	CF130W/G24d/R35	—	—
F1308X/3214/SPX41	CF130W/G24d/R41	—	—
F1808X/3214/SPX27	CF180W/G24d/R27	CF180D/R27	PL-C 18W/R27
F1808X/3214/SPX30	CF180W/G24d/R30	CF180D/R30	PL-C 18W/R30
F1808X/3214/SPX35	CF180W/G24d/R35	CF180D/R35	PL-C 18W/R35
F1808X/3214/SPX41	CF180W/G24d/R41	CF180D/R41	PL-C 18W/R41
F2608X/3214/SPX27	CF260W/G24d/R27	CF260D/R27	PL-C 26W/R27
F2608X/3214/SPX30	CF260W/G24d/R30	CF260D/R30	PL-C 26W/R30
F2608X/3214/SPX35	CF260W/G24d/R35	CF260D/R35	PL-C 26W/R35
F2608X/3214/SPX41	CF260W/G24d/R41	CF260D/R41	PL-C 26W/R41
F2608X/E/827	CFQ26W/G24d/R27	—	—

GE Description	Generic Description	Ostrom/Sylvania Description	Philips Description
Order This GE Lamp If you currently use these lamps			
Double Biac® 2-Pin (continued)			
F2608X/E/830	CFQ26W/G24d/R30	—	—
F2608X/E/835	CFQ26W/G24d/R35	—	—
F2608X/E/841	CFQ26W/G24d/R41	—	—
Double Biac® 4-Pin			
F1308X/SPX271/AP	CFQ13W/G24q/R27	CF1300/E/R27	PL-C 13W/R271/AP
F1308X/SPX30/AP	CFQ13W/G24q/R30	CF1300/E/R30	PL-C 13W/R30/AP
F1308X/SPX35/AP	CFQ13W/G24q/R35	CF1300/E/R35	PL-C 13W/R35/AP
F1308X/SPX41/AP	CFQ13W/G24q/R41	CF1300/E/R41	PL-C 13W/R41/AP
F1808X/SPX271/AP	CFQ18W/G24q/R27	CF1800/E/R27	PL-C 18W/R271/AP
F1808X/SPX30/AP	CFQ18W/G24q/R30	CF1800/E/R30	PL-C 18W/R30/AP
F1808X/SPX35/AP	CFQ18W/G24q/R35	CF1800/E/R35	PL-C 18W/R35/AP
F1808X/SPX41/AP	CFQ18W/G24q/R41	CF1800/E/R41	PL-C 18W/R41/AP
F2608X/SPX271/AP	CFQ26W/G24q/R27	CF2600/E/R27	PL-C 26W/R271/AP
F2608X/SPX30/AP	CFQ26W/G24q/R30	CF2600/E/R30	PL-C 26W/R30/AP
F2608X/SPX35/AP	CFQ26W/G24q/R35	CF2600/E/R35	PL-C 26W/R35/AP
F2608X/SPX41/AP	CFQ26W/G24q/R41	CF2600/E/R41	PL-C 26W/R41/AP
Triple Biac® 4-Pin			
F1318X/SPX271/AP	CFTR13W/GX24q/R27	CF1307/E/R27	—
F1318X/SPX271/AP	CFTR13W/GX24q/R30	CF1307/E/R30	—
F1318X/SPX271/AP	CFTR13W/GX24q/R35	CF1307/E/R35	—
F1318X/SPX271/AP	CFTR13W/GX24q/R41	CF1307/E/R41	—
F1818X/SPX271/AP	CFTR18W/GX24q/R27	CF1807/E/R27	PL-T 18W/R271/AP
F1818X/SPX30/AP	CFTR18W/GX24q/R30	CF1807/E/R30	PL-T 18W/R30/AP
F1818X/SPX35/AP	CFTR18W/GX24q/R35	CF1807/E/R35	PL-T 18W/R35/AP
F1818X/SPX41/AP	CFTR18W/GX24q/R41	CF1807/E/R41	PL-T 18W/R41/AP
F2618X/SPX271/AP	CFTR26W/GX24q/R27	CF2607/E/R27	PL-T 26W/R271/AP
F2618X/SPX30/AP	CFTR26W/GX24q/R30	CF2607/E/R30	PL-T 26W/R30/AP
F2618X/SPX35/AP	CFTR26W/GX24q/R35	CF2607/E/R35	PL-T 26W/R35/AP
F2618X/SPX41/AP	CFTR26W/GX24q/R41	CF2607/E/R41	PL-T 26W/R41/AP
F3218X/SPX271/AP	CFTR32W/GX24q/R27	CF3207/E/R27	PL-T 32W/R271/AP
F3218X/SPX30/AP	CFTR32W/GX24q/R30	CF3207/E/R30	PL-T 32W/R30/AP
F3218X/SPX35/AP	CFTR32W/GX24q/R35	CF3207/E/R35	PL-T 32W/R35/AP
F3218X/SPX41/AP	CFTR32W/GX24q/R41	CF3207/E/R41	PL-T 32W/R41/AP
F4218X/SPX271/AP/PEOL	CFTR42W/GX24q/R27	CF4207/E/R27	PL-T 42W/R271/AP
F4218X/SPX30/AP/PEOL	CFTR42W/GX24q/R30	CF4207/E/R30	PL-T 42W/R30/AP
F4218X/SPX35/AP/PEOL	CFTR42W/GX24q/R35	CF4207/E/R35	PL-T 42W/R35/AP
F4218X/SPX41/AP/PEOL	CFTR42W/GX24q/R41	CF4207/E/R41	PL-T 42W/R41/AP
High Output Biac® 4-Pin			
F5708X/R271/AP/PEOL	CFM57W/GX24q/R27	CF5707/E/R27	—
F5708X/R30/AP/PEOL	CFM57W/GX24q/R30	CF5707/E/R30	—
F5708X/R35/AP/PEOL	CFM57W/GX24q/R35	CF5707/E/R35	—
F5708X/R41/AP/PEOL	CFM57W/GX24q/R41	CF5707/E/R41	—
F5708X/R50/AP/PEOL	CFM57W/GX24q/R50	CF5707/E/R50	—
F7008X/R271/AP/PEOL	CFM70W/GX24q/R27	—	—
F7008X/R30/AP/PEOL	CFM70W/GX24q/R30	—	—
F7008X/R35/AP/PEOL	CFM70W/GX24q/R35	—	—
F7008X/R41/AP/PEOL	CFM70W/GX24q/R41	—	—
F7008X/R50/AP/PEOL	CFM70W/GX24q/R50	—	—

GE Enhanced Plug-in Product Conversion

PC	PC Description	New PC	New Description
If you used to order GE product:			
37654	F58X/SPX27/CD	97551	F58X/R27/ECO
13575	F58X/SPX27/CD	97552	F58X/R27/CDECO
37861	F58X/SPX41/840	97553	F58X/R41/ECO
37846	F78X/SPX27/827	97554	F78X/R27/ECO
13576	F78X/SPX27/CD	97555	F78X/R27/CDECO
37659	F78X/SPX35/835	97556	F78X/R35/ECO
37660	F78X/SPX41/840	97557	F78X/R41/ECO
37651	F98X/SPX27/827	97558	F98X/R27/ECO
13577	F98X/SPX27/CD	97559	F98X/R27/CDECO
37652	F98X/SPX35/835	97560	F98X/R35/ECO
37653	F98X/SPX41/840	97561	F98X/R41/ECO
41645	F138X/E/827	97562	F138X/E/827/ECO
41646	F138X/E/830	97563	F138X/E/830/ECO
41649	F138X/E/835	97564	F138X/E/835/ECO
41651	F138X/E/841	97565	F138X/E/841/ECO
41652	F138X/E/850	97566	F138X/E/850/ECO
14583	F138X/SPX27/CD	97567	F138X/R27/CDECO
41757	F138X/SPX35 100P	97568	F138X/R35 100P
17048	F138X/SPX35/835	97569	F138X/R35/ECO
41758	F138X/SPX41 100P	97570	F138X/R41 100P
20434	F138X/SPX41/R830	97571	F138X/R41/ECO
11671	F138X/SPX50	97572	F138X/R50/ECO
14650	F138X/SPX27/R827	97573	F138X/R27/ECO
17612	F138X/SPX30/R30	97574	F138X/R30/ECO
42065	F908X/3214/R41	97575	F908X/3214/ECO
12409	F908X/3214/SPX27/R8	97576	F908X/3214/ECO
13578	F1308X/SPX27/CD	97585	F1308X/R27/ECO
18894	F1308X/3214/SPX27	97586	F1308X/3214/ECO
10574	F1308X/3214/SPX30	97587	F1308X/3214/ECO
18556	F1308X/3214/SPX35	97588	F1308X/3214/ECO
20531	F1308X/3214/SPX41	97589	F1308X/3214/ECO
18557	F1308X/3214/SPX27	97590	F1308X/R27/ECO
12956	F1308X/3214/SPX30	97591	F1308X/R30/ECO
18559	F1308X/3214/SPX35	97592	F1308X/R35/ECO
20532	F1308X/3214/SPX41	97593	F1308X/R41/ECO
30035	F1308X/SPX271/AP	97594	F1308X/R27/ECOAP
10580	F1308X/SPX30/AP	97595	F1308X/R30/ECOAP
30037	F1308X/SPX35/AP	97596	F1308X/R35/ECOAP
30038	F1308X/SPX41/AP	97597	F1308X/R41/ECOAP
12860	F1808X/3214/SPX27	97577	F1808X/R27/ECO
12861	F1808X/3214/SPX30	97578	F1808X/R30/ECO
12863	F1808X/3214/SPX35	97579	F1808X/R35/ECO
12864	F1808X/3214/SPX41	97580	F1808X/R41/ECO
12865	F1808X/SPX271/AP	97598	F1808X/R27/ECOAP
12866	F1808X/SPX30/AP	97599	F1808X/R30/ECOAP
12869	F1808X/SPX35/AP	97600	F1808X/R35/ECOAP
12870	F1808X/SPX41/AP	97601	F1808X/R41/ECOAP
46290	F2608X/E/827	97602	F2608X/E/827/ECO
46291	F2608X/E/830	97603	F2608X/E/830/ECO
46292	F2608X/E/835	97604	F2608X/E/835/ECO
46294	F2608X/E/841	97605	F2608X/E/841/ECO
35250	F2608X/3214/SPX27	97606	F2608X/R27/ECO
35253	F2608X/3214/SPX30	97607	F2608X/R30/ECO
35251	F2608X/3214/SPX35	97608	F2608X/R35/ECO
35252	F2608X/3214/SPX41	97609	F2608X/R41/ECO
35247	F2608X/3214/SPX271/AP	97610	F2608X/R27/ECOAP
35255	F2608X/3214/SPX30/AP	97611	F2608X/R30/ECOAP
35248	F2608X/3214/SPX35/AP	97612	F2608X/R35/ECOAP
35256	F2608X/3214/SPX41/AP	97613	F2608X/R41/ECOAP
34391	F1318X/SPX271/AP	97619	F1318X/R271/AP/ECO
34395	F1318X/SPX30/AP	97620	F1318X/R30/AP/ECO
34400	F1318X/SPX35/AP	97621	F1318X/R35/AP/ECO
34387	F1318X/SPX41/AP	97622	F1318X/R41/AP/ECO

PC	PC Description	New PC	New Description
If you used to order GE product:			
47696	F1318XB271/AP/ECO	97623	F1318XB271/AP/ECO
34392	F1318XB/SPX271/AP	97624	F1318XB/R271/AP/ECO
34396	F1318XB/SPX30/AP	97625	F1318XB/R30/AP/ECO
34405	F1318XB/SPX35/AP	97626	F1318XB/R35/AP/ECO
34385	F1318XB/SPX41/AP	97627	F1318XB/R41/AP/ECO
48869	F1818XB271/AP/ECO	97628	F1818XB/R271/AP/ECO
34393	F2618XB/SPX271/AP	97614	F2618XB/R271/AP/ECO
34397	F2618XB/SPX30/AP	97615	F2618XB/R30/AP/ECO
34406	F2618XB/SPX35/AP	97616	F2618XB/R35/AP/ECO
34381	F2618XB/SPX41/AP	97617	F2618XB/R41/AP/ECO
48870	F2618XB271/AP/ECO	97618	F2618XB/R271/AP/ECO
39377	F3218XB/SPX271/AP	97629	F3218XB/R271/AP/ECO
39378	F3218XB/SPX30/AP	97630	F3218XB/R30/AP/ECO
39379	F3218XB/SPX35/AP	97631	F3218XB/R35/AP/ECO
39380	F3218XB/SPX41/AP	97632	F3218XB/R41/AP/ECO
46312	F4218XB271/AP/ECO	97633	F4218XB/R271/AP/ECO
46313	F4218XB30/AP/ECO	97634	F4218XB/R30/AP/ECO
46314	F4218XB35/AP/ECO	97635	F4218XB/R35/AP/ECO
46315	F4218XB41/AP/ECO	97636	F4218XB/R41/AP/ECO
48861	F570QB/R271/AP/ECO	48861	F570QB/R271/AP/ECO
48862	F570QB/R30/AP/ECO	48862	F570QB/R30/AP/ECO
48863	F570QB/R35/AP/ECO	48863	F570QB/R35/AP/ECO
48864	F570QB/R41/AP/ECO	48864	F570QB/R41/AP/ECO
93404	F570QB/R50/AP/ECO	93404	F570QB/R50/AP/ECO
48865	F700QB/R271/AP/ECO	48865	F700QB/R271/AP/ECO
48866	F700QB/R30/AP/ECO	48866	F700QB/R30/AP/ECO
48867	F700QB/R35/AP/ECO	48867	F700QB/R35/AP/ECO
48868	F700QB/R41/AP/ECO	48868	F700QB/R41/AP/ECO
93406	F700QB/R50/AP/ECO	93406	F700QB/R50/AP/ECO

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Ballast

Introduction

EcomaginationSM is GE's commitment to create products that help our customers improve their environmental and operating performance.

GE's UltraStart[®] T5 and T8 programmed start and

GE UltraMax[®] Instant Start ballasts are among

the highest energy-efficient ballasts available

and contribute to significant reductions in energy

consumption and the curbing of greenhouse

gas emissions.

RoHS compliant:

European Directive (2002/95EC on the Restriction of Hazardous Substances) states that (beyond certain limited exemptions) electrical and electronic products shall not contain lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBBs), or polybrominated diphenyl ethers (PBDEs). GE's electronic ballasts use lead-free solder and other environmentally preferable materials that meet the RoHS directive. Although not required in the U.S., RoHS-compliant ballasts show GE's commitment to helping our customers meet their disposal needs now, and in the future. GE encourages customer awareness on the importance of reducing hazardous materials and getting ahead of complying with environmental trends. Look for the RoHS-compliant mark on GE ballasts.

UltraMax[®] Electronic Ballast

A family of high-efficiency GE T8 instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for optimal system energy savings. UltraMax[®] ballasts have a lamp-friendly low-lamp-current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. All UltraMax[®] ballasts exceed 90% efficiency and the NEMA Premium[®] ballast program minimum efficiency requirements.

UltraStart[®] Electronic Ballast

UltraStart[®] ballasts are a family of high-efficiency GE Program Start (see page 36) electronic linear fluorescent ballasts designed to optimize GE's T8 and T5 Ultra lamps in frequently switched applications. Instant Start ballasts provide approximately 10,000 starts before 50% of lamp failure. UltraStart[®] provides greater than 100,000 starts. UltraStart[®] have the equivalent energy savings and convenience of instant start ballasts but with the long lamp life of a programmed start ballast.

UltraStart[®] T8 L, N and H ballasts exceed 90% efficiency and the NEMA Premium[®] ballast program minimum efficiency requirements.

ProLine[®] Electronic Ballast

Offered in dedicated or multivolt (120-277V), these high-performance T8 instant start ballasts are long life, less than 10% THD and most models also meet minimum efficiency requirements of the NEMA Premium[®] ballast program.

Compact Fluorescent Lamp (CFL)

CFLs are single-ended T4 and T5 lamps that are bent to form a compact shape. Screw-in CFLs have an integral ballast with a screw base for easy replacement of incandescent lamps. GE offers multi-voltage, multi-lamp and multi-entry ballasts for a wide range of CFL plug-in lamps. Multivolt ProLine[®] CFL ballasts are designed for plug-in lamps so that a ballast will survive over the useful life of approximately 3-to-4 lamp lives.

Electromagnetic Ballast (Magnetic Ballast)

Primarily used for T12 lamps. These ballasts operate lamps at a less efficient 60Hz and typically have efficiencies of 70-80%. Most ballasts consist of a core and coil transformer assembly. Today, magnetic ballasts for 4 foot and 8 foot lamps are typically used only for replacement purposes and are restricted by EPACT to be sold, even in replacement applications, starting in 2009.

Sign Ballast (Magnetic Ballast)

Designed to operate T12 HO Lamps at 120 volts in cold and damp conditions in sign cabinets.

GE eHID, Electronic High Intensity Discharge Ballast (eHID)

Electronic HID significantly improves the performance of HID lighting. GE's UltraMax[®] eHID ballast operates pulse start and ceramic metal halide lamps.

GE High Intensity Discharge Ballast (HID)

HID magnetic ballasts consist of robust core and coil designs that meet or exceed minimum ANSI requirements. These ballasts are typically sold as distributor replacement kits which are pre-wired with a capacitor, ignitor (if applicable) and all necessary mounting hardware and instructions. Each wattage is typically offered in quad (MLT-120/208/240/277 volt), 5-tap (ML5-120/208/240/277/480 volt) or 480 volt (48T) options.



UltraMax[®] T8 Electronic Ballast



UltraStart[®] T8 Electronic Ballast



Multivolt ProLine[®] CFL Ballast



Sign Ballast



HID Electromagnetic Ballast Kit



UltraMax[®] eHID Ballast

Ballast

gelighting.com

Std Pack Order Code	Description	Application	Pallet Pack	DIY Pack	Std Pack Units Per Carton
T8 Fluorescent Ballasts					
T8 Instant Start Ballasts					
<i>UltraMax® Instant-Start Multi-Voltage High-Efficiency</i>					
For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps					
72258	GE132MAX-L/ULTRA	1 - F32T8 120 to 277 "L" 77 BF UltraMax®		72260	10
72259	GE132MAX-N/ULTRA	1 - F32T8 120 to 277 "N" 87 BF UltraMax®			10
49775	GE232MAX-H/ULTRA	2 or 1 - F32T8 120 to 277 "H" 115 BF UltraMax®	47548		10
72262	GE232MAX-N/ULTRA	2 or 1 - F32T8 120 to 277 "L" 77 BF UltraMax®	72256		10
72266	GE232MAX-N/ULTRA	2 or 1 - F32T8 120 to 277 "N" 87 BF UltraMax®	72267	72268	10
71421	GE232MAX-N+	2 or 1 - F32T8 120 to 277 "N+" 1.0 BF UltraMax®			10
71714	GE332MAX-H/ULTRA	3 or 2 - F32T8 120 to 277 "H" 1.18 BF UltraMax®	71715		10
71717	GE332MAX-L/ULTRA	3 or 2 - F32T8 120 to 277 "L" 77 BF UltraMax®	71718		10
71719	GE332MAX-N/ULTRA	3 or 2 - F32T8 120 to 277 "N" 87 BF UltraMax®	71721	71722	10
71422	GE332MAX-N+	3 or 2 - F32T8 120 to 277 "N+" 1.0 BF UltraMax®			10
71723	GE432MAX-H/ULTRA	4 or 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax®	71724		10
71725	GE432MAX-L/ULTRA	4 or 3 - F32T8 120 to 277 "L" 77 BF UltraMax®	71726		10
71727	GE432MAX-N/ULTRA	4 or 3 - F32T8 120 to 277 "N" 87 BF UltraMax®	71729	71730	10
71423	GE432MAX-N+	4 or 3 - F32T8 120 to 277 "N+" 1.0 BF UltraMax®			10
71731	GE632MAX-H90-V80	6 or 5 - F32T8 120 to 277 "H" BF UltraMax® 0-10V 100-60% continuous dim	71732		10
71497	GE632MAX-H90-S60	6 or 5 - F32T8 120 to 277 "H" BF UltraMax® 100/60% step dim	71502		10
For 46 - 59W 4 ft - 8 ft Slimline Lamps					
49766	GE159MAX-N/ULTRA	1 - F96T8 120 to 277 "N" 87 BF UltraMax®			10
49767	GE259MAX-N/ULTRA	2 or 1 - F96T8 120 to 277 "N" 87 BF UltraMax®		23954	10
ProLine® T8 Multivolt 120V - 277V					
For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps					
72269	GE-132-MV-N	1 - F32T8 120 to 277 "N" 87 BF MV ProLine®	72270		10
30198	GE-232-MV-H	2 or 1 - F32T8 120 to 277 "H" 1.18 BF MV ProLine®	30275		10
72273	GE-232-MV-L	2 or 1 - F32T8 120 to 277 "L" 77 BF MV ProLine®	72274		10
72275	GE-232-MV-N	2 or 1 - F32T8 120 to 277 "N" 87 BF MV ProLine®	72276	72277	10
30199	GE-332-MV-H	3 or 2 - F32T8 120 to 277 "H" 1.15 BF MV ProLine®	30296		10
30255	GE-332-MV-L	3 or 2 - F32T8 120 to 277 "L" 77 BF MV ProLine®	30309		10
30192	GE-332-MV-N	3 or 2 - F32T8 120 to 277 "N" 87 BF MV ProLine®	30270	97710	10
30219	GE-432-MV-H	4 or 3 - F32T8 120 to 277 "H" 1.15 BF MV ProLine®	30303		10
30262	GE-432-MV-L	4 or 3 - F32T8 120 to 277 "L" 77 BF MV ProLine®	30310		10
30193	GE-432-MV-N	4 or 3 - F32T8 120 to 277 "N" 87 BF MV ProLine®	30271	97711	10
For 46 - 59W 4 ft - 8 ft Slimline Lamps					
30195	GE-159-MV-N	1 - F96T8 120 to 277 "N" 87 BF MV ProLine®	30274		10
30194	GE-259-MV-N	2 or 1 - F96T8 120 to 277 "N" 87 BF MV ProLine®	30272	97712	10
ProLine® T8 Multivolt High Output 120V - 277V					
For 46 - 66W 4 ft - 8 ft HQ Lamps					
30176	GE-286-HQ-MV-N	2 or 1 - F96T8HQ 15 to 277 "N" 87 BF	30187		10
ProLine® T8 Instant-Start High-Performance					
For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps					
23680	GE-132-120-N	1 - F32T8 120V "N" 87 BF ProLine®	24161		10
23681	GE-132-277-N	1 - F32T8 277V "N" 87 BF ProLine®	24162		10
23671	GE-232-120-N	2 or 1 - F32T8 120V "N" 87 BF ProLine®	24163		10
23672	GE-232-277-N	2 or 1 - F32T8 277V "N" 87 BF ProLine®	24164		10
23673	GE-332-120-N	3 or 2 - F32T8 120V "N" 87 BF ProLine®	24165		10
23674	GE-332-277-N	3 or 2 - F32T8 277V "N" 87 BF ProLine®	24166		10
23675	GE-432-120-N	4 or 3 - F32T8 120V "N" 87 BF ProLine®	24167		10
23676	GE-432-277-N	4 or 3 - F32T8 277V "N" 87 BF ProLine®	24168		10
For 46 - 59W 4 ft - 8 ft Slimline Lamps					
23677	GE-259-120-N	2 or 1 - F96T8 120V Normal Light 87 BF ProLine®	24169		10
23678	GE-259-277-N	2 or 1 - F96T8 277V "N" 87 BF ProLine®	24170		10
Residential Grade ProLine® T8 120V					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
97782	GE332-120-RES	2 or 1 - F32T8 120V "N" 87 BF Residential ProLine®		71037	10
97783	GE432-120-RES	4 or 3 - F32T8 120V "N" 87 BF Residential ProLine®		71038	10
Electromagnetic T8 Ballasts					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
87125	GEH2378RS120	2 - F32T8 RS 120V Magnetic Ballast			10
87130	GEH2378RS277	2 - F32T8 RS 277V Magnetic Ballast			10
T8 Programmed Start Ballasts					
<i>UltraStart® T8 Programmed Start</i>					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
29621	GE-232-120-PS-N	2 - F32T8 120V Normal Light 87 BF <10% THD UltraStart®	29630		10
29622	GE-232-277-PS-N	2 - F32T8 277V Normal Light 87 BF <10% THD UltraStart®	29632		10
96714	GE232-MVPS-N	2 or 1 - F32T8 120V-277V Normal Light 88 BF <10% THD UltraStart®	96717		10
96720	GE232-MVPS-L	2 or 1 - F32T8 120V-277V Low Watts 71 BF <10% THD UltraStart®			10
29675	GE-232-MVPS-H	2 - F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®	29651		10
29671	GE-232-MVPS-XL	2 - F32T8 120V-277V Ultra Low Watt 60 BF <10% THD	29665		10
29623	GE-332-120-PS-N	3 - F32T8 120V Normal Light 87 BF <10% THD UltraStart®	29633		10
29624	GE-332-277-PS-N	3 - F32T8 277V Normal Light 87 BF <10% THD UltraStart®	29634		10

Std Pack Order Code	Description	Application	Pallet Pack	DIY Pack	Std Pack Units Per Carton
T8 Fluorescent Ballasts (continued)					
T8 Programmed Start Ballasts (continued)					
<i>UltraStart® T8 Programmed Start (continued)</i>					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
96721	GE332-MVPS-L	3 - F32T8 120V-277V Low Watts 71 BF <10% THD UltraStart®			10
29672	GE-332-MVPS-XL	3 - F32T8 120V-277V Ultra Low Watt 60 BF <10% THD	29666		10
29625	GE-432-120-PS-N	4 - F32T8 120V Normal Light 87 BF <10% THD UltraStart®	29635		10
96716	GE432-MVPS-N	4 - F32T8 120V-277V Normal Light 88 BF <10% THD UltraStart®	96719		10
71832	GE432-MVPS-L	4 - F32T8 120V-277V Low Watts 71 BF <10% THD UltraStart®			10
29678	GE-432-MVPS-H	4 - F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®	29657		8
T8 Dimming					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
80353	B132R120V5	1 - F32T8 DIM 100 to 5% RS 120			10
80355	B232SR120V5	2 - F32T8 DIM 100 to 5% RS 120			10
80362	B232SR277500	2 - F32T8 Switch 100/50% RS 277			10
80356	B232SR277V5	2 - F32T8 DIM 100 to 5% RS 277			10
80357	B332SR120V5	3 - F32T8 DIM 100 to 5% RS 120			10
80358	B332SR277V5	3 - F32T8 DIM 100 to 5% RS 277			10

2008 T8 Ballast Enhancement New Product Code Cross-Reference

Prod Code		Description (Some)	Application	Units Per Carton
Existing	New			
UltraMax® Instant-Start Multi-Voltage High-Efficiency				
49706	72258	GE132MAX-L/ULTRA	1- F32T8 120 to 277 "L" 77 BF UltraMax®	10
49771	72259	GE132MAX-N/ULTRA	1- F32T8 120 to 277 "N" 87 BF UltraMax®	10
23939	72260	GE132MAX-N-DIV	1- F32T8 120 to 277 "N" 87 BF UltraMax® DIY Pack	4
49707	72262	GE232MAX-L/ULTRA	2 or 1- F32T8 120 to 277 "L" 77 BF UltraMax®	10
47546	72263	GE232MAX-L-42T	2 or 1- F32T8 120 to 277 "L" 77 BF UltraMax® Pallet Pack	420
71281	72264	GE232MAX-N/AMP	2 or 1- F32T8 120 to 277 "N" 87 BF UltraMax® w/ AMP Connectors	10
97656	72265	GE232MAX-N/CTR	2 or 1- F32T8 120 to 277 "N" 87 BF UltraMax® w/ JST Connectors	10
49772	72266	GE232MAX-N/ULTRA	2 or 1- F32T8 120 to 277 "N" 87 BF UltraMax®	10
31052	72267	GE232MAX-N-42T	2 or 1- F32T8 120 to 277 "N" 87 BF UltraMax® Pallet Pack	420
23940	72268	GE232MAX-N-DIV	2 or 1- F32T8 120 to 277 "N" 87 BF UltraMax® DIY Pack	10
49776	71714	GE332MAX-H/ULTRA	3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax®	10
47549	71715	GE332MAX-H-42T	3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® Pallet Pack	420
49708	71717	GE332MAX-L/ULTRA	3 or 2- F32T8 120 to 277 "L" 77 BF UltraMax®	10
31055	71718	GE332MAX-L-42T	3 or 2- F32T8 120 to 277 "L" 77 BF UltraMax® Pallet Pack	420
97657	71720	GE332MAX-N/CTR	3 or 2- F32T8 120 to 277 "N" 87 BF UltraMax® w/ JST Connectors	10
49773	71719	GE332MAX-N/ULTRA	3 or 2- F32T8 120 to 277 "N" 87 BF UltraMax®	10
31053	71721	GE332MAX-N-42T	3 or 2- F32T8 120 to 277 "N" 87 BF UltraMax® Pallet Pack	420
23941	71722	GE332MAX-N-DIV	3 or 2- F32T8 120 to 277 "N" 87 BF UltraMax® DIY Pack	4
49777	71723	GE432MAX-H/ULTRA	4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax®	10
47550	71724	GE432MAX-H-42T	4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® Pallet Pack	420
49709	71725	GE432MAX-L/ULTRA	4 or 3- F32T8 120 to 277 "L" 77 BF UltraMax®	10
47547	71726	GE432MAX-L-42T	4 or 3- F32T8 120 to 277 "L" 77 BF UltraMax® Pallet Pack	420
97658	71728	GE432MAX-N/CTR	4 or 3- F32T8 120 to 277 "N" 87 BF UltraMax® w/ JST Connectors	10
49774	71727	GE432MAX-N/ULTRA	4 or 3- F32T8 120 to 277 "N" 87 BF UltraMax®	10
31054	71729	GE432MAX-N-42T	4 or 3- F32T8 120 to 277 "N" 87 BF UltraMax® Pallet Pack	420
23942	71730	GE432MAX-N-DIV	4 or 3- F32T8 120 to 277 "N" 87 BF UltraMax® DIY Pack	4
ProLine® T8 Multivolt 120-277V				
30189	72269	GE-132-MV-N	1- F32T8 120 to 277 "N" 87 BF Multivolt ProLine®	10
30268	72270	GE-132-MV-N-42T	1- F32T8 120 to 277 "N" 87 BF Multivolt ProLine® Pallet Pack	420
30247	72273	GE-232-MV-L	2 or 1- F32T8 120 to 277 "L" 77 BF Multivolt ProLine®	10
30308	72274	GE-232-MV-L-42T	2 or 1- F32T8 120 to 277 "L" 77 BF Multivolt ProLine® Pallet Pack	10
30191	72275	GE-232-MV-N	2 or 1- F32T8 120 to 277 "N" 87 BF Multivolt ProLine®	10
30269	72276	GE-232-MV-N-42T	2 or 1- F32T8 120 to 277 "N" 87 BF Multivolt ProLine® Pallet Pack	420
97709	72277	GE232MV-N-DIV	2 or 1- F32T8 120 to 277 "N" 87 BF Multivolt ProLine® Pallet Pack DIY Pack	4

Ballast

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Std Pack Order Code	Description	Application	Pallet Pack	DIY Pack	Std Pack Units Per Carton
T5 Fluorescent Ballasts					
T5 Electronic Programmed Start Ballasts					
T5 High Efficiency Programmed Start					
For F14 (2 ft), F21 (3 ft), F28 (4 ft), F35 (5 ft) HE T5 Lamps					
99653	GE28MVP5H-A	2 or 1 - F14-F28T5HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can	99654		10
99655	GE28MVP5-A	2 or 1 - F14-F28T5HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can	99656		10
47536	BZ28PUNV-COG1C	2 - F28T5 PRS UNV 50/60 Hz C Can			10
T5 High Output Programmed Start					
For F24 (2 ft), F39 (3 ft), F54 (4 ft), F80 (5 ft) HO T5 Lamps					
47534	BZ24PUNV-COG1C	2 - F24T5HO PRS UNV 50/60 Hz C Can			10
47540	BZ39PUNV-DOG1C	2 - F39T5HO PRS UNV 50/60 Hz D Can			10
99651	GE25AMVP50-F	2 or 1 - F54T5HO 120 to 277 UltraStart® PRS High Temp F Can	99652		10
47542	BZ54PUNV-DGE1C	2 - F54T5HO PRS UNV 50/60 Hz D Can			10
72279	GE25AMVP5-D	2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can			10
73192	GE45AMVP50-G	4-1 - F54T5HO 120 to 277 UltraStart® PRS High Temp G Can	73193		8
29726	GE45AMVP5N1	4,3,2, or 1 - F54T5HO 120-277V UltraStart® PRS Can	29717		12
72280	GE180MVP5-D	1 - F80T5HO 120 to 277 UltraStart® PRS D Can			10
*T5 lamp lengths are noted to nearest foot and are not exact lengths as noted in feet.					
T12 Fluorescent Ballasts					
T12 Electronic Ballasts					
ProLine® T12 Multivolt 120V - 277V					
For F20 (2 ft), F30 (3 ft), and F34/F40 (4 ft) T12 Lamps					
24107	GE-240-RS-MV-N	2 or 1 - F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12	24773		10
97498	GE24ORS120	2 - F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12	97499		10
72110	F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack		72110		
24109	GE-340-RS-MV-N	3 or 2 - F40 or F34T12 Rapid Start 120 to 277 ProLine® T12	24774		10
For T12 4 ft - 8 ft Slimline Lamps					
24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277	24776		10
T12 High Output					
80162	BZ95SR120HP	2 - F96T12HOS RS 120			6
80163	BZ95SR277HP	2 - F96T12HOS RS 277			6
72109	GE29GHO-MV-N	2 or 1 - F96T12 HO RS 120 to 277 Multivolt ProLine®			
T12 Magnetic Ballasts					
For 2 ft, Circline, Preheat T12 Lamps					
89711	GEM120PH120DIY	1 - F20T12, F15T8, F15T2, F14T8, F18T8, 120V Magnetic Ballast (200HZ)	89711		10
89712	GEM120TC120DIY	1 - F20T12, F15T8, F15T12, F14T12, 120V Magnetic Ballast (546BRTCPI)	89712		4
89720	GEM1FC16T9RS120	2 - FC12T9, FC16T9, FC8T9, FC12T9, 120V Magnetic (I726V/LHWSTCPI)	89720		4
86227	GEM1FC18T9RS120P	1 - FC8T9, FC6T9 RS 120V Magnetic Ballast (547RSWSTCPI)	89722		10
89717	GEM1FC12T9RS120	2 FC12T9 RS 120V Magnetic Ballast (W49L/RWSTCPI)	89717		
80819	GEM220TS120DIY	2- F20T12, F15T8, F15T12, F14T12, 120V Magnetic Ballast (W47L/RV/LHTCPI)	80819		4
For F30, F34/F40 (4 ft) T12 Lamps					
89714	GEM140HRS120DIY	1 - F40T12, F40T12, 120V Magnetic Ballast (W12LSLHTCPI)	89714		4
89709	GEM140RS120DIY	1 - F40T12, F30T12, F40/25W, 120V Magnetic Ballast (W13CTCPI)	89709		4
80644	GEM230RS120DIY	2 - F30T12 120V Magnetic Ballast (573JCTCPI)	80644		4
89710	GEM240HRS120DIY	2 - F40T12, F40T12, 120V Magnetic Ballast (W20LTCPI)	89710		4
86139	GEM240RS120P	2 - F40T12 RS 120V Magnetic Ballast (W46LSLHTCPI)	46958		10
86124	GEM240RS277P	2 - F40T12 RS 277V Magnetic Ballast (W43LSLHTCPI)	89713		10
86341	GEM240RS220IP	2 - F40T12, F40T10, 220V Magnetic Ballast (754LTCPI)			10
For T12 4 ft - 8 ft Slimline Lamps					
86372	GEM196IS120P	1 - F96T12 IS 120 Magnetic Ballast (8228BRTCPI)	86372		6
86381	GEM196IS277P	1 - F96T12 IS 277 Magnetic Ballast (8288BRTCPI)			6
86360	GEM296IS120P	2 - F96T12 IS 120V Magnetic Ballast (8065SLHTCPI)	46965		6
86379	GEM296IS277P	2 - F96T12 IS 277V Magnetic Ballast (8275SLHTCPI)	89715		6
For T12 High Output Lamps					
86164	GEM296HORS120IP	2 - F96T12HO, F96T8HO, F72T12HO RS 120V Magnetic Ballast (W805SLHTCPI)			4
86171	GEM296HORS277IP	2 - F96T12HO, F96T8HO, RS 277V Magnetic Ballast (W875SLHTCPI)			4
Fluorescent Accessories					
Starters					
80619	FS-2-C	Starters for 14, 15 & 20 Watt Flu. Lamps			24
80620	FS-4-C	Starters for 30 & 40 Watt Flu. Lamps			24
80621	FS-5-C	Starters for 4, 6 & 8 Watt Flu. Lamps			24
80622	FS-25-C	Starters for 22 & 25 Watt Flu. Lamps			24
80629	FS-12-C	Starters for 32 Watt Circular Flu. Lamps			24
Sockets					
80623	BP-SKT	Socket Set w/ Starter for Bi-Pin Flu. Lamps			12
80624	BP	Socket Set for Bi-Pin Flu. Lamps			12
80625	SL-SS	Socket Set for Slimline Flu. Lamps			12
80627	BP-FM	Face Mount Socket Set for Bi-Pin Flu. Lamps			12
80628	BP-LP	Low Profile Socket Set for Bi-Pin Flu. Lamps			12

Std Pack Order Code	Description	Application	Pallet Pack	DIY Pack	Std Pack Units Per Carton	
Sign Ballasts						
For T12 High Output Lamps						
72103	GESB-0412-12-IP	T12HO Sign ballast: 4 to 12 ft, 1 to 2 lamps			1	
72104	GESB-0620-24-IP	T12HO Sign ballast: 6 to 20 ft, 2 to 4 lamps			1	
72105	GESB-1224-24-IP	T12HO Sign ballast: 12 to 24 ft, 2 to 4 lamps			1	
72106	GESB-1240-46-IP	T12HO Sign ballast: 12 to 40 ft, 4 to 6 lamps			1	
72107	GESB-2040-24-IP	T12HO Sign Ballast: 20 to 40 ft, 4 to 6 lamps			1	
72108	GESB-2448-46-IP	T12HO Sign Ballast: 24 to 48 ft, 4 to 6 lamps			1	
88921	USB-0412-12-IP	4 to 12 ft, 1 to 2 lamps				
88931	USB-0816-14-IP	08 to 16 ft, 1 to 4 lamps			4	
88934	USB-1632-24-IP	16 to 32 ft, 2 to 4 lamps			2	
88936	USB-1024-14-IP	10 to 24 ft, 1 to 4 lamps			2	
88939	USB-2036-46-IP	20 to 36 ft, 4 to 6 lamps			2	
88940	USB-2048-46-IP	20 to 48 ft, 4 to 6 lamps			2	
88918	USB-0218-16-IP	Max 3, 02 to 18 ft, 1 to 6 lamps			2	
88919	USB-1048-16-IP	Max 3, 10 to 48 ft, 1 to 6 lamps			2	
88920	USB-1232-16-IP	Max 3, 12 to 32 ft, 1 to 6 lamps			2	
Prod Code	Description	Application	Bottom Exit with Studs	Dual Exit/ Bottom and Side	3-Way Mounting	Units Per Carton
Compact Fluorescent Ballasts						
ProLine® CFL Electronic Ballasts						
For 13 - 42W T4 CFL Lamps						
71430	GE/C213-MVPS-3W	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS	71428	71429	71430	10
71434	GE/C218-MVPS-3W	2 or 1 - CFQ18W/G24q Bottom Exit 120-277 ProLine® PS	71432	71433	71434	10
71445	GE/C226-MVPS-3W	2 - CFQ26W, F124 or 1-42W, CF1832 Bottom Exit 120-277V ProLine® PS	71443	71444	71445	10
47509	C242UNVSE-IP	2 - 42/36/32/26/24 watt CFL/UNV side exit	47506			10
For 40W Biac® CFL Ballasts						
80683	C240PUNVHP-B-IP	2 or 1 - FT40W/G211 PS UNV				10
80680	C240S120RH-IP	2 - FT40W/G211 IS 120				10
80681	C240S1277RH-IP	2 - FT40W/G211 IS 277				10
80690	C340S120RH-IP	3 - FT40W/G211 IS 120				10
80691	C340S1277RH-IP	3 - FT40W/G211 IS 277				10
For 5 - 26W Preheat CFL Lamps						
87533	GEM1CF13PH120	1 - CF1/Q13W/Gx23 Preheat 120 (W111H2P)				20
CFL Magnetic Ballasts						
For 5 - 26W Preheat CFL Lamps						
87655	GEM2CF13PH277	2 - CF1/Q13W/Gx23 Preheat 277 (W214PBES)				10

Ballast

Order Code	Description	Application	ANSI Lamp Type	Circuit Type	Units Per Carton
HID Electronic Ballasts					
For 20 – 150W Pulse Start HID Lamps					
87490	GEIH20-MLF-120	1 – 20W M156 120V Electronic HID	M156	Electronic	10
87501	GEIH39-MSF-120	1 – 39W M130 120V Electronic HID	M130	Electronic	10
87516	GEIH50-MSF-120	1 – 50W M110 M/C148 120V Electronic HID	M148, M110, C148	Electronic	10
87531	GEIH70-MSF-120	1 – 70W M98 M/C143 120V Electronic HID	M98, M143, M139, C143, C139	Electronic	10
87546	GEIH70-SLJ-MV	1 – 70W M98 M/C143 120V-277V Electronic HID	M139, C139, M98, M143, C143	Electronic	10
87561	GEIH100-SLJ-MV	1 – 100W M90 M/C140 120V-277V Electronic HID	M90, M140, C140	Electronic	10
87576	GEIH150-SLJ-MV	1 – 150W M102 M/C142 120V-277V Electronic HID	M142, M102, C142	Electronic	10
For 250W – 400W Pulse Start HID Lamps					
29377	GE-MH-250-400-MA	1 – 250 to 400W UltraMax® HID Electronic 208-277 50-60Hz	M155, M153, M138, M135, M132, M131, M154	Electronic	1
89646	GEIH250-400M-V50	1 – 250 to 400W UltraMax® HID Dimming 208-277 50-60Hz	M155, M154, M153, M138, M135, M132, M131	Electronic	1
High Intensity Discharge Electromagnetic Ballasts					
Metal Halide					
For 20 – 175W Metal Halide HID Lamps					
86824	GE150MLTCL3D-S	1 – 50W MH M110 or M148 Quad (120/208/240/277V)	M110	HX-HPF	6
86847	GE1750MLTCL3D-S	1 – 70W MH M98 or M143 Quad (120/208/240/277V)	M98	HX-HPF	6
86839	GE1708TLCL3D-S	1 – 70W MH M98 or M143 480	M98	HX-HPF	6
86675	GE100MLTCL3D-S	1 – 100W MH M90 or M140 Quad (120/208/240/277V)	M92, M90, M140	HX-HPF	6
86667	GE10048TLCL3D-S	1 – 100W MH M90 or M140 480	M92, M90, 480	HX-HPF	6
86718	GE1150MLTCL3D-S	1 – 150W MH M102 or M142 Quad (120/208/240/277V)	M142, M102	HX-HPF	6
86711	GE115048TLCL3D-S	1 – 150W MH M102 or M142 480	M142, M102, M107	HX-HPF	6
87210	GE1175MLTAC3-S	1 – 175W MH M57 or H39 5-Tap (120/208/240/277/480V)	M57, H39, M109	CWA	6
86741	GE1175MLTAC3-S	1 – 175W MH M57 or H39 Quad (120/208/240/277V)	M57, M107, H39	CWA	6
For 250 – 1500W Metal Halide HID Lamps					
87211	GE1250MLTAC3-S	1 – 250W MH M58 or H37 5-Tap (120/208/240/277/480V)	M58, H37	CWA	6
86765	GE1250MLTAC3-S	1 – 250W MH M58 or H37 Quad (120/208/240/277V)	M58, H37	CWA	6
87212	GE1250MLTAC3-S	1 – 250W MH M58 or H37 5-Tap (120/208/240/277/480V)	M58, H37	CWA	3
72300	GE1400MLTAC3-S	1 – 400W MH M59 or H33 5-Tap (120/208/240/277/480V) Al C&C	M59, H33	CWA	3
72149	GE1400MLTAC3-S	1 – 400W MH M59 or H33 Quad (120/208/240/277V) Al C&C	M59, H33	CWA	3
86803	GE140048TAC3-S	1 – 400W MH M59 or H33 480	M59, H33	CWA	3
86650	GE100048TAC3-S	1 – 1000W MH M47 or H36 480	M47, H36	CWA	2
87213	GE11000MLTAC3-S	1 – 1000W MH M47 or H36 5-Tap (120/208/240/277/480V)	M47, H36	CWA	2
86655	GE11000MLTAC3-S	1 – 1000W MH M47 or H36 Quad (120/208/240/277V)	M47, H36	CWA	2
86693	GE1150048TAC3-S	1 – 1500W MH M48 480	M48	CWA	2
86698	GE11500MLTAC3-S	1 – 1500W MH M48 Quad (120/208/240/277V)	M48	CWA	2
Pulse Start					
For 175 – 1000W Pulse Start Metal Halide HID Lamps					
86885	GE1175MLTAC3-S	1 – 175W PS M137 or M152 Quad (120/208/240/277V)	M153, M137	CWA	6
86876	GE117548TAC3-S	1 – 175W PS M137 or M152 480	M152, M137	CWA	6
86935	GE1250MLTAC3-S	1 – 250W PS M138 or M153 Quad (120/208/240/277V)	M153, M138	CWA	3
86926	GE125048TAC3-S	1 – 250W PS M138 or M153 480	M153, M138	CWA	3
86959	GE1320MLTAC3-S	1 – 320W PS M132 or 154 Quad (120/208/240/277V)	M154, M132	CWA	3
86952	GE132048TAC3-S	1 – 320W PS M132 or M154 480	M154, M132	CWA	3
86968	GE1320TRIAC3-S	1 – 320W PS M132 or M154 TRI-Voltage 120 277 347	M154, M132	CWA	3
86984	GE1350MLTAC3-S	1 – 350W PS M131 Quad (120/208/240/277V)	M131	CWA	3
86999	GE140048TAC3-S	1 – 400W PS M135 or M155 480	M155, M135	CWA	3
87008	GE1400MLTAC3-S	1 – 400W PS M135 or M155 Quad (120/208/240/277V)	M155, M135	CWA	3
46936	GE175048TAC3-S	1 – 750W PS M149 480	M149	CWA	2
46934	GE1750MLTAC3-S	1 – 750W PS M149 Quad (120/208/240/277V)	M149	CWA	2
72281	GE11000MLTAC3-S	1 – 1000W PS M141 Quad (120/208/240/277V)	M141	CWA	2
72282	GE11000MLTAC3-S	1 – 1000W PS M141 5-Tap (120/208/240/277/480V)	M141	CWA	2
High-Pressure Sodium					
For 50 – 150W High Pressure Sodium HID Lamps					
87152	GE1500MLTCL3D-S	1 – 50W HPS S68 Quad (120/208/240/277V)	S68	HX-HPF	6
86587	GE170MLTCL3D-S	1 – 70W HPS S62 Quad (120/208/240/277V)	S62	HX-HPF	6
86456	GE17048TLCL3D-S	1 – 70W HPS S62 480V	S62	HX-HPF	6
87074	GE1500MLTCL3D-S	1 – 100W HPS S54 Quad (120/208/240/277V)	S54	HX-HPF	6
87068	GE150048TLCL3D-S	1 – 100W HPS S54 480V	S54	HX-HPF	6
87094	GE1500MLTCL3D-S	1 – 150W HPS S55 Quad (120/208/240/277V)	S55	HX-HPF	6
87087	GE15048TLCL3D-S	1 – 150W HPS S55 480V	S55	HX-HPF	6
For 250 – 1000W High Pressure Sodium HID Lamps					
87214	GE1250MLTAC3-S	1 – 250W HPS S50 5-Tap (120/208/240/277/480V)	S50	CWA	3
87121	GE1250MLTAC3-S	1 – 250W HPS S50 Quad (120/208/240/277V)	S50	CWA	3
87215	GE1400MLTAC3-S	1 – 400W HPS S51 5-Tap (120/208/240/277/480V)	S51	CWA	3
87164	GE1400MLTAC3-S	1 – 400W HPS S51 Quad (120/208/240/277V)	S51	CWA	3
87198	GE140048TAC3-S	1 – 400W HPS S51 480V in smaller frame	S51	CWA	3
87048	GE1100048TAC3-S	1 – 1000W HPS S52 480V	S52	CWA	2
87218	GE11000MLTAC3-S	1 – 1000W HPS S52 5-Tap (120/208/240/277/480V)	S52	CWA	2
87056	GE11000MLTAC3-S	1 – 1000W HPS S52 Quad (120/208/240/277V)	S52	CWA	2

Order Code	Description	Application	ANSI Lamp Type	Circuit Type	Units Per Carton
High Intensity Discharge Electromagnetic Ballasts (continued)					
HID Lamp Ballast Kits					
71701	GE1175ML5AC3-S5	1 – 175W MH M57 or H39 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (1-55)	M57 Mogul Base Elliptical Lamp	CWA	1
71702	GE1250ML5AC3-S5	1 – 250W MH M58 or H37 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (1-55)	M58 Mogul Base Elliptical Lamp	CWA	1
71703	GE1400ML5AC3-S5	1 – 400W MH M59 or H33 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (1-55)	M59 Mogul Base Elliptical Lamp	CWA	1
71704	GE11000ML5AC3-S5	1 – 1000W MH M47 or H36 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (1-55)	M47 Mogul Base Elliptical Lamp	CWA	1
71705	GE1500ML5CL3D-S5	1 – 100W HPS S54 Quad (120/208/240/277V) Lamp & Ballast Kit (1-55)	S54 Medium Base Elliptical Lamp	HX-HPF	1
71706	GE1250ML5AC3-S5	1 – 250W HPS S50 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (1-55)	M50 Mogul Base ED18 Lamp	CWA	1
71707	GE1400ML5AC3-S5	1 – 400W HPS S51 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (1-55)	S51 Mogul Base ED18 Lamp	CWA	1
Enclosed and Potted Metal Halide					
86576	11210277CTC000C	1 – 70W M98 120/277 Enclosed & Potted	M98	HX-HPF	4
86578	11210506CTC000C	1 – 70W M98 120/277 Enclosed & Potted	M98	HX-HPF	4
86574	11210239CTC000I	1 – 100W M90 120/277 Enclosed & Potted	M90	HX-HPF	4
86563	11102455CTC000I	1 – 175W M57 120/277 Enclosed & Potted	M57, H39	CWA	2
86564	11102466CTC000C	1 – 250W M58 120/277 Enclosed & Potted	M58, H37	CWA	2
42670	1110-2475C-TC	1 – 400W M59 120/277 Enclosed & Potted F-can	M59, H33	CWA	2
80728	1111-2475CTC000I	1 – 400W M59 120/277 Enclosed & Potted	M59, H33	CWA	4
F-Can and Post Mount High Pressure Sodium					
86605	1233142U000I	1 – 70W S62 120 Reactor-NPF	S62	R-HPF, R-NPF	6
86596	12210237CTC000I	1 – 70W S62 120/277 E and P-F-Can built-in starter	S62	HX-HPF	6
86606	1233154U000I	1 – 150W S55 120 Reactor-NPF	S55	R-NPF	6
High Intensity Discharge Accessories					
Replacement Capacitors					
88980	005-1184-MF	10.0 MFD 400V 90C 2.4 MEG 1.50 oval 2.7 ht			20
88982	005-1185-MF	15.0 MFD 400V 90C 1.6 MEG 1.75 oval 2.7 ht			20
89007	005-1422-MF	48.0 MFD 300V 90C 0.6 MEG 1.75 oval 3.9 ht			20
89077	005-2779-MF	28.0 MFD 480V 90C 1.75 oval 3.9 ht			20
89083	005-3160-MF	28.0 MFD 360V 90C 1.0 MEG 1.75 oval 3.1 ht			20
Replacement Ignitors for Pulse Start Lamps (MH and HPS)					
86864	MH100-3A	Ignitor for MH 30 50 70 100			20
86635	HPS150-3A	Ignitor HPS 150 watts or less except 150W-S56			20
86641	HPS400-3A	Ignitor HPS 200-400 watts & 150W-S56			10
Other Accessories					
47621	000-8724	HIDP Adjustable Mounting Bracket Hardware Kit			100
86467	001-2009	Splice Box			10
86468	004-9177	Adjustable Mounting Bracket For 4" HID			50
86624	28MB1000C	HID Parts E&P Mounting Bracket			50

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For the most up-to-date information, see www.gelighting.com. 6-15

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For the most up-to-date information, see www.gelighting.com.

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Ballast

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F34T12 (cont)	1	120-277	Electronic - Program / Rapid Start	24037	GE-240-RS-MV-N	2 or 1 - F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	1	120	Electronic - Program / Rapid Start	72110	GE140RS120-DIV	1 - F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Electronic - Program / Rapid Start	72110	GE140RS120-DIV	1 F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Magnetic - Rapid Start	89714	GEM140HRS120DIV	1 - F40T12 F40T12 120V Magnetic Ballast (I12LSLHCTP)
	1	120	Magnetic - Rapid Start	89709	GEM140RS120DIV	1 - F40T12 F30T12 F48/25W 120V Magnetic Ballast (I13CTCP)
F35T5/HE	2	120-277	Electronic - Program / Rapid Start	47536	B28PUNV-COGIC	2 - F28T5 PRS UNV 50/60 Hz
	2	120-277	Electronic - Program / Rapid Start	99655	GE228MVP5-A	2 or 1 - F14-F35HE 120 to 277 UltraStar® PRS Normal Light, 95 BA Can
	2	120-277	Electronic - Program / Rapid Start	99653	GE228MVP5H-A	12 or 1 - F14-F35HE 120 to 277 UltraStar® PRS High Light 1.15 BF A Can
	1	120-277	Electronic - Program / Rapid Start	47536	B28PUNV-COGIC	2 - F28T5 PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	99655	GE228MVP5-A	2 or 1 - F14-F35HE 120 to 277 UltraStar® PRS Normal Light, 95 BA Can
F35T5/WM	1	120-277	Electronic - Program / Rapid Start	99653	GE228MVP5H-A	11 or 1 - F14-F35HE 120 to 277 UltraStar® PRS High Light 1.15 BF A Can
	2	120-277	Electronic - Program / Rapid Start	99655	GE228MVP5-A	2 or 1 - F14-F35HE 120 to 277 UltraStar® PRS Normal Light, 95 BA Can
	1	120-277	Electronic - Program / Rapid Start	99655	GE228MVP5-A	2 or 1 - F14-F35HE 120 to 277 UltraStar® PRS Normal Light, 95 BA Can
	2	120-277	Electronic - Program / Rapid Start	47540	B239PUNV-DOGIC	2 - F39T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	47534	B24PUNV-COGIC	2 - F24T5HO PRS UNV 50/60 Hz
F39T5/HO	1	120-277	Electronic - Program / Rapid Start	47540	B239PUNV-DOGIC	2 - F39T5HO PRS UNV 50/60 Hz
	3	120-277	Electronic - Program / Rapid Start	24039	GE-340-RS-MV-N	3 or 2 - F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic - Program / Rapid Start	24037	GE-240-RS-MV-N	3 or 2 - F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120-277	Electronic - Program / Rapid Start	24039	GE-340-RS-MV-N	3 or 2 - F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	277	Magnetic - Rapid Start	86124	GE2M40RS277IP	2 - F40T12 RS 277V Magnetic Ballast (I46LSLHCTP)
F40T10	2	120	Magnetic - Rapid Start	89710	GEM240HRS120DIV	2 - F40T12 F40T12 120V Magnetic Ballast (I20ZCTCP)
	2	120	Magnetic - Rapid Start	86139	GEM240RS120IP	2 - F40T12 RS 120V Magnetic Ballast (I46LSLHCTP)
	1	120-277	Electronic - Program / Rapid Start	24037	GE-240-RS-MV-N	2 or 1 - F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	1	120	Magnetic - Rapid Start	89714	GEM140HRS120DIV	1 - F40T12 F40T12 120V Magnetic Ballast (I12LSLHCTP)
	2	220	Magnetic - Rapid Start	86341	GEM240RS220IP	2 - F40T12 F40T10 220V Magnetic Ballast (F54LCTP)
F40T12	1	120	Electronic - Program / Rapid Start	72110	GE140RS120-DIV	1 - F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	3	120-277	Electronic - Program / Rapid Start	24039	GE-340-RS-MV-N	3 or 2 - F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic - Program / Rapid Start	24037	GE-240-RS-MV-N	2 or 1 - F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120-277	Electronic - Program / Rapid Start	24039	GE-340-RS-MV-N	3 or 2 - F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	277	Magnetic - Rapid Start	86124	GE2M40RS277IP	2 - F40T12 RS 277V Magnetic Ballast (I46LSLHCTP)
F40T12/WM	2	120	Electronic - Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
	2	120	Electronic - Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
	2	120	Magnetic - Rapid Start	89710	GEM240HRS120DIV	2 - F40T12 RS 120V Magnetic Ballast (I20ZCTCP)
	2	120	Magnetic - Rapid Start	86139	GEM240RS120IP	2 - F40T12 RS 120V Magnetic Ballast (I46LSLHCTP)
	1	120-277	Electronic - Program / Rapid Start	24037	GE-240-RS-MV-N	2 or 1 - F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
F40T12/WMP	1	120	Electronic - Program / Rapid Start	72110	GE140RS120-DIV	1 F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Magnetic - Rapid Start	89714	GEM140HRS120DIV	1 - F40T12 F40T12 120V Magnetic Ballast (I12LSLHCTP)
	1	120	Magnetic - Rapid Start	89709	GEM140RS120DIV	1 - F40T12 F30T12 F48/25W 120V Magnetic Ballast (I13CTCP)
	1	120	Electronic - Program / Rapid Start	72110	GE140RS120-DIV	1 - F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	2	277	Magnetic - Rapid Start	86139	GEM240RS120IP	2 - F40T12 RS 120V Magnetic Ballast (I46LSLHCTP)
F40T8	3	120-277	Electronic - Program / Rapid Start	24039	GE-340-RS-MV-N	3 or 2 - F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic - Program / Rapid Start	24039	GE-340-RS-MV-N	3 or 2 - F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120	Magnetic - Rapid Start	89710	GEM240HRS120DIV	2 - F40T12 F40T12 120V Magnetic Ballast (I20ZCTCP)
	1	120	Magnetic - Rapid Start	89714	GEM140HRS120DIV	1 - F40T12 F40T12 120V Magnetic Ballast (I12LSLHCTP)
	3	120-277	Electronic - High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 - F32T8 120 to 277 "N+", 1.0 BF UltraMax®
F40T8 (cont)	2	120-277	Electronic - High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 - F32T8 120 to 277 "N+", 1.0 BF UltraMax®
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49766	GE159MAX-N/ULTRA	1 - F96T8 120 to 277 "N", 87 BF UltraMax®
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 - F32T8 120 to 277 "H", 1.15 BF UltraMax®
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 - F32T8 120 to 277 "N+", 1.0 BF UltraMax®
	1	120	Electronic - Standard Instant Start	23671	GE-232-120-N	2 or 1 - F32T8 120V "N", 87 BF ProLine®
F40T8 (cont)	3	120-277	Electronic - High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 - F32T8 120 to 277 "H", 1.15 BF UltraMax®
	3	120-277	Electronic - Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 - F32T8 120 to 277 "H", 1.15 BF Multivolt ProLine®
	3	120-277	Electronic - Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 - F32T8 120 to 277 "L", 77 BF Multivolt ProLine®
	3	120-277	Electronic - Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 - F32T8 120 to 277 "N", 87 BF Multivolt ProLine®
	3	277	Electronic - Standard Instant Start	23676	GE-432-277-N	4 or 3 - F32T8 277V "N", 87 BF ProLine®
F40T8 (cont)	3	120	Electronic - Standard Instant Start	23675	GE-432-120-N	4 or 3 - F32T8 120V "N", 87 BF ProLine®
	2	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F96T8 120 to 277 "N", 87 BF UltraMax®
	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N", 87 BF
	2	120-277	Electronic - High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 - F32T8 120 to 277 "H", 1.15 BF UltraMax®
	2	120-277	Electronic - Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 - F32T8 120 to 277 "H", 1.15 BF Multivolt ProLine®
F40T8 (cont)	2	120-277	Electronic - Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 - F32T8 120 to 277 "L", 77 BF Multivolt ProLine®
	2	120-277	Electronic - Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 - F32T8 120 to 277 "N", 87 BF Multivolt ProLine®
	2	277	Electronic - Standard Instant Start	23674	GE-332-277-N	3 or 2 - F32T8 277V "N", 87 BF ProLine®
	2	120	Electronic - Standard Instant Start	23673	GE-332-120-N	3 or 2 - F32T8 120V "N", 87 BF ProLine®

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F40T8 (cont)	1	120-277	Electronic - Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 - F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic - Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 - F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic - Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 - F32T8 120 to 277 "L" 77 BF Multivolt ProLine®
	1	120-277	Electronic - Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 - F32T8 120 to 277 "N" 87 BF Multivolt ProLine®
	1	120-277	Electronic - Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 - F32T8 120 to 277 "N" 87 BF Multivolt ProLine®
F40T12	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F96T8 120 to 277 "N" 87 BF UltraMax®
	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
	1	277	Electronic - Standard Instant Start	23672	GE-232-277-N	2 or 1 - F32T8 277V "N" 87 BF ProLine®
	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	2	277	Magnetic - Standard Instant Start	86379	GEM296IS277IP	2 - F96T12 IS 277V Magnetic Ballast (I827SLHCTP)
F40T12/25W	2	120	Magnetic - Standard Instant Start	86360	GEM296IS120P	2 - F96T12 IS 120V Magnetic Ballast (I806SLHCTP)
	1	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	1	120	Electronic - Program / Rapid Start	72110	GE140RS120-DIV	1 F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Magnetic - Rapid Start	89709	GEM140RS120DIV	1 - F40T12 F30T12 F48/25W 120V Magnetic Ballast (I13CTCP)
	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F96T12 HO RS 120 to 277 Multivolt ProLine®
F40T12/HO	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
F40T8/HO	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
F4T5	1	277	Magnetic - Preheat	87634	GEM1CFS79PH277	1 - CFS79Q9W/G23 Preheat 277 (I20SF2P)
F54T5/HO	4	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	4	120-277	Electronic - Program / Rapid Start	29726	GE454MVP5N1	4,3,2 or 1 - F54T5HO 120-277V UltraStar® PRS Stick Can
	3	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	3	120-277	Electronic - Program / Rapid Start	29726	GE454MVP5N1	4,3,2 or 1 - F54T5HO 120-277V UltraStar® PRS Stick Can
	2	120-277	Electronic - Program / Rapid Start	47542	B254PUNV-DOEIC	2 - F54T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - F54T5HO 120 to 277 UltraStar® PRS High Temp F Can
	2	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	2	120-277	Electronic - Program / Rapid Start	29726	GE454MVP5N1	4,3,2 or 1 - F54T5HO 120-277V UltraStar® PRS Stick Can
	1	120-277	Electronic - Program / Rapid Start	47542	B254PUNV-DOEIC	2 - F54T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - F54T5HO 120 to 277 UltraStar® PRS High Temp F Can
F54T5/WM	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	1	120-277	Electronic - Program / Rapid Start	29726	GE454MVP5N1	4,3,2 or 1 - F54T5HO 120-277V UltraStar® PRS Stick Can
	4	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	3	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	2	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - F54T5HO 120 to 277 UltraStar® PRS High Temp F Can
	2	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	1	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - F54T5HO 120 to 277 UltraStar® PRS High Temp F Can
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	4	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	3	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
F58T8	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	2	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - F54T5HO 120 to 277 UltraStar® PRS High Temp F Can
	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
	2	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	1	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - F54T5HO 120 to 277 UltraStar® PRS High Temp F Can
	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
	2	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - F54T5HO 120 to 277 UltraStar® PRS High Temp F Can
	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - F54T5HO 120 to 277 UltraStar® PRS High Temp E Can
F60T12	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	1	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
F60T8/HO	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F96T8HO 15 120 to 277 "N" 87 BF
	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	1	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	1	277	Magnetic - Preheat	87634	GEM1CFS79PH277	1 - CFS79Q9W/G23 Preheat 277 (I20SF2P)
F72T12	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	2	277	Magnetic - Standard Instant Start	86379	GEM296IS277IP	2 - F96T12 IS 277V Magnetic Ballast (I827SLHCTP)
	2	120	Magnetic - Standard Instant Start	86360	GEM296IS120P	2 - F96T12 IS 120V Magnetic Ballast (I806SLHCTP)
	1	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F96T12 Instant Start 120 to 277
	1	277	Magnetic - Standard Instant Start	86381	GEM196IS277IP	1 - F96T12 IS 277V Magnetic Ballast (I828KTCPI)
F72T12/HO	1	120	Magnetic - Standard Instant Start	86372	GEM196IS120P	1 - F96T12 IS 120V Magnetic Ballast (I828KTCPI)
	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	277	Electronic - Program / Rapid Start	80163	B295SR277HP	2 - F96T12HOES RS 277
	2	277	Magnetic - Rapid Start	86171	GEM268HOR277IP	2 - F96T12HO RS 277V Magnetic Ballast (I487SLHCTP)
	2	120	Electronic - Standard Instant Start	80664	49382	2 - F73T12/BL/HO S20 120 Magnetic Ballast
	2	120	Electronic - Program / Rapid Start	80162	B295SR120HP	2 - F96T12HOES RS 120

Ballast

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F7212/HO (cont)	2	120	Magnetic - Rapid Start	86164	GEM296HORS120IP	2 - F9612HO F7212HO RS 120V Magnetic Ballast (A80SLHTCP)
	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F9612 HO RS 120 to 277 Multivolt ProLine®
F72T8	2	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F9618 120 to 277 "N" 87 BF UltraMax®
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F9618 120 to 277 "N" 87 BF UltraMax®
F72T8/HO	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF
	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF
F7312/HO	2	120	Electronic - Standard Instant Start	80664	49382	2 - F7312/BL/HO Suntan 120 Magnetic Ballast
F84112	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F9612 Instant Start 120 to 277
	1	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F9612 Instant Start 120 to 277
F8412/HO	2	277	Electronic - Program / Rapid Start	80163	B295SR277HP	2 - F9612HOES RS 277
	2	120	Electronic - Program / Rapid Start	80162	B295SR120HP	2 - F9612HOES RS 120
F8T5	1	277	Magnetic - Preheat	87634	GEM1CFS79PHZ77	1 - CF1579Q9W/G23 Preheat 277 (A20SF2P)
F8T9	1	120	Electronic - Program / Rapid Start	97498	GE24ORS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
F96T12	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F9612 Instant Start 120 to 277
	2	277	Magnetic - Standard Instant Start	86379	GE296IS277IP	2 - F9612 IS 277V Magnetic Ballast (B275LHTCP)
	2	120	Magnetic - Standard Instant Start	86360	GEM296IS120IP	2 - F9612 IS 120V Magnetic Ballast (B065SLHTCP)
	1	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F9612 Instant Start 120 to 277
	1	277	Magnetic - Standard Instant Start	86381	GEM196IS277IP	1 - F9612 IS 277 Magnetic Ballast (B228RTCP)
	1	120	Magnetic - Standard Instant Start	86372	GEM196IS120IP	1 - F9612 IS 120 Magnetic Ballast (B228RTCP)
F96T12/HO	1	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F9612 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F9612 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F9612 HO RS 120 to 277 Multivolt ProLine®
	2	277	Electronic - Program / Rapid Start	80163	B295SR277HP	2 - F9612HOES RS 277
	2	277	Magnetic - Rapid Start	86171	GEM296HORS277IP	2 - F9612HO RS 277V Magnetic Ballast (A875LHTCP)
	2	120	Electronic - Program / Rapid Start	80162	B295SR120HP	2 - F9612HOES RS 120
	2	120	Magnetic - Rapid Start	86164	GEM296HORS120IP	2 - F9612HO F7212HO RS 120V Magnetic Ballast (A80SLHTCP)
	1	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F9612 HO RS 120 to 277 Multivolt ProLine®
F96T12/HO/WM	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F9612 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic - Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 - F9612 HO RS 120 to 277 Multivolt ProLine®
F96T12/WM	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F9612 Instant Start 120 to 277
	2	277	Magnetic - Standard Instant Start	86379	GEM296IS277IP	2 - F9612 IS 277V Magnetic Ballast (B275LHTCP)
	2	120	Magnetic - Standard Instant Start	86360	GEM296IS120IP	2 - F9612 IS 120V Magnetic Ballast (B065SLHTCP)
	1	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F9612 Instant Start 120 to 277
	1	277	Magnetic - Standard Instant Start	86381	GEM196IS277IP	1 - F9612 IS 277 Magnetic Ballast (B228RTCP)
	1	120	Magnetic - Standard Instant Start	86372	GEM196IS120IP	1 - F9612 IS 120 Magnetic Ballast (B228RTCP)
F96T12/WM/P	2	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F9612 Instant Start 120 to 277
	1	120-277	Electronic - Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 - F9612 Instant Start 120 to 277
F96T8	2	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F9618 120 to 277 "N" 87 BF UltraMax®
	2	120-277	Electronic - Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®
	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF
	2	277	Electronic - Standard Instant Start	23678	GE-259-277-N	2 or 1 - F9618 277v "N" 87 BF ProLine®
	2	120	Electronic - Standard Instant Start	23677	GE-259-120-N	2 or 1 - F9618 120v Normal Light 87 BF ProLine®
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49766	GE159MAX-N/ULTRA	1 - F9618 120 to 277 "N" 87 BF UltraMax®
	1	120-277	Electronic - Multivolt Instant Start	30195	GE-159-MV-N	1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F9618 120 to 277 "N" 87 BF UltraMax®
	1	120-277	Electronic - Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®
	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF
	1	277	Electronic - Standard Instant Start	23678	GE-259-277-N	2 or 1 - F9618 277v "N" 87 BF ProLine®
	1	120	Electronic - Standard Instant Start	23677	GE-259-120-N	2 or 1 - F9618 120v Normal Light 87 BF ProLine®
F96T8/HO	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF
	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF
F96T8/HO/WM	2	277	Electronic - Program / Rapid Start	80163	B295SR277HP	2 - F9612HOES RS 277
	2	277	Magnetic - Rapid Start	86171	GEM296HORS277IP	2 - F9612HO RS 277V Magnetic Ballast (A875LHTCP)
	2	120	Electronic - Program / Rapid Start	80162	B295SR120HP	2 - F9612HOES RS 120
	2	120	Magnetic - Rapid Start	86164	GEM296HORS120IP	2 - F9612HO F7212HO RS 120V Magnetic Ballast (A80SLHTCP)
F96T8/WM	2	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F9618 120 to 277 "N" 87 BF UltraMax®
	2	120-277	Electronic - Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®
	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF
	2	277	Electronic - Standard Instant Start	23678	GE-259-277-N	2 or 1 - F9618 277v "N" 87 BF ProLine®
	2	120	Electronic - Standard Instant Start	23677	GE-259-120-N	2 or 1 - F9618 120v Normal Light 87 BF ProLine®
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49766	GE159MAX-N/ULTRA	1 - F9618 120 to 277 "N" 87 BF UltraMax®
	1	120-277	Electronic - Multivolt Instant Start	30195	GE-159-MV-N	1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F9618 120 to 277 "N" 87 BF UltraMax®
	1	120-277	Electronic - Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®
	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description	
Linear Fluorescent Lamps (continued)							
F96T8/WM (cont)	1	277	Electronic - Standard Instant Start	23678	GE-259-277-N	2 or 1 - F9618 277v "N" 87 BF ProLine®	
	1	120	Electronic - Standard Instant Start	23677	GE-259-120-N	2 or 1 - F9618 120v Normal Light 87 BF ProLine®	
F96T8/WM/P	2	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F9618 120 to 277 "N" 87 BF UltraMax®	
	2	120-277	Electronic - Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®	
	2	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF	
	2	277	Electronic - Standard Instant Start	23678	GE-259-277-N	2 or 1 - F9618 277v "N" 87 BF ProLine®	
	2	120	Electronic - Standard Instant Start	23677	GE-259-120-N	2 or 1 - F9618 120v Normal Light 87 BF ProLine®	
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49766	GE159MAX-N/ULTRA	1 - F9618 120 to 277 "N" 87 BF UltraMax®	
	1	120-277	Electronic - Multivolt Instant Start	30195	GE-159-MV-N	1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®	
	1	120-277	Electronic - High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 - F9618 120 to 277 "N" 87 BF UltraMax®	
	1	120-277	Electronic - Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 - F9618 120 to 277 "N" 87 BF Multivolt ProLine®	
	1	120-277	Electronic - Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 - F9618HO IS 120 to 277 "N" 87 BF	
	1	277	Electronic - Standard Instant Start	23678	GE-259-277-N	2 or 1 - F9618 277v "N" 87 BF ProLine®	
	1	120	Electronic - Standard Instant Start	23677	GE-259-120-N	2 or 1 - F9618 120v Normal Light 87 BF ProLine®	
Circline Fluorescent Lamps							
FC127SHO	4	120-277	Electronic - Program / Rapid Start	99649	GE45AMVP90-E	4-1 - FS4TSHO 120 to 277 UltraStart® PRS High Temp E Can	
	3	120-277	Electronic - Program / Rapid Start	99649	GE45AMVP90-E	4-1 - FS4TSHO 120 to 277 UltraStart® PRS High Temp E Can	
	2	120-277	Electronic - Program / Rapid Start	47542	B25APUNV-DGE1C	2 - FS4TSHO PRS UNV 50/60 Hz	
	2	120-277	Electronic - Program / Rapid Start	99649	GE45AMVP90-E	4-1 - FS4TSHO 120 to 277 UltraStart® PRS High Temp E Can	
	2	120-277	Electronic - Program / Rapid Start	99651	GE25AMVP90-F	2 or 1 - FS4TSHO 120 to 277 UltraStart® PRS High Temp F Can	
	1	120-277	Electronic - Program / Rapid Start	47542	B25APUNV-DGE1C	2 - FS4TSHO PRS UNV 50/60 Hz	
	1	120-277	Electronic - Program / Rapid Start	99649	GE45AMVP90-E	4-1 - FS4TSHO 120 to 277 UltraStart® PRS High Temp E Can	
	1	120-277	Electronic - Program / Rapid Start	99651	GE25AMVP90-F	2 or 1 - FS4TSHO 120 to 277 UltraStart® PRS High Temp F Can	
	FC1279	2	120	Electronic - Rapid Start	89717	GEM1FC1279RS120	2 - FC1279 RS 120V Magnetic Ballast (A49LRWSTCP)
		2	120	Electronic - Program / Rapid Start	97498	GE24ORS120	5 - F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12
	1	120	Magnetic - Rapid Start	89720	GEM1FC1679RS120	2 - FC1279 FC1679 FC8T9 FC1279 120V Magnetic (Z76VLHWSTCP)	
	1	120	Electronic - Program / Rapid Start	97499	GE24ORS120	3 - F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12	
FC16T9	1	120	Electronic - Program / Rapid Start	89720	GEM1FC1679RS120	2 - FC1279 FC1679 FC8T9 FC1279 120V Magnetic (Z76VLHWSTCP)	
	1	120-277	Electronic - Program / Rapid Start	71444	GC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71445	GC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS	
	1	120	Magnetic - Rapid Start	86227	GEM1FC879RS120P	1 - FC8T9 RS 120V Magnetic Ballast (S47RSWSTCP)	
FC8T9	1	120	Electronic - Rapid Start	89717	GEM1FC1279RS120	2 - FC1279 RS 120V Magnetic Ballast (A49LRWSTCP)	
FC8T9	2	120	Electronic - Rapid Start	89717	GEM1FC1279RS120P	1 - FC8T9 RS 120V Magnetic Ballast (S47RSWSTCP)	
	1	120	Magnetic - Rapid Start	86227	GEM1FC879RS120P	1 - FC8T9 RS 120V Magnetic Ballast (S47RSWSTCP)	
Compact Fluorescent Lamps							
CFM36W/G210	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2-42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs	
	1	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2-42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs	
CFM42W	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2-42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs	
	1	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2-42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs	
CFM57W	1	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2-42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs	
CFM70W	1	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2-42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs	
CFQ13W/2P	2	277	Magnetic - Preheat	87655	GEM2CF13PHZ77	2 - CFQ13W/G23 Preheat 277 (A214P9ES)	
	1	120	Magnetic - Preheat	87533	GEM1CF13PH120	1 - CFQ13W/G23 Preheat 120 (A111H2P)	
	2	120-277	Electronic - Program / Rapid Start	71430	GC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit	
CFQ13W/G24q	2	120-277	Electronic - Program / Rapid Start	71429	GC213-MVPS-3W	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71430	GC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit	
	1	120-277	Electronic - Program / Rapid Start	71429	GC213-MVPS-3W	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71430	GC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit	
CFQ18W/G24q	1	120-277	Electronic - Program / Rapid Start	71429	GC213-MVPS-3W	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS	
	2	120-277	Electronic - Program / Rapid Start	71434	GC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3-Way Kit	
	2	120-277	Electronic - Program / Rapid Start	71433	GC218-MVPS-3W	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71434	GC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3-Way Kit	
	1	120-277	Electronic - Program / Rapid Start	71433	GC218-MVPS-3W	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS	
	2	277	Magnetic - Preheat	87700	GEM2CF24PHZ77	2 - CFQ26W/G24d Preheat 277 (A226P9ES)	
CFQ26W/2P	2	120-277					
CFQ26W/G24q	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2-42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs	
	2	120-277	Electronic - Program / Rapid Start	71444	GC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS	
	2	120-277	Electronic - Program / Rapid Start	71445	GC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71434	GC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3-Way Kit	
	1	120-277	Electronic - Program / Rapid Start	71434	GC218-MVPS-3W	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71433	GC218-MVPS-3W	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71433	GC218-MVPS-3W	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71445	GC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71444	GC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS	
	1	120-277	Electronic - Program / Rapid Start	71430	GC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit	
CF516W/GRIQ10	2	120-277	Electronic - Program / Rapid Start	71429	GC213-MVPS-3W	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS	

Ballast

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Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Compact Fluorescent Lamps (continued)						
CF516W/GR10q (cont)	2	120-277	Electronic - Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	2	120-277	Electronic - Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic - Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic - Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic - Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
CF521W/GR10q	1	120-277	Electronic - Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	2	120-277	Electronic - Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	71445	GEC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	71444	GEC226-MVPS-XX	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
CF528W/GR10q	1	120-277	Electronic - Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	1	120-277	Electronic - Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic - Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	1	120-277	Electronic - Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS
CFT13W/2P	2	277	Magnetic - Preheat	87655	GEM2CF13PH277	2 - CFT1/Q13W/GX23 Preheat 277 (42x148PES)
	1	120	Magnetic - Preheat	87533	GEM1CF13PH120	1 - CFT1/Q13W/GX23 Preheat 120 (411x112H2P)
CFT5W/2P	1	277	Magnetic - Preheat	87634	GEM1CF579PH277	1 - CFT579QW/G23 Preheat 277 (4205F2P)
CFT7W/2P	1	277	Magnetic - Preheat	87634	GEM1CF579PH277	1 - CFT579QW/G23 Preheat 277 (4205F2P)
CFT9W/2P	1	277	Magnetic - Preheat	87634	GEM1CF579PH277	1 - CFT579QW/G23 Preheat 277 (4205F2P)
CFR131W/GX24q	2	120-277	Electronic - Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	2	120-277	Electronic - Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic - Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic - Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
CFR18W/GX24q	1	120-277	Electronic - Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	2	120-277	Electronic - Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 - CFQ18W/G24q Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic - Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 - CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic - Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 - CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
CFR26W/2P	1	120-277	Electronic - Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 - CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	2	277	Magnetic - Preheat	87700	GEM2CF24PH277	2 - CFQ26W/G24d Preheat 277 (4226P8ES)
	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	2	120-277	Electronic - Program / Rapid Start	71445	GEC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	71444	GEC226-MVPS-XX	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
CFR32W/GX24q	1	120-277	Electronic - Program / Rapid Start	71445	GEC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	1	120-277	Electronic - Program / Rapid Start	71444	GEC226-MVPS-XX	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic - Program / Rapid Start	71445	GEC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	1	120-277	Electronic - Program / Rapid Start	71444	GEC226-MVPS-XX	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
CFR42W/GX24q	1	120-277	Electronic - Program / Rapid Start	71445	GEC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	1	120-277	Electronic - Program / Rapid Start	71444	GEC226-MVPS-XX	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
FC12T5	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
FC12T5	1	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
FC9T5	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
FC9T5 & FC12T5	1 & 1	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
FT24W/ZG10	2	120-277	Electronic - Program / Rapid Start	47534	B24PUNV-COG3IC	2 - F24T5HO PRS UNV 50/60 Hz
FT24W/ZG11	1	120-277	Electronic - Program / Rapid Start	47534	B24PUNV-COG3IC	2 - F24T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2 - 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	2	120-277	Electronic - Program / Rapid Start	71445	GEC226-MVPS-3W	2 - CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	71444	GEC226-MVPS-XX	2 - CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
	2	120-277	Electronic - Program / Rapid Start	47534	B24PUNV-COG3IC	2 - F24T5HO PRS UNV 50/60 Hz
FT24W/4P	1	120-277	Electronic - Program / Rapid Start	47534	B24PUNV-COG3IC	2 - F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	47534	B24PUNV-COG3IC	2 - F24T5HO PRS UNV 50/60 Hz
FT39W/4P	4	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic - Program / Rapid Start	47540	B239PUNV-DGE3IC	2 - FS4T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic - Program / Rapid Start	47542	B254PUNV-DGE3IC	2 - FS4T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	2	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120	Electronic - Program / Rapid Start	97498	GE240RS120	6 - F40 or FS4T12 Rapid Start 120W "N" BF ProLine® T12
	2	120	Magnetic - Rapid Start	87623	GEM2FT36RS120	2 - FT36W/ZG11 RS 120 (4150P)
	1	120-277	Electronic - Program / Rapid Start	47534	B24PUNV-COG3IC	2 - F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	47534	B24PUNV-COG3IC	2 - F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	47540	B239PUNV-DOG3IC	2 - F39T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	47542	B254PUNV-DGE3IC	2 - FS4T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp F Can

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Compact Fluorescent Lamps (continued)						
FT39W/4P (cont)	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
FT40W/4P	3	277	Electronic - Standard Instant Start	80691	C3405I277RH-IP	3 - FT40W/ZG11 IS 277
	3	120	Electronic - Standard Instant Start	80690	C3405I120RH-IP	3 - FT40W/ZG11 IS 120
	2	120-277	Electronic - Program / Rapid Start	80683	C240PUNVHP-B-IP	2 or 1 - FT40W/ZG11 PS UNV
	2	277	Electronic - Standard Instant Start	80681	C2405I277RH-IP	2 - FT40W/ZG11 IS 277
	2	277	Electronic - Standard Instant Start	80691	C3405I277RH-IP	3 - FT40W/ZG11 IS 277
FT50W/ZG11	2	120	Electronic - Standard Instant Start	80680	C2405I120RH-IP	2 - FT40W/ZG11 IS 120
	2	120	Electronic - Standard Instant Start	80690	C3405I120RH-IP	3 - FT40W/ZG11 IS 120
	2	120	Magnetic - Rapid Start	87625	GEM2FT40RS120	2 - FT40W/ZG11RS RS 120 (4152P)
	1	120-277	Electronic - Program / Rapid Start	80683	C240PUNVHP-B-IP	2 or 1 - FT40W/ZG11 PS UNV
	1	277	Electronic - Standard Instant Start	80681	C2405I277RH-IP	2 - FT40W/ZG11 IS 277
FT55W/ZG11	1	120	Electronic - Standard Instant Start	80680	C2405I120RH-IP	2 - FT40W/ZG11 IS 120
	4	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
FT55W/ZG11	1	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	4	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic - Program / Rapid Start	47542	B254PUNV-DGE3IC	2 - FS4T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	47542	B254PUNV-DGE3IC	2 - FS4T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic - Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic - Program / Rapid Start	99651	GE254MVP590-F	2 or 1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic - Program / Rapid Start	99649	GE454MVP590-E	4-1 - FS4T5HO 120 to 277 UltraStart® PRS High Temp E Can

Lamp Type	Use with ANSI Lamp Types	Wattage	Order Code	New GE Description	Circuit Type	Frame Size	Voltage	Cap.	Ignitor
High Intensity Discharge (HID) Lamps									
Metal Halide	M110	50	86824	GEM50MLTCL3D-5	HX-HFP	3x4	120/208/240/277	6MFD 280V	MH350-1A
	M148	50	86824	GEM50MLTCL3D-5	HX-HFP	3x4	120/208/240/277	6MFD 280V	MH350-1A
	M143	70	86839	GEM7048TL3D-5	HX-HFP	3x4	120/480	8MFD 280V	MH350-1A
	M143	70	86847	GEM70MLTCL3D-5	HX-HFP	3x4	120/208/240/277	8MFD 280V	MH350-1A
	M85	70	86576	11210277CTC000C	HX-HFP	F-Can	120/277	N/A	N/A
	M98	70	86578	11210506CTC000C	HX-HFP	F-Can	120/277	N/A	N/A
	M98	70	86839	GEM7048TL3D-5	HX-HFP	3x4	120/480	8MFD 280V	MH350-1A
	M98	70	86847	GEM70MLTCL3D-5	HX-HFP	3x4	120/208/240/277	8MFD 280V	MH350-1A
	M140	100	86667	GEM10048TL3D-5	HX-HFP	3x4	120/480	12MFD 280V	MH350-1A
	M140	100	86675	GEM100MLTCL3D-5	HX-HFP	4.25x5.75	120/208/240/277	12MFD 280V	MH350-1A
	M90	100	86574	11210239CTC000H	HX-HFP	F-Can	120/277	N/A	N/A
	M90	100	86667	GEM10048TL3D-5	HX-HFP	3x4	120/480	12MFD 280V	MH350-1A
	M90	100	86675	GEM100MLTCL3D-5	HX-HFP	4.25x5.75	120/208/240/277	12MFD 280V	MH350-1A
	M92	100	86667	GEM10048TL3D-5	HX-HFP	3x4	120/480	12MFD 280V	MH350-1A
	M92	100	86675	GEM100MLTCL3D-5	HX-HFP	4.25x5.75	120/208/240/277	12MFD 280V	MH350-1A
	M102	150	86711	GEM15048TL3D-5	HX-HFP	3x4	120/480	16MFD 280V	MH350-1A
	M102	150	86718	GEM150MLTCL3D-5	HX-HFP	3x4	120/208/240/277	16MFD 280V	MH350-1A
	M107	150	86711	GEM15048TL3D-5	HX-HFP	3x4	120/480	16MFD 280V	MH350-1A
	M107	150	86718	GEM150MLTCL3D-5	HX-HFP	3x4	120/208/240/277	16MFD 280V	MH350-1A
	M142	150	86711	GEM15048TL3D-5	HX-HFP	3x4	120/480	16MFD 280V	MH350-1A
	M142	150	86718	GEM150MLTCL3D-5	HX-HFP	3x4	120/208/240/277	16MFD 280V	MH350-1A
	M57	175	86563	11107455CTC000H	CWA	F-Can	120/277	N/A	N/A
	M57	175	87210	GEM175M5AC3-5	CWA	3x4	120/208/240/277/H80	10MFD 400V	N/A
	M57	175	86741	GEM175MJAC3-5	CWA	3x4	120/208/240/277	10MFD 400V	N/A
M58	250	86564	11107461CTC000C	CWA	F-Can	120/277	N/A	N/A	
M58	250	87211	GEM250M5AC3-5	CWA	3x4	120/208/240/277/H80	15MFD 400V	N/A	
M58	250	87212	GEM250MJAC3-5	CWA	4.25x4.75	120/208/240/277/H80	15MFD 400V	N/A	
M58	250	86765	GEM250MLTAC3-5	CWA	3x4	120/208/240/277	15MFD 400V	N/A	
M59	400	42670	11110-2475C-1C	CWA	F-Can	120/277	N/A	N/A	
M59	400	80728	11111-2475CTC000H	CWA	F-Can	120/277	N/A	N/A	
M59	400	86803	GEM40048TAC4-5	CWA	4.25x4.75	120/480	24MFD 400V	N/A	
M59	400	72300	GEM400M55AA4-5	CWA	4.25x4.75	120/208/240/277/H80	24MFD 400V	N/A	

Ballast

Lamp Type	Use with ANSI Lamp Types	Wattage	Order Code	New GE Description	Circuit Type	Frame Size	Voltage	Cap.	Ignitor
High Intensity Discharge (HID) Lamps (continued)									
Metal Halide (cont)	M59	400	72149	GEM400MLTAA-5	CWA	4.25x4.75	120/208/240/277	24MFD 400V	
	M47	1000	86650	GEM1000MLTAC5-5	CWA	4.25x6.00	120/480	24MFD 480V	
	M47	1000	87213	GEM1000MLSAC5-5	CWA	4.25x6.00	120/208/240/277/480	24MFD 480V	
	M47	1000	86655	GEM1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277	24MFD 480V	
Pulse Start	M48	1500	86693	GEM1500MLTAC5-5	CWA	4.25x6.00	120/480	32MFD 525V	
	M48	1500	86698	GEM1500MLTAC5-5	CWA	4.25x6.00	120/208/240/277	32MFD 525V	
	M156	20	87490	GEMH20-MLF-120	eHID	3.7x3.6x1.0 Side Lead	120	N/A	N/A
	M130	39	87501	GEMH39-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
Pulse Start	C148	50	87516	GEMH50-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M110	50	87516	GEMH50-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M148	50	87516	GEMH50-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	C143	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
Pulse Start	C143	70	87546	GEMH70-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M139	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M139	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M143	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
Pulse Start	M143	70	87546	GEMH70-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M98	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M98	70	87546	GEMH70-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	C140	100	87561	GEMH100-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
Pulse Start	M140	100	87561	GEMH100-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M90	100	87561	GEMH100-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	C142	150	87576	GEMH150-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M102	150	87576	GEMH150-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
Pulse Start	M142	150	87576	GEMH150-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M137	175	86876	GEP175MLTAC3-5	CWA	3x4	120/480	10MFD 400V	MH350-1A
	M137	175	86885	GEP175MLTAC3-5	CWA	3x4	120/208/240/277	10MFD 400V	MH350-1A
	M152	175	86876	GEP175MLTAC3-5	CWA	3x4	120/480	10MFD 400V	MH350-1A
Pulse Start	M152	175	86885	GEP175MLTAC3-5	CWA	3x4	120/208/240/277	10MFD 400V	MH350-1A
	CMH250	250	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
	CMH250	250	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M138	250	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
Pulse Start	M138	250	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M138	250	86926	GEP250MLTAC4-5	CWA	4.25x4.75	120/480	15MFD 400V	MH350-1A
	M138	250	86935	GEP250MLTAC4-5	CWA	4.25x4.75	120/208/240/277	15MFD 400V	MH350-1A
	M153	250	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
Pulse Start	M153	250	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M153	250	86926	GEP250MLTAC4-5	CWA	4.25x4.75	120/480	15MFD 400V	MH350-1A
	M153	250	86935	GEP250MLTAC4-5	CWA	4.25x4.75	120/208/240/277	15MFD 400V	MH350-1A
	CMH320	320	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
Pulse Start	CMH320	320	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M132	320	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
	M132	320	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M132	320	86952	GEP320MLTAC4-5	CWA	4.25x4.75	120/480	21MFD 345V	MH350-1A
Pulse Start	M132	320	86959	GEP320MLTAC4-5	CWA	4.25x4.75	120/208/240/277	21MFD 345V	MH350-1A
	M132	320	86968	GEP320TRIAC4-5	CWA	4.25x4.75	120/277/347	21MFD 345V	MH350-1A
	M154	320	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
	M154	320	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
Pulse Start	M154	320	86952	GEP320MLTAC4-5	CWA	4.25x4.75	120/480	21MFD 345V	MH350-1A
	M154	320	86959	GEP320MLTAC4-5	CWA	4.25x4.75	120/208/240/277	21MFD 345V	MH350-1A
	M154	320	86968	GEP320TRIAC4-5	CWA	4.25x4.75	120/277/347	21MFD 345V	MH350-1A
	CMH350	350	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
Pulse Start	CMH350	350	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M131	350	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
	M131	350	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M131	350	86984	GEP350277RCE-5	RO-NPF	3.75x4.5	277	22.5MFD 345V	MH350-1A
Pulse Start	M131	350	86984	GEP350MLTAC4-5	CWA	4.25x4.75	120/208/240/277	22.5MFD 345V	MH350-1A
	CMH400	400	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
	CMH400	400	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M135	400	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
Pulse Start	M135	400	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M135	400	86999	GEP400MLTAC4-5	CWA	4.25x4.75	120/480	24MFD 400V	MH350-1A
	M135	400	87008	GEP400MLTAC4-5	CWA	4.25x4.75	120/208/240/277	24MFD 400V	MH350-1A
	M155	400	29377	GE-MH-250-400-MA	eHID	208-277	N/A	N/A	N/A
Pulse Start	M155	400	89646	GEMH250-400MV50	eHID Dim	208-277	N/A	N/A	N/A
	M155	400	87008	GEP400MLTAC4-5	CWA	4.25x4.75	120/208/240/277	24MFD 400V	MH350-1A

Lamp Type	Use with ANSI Lamp Types	Wattage	Order Code	New GE Description	Circuit Type	Frame Size	Voltage	Cap.	Ignitor
High Intensity Discharge (HID) Lamps (continued)									
Pulse Start (cont)	M155	400	86999	GEP400MLTAC4-5	CWA	4.25x4.75	120/480	24MFD 400V	MH350-1A
	M149	750	46936	GEP750MLTAC5-5	CWA	4.25x6.00	120/480	24MFD 400V	MH750-1B
	M149	750	46934	GEP750MLTAC5-5	CWA	4.25x6.00	120/208/240/277	24MFD 400V	MH750-1B
	M141	1000	72282	GEP1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277/480	24MFD 480V	HPS1000-4B
High Pressure Sodium	M141	1000	72281	GEP1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277	24MFD 480V	HPS1000-4B
	S68	50	87152	GESS0MLTLC3D-5	HX-HPF	3x4	120/208/240/277	5MFD 280V	HPS150-3A
	S62	70	86596	12210237CTC0001	HX-HPF	F-Can	120/277	N/A	N/A
	S62	70	86605	1233142U10001	R-HPF, R-NPF	2.81x3.94	120		
Mercury	S62	70	86456	GES70MBTLC3D-5	HX-HPF	3x4	120/480	7MFD 300V	HPS150-3A
	S62	70	86587	GES70MBTLC3D-5	HX-HPF	3x4	120/208/240/277	7MFD 300V	HPS150-3A
	SS4	100	87068	GES100MBTLC3D-5	HX-HPF	3x4	120/480	10MFD 280V	
	SS4	100	87074	GES100MBTLC3D-5	HX-HPF	3x4	120/208/240/277	10MFD 280V	HPS150-3A
Pulse Start	SS5	150	86606	1233154U10001	R-NPF	2.81x3.94	120		
	SS5	150	87087	GES150MBTLC3D-5	HX-HPF	3x4	120/480	14MFD 280V	HPS150-3A
	SS5	150	87094	GES150MBTLC3D-5	HX-HPF	3x4	120/208/240/277	14MFD 280V	HPS150-3A
	SS0	250	87214	GES250MLTAC4-5	CWA	4.25x4.75	120/208/240/277/480	35MFD 240V	HPS400-3A
Pulse Start	SS0	250	87121	GES250MLTAC4-5	CWA	4.25x4.75	120/208/240/277	35MFD 240V	HPS400-3A
	SS1	400	87198	GES400MLTAC4-5	CWA	4.25x4.75	120/480	55MFD 240V	HPS400-3A
	SS1	400	87215	GES400MLTAC4-5	CWA	4.25x4.75	120/208/240/277/480	55MFD 240V	HPS400-3A
	SS1	400	87164	GES400MLTAC4-5	CWA	4.25x4.75	120/208/240/277	55MFD 240V	HPS400-3A
Pulse Start	SS2	1000	87048	GES1000MLTAC5-5	CWA	4.25x6.00	120/480	26MFD 525V	HPS24
	SS2	1000	87218	GES1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277/480	26MFD 525V	HPS1000-4B
	SS2	1000	87056	GES1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277	26MFD 525V	HPS1000-4B
	H39	175	87210	GEM175MLTAC3-5	CWA	3x4	120/208/240/277/480	10MFD 400V	
Pulse Start	H39	175	86741	GEM175MLTAC3-5	CWA	3x4	120/208/240/277	10MFD 400V	
	H37	250	87211	GEM250MLTAC3-5	CWA	3x4	120/208/240/277/480	15MFD 400V	
	H37	250	87212	GEM250MLTAC4-5	CWA	4.25x4.75	120/208/240/277/480	15MFD 400V	
	H37	250	86765	GEM250MLTAC3-5	CWA	3x4	120/208/240/277	15MFD 400V	
Pulse Start	H33	400	86803	GEM400MLTAC4-5	CWA	4.25x4.75	120/480	24MFD 400V	
	H33	400	72300	GEM400MLTAA4-5	CWA	4.25x4.75	120/208/240/277/480	24MFD 400V	
	H33	400	72149	GEM400MLTAA4-5	CWA	4.25x4.75	120/208/240/277	24MFD 400V	
	H36	1000	86650	GEM1000MLTAC5-5	CWA	4.25x6.00	120/480	24MFD 480V	
Pulse Start	H36	1000	87213	GEM1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277/480	24MFD 480V	
	H36	1000	86655	GEM1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277	24MFD 480V	

LED Lamps and Systems



LED Lamps and Systems

GE believes that financial and environmental responsibility can work hand-in-hand. That's why we designed the GE LED Cove Lighting System to help casinos, hotels, restaurants and retail users create a consistently beautiful look while lowering operating costs and reducing the impact on our environment.

- **Improved Energy Usage**
Up to 7 times more efficient than xenon light sources

- **Reduced Maintenance Costs**
Fewer lamps to replace and dispose

- **Reduced Installation Costs**
Installs quickly and accurately

- **Improved Brand Image**
Bright, uniform light that lasts



Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	MO (in)	Rated Life (hrs)	Initial Color Temp	CBCP	Lumens Initial	Additional Information
Cove Lighting Systems												
System	Special	6.5	73098	LC12/727/120V	120	10	12.8	50000				
		6.5	73099	LC12/730/120V	120	10	12.8	50000				
		6.5	73100	LC12/727/240V	240	10	12.8	50000				
		6.5	73101	LC12/730/240V	240	10	12.8	50000				
Brackets	-	-	73105	LC-MT48/0	-	1	48" X 100	-	-	-	-	0° degree track angle
	-	-	73106	LC-MT48/15	-	1	48" X 100	-	-	-	-	15° degree track angle
	-	-	73107	LC-MT48/30	-	1	48" X 100	-	-	-	-	30° degree track angle
Cables	-	-	73108	LC-LC/40	-	1	480.0	-	-	-	-	Connects cove light to power source
	-	-	73109	LC-JC/3	-	1	36.0	-	-	-	-	Connects cove light where needed
Directional Lamps												
MR16	GU10	1.0	73153	LED1GU10/NFL20/CD	120	3	2.2	15000	5500		35	Deco Light
PAR20	MED	7.0	73717	LED7PAR20/SP10	120	6	3.9	20000	3000		200	Accent, 10 degree beam
			73718	LED7PAR20/NFL20	120	6	3.9	20000	3000		200	Accent, 20 degree beam
			73716	LED7PAR20/NFL/CD	120	3	3.9	20000	3000		200	Accent, 20 degree beam

Stage and Studio Lamps

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CSR Metal Halide Lamps

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Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike 8-9

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Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV-Control 8-10

Fluorescent Cinema Lighting

T8 High Output, Clear and covRguard® 8-10

Standard Cinema 8-10

Standard Cinema with covRguard® 8-10

Cinema Biax® 8-10

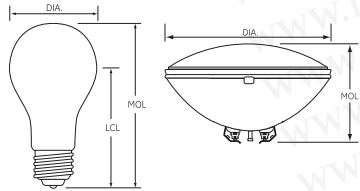
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Cross-Reference to New Product Codes 8-11

Footnotes and Safety Notices 8-12

Stage and Studio Lamps

Bulb Identification

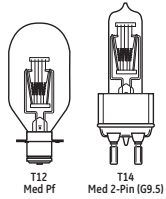


DIA: Diameter of bulb at widest point.
MOL: Maximum Overall Length including base or pins.
LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

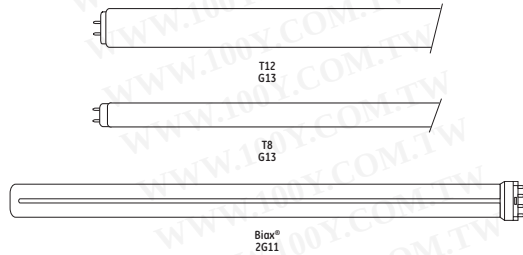
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

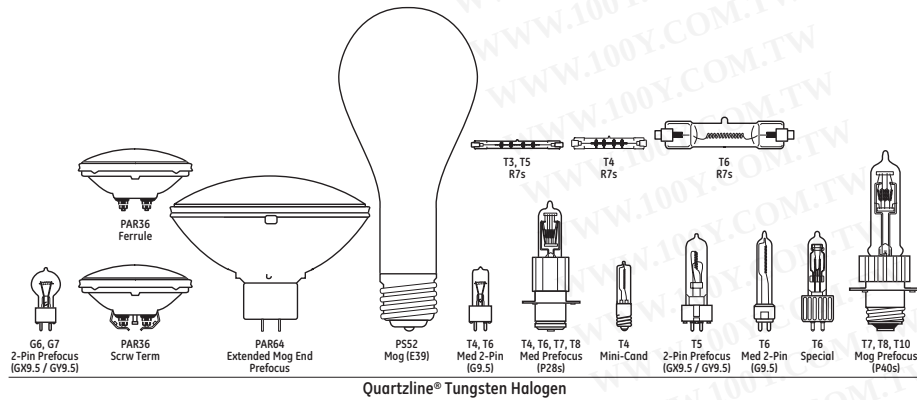
Lamp Locator



Incandescent Lamps

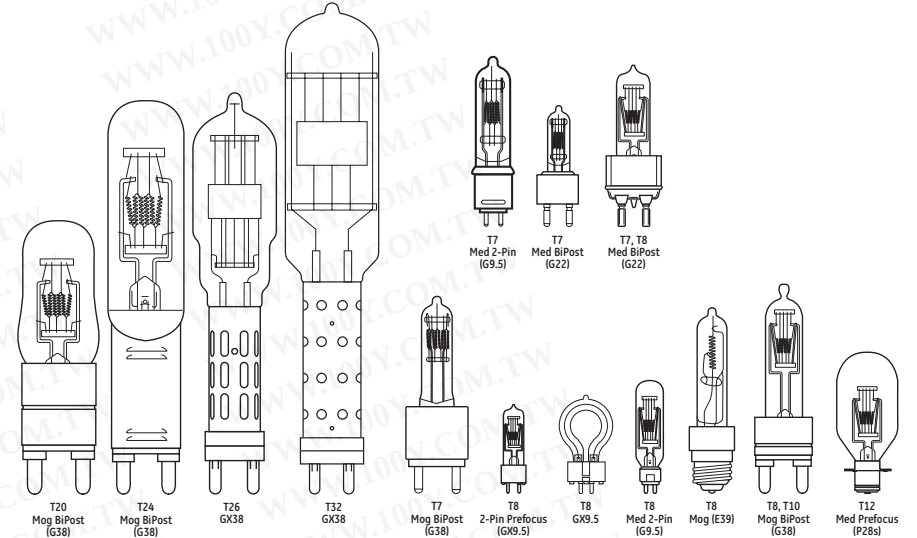


Fluorescent Cinema Lamps

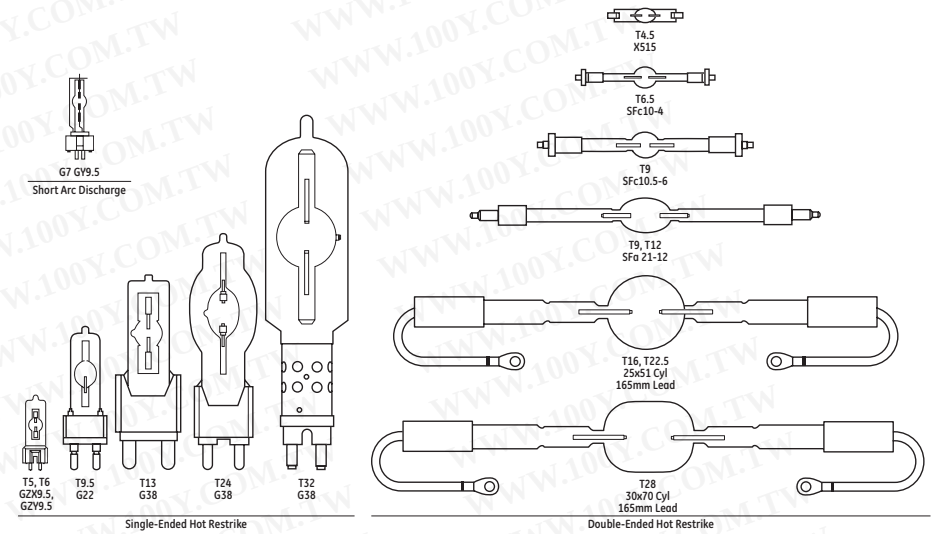


Quartzline® Tungsten Halogen

Lamp Locator (continued)



Quartzline® Tungsten Halogen (continued)

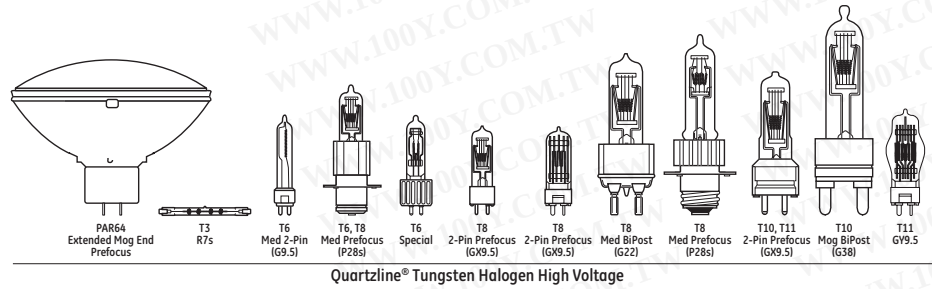


Single-Ended Hot Restrike

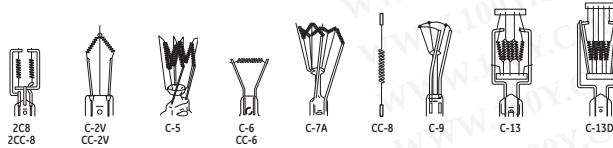
Double-Ended Hot Restrike

Stage and Studio Lamps

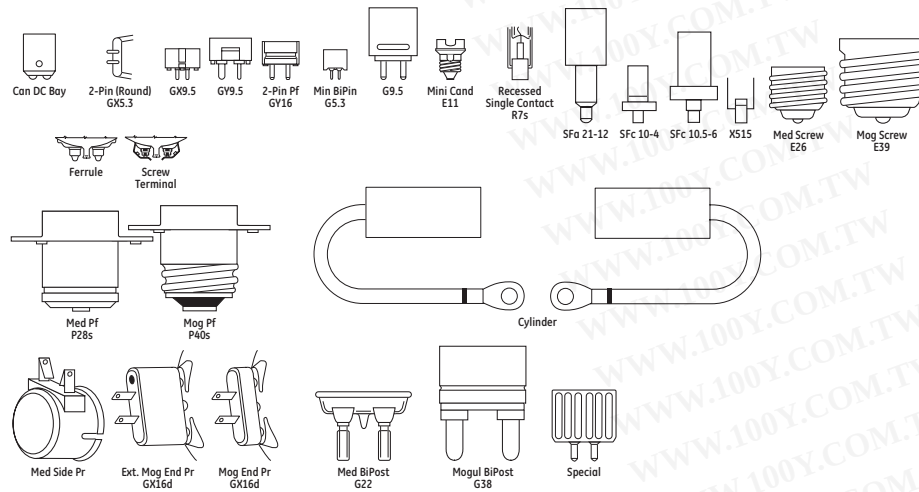
Lamp Locator (continued)



Filament Identification



Base Identification



For the most up-to-date product information, see www.gelighting.com.

Introduction

GE has been a leading supplier to stage and studio users for many decades, and continues its pioneering work in the development of new and innovative light sources.

The primary change in recent years has been the migration from glass to quartz as the standard bulb material. The higher melting point of quartz enables bulb envelopes to be reduced in size and the halogen fillings to be run at higher pressures, leading to smaller, lighter, brighter, more energy-efficient and more reliable lamps.

GE's comprehensive range of single- and double-ended lamps is complemented by a group of PAR lamps, where the light source is enclosed in a sealed reflector unit.

The beam patterns of PAR lamps range from very narrow spot to wide-angle floods. This ensures consistency from lamp to lamp, interchangeability to suit the beam pattern needs of the moment and instant replaceability without the need to refocus and re-aim fixtures.

The sealed beam design prolongs the life of the inner lamp as well as protecting it from dust, vapor and other hazards, thereby ensuring high lumen maintenance over the life of the lamp.

PAR lamps may be used with very simple, lightweight, economical fixtures.

General Information

Operational Characteristics

Quartz halogen lamps are designed to be operated within close voltage tolerances, and excessive voltage can lead to drastically shortened life, albeit with significantly higher light output.

A second important variable is temperature. The tungsten halogen cycle does not operate properly below about 482°F (250°C) and quartz may begin to devitrify above about 1832°F (1000°C). Bulb envelopes should therefore be held in the range 482-1472°F (250-800°C).

The contact pins are plated to ensure good electrical connection with the lampholder. However, at temperatures above 350°C, the plating may lose adhesion, leading to deterioration in contact and possibly local hot spots, arcing and consequent irreparable damage to both lamp and holder. Note that if there is evidence that this has occurred, the lampholder should be replaced before the next lamp is fitted, otherwise it is likely to fail prematurely for the same reason.

Lamps normally fail by fusing of the filament. This is often followed by arcing, leading to very high currents which can cause the envelope and seals to fail and the lamp to shatter. A quick-acting, high-breaking capacity fuse should therefore be connected to the supply line in all applications. Suitable types are given in IEC 127, 241 and 269.

Chromised Seal Protection

Many Quartzline® Stage/Studio lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500°C (vs traditional 350°C), which increases life and reliability.

If the package does not have this seal, lamp base temperatures for Quartzline® lamps should not exceed 350°C because, above that point, lead wires in the sealing area will deteriorate, and base cement can loosen, both causing premature lamp failure. Note overvoltageing a lamp will increase the seal heat.

Lamp Codes

GE Stage & Studio lamps are coded as such:

Lamp Description. This may be either an American National Standards Institute (ANSI) three-letter code such as EJC, or a descriptive code in the general form Q750T3/4CL. ANSI codes are assigned to lamp specifications—mechanical, electrical and photometric characteristics—filed with the Institute.

They ensure interchangeability among similarly coded lamps from different manufacturers. Most of these lamps are rated for 120-volt operation. In a few cases a pair of ANSI codes are given (e.g. BFL/BFK), where the first is the official code for the lamp and the second code describes lamps the specifications of which are met or exceeded. In such cases, the lamps may be used to replace lamps with either code.

Base designations conform to IEC standards.

Product Information

GE CSR/CSD Metal Halide Lamps

New GE range of metal halide lamps for use in a variety of applications including TV and film, stage, concerts, photographic and large-screen presentation and color simulation.

- Excellent color rendering Ra >90
- Daylight color temperature, typically 6000K
- Universal burning position
- High efficiency up to 100 Lm/Watt
- Hot restrike and dimmable with stable color temperature
- Superior color stability
- Excellent lumen maintenance
- Use with electronic or AC magnetic ballast/ignitor control gear
- Applications include inside and outside TV and film production, stage, concerts, sporting events, photographic studios, overhead and large-screen projection and color simulation.

For the most up-to-date product information, see www.gelighting.com.

GE Cinema Fluorescent Lamps

- High CRI (Color Rendering Index)...traditional fluorescent lamps have not been widely used in photography and film making because of relatively low CRI and the prominent green spike found in typical fluorescent phosphors. GE Lighting Cinema 32 and Cinema 55 lamps have corrected these deficiencies with products that now have a CRI of 95 (out of 100 max.) and colors that respond to the spectral sensitivity curves of film and electronic imaging media.
- Optional Shatter Resistance...GE Cinema 32 and 55 offer the option of GE's exclusive covGuard® shatter resistance that helps contain glass fragments if the lamps are broken. Reduce the possibility of glass-related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missing critical deadlines because GE offers shatter resistance. GE's covGuard® process wraps the Cinema lamps in a full 15-ml-thick casing of GE's exclusive Lexan® polycarbonate that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike other shatter-resistant lamps, GE's covGuard® lamps require no assembly.

Stage and Studio Lamps

Watts	Bulb Shape	Base	Volts	Order Code	LIF Code	Description	ANSI Code	Pack Qty	Initial Lumens	Design Color Temp K	Rated Life (hrs)	Filament Type	MOL (in)	Burning Position	Footnotes and Safety Notices
Halogen Single-Ended (continued)															
600	G-7	G5.3	120	30364		DYH	DYH	24	17000	3200	75	CC-6	2.50	ANYCH	62
	T-5	GY9.5		88504		FMR-Q600T5	FMR	24	12600	3050	2000	CC-8	3.35	BDTHCH	62
650	G-7	G29.5	240	32955	A1/264	DVS/DV9P8HC	DVS	24	17000	3200	75	CC-6	2.50	BDTHCH	62
	G-6	G5.3		30304		DVY	DVY	24	20000	3300	25	CC-6	2.50	BDTHCH	62
	GK9.5			34328		EKD-Q650/3CL/2PP	EKD	24	20000	3300	25	CC-6	2.50	BDTHCH	62
	GY9.5			88462	CP89	FRK-Q650T8	FRK	24	16900	3200	200	C-13	3.54	BDTH	62
750	G-7	G29.5	115	26895	A1/233	DVR	DVR	24	16500	3200	50	2CC-8	2.50	Any	62
	T-6	G9.5		88427		GLD-Q750T6/ACL	GLD	24	19000	3200	300	C-13D	4.13	Any	62
	G9.5/Heat Sink			88426		GLE-Q750T6/ACL	GLE	24	17400	3050	1500	C-13D	4.13	Any	62
				88437		HPL750/C 115V		12	22000	3200	300	4-C8	4.17	Any	62.7
				88428		HPL750/LIC		12	16400	3050	2000	4-C8	4.17	Any	62.7
				88626		EHG-Q750CL/TP	EHG	24	15000	3000	2000	CC-8	4.13	Any	62
				88627		EHF-Q750/ACL	EHF	24	20000	3200	300	CC-8	4.13	Any	62
	T-7	G9.5		39680		BWM-Q750T7/ACL/TP	BWM	6	21000	3200	200	C-13D	4.50	BDTH	62.1
	G22			88621		EGR-Q750T7/ACL	EGR	12	21000	3200	200	C-13D	5.00	BDTH	62.1
	P28s			88605	-	BTN-Q750T7/ACL/2P	BTN	12	17600	3050	500	C-13D	4.75	BD30	62.1
	T-6	P28s		88606	-	BTB-Q750T7/ACL/2P	BTB	12	21000	3200	200	C-13D	4.75	BD30	62.1
				88619	-	EGG-Q750CL/P	EGG	12	15750	3000	2000	CC-8	6.00	Any	62
1000	G9.5/Heat Sink		230	88618	-	EGF-Q750/ACL/P	EGF	12	20400	3200	300	CC-8	6.00	Any	62
				88474		HPL750		12	19750	3200	300	6-C8	4.17	Any	62.7
				88625	CP77	FEL-Q1000/ACL	FEL	24	27500	3200	300	CC-8	4.13	Any	62
				39792		BWM-Q1000T7/ACL/TP	BWM	24	28500	3200	250	C-13D	4.50	BDTH	62.1
	T-7	G9.5		88622		EGT-Q1000T7/ACL	EGT	12	28500	3200	250	C-13D	5.00	BDTH	62.1
	G38			88630		CVY-Q1000T7/ACL/RP	CVY	6	28500	3200	200	C-13D	8.00	BDTH	62.1
	PS-52	E39		39982	-	DKZ/DSE-Q1000P52/4	DKZ	12	28000	3200	750	CC-8	13.00	Any	1.62.51
	ED-37	E39		19926		DSE-Q1000	DSE	10	28000	3200	750	CC-8	13.00	Any	1.62
	T-7	P28s		88607	-	BTB-Q1000T7/ACL/2P	BTB	12	28500	3200	250	C-13D	4.75	BD30	62.1
	T-20	P28s		29947	A1/58	DRS	DRS	24	28500	3325	25	C-13D	5.75	BD30	
	T-6	P28s		29968	-	DRB	DRB	24	32000	3350	25	C-13	5.75	BD30	
				88615	-	EGJ-Q1000/4/CL/P	EGJ	12	27500	3200	300	CC-8	6.00	Any	62
1200	T-7	P40s	230	88614	-	EGK-Q1000/4/P	EGK	12	26500	3200	300	CC-8	6.00	Any	62
				88620	-	EGM-Q1000CL/P	EGM	12	21500	3000	2000	CC-8	6.00	Any	62
				88608	-	BVT-Q1000T7/CL/MP	BVT	6	24500	3050	500	C-13D	7.25	BDTH	62.1
				88631	-	BVV-Q1000T7/CL/MP	BVV	6	28500	3200	200	C-13D	7.25	BDTH	62.1
	T-6	G9.5		39738	CP77	FEP-Q1MT6/4CL	FEP	24	25000	3200	300	CC-8	4.13	Any	62
	T-8	G22		88439		OC1200		12	37500	3300	300	C-13D	5.51	BDTH	62
	T-10	G38		88612		CKZ-Q1500T10/4CL	CKZ	6	44500	3200	400	C-13	8.50	BDTH	62.1
	PS-52	E39		40357	-	DKV/DSF-Q1500P52/4	DKV	12	41000	3200	1000	C-8	13.00	Any	1.62.51
	ED-37	E39		19927		DSF-Q1500	DSF	10	41000	3200	1000	C-8	13.00	Any	1.62
	T-8	P40s		88500	-	DTA-Q1500T8/ACL	DTA	6	41000	3200	300	C-13D	7.87	BDTH	62
	T-10	G38		88610		CYX-Q2000T10/4CL	CYX	6	59000	3200	350	C-13	8.50	BDTH	62.1
	T-8	G38		88623		BWA-Q2000/ACL/8P	BWA	6	54000	3200	500	CC-8	8.25	BDTH	62.1.55
2000	T-8	E39	230	88611	-	BWF-Q2000/ACL	BWF	6	54000	3200	500	CC-8	7.50	Any	62
	T-10	P40s		88609	CP53	BWM-Q2000T10/ACL/MP	BWM	6	59000	3200	350	C-13	8.46	BDTH	62
	G-10	G38		31844	CP41	FKK	FKK	12	54000	3200	400	C-13	8.50	BDTH	62
	T-20	G38		41736	CP29	DPV-Q5000T20/ACL	DPV	6	143000	3200	500	C-13	11.00	BD45	62.1
5000	T-24	G38	120	22959		HX5000		6	147000	3200	250	C-8	11.02	Any	62
				71379		HX5000/240		6	133000	3200	250	C-8	10.62	Any	62
				24686	-	DTY-Q10MT24/ACL	DTY	4	290000	3200	300	C-13	15.75	BD45	62.1
				48770		Q12MT26/ACL		1	420000	3400	150	C-13	16.13	BD45	62
10000	T-26	GX38	230	48771		Q12MT26/ACL		1	420000	3400	150	C-13	16.13	BD45	62
				48779		Q12MT26/ACL		1	420000	3400	150	C-13	16.13	BD45	62
				48772		BCM-Q20MT32/ACL	BCM	1	580000	3200	400	C-13	22.05	BD45	62
				48773		BCM-Q20MT32/ACL	BCM	1	580000	3200	400	C-13	22.05	BD45	62
24000	T-32	GX38	240	48774		BCM-Q20MT32/ACL	BCM	1	580000	3200	400	C-13	22.05	BD45	62
				48775		Q24MT32/ACL		1	800000	3400	150	C-13	22.05	BD45	62
				48776		Q24MT32/ACL		1	800000	3400	150	C-13	22.05	BD45	62
				48777		Q24MT32/ACL		1	800000	3400	150	C-13	22.05	BD45	62

Watts	Bulb Shape	Base	Volts	Description	ANSI Code	LIF Code	Order Code	Pack Qty	MBCP	Design Color Temp K	Beam Spread 50%		MOL (in)	Rated Life (hrs)	Footnotes and Safety Notices	
											H	V				
Halogen Sealed Beam																
500	PAR56	Mag End Pr	120	Q500PAR56NSP			43494	6	96000	2950	13	8	5	4000	63	
			120	Q500PAR56MFL			43495	6	43000	2950	26	10	5	4000	63	
			120	Q500PAR56WFL			43496	6	19000	2950	44	20	5	4000	63	
		PAR64	ExMagEndPr	120	500PAR6A/NSP			39406	12	110000	2800	12	7	6	2000	64
				120	500PAR6A/MFL			39409	12	37000	2800	23	11	6	2000	64
				120	500PAR6A/WFL			39412	12	13000	2800	42	20	6	2000	64
	PAR64	MagEndPr	230	Q500PAR6A/VNSP		CP86	25492	6	240000	3200	10	7	6	300	63	
			230	Q500PAR6A/NSP		CP87	25504	6	140000	3200	11	9	6	300	63	
			230	Q500PAR6A/MFL		CP88	25513	6	65000	3200	21	10	6	300	63	
		ExMagEndPr	230	500PAR6A/MFL			39411	12	2700	21	10	6	2000	64		
			230	500PAR6A/WFL			39414	12	2700	42	20	6	2000	64		
			240	Q500PAR6A/VNSP		CP86	25493	6	240000	3200	10	7	6	300	63	
650	PAR36	Ferrule	240	Q500PAR6A/NSP		CP87	25507	6	140000	3200	11	9	6	300	63	
			240	Q500PAR6A/MFL		CP88	25520	6	65000	3200	21	10	6	300	63	
			120	FAY-Q650PAR36/3D	FAY	41668	12	36000	5000	25	15	2.75	30	63		
		Screw Terminals	120	FCW-Q650PAR36/6	FCW	41672	12	9000	3200	60	55	2.75	100	63		
			120	FCX-Q650PAR36/7	FCX	41673	12	24000	3200	40	30	2.75	100	63		
			120	DWE-Q650PAR36/1	DWE	41667	12	24000	3200	40	30	2.75	100	63		
1000	PAR64	ExMagEndPr	120	FBE-Q650PAR64/5D	FBE	41669	12	36000	5000	25	15	2.75	30	63		
			120	FBO-Q650PAR64/5	FBO	41671	12	67000	3400	25	15	2.75	30	63		
			120	FFN-Q1000PAR64/1	FFN	13233	6	400000	3200	12	6	6	800	63		
		Screw Terminals	120	FFP-Q1000PAR64/2	FFP	13229	6	330000	3200	14	7	6	800	63		
			120	FFR-Q1000PAR64/5	FFR	13228	6	125000	3200	28	12	6	800	63		
			120	FFS-Q1000PAR64/6	FFS	13227	6	40000	3200	48	24	6	800	63		
	PAR64	ExMagEndPr	120	FGM-Q1000PAR64/3	FGM	13226	6	200000	5200	13	6	6	200	63		
			120	FGN-Q1000PAR64/7D	FGN	13225	6	70000	5200	27	11	6	200	63		
			120	Q1000PAR64NSP		43497	6	200000	3000	15	8	6	4000	63		
		Screw Terminals	120	Q1000PAR64MFL		43498	6	80000	3000	28	12	6	4000	63		
			120	Q1000PAR64/WFL		43499	6	33000	3000	48	24	6	4000	63		
			240	EXC-Q1MPAR64CP60	EXC	CP60	88551	6	352000	3200	12	9	6	300	63	
1200	PAR64	ExMagEndPr	240	EXD-Q1MPAR64CP61	EXD	CP61	88550	6	297000	3200	14	10	6	300	63	
			240	EXE-Q1MPAR64CP62	EXE	CP62	88536	6	138000	3200	24	11	6	300	63	
			120	GFB-Q1200PAR64/2	GFB	88486	6	450000	3200	8	10	6	400	63		
			120	GFC-Q1200PAR64/1	GFC	88487	6	540000	3200	8	10	6	400	63		

Stage and Studio Lamps

Watts	Bulb Shape	Base	Volts	Description	Order Code	Pack Qty	Volts	Initial Lumens	Design Color Temp K	CRI	CIE x	Color y	Arc Length (mm)	Rated Life (hrs)	LCL (in)	MOL (in)	Burning Position	Footnotes and Safety Notices
CSR Metal Halide Lamps (continued)																		
Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike																		
200	T4.5	SFC 10-4 SI/M4	X515	80	CSR200/DE	48450	10	80	16000	6000	90+	0.323	0.325	8	300	2.95	H15	14.63
400	T6.5			49	CSR400/DE/70	22478	10	49	26000	7000	85+	0.305	0.323	3	750	5.43	Any	14.63
				49	CSR400/5/DE/90	45232	10	49	26000	9000	85+	0.305	0.323	3	750	5.43	Any	14.63
575	T6.5			95	CSR575/5/DE/70	70979	10	95	40000	7000	75+	0.307	0.309	7	750	5.43	Any	14.63
				100	CSR575/5/DE/75	45231	10	100	44000	7500	70+	0.297	0.312	5	500	3.62	Any	14.63
700	T6.5			70	CSR700/5/DE/60	22493	10	70	59000	6000	75+	0.322	0.332	4	750	5.43	Any	14.63
				70	CSR700/5/DE/75	41357	10	70	59000	7500	75+	0.322	0.332	4	750	5.43	Any	14.63
1200	T6.5			100	CSR1200/5/DE/60	22494	10	100	110000	6000	90+	0.323	0.325	7	500	5.43	Any	14.63
				100	CSR1200/5/DE/72	41361	10	100	110000	7200	75+	0.323	0.328	7	500	5.43	Any	14.63
	T8.5		SFC 15.5-6 SI/M6	100	CSR1200/DE	48453	6	100	110000	6000	85+	0.323	0.325	10	750	8.66	H15	14.63
1500	T6.5	SFC 10-4 SI/M4			CSR1500/5/DE/60	96800	10	115	135000	6000	85+	0.326	0.334	7	750	5.43	Any	14.63
2500	T9.5		Sfo21-12	115	CSR2500/DE	48454	6	115	240000	6000	90+	0.323	0.325	14	500	13.98	Any	14.63
4000	T12			200	CSR4000/DE	48455	6	200	400000	6000	90+	0.323	0.325	34	500	15.94	H15	14.63
6000	T16	25X51 Cyl 165mm		125	CSR6000/DE	48456	6	125	570000	6000	90+	0.323	0.325	22	300	17.71	H15	14.63
12000	T22.5	30x70 Cyl 165mm		160	CSR12000/DE	48457	4	160	1100000	6000	90+	0.323	0.325	32	300		H15	14.63
18000	T28	30x70 Cyl 165mm		225	CSR18000/DE	48459	4	225	1650000	6000	90+	0.323	0.325	45	300		H15	14.63
				225	CSR18000/5/DE	48460	4	225	1650000	6000	90+	0.323	0.325	45	300		H15	14.63
Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV Control																		
575	T9.5	G22	95	CSR575/SE/HV/UV	40460	10	95	49000	5600	80+	0.330	0.325	7	750		5.71	Any	14.63
800	T9.5	G22	95	CSR800/5/SE/HV/UV	22495	10	95	64000	5600	90+	0.325	0.327	7	1000		5.71	Any	14.63
1200	T13	G38	100	CSR1200/5/SE/HV/UV	27764	6	100	110000	5600	90+	0.333	0.333	10	750		7.87	Any	14.63
2500	T19.5	G38	115	CSR2500/5/SE/HV/UV	40482	6	115	220000	5600	90+	0.330	0.325	14	500		9.45	Any	14.63
4000	T24	G38	200	CSR4000/5/SE/HV/UV	27765	6	200	380000	5600	90+	0.330	0.325	24	500		10.24	Any	14.63
6000	T26.5	G38	130	CSR6000/5/SE/HV/UV	40492	6	130	540000	5600	90+	0.333	0.333	26	300		14.17	Any	14.63

Watts	Bulb Shape	Base	Footnotes and Safety Notices	Order Code	Description	Case Qty	Lumens Initial	Design Color Temp K	MOL (in)	Rated Life (hrs)	CRI	Burning Position	
Fluorescent Cinema Lighting													
T8 High Output, Clear and covGuard®													
55	T8	G-13 Med BiPin		171	81205	F48T8/CINEMA32	24	2750	3200	48.00	2000	95	Any
				171	81206	F48T8/CINEMA55	24	2750	5500	48.00	2000	97	Any
				171	81207	F48T8/CINEMA32/CVG	24	2750	3200	48.00	2000	95	Any
				171	81208	F48T8/CINEMA55/CVG	24	2750	5500	48.00	2000	97	Any
Standard Cinema													
35	T12	G-13 Med BiPin		171	15712	F20T12/CINEMA32/HO	24	1130	3200	24.00	2000	95	Any
				171	15713	F20T12/CINEMA55/HO	24	1100	5500	24.00	2000	96	Any
60	T12	G-13 Med BiPin		171	15716	F40T12/CINEMA32/HO	30	2900	3200	48.00	2000	95	Any
				171	15717	F40T12/CINEMA55/HO	30	2820	5500	48.00	2000	96	Any
85	T12	G-13 Med BiPin		171	15718	F72T12/CINEMA32/HO	15	4150	3200	72.00	2000	95	Any
				171	15719	F72T12/CINEMA55/HO	15	4050	5500	72.00	2000	96	Any
110	T12	G-13 Med BiPin		171	15720	F96T12/CINEMA32/HO	15	5800	3200	96.00	2000	95	Any
				171	15721	F96T12/CINEMA55/HO	15	5650	5500	96.00	2000	96	Any
Standard Cinema with covGuard®													
35	T12	G-13 Med BiPin		171	15775	F20T12/CINEMA32/HO/CVG	24	1130	3200	24.00	2000	95	Any
				171	15776	F20T12/CINEMA55/HO/CVG	24	1100	5500	24.00	2000	96	Any
60	T12	G-13 Med BiPin		171	15782	F40T12/CINEMA32/HO/CVG	30	2900	3200	48.00	2000	95	Any
				171	15783	F40T12/CINEMA55/HO/CVG	30	2820	5500	48.00	2000	96	Any
85	T12	G-13 Med BiPin		171	15785	F72T12/CINEMA32/HO/CVG	15	4150	3200	72.00	2000	95	Any
				171	15786	F72T12/CINEMA55/HO/CVG	15	4050	5500	72.00	2000	96	Any
110	T12	G-13 Med BiPin		171	15794	F96T12/CINEMA32/HO/CVG	15	5800	3200	96.00	2000	95	Any
				171	15798	F96T12/CINEMA55/HO/CVG	15	5650	5500	96.00	2000	96	Any
Cinema Biox®													
55	T5	2G11-4 PIN		171	41869	F55BX/STUDIOBIAX32	10	4100	3200	21.10	8000	86	Any
				171	41873	F55BX/STUDIOBIAV56	10	4100	5600	21.10	8000	86	Any
				171	41903	F55BX/CINPLUS/32	10	2400	3200	21.10	2000	86	Any
				171	41911	F55BX/CINPLUS/56	10	2400	5600	21.10	2000	86	Any

For the most up-to-date product information, see www.gelighting.com. To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts. All footnotes and safety notices found at the end of this section (page 8-12).

ANSI Codes

ANSI Code	Order Code	Volts	Lamp Description	ANSI Code	Order Code	Volts	Lamp Description	ANSI Code	Order Code	Volts	Lamp Description
BCM	48772	208	BCM-Q20MT32/ACL	DYR	26895	240	DYR	FCL	23731	120	Q500T3/CL
BCM	48773	230	BCM-Q20MT32/ACL	DYS	32955	120	DYS/DV/BHC	FCM	13895	120	FCM/HR-Q650T3/4
BCM	48774	240	BCM-Q20MT32/ACL	DZA	37346	10.8	DZA	FCM	23797	120	FCM-Q1000T3/ACL
BRH	29604	120	BRH	EGC	39134	120	EGC-Q500/5CL/P	FCW	41672	120	FCW-Q650PAR36/6
BTL	11966	120	BTL-Q500T6/CL/P	EGE	39135	120	EGE-Q500CL/P	FCX	41673	120	FCX-Q650PAR36/7
BTM	16465	120	BTM-Q500T6/ACL/2P	EGF	39136	120	EGF-Q750/ACL/P	FDB	23841	120	FDB-Q1500T4/ACL
BTN	11953	120	BTN-Q750T7/CL/2P	EGG	39137	120	EGG-Q750CL/P	FDX	23735	120	FDX-Q500T3/ACL
BTP	11954	120	BTP-Q750T7/ACL/2P	EGJ	38853	120	EGJ-Q1000N/ACL/P	FDN	23734	120	FDN-Q500T3/4
BTR	11955	120	BTR-Q1000T7/ACL/2P	EGK	38852	120	EGK-Q1000N/P	FEL	39769	120	FEL-Q1000/ACL
BVT	12554	120	BVT-Q1000T7/CL/MP	EGM	39138	120	EGM-Q1000CL/P	FEP	39738	230	FEP-Q1MT6/ACL
BVV	12553	120	BVV-Q1000T7/ACL/MP	EGN	30373	120	EGN-Q500T8	FER	33760	120	FER-Q1000T6/ACL
BVV	12555	120	BVV-Q200T10/ACL/MP	EGR	39190	120	EGR-Q750T7/ACL	FEV	14119	120	FEV-Q200/ACL/DOC
BWA	39587	120	BWA-Q2000N/ACL/8P	EGT	39191	120	EGT-Q1000T7/ACL	FEY	39790	120	FEY-Q2000T8/ACL
BWF	37086	120	BWF-Q2000N/ACL	EHK	39789	120	EHK-Q500/5CL	FFM	30276	120	FFM
BWM	39680	120	BWM-Q750T7/ACL/TP	EHD	39768	120	EHD-Q500CL/TP	FFN	13233	120	FFN-Q1000PAR64/1
BWN	39792	120	BWN-Q1000T7/ACL/TP	EHF	39771	120	EHF-Q750/ACL	FFP	13229	120	FFP-Q1000PAR64/2
CKZ	37564	120	CKZ-Q1500T10/ACL	EHG	39770	120	EHG-Q750CL/TP	FFR	13228	120	FFR-Q1000PAR64/3
CVV	42697	120	CVV-Q1000T7/ACL/8P	EHM	43703	120	Q300T3/CL	FFS	13227	120	FFS-Q1000PAR64/6
CYX	36636	120	CYX-Q200T10/ACL	EHY	43705	120	Q300T4/CL	FFT	13280	120	FFT-Q1000T3/CL
DKX	40357	120	DKX/DSF-Q1500P552/4	ENJ	43704	120	Q300T3	FGH	13226	120	FGH-Q1000PAR64/3
DKZ	39582	120	DKZ/DSF-Q1000P552/4	EJZ	23788	185	EJZ-Q1000T3/3CL(185V)	FGN	13225	120	FGN-Q1000PAR64/7D
DPY	41736	120	DPY-Q5000T20/ACL	EJG	23756	120	EJG-Q750T3/ACL	FGT	41229	120	FGT-Q1500T4/4
DRB	29968	120	DRB	ENB	33934	120	ENB-Q420N/ACL/2PP	FHM	23792	120	FHM-Q1000T3/4
DRS	29947	120	DRS	EKD	34328	120	END-Q650/3CL/2PP	FKK	31844	230	FKK
DSE	19926	120	DSE/Q1000	EMD	23755	120	EMD-Q750T3/4	FKW	39781	120	FKW-Q300T8
DSF	19927	120	DSF/Q1500	ENC	10925	240	ENC-Q1MPAR64CP60	FLK	11450	115	FLK-Q575T6
DTA	30522	120	DTA-Q1500T8/ACL	END	10929	240	END-Q1MPAR64CP61	FMR	30475	120	FMR-Q600T5
DTY	24886	120	DTY-Q10MT72/4/ACL	EXE	10931	240	EXE-Q1MPAR64CP62	FRG	39623	120	FRG-Q500T8
DVS	23733	120	Q500T3/CL	EYH	13617	120	EYH/FKT	FRK	39637	120	FRK-Q605T8
DVY	30304	120	DVY	FAD	30325	120	FAD-Q650T4/ACL	FVL	19679	120	FVL
DWE	41667	120	DWE-Q650PAR36/1	FAY	41668	120	FAY-Q650PAR36/3D	FVM	19678	120	FVM
DWT	23800	120	DWT-Q1000T6/CL	FBE	41669	120	FBE-Q650PAR36/5D	GFB	34810	120	GFB-Q1200PAR64/2
DWZ	29578	30	DWZ30V1	FBG	33663	120	FBG/F8D	GFC	34808	120	GFC-Q1200PAR64/1
DWV	30157	120	DWV-Q1000T5/ACL	FBO	41671	120	FBO-Q650PAR36/5	GLA	93428	115	GLA-Q575T6/ACL
DIX	36952	230	DIX	FBX	30343	120	FRX-Q650T4/4	GLC	93429	115	GLC-Q575T6/5CL
DOX	36953	240	DIX	FBY	30374	120	FRY-Q1000T5/4	GLD	92771	115	GLD-Q750T6/ACL
DYH	30364	120	DYH	FCB	29598	120	FCB	GLE	92773	115	GLE-Q750T6/ACL

Stage and Studio Lamps

Footnotes and Safety Notices

- 1 Filament with low noise construction.
- 2 New Product Code. See cross reference for previous code.
- 4 Ceramic part of lamp base is slightly larger than similar lamps, thus may not fit in some spring type lamp holders.
- 7 Pinned base to secure correct application.
- 14 Enclosed fixture only, per UL Standard 1572. In accordance to Federal Regulations (21CFR1040.30) the following notice applies:
WARNING: This lamp can cause serious skin burn and eye inflammation if the outer envelope is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.
- 15 Apparent lighted length slightly longer than similar clear lamp.
- 27 Has blackening collector grid on only one side of filament. Unless burned base down, install lamp so grid is above filament.
- 31 GE lamp is 240 volt; 250 volt lamp specified for Colortran.
- 51 Silica coated.
- 52 Rough service. 6 filament supports.
- 55 Burn BDTH, but avoid horizontal burning with support spine beneath filament to prevent premature arcing.

62 Safety Notice for exposed unshielded lamps (if shielded fixture use footnote 63)

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

⚠ Caution

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

Lamp emits UV radiation which may cause eye/skin irritation. RG-2.

- Limit unshielded exposure to less than 15 minutes per day

63 Safety Notice for PAR lamps and enclosed, shielded lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass is broken. Remove and dispose of lamp
- #### **Pressurized lamp—unexpected rupture may cause injury, fire, or property damage**

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

⚠ Caution

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

64 High Wattage Incandescent Par Lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation, or removal

Risk of fire

- Keep combustible materials away from lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product

171 Linear Fluorescent

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation, or removal

⚠ Caution

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Dispose of lamp in closed container

Burning Position Key

H4 operate horizontally +−4 degrees

H15 operate horizontally +−15 degrees

BDTH operate base down to horizontal

BDTHCH operate base down to horizontal with filament coil axis horizontal

ANYCH base in any position, but with filament coil axis horizontal

BD30 base down +−30 degrees

BD45 base down +−45 degrees

Miniature and Sealed Beam Lamps

Lamp Locator 9-2

Miniature Bases 9-3

Sealed Beam Lamps 9-3

Sealed Beam Bases 9-3

Introduction 9-4

Section Headers 9-5

Lamps

Miniature Lamps 9-5

Sealed Beam Lamps 9-13

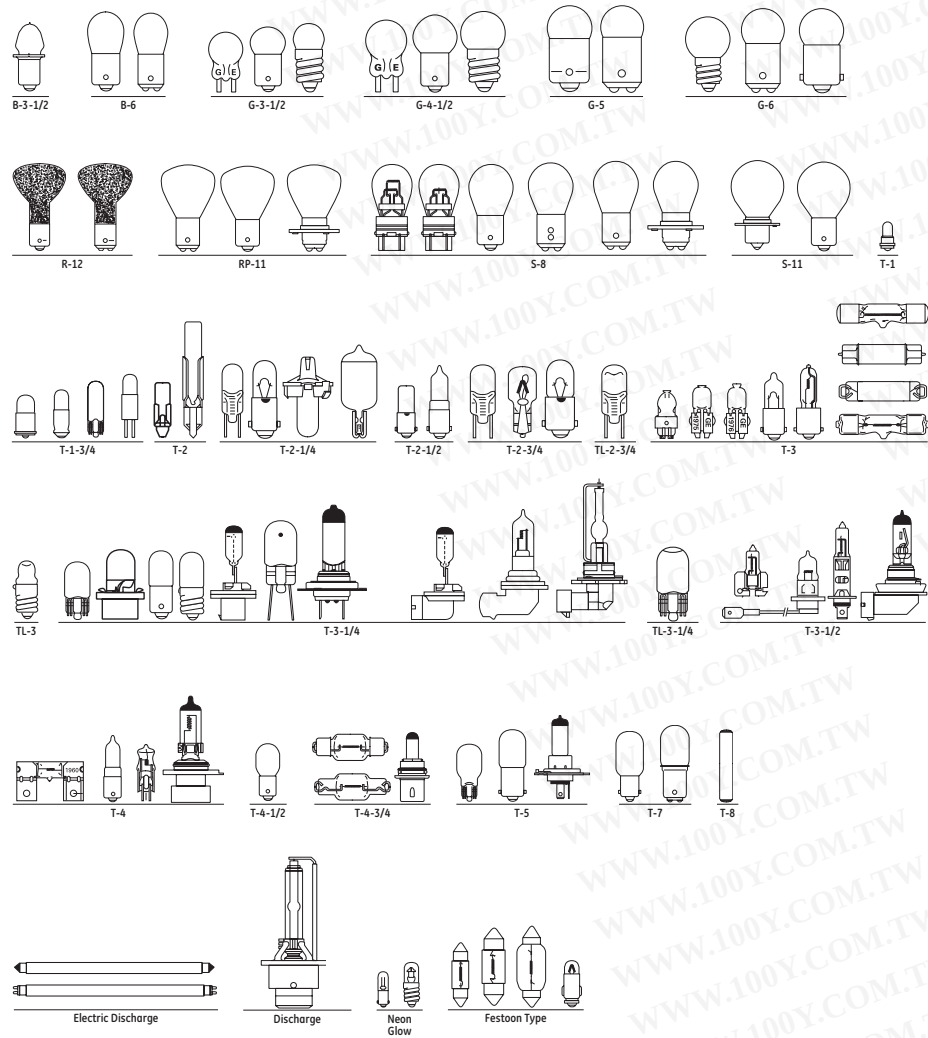
Footnotes 9-16

Warning and Caution Notices 9-17

Miniature and Sealed Beam Lamps

Lamp Locator

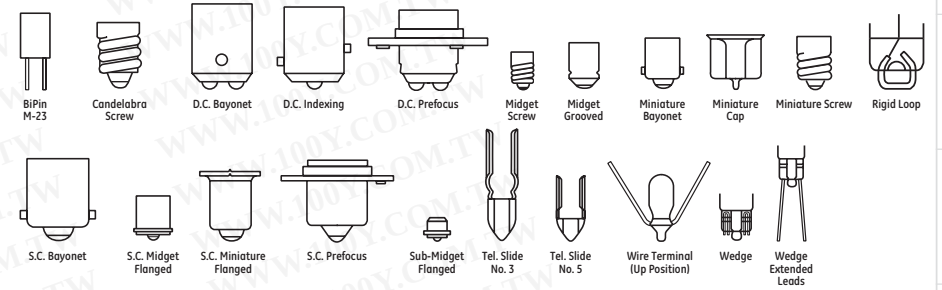
The lamps listed here are not to scale. To determine the diameter of a bulb in inches, multiply the bulb number by one-eighth. For example T-2 means approximately 2/8" or 1/4" diameter.



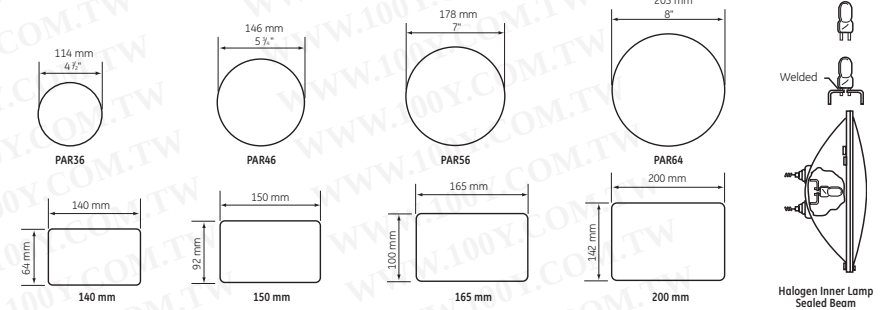
Miniature Bases

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types when vibration is present.

In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.

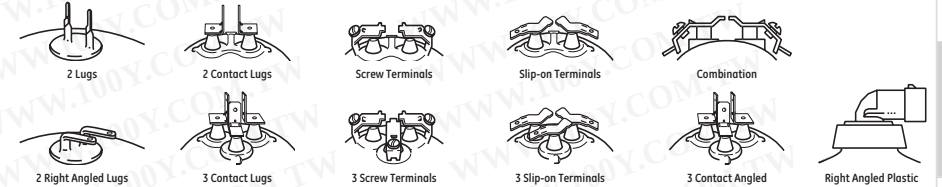


Sealed Beam Lamps



Sealed Beam Bases

Bases provide electrical contact to the lamp. The most common bases for sealed beam lamps are the screw terminal and contact lug types. Other types are also available, as illustrated.



Miniature and Sealed Beam Lamps

Miniature Lamps (continued)

Order Code		Case Qty			GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSPC	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit												
12319	44859	27470	48	50	4000	194NA	Auto Sidemarker	14.0	27A	1.5	T3 1/4	Wedge (W2 1x3 5d)	C-2F	1.06	2500	
47794			48			194NA LL	Auto Amber, Long Life	14.0	27A	1.5	T3 1/4	Wedge (W2 1x3 5d)	C-2F	1.06	5000	
71894			48			194NA LL HH	Auto, Amber, Night-bow™	14.0	27A	1.5	T3 1/4	Wedge (W2 1x3 5d)	C-2F	1.06		
12355			48			194R	Auto, Red	14.0	27A	2.0	T3 1/4	Wedge (W2 1x3 5d)	C-2F	1.06	2500	132
25832			48			194LL	Auto, Long Life	14.0	27A	2.0	T3 1/4	Wedge (W2 1x3 5d)	C-2F	0.56	1.06	12000
00760	37983	37984	48	50	500	199	Truck Stop, Signal	12.8/14.0	2.25/5.9A	32.0/3.0	S8	Double Contact Bayonet (BA15d)	C-6/C-6	1.25	2.00	12001/500
	37985	37986		50	500	199	Truck Stop	12.8	2.25A	32.0	S8	Single Contact Bayonet (BA15d)	C-6	1.25	2.00	1200
	25988			50		210	Instrument	6.5	1.78A	15.0	B6	Double Contact Bayonet (BA15d)	C-6	1.06	1.75	100
12673	39224	11803	48	50	2520	211-2	Auto	12.8	97A	12.0	T3	Miniature Cap	C-8	1.72	1000	
71900			48			211-2 NH	Auto, Nighthawk™	12.8	97A	12.0	T3	Miniature Cap	C-8	1.72		
23220			48			212-2	Auto	13.5	74A	6.0	T3	Miniature Cap	C-8	1.72	2000	4
	39356			50		212-2	Auto	13.5	52A	4.0	T3	Miniature Cap	C-8	1.72	1000	4
44719			50			265	Indicator	28.0	08A	0.8	G3 1/2	Miniature Bayonet (Ba9s)	C-2F	0.50	0.94	5000
81642			50			301	Aircraft	28.0	17A	3.0	G-5	Single Contact Bayonet (BA15s)	C-2F	0.69	1.25	500
81641			50			303	Aircraft	28.0	30A	6.0	G-6	Single Contact Bayonet (BA15s)	C-2F	0.75	1.44	500
81643			50			304	Aircraft	28.0	30A	6.0	G-6	Double Contact Bayonet (BA15d)	C-2F	0.75	1.44	500
26143			50			305	Aircraft	28.0	51A	15.0	S8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	300
26145			50			305AF	Aircraft, Frosted	28.0	51A		S8	Single Contact Bayonet (BA15s)	C-2V		2.00	300
26152			50			306	Aircraft	28.0	51A	15.0	S8	Double Contact Bayonet (BA15d)	C-2V	1.12	2.00	300
81644			50			307	Aircraft	28.0	67A	21.0	S-8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	300
26161			50			307AF	Aircraft, Frosted	28.0	67A	21.0	S8	Single Contact Bayonet (BA15s)	C-2V		2.00	300
81645			50			308	Aircraft	28.0	67A	21.0	S8	Double Contact Bayonet (BA15d)	C-2V	1.12	2.00	300
81646			50			308AF	Aircraft, Frosted	28.0	67A		S8	Double Contact Bayonet (BA15d)	C-2V		2.00	300
26175			10			309	Aircraft, Frosted	28.0	90A	32.0	S11	Single Contact Bayonet (BA15s)	C-2V	1.25	2.38	300
81647			10			311	Aircraft	28.0	129A	50.0	S11	Single Contact Bayonet (BA15s)	C-2V	1.25	2.38	300
81649	81650		50	4000		313	Aircraft	28.0	17A	3.5	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	500
			50			315	Aircraft	28.0	90A	32.0	S8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	300
81652			50			316	Aircraft	6.0	70A	3A	T3 1/4	Miniature Bayonet (Ba9s)	C-2R	0.62	1.19	500
80862			10			317	Aircraft	28.0	350W	2.6	T3	2-Pin IGL	C-2R	0.78	1.16	1000
28519			50			327	Aircraft	28.0	04A	0.3	T1 3/4	Single Contact Midgl Flanged	C-2F	0.38	0.63	4000
28546			50			328	Aircraft	6.0	20A	0.3	T1 3/4	Single Contact Midgl Flanged	C-2R	0.38	0.63	1000
28567			50			330	Aircraft	14.0	08A	0.5	T1 3/4	Single Contact Midgl Flanged	C-2F	0.38	0.63	1500
28588			50			334	Aircraft	28.0	04A	0.3	T1 3/4	Midgl Grooved	C-2F	0.38	0.63	4000
26255			50			356	Aircraft	28.0	17A	3.5	G3 1/2	Miniature Bayonet (Ba9s)	C-2F	0.50	0.94	500
	87381			1000		380	Aircraft	6.3	04A	0.0	T1 3/4	Single Contact Midgl Flanged	C-2V	0.64	50000	79
28653			50			381	Indicator	6.3	20A	0.4	T1 3/4	Single Contact Midgl Flanged	C-2F	0.38	0.63	20000
28657			50			382	Indicator	14.0	08A	0.3	T1 3/4	Single Contact Midgl Flanged	C-2F	0.38	0.63	40000
28660			50			385	Indicator	28.0	04A	0.2	T1 3/4	Single Contact Midgl Flanged	C-2F	0.44	0.81	10000
28662			50			386	Indicator	14.0	08A	0.3	T1 3/4	Midgl Grooved	C-2F	0.38	0.63	40000
28664	25090		50	1000		387	Indicator	28.0	04A	0.3	T1 3/4	Single Contact Midgl Flanged	C-2F	0.38	0.63	7000
28672			50			388	Indicator	28.0	04A	0.3	T1 3/4	Midgl Grooved	C-2F	0.38	0.63	7000
	87398			1000		394	Aircraft	12.0	04A	0.1	T1 3/4	Single Contact Midgl Flanged	C-2F	0.64	10000	79
38918			50			400	Aircraft	28.0	10A	1.6	T3 1/4	Wedge (W2 1x3 5d)	C-2F	0.56	1.06	1000
26441			50			456	Instrument	28.0	17A	2.0	G4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.56	1.07	5000
39645			50			464	Aircraft	28.0	17A	3.0	T3 1/4	Wedge (W2 1x3 5d)	C-2F	0.56	1.06	1500
12358	39746	11820	48	50	2520	561	Auto	12.8	97A	12.0	T3	Rigid Loop	C-8	1.72	1000	
23019			48			562	Auto	13.5	74A	6.0	T3	Rigid Loop	C-8	1.72	2000	4
	11825			1000		563	Auto	13.5	52A	4.0	T3	Rigid Loop	C-8	1.72	1000	4
18442			50			590	Strip Lighting	13.5	37A	4.0	T3 1/4	Wedge (W2 1x3 5d)	C-2V	0.50	1.06	2000
81653	81654		50	1000		623	Instrument	28.0	37A	6.0	G-6	Single Contact Bayonet (BA15s)	2C-2V	0.75	1.44	1000
23023	26570		48	50		631	Auto	14.0	63A	6.0	G6	Single Contact Bayonet (BA15s)	2C-2R	0.75	1.44	1000
	81670	81671		50	4000	658	Indicator	14.0	08A	0.3	T3 1/4	Wedge (W2 1x3 5d)	C-2F	0.56	1.06	15000
	87407			1000		680	Aircraft	5.0	06A	0.03	T1	Wire Terminals	C-2R	0.24	100000	79
	87356			1000		683	Aircraft	5.0	06A	0.05	T1	Wire Terminals	C-2R	0.24	100000	79
	87321			1000		683A515	Aircraft	5.0	06A	0.05	T1	Wire Terminals	C-2R	0.24	100000	79
	28706			1000		685	Aircraft	5.0	06A	0.1	T1 1/4	Sub-Midgl Flanged	C-2R	0.19	0.38	40000
	43132			50		705	Aircraft	28.0	51A	15.0	S8	Single Contact Bayonet (BA15s)	CC-6	1.12	2.00	900
	87411			1000		713	Aircraft	5.0	75A	0.09	T1	Wire Terminals	C-2R	0.24	90000	79
	29903			1000		715	Aircraft	5.0	115A	0.15	T1	Wire Terminals	C-2R	0.25	40000	79
	29901			1000		715A515	Aircraft	5.0	115A	0.15	T1	Wire Terminals	C-2R	0.25	40000	79
	29916			1000		718	Aircraft	5.0	115A	0.15	T1	Sub-Midgl Flanged	C-2R	0.36	40000	79
	29905			1000		718A515	Aircraft	5.0	115A	0.15	T1	Sub-Midgl Flanged	C-2R	0.36	40000	79
26591			50			755	Indicator	6.3	15A	0.3	T3 1/4	Miniature Bayonet (Ba9s)	C-2R	0.78	1.19	20000

For the most up-to-date product information, see www.gelighting.com.
All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature Lamps (continued)

Order Code		Case Qty			GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSPC	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices	
Blister	Unit	Bulk	BP	Unit													Bulk
	26593			50		756	Indicator	14.0	08A	0.3	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	15000	79
	81655			50		757	Indicator	28.0	08A	0.6	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	15000	79
	11014			20		767	Instrument	6.0	2.00A	19.0	T2 1/4	Miniature Bayonet (Ba9s)	C-6	0.56	1.13	50	306
	11250			10		773	Instrument	12.0	67A	10.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	1000	124,306
	12723	12724		10	500	774	Emergency Lighting	12.0	67A	13.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	49718			10		778	Instrument	6.0	3.33A	32.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	100	124,306
	18344			10		780	Strip Lighting	12.0	10.00W	12.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	2000	124,306
	44840	44841		10	500	782	Instrument	12.0	1.66A	25.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	2000	124,306
	44500	44501		10	500	783	Emergency Lighting	12.0	1.00A	22.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	43760	43761		10	500	784	Emergency Lighting	6.0	1.00A	9.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	43762	43763		10	500	785	Emergency Lighting	6.0	1.33A	13.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	43764	43765		10	500	786	Emergency Lighting	6.0	2.00A	19.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	43115	43116		10	500	787	Instrument	6.0	1.67A	16.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	100	124,306
	43117	43118		10	500	788	Instrument	6.0	3.33A	32.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	100	124,306
	43119			10		789	Instrument	12.0	1.17A	22.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	200	124,306
	43121			10		790	Instrument	14.0	1.79A	42.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	200	124,306
	43123	43124		10	500	791	Instrument	14.0	2.50A	61.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	200	124,306
	20469			10		795	Signal	12.8	50.00W	108.0	T6	Single Contact Bayonet (BA15s)	C-6	1.25	2.50	200	4,306
	40848	14132		10	540	862	Tractor	12.8	2.93A	60.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	1900	306
12320		20903	48		540	880	Auto Fog	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	300	17,160,306
		27582			540	880 LL	Auto Fog, Long Life	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	1000	17,160,306
25101			12			880 NH	Auto Fog, Nighthawk™	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68		17,160,306
25163		24				880 NH	Auto Fog, Nighthawk™	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68		17,160,306
12334		20905	48		540	881	Auto Fog	12.8	2.10A	43.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	300	17,160,306
		27583			540	881 LL	Auto Fog, Long Life	12.8	2.10A	43.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	1000	17,160,306
13158		13161		10	1000	882	Auto Instrument	12.8	35A	3.8	T2 1/4	Printed Circuit Socket	C-6	0.37	1.18	2000	306
18167						882X	Auto Instrument	12.8	35A	3.8	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	2000	124,306
12335		20907	48		540	885	Auto Fog	12.8	3.90A	100.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	200	4,306
14689		20909	48		540	886	Auto Fog	12.8	3.90A	100.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	200	4,306
		25639			540	887	Tractor Work Light	12.8	3.90A	95.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	400	4,306
		25703			540	888	Tractor Work Light	12.8	3.90A	95.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	400	4,306
12336		20910	48		540	889	Auto Signal	12.8	2.10A	43.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.00	2.68	300	306
12337		20911	48		540	890	Auto Signal	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.00	2.68	300	306
12308	15246	15248	48	10	500	891	Auto Stop	12.8	63A	11.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	500	124,306
12338		20913	48		540	893	Auto Fog	12.8	2.93A	75.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	200	4,17,160,306
		89115			540	893CL	Tractor	12.8	2.93A	75.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	200	4,160,306
25172		24				893 NH	Auto Fog, Nighthawk™	12.8	2.93A	75.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68		4,17,160,306
25102		12				893 NH	Auto Fog, Nighthawk™	12.8	2.93A	75.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68		4,17,160,306
22112	20238	18455	48	10	540	894	Tractor	12.8	2.93A	75.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	200	4,306
22113		20913	48		540	896	Auto Fog	12.8	2.93A	75.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	200	4,17,160,306
98093		12271	48		540	898	Auto Fog	12.8	2.93A	60.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	1900	4,17,160,306
22111		12272	48		540	899	Auto Fog	12.8	2.93A	60.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	1900	4,17,160,306
14273			48			901	Garden	12.8	31A	2.9	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	500	
23024	40462	40463	48	50	1000	904	Auto	13.5	69A	4.0	TS	Wedge (W2 1x5-S)	C-2F	0.81	1.49	5000	4
12366	40289	28763	48	50	1000	906	Auto	13.0	69A	6.0	TS	Wedge (W2 1x5-S)	C-2F	0.81	1.49	1000	
	44754	16858	48	50	1000	908	Emergency Lighting	6.0	1.50A	12.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	50	
	44756	16859	48	50	1000	909	Emergency Lighting	6.0	62A	3.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	50	
12365	40504	28767	48	50	1000	912	Auto	12.8	1.00A	12.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	1000	
89242			48			912 NH	Auto, Nighthawk™	12.8	1.00A	12.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49		
	44769			50		914	Emergency Lighting	4.0	90A	3.5	TS	Wedge (W2 1x5-S)	C-6	0.75	1.49	50	
	44771	44772		50	1000	915	Emergency Lighting	12.0	75A	11.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	50	
23025		28768	48			916	Auto	13.5	54A	2.0	TS	Wedge (W2 1x5-S)	C-2F	0.81	1.49	10000	
	21860					916NA	Auto, Amber	13.0	54A	1.5	TS	Wedge (W2 1x5-S)	C-2F	0.81	1.49	10000	
40179	17837		30	50		918	Garden	12.8	56A	6.5	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	500	
12307	43374	45752	48	50	1000	921	Auto	12.8	1.40A	21.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	500	
89238			48			921 NH	Auto, Nighthawk™	12.8	1.40A	21.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49		
85938		25				921XE	Undercabinet	12.8	18.00W	21.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	10000	121
23027	13274	13275	48	50	1000	922	Auto	12.8	98A	15.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	200	
71903			48			922 NH	Auto, Nighthawk™	12.8	98A	15.0	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49		
40180			30			923	Garden	12.8	91A	12.5	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	500	
	13483				50	926	Emergency Lighting	4.0	1.80A	7.5	TS	Wedge (W2 1x5-S)	C-2R	0.81	1.49	50	

Miniature and Sealed Beam Lamps

Miniature Lamps (continued)																
Order Code		Case Qty		GE Lamp No.		Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk											
13485	13486			50	1000	927	Emergency Lighting	6.0	1.2A	8.0	TS	Wedge (W2.1x3.5d)	C-2R	0.81	1.49	50
16975	15285			50	1000	939	Emergency Lighting	6.0	9A	5.4	TS	Wedge (W2.1x3.5d)	C-2R	0.81	1.49	50
	2368A				2500	963	Emergency Lighting	6.0	2.00A	15.0	TS	Wedge (W2.1x3.5d)	C-2R	0.81	1.49	50
12367	26709		48	50		1003	Auto	12.8	9A	15.0	B6	Single Contact Bayonet (BA15s)	C-6	1.06	1.75	200
47800						1003 LL	Auto, Long Life	12.8	9A	15.0	B6	Single Contact Bayonet (BA15s)	C-6	1.06	1.75	400
71899			48			1003 NH	Auto, Nighthawk™	12.8	9A	15.0	B6	Single Contact Bayonet (BA15s)	C-6	1.06	1.75	
12373	26726		48	50		1004	Auto	12.8	9A	15.0	B6	Double Contact Bayonet (BA15d)	C-6	1.06	1.75	200
26775				50		1034	Auto Stop, Tail	12.8/14	1.80/59A	32.0/3.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	200/5000
40134	26838		48	50		1073	Auto Signal	12.8	1.8A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	200
71905			48			1073NH	Auto, Nighthawk™	12.8	1.8A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	
00765	26854		48	50		1076	Auto	12.8	1.8A	32.0	S8	Double Contact Bayonet (BA15d)	C-6	1.25	2.00	200
26885				10		1133	Instrument	6.2	3.91A	32.0	RP11	Single Contact Bayonet (BA15s)	C-2R	1.25	2.25	200
12346	26903	26905	48	50	500	1141	Auto	12.8	1.44A	21.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	1000
47802						1141 LL	Auto, Long Life	12.8	1.44A	21.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	2000
71897			48			1141 NH	Auto, Nighthawk™	12.8	1.44A	21.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	
00759	26917	26919	48	50	500	1142	Auto	12.8	1.44A	21.0	S8	Double Contact Bayonet (BA15d)	C-6	1.25	2.00	1000
12397						1154	Auto Stop, Tail	6.4/7.0	2.63/75A	21.0/3.0	S8	Double Contact Index (BAV15d)	C-6	1.25	2.00	200/1000
71889						1154 NH	Auto, Nighthawk™	6.4/7.0	2.63/75A	21.0/3.0	S8	Double Contact Index (BAV15d)	C-6	1.25	2.00	
26955				50		1155	Truck Marker	13.5	59A	4.0	G6	Single Contact Bayonet (BA15s)	2C-2R	0.81	1.44	5000
12344	26960	26962	48	50	500	1156	Auto Stop	12.8	2.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	1200
23334		11666			1000	1156 LL	Auto, Stop, Long Life	12.8	2.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	2400
21028	20248		48	50		1156NA	Auto, Amber	12.8	2.10A	24.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	1200
89241			48			1156 NH	Auto, Nighthawk™	12.8	2.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	
12294	26969	26971	48	50	500	1157	Auto Stop, Tail	12.8/14	2.10/59A	32.0/3.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	1200/5000
23337			48			1157 LL	Auto Stop, Tail, Long Life	12.8/14	2.10/59A	32.0/3.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	2400/10000
89236			48			1157 NH	Auto, Nighthawk™	12.8/14	2.10/59A	32.0/3.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	
12310	26975	26976	48	50	500	1157NA	Auto, Amber	12.8/14	2.10/59A	24.0/2.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	1200/5000
47798			48			1157NA LL	Auto, Amber, Long Life	12.8/14	2.10/59A	24.0/2.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	2400/10000
71891			48			1157NA NH	Auto, Amber, Nighthawk™	12.8/14	2.10/59A	24.0/2.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	
27004				10		1176	Auto Stop, Tail	12.8/14	1.34/59A	21.0/6.0	S8	Double Contact Bayonet (BA15d)	C-6/C-6	1.25	2.00	300/1500
27021	27023			500		1195	Auto	12.5	1.00A	50.0	RP11	Single Contact Bayonet (BA15s)	C-2R	1.25	2.25	300
27026				10		1196	Auto	12.5	1.00A	50.0	RP11	Double Contact Bayonet (BA15d)	C-2R	1.25	2.25	300
39904			10			1229	Emergency Lighting	40.0	38A	15.0	S8	Double Contact Bayonet (BA15d)	C-2V	1.12	2.00	400
81679			50			1251	Instrument	28.0	23A	3.0	G6	Single Contact Bayonet (BA15s)	2C-2V	0.75	1.44	2000
22523			48	10		1295NA	Auto, Amber	12.5	3.00A	37.0	S8	Single Contact Bayonet (BA15s)	C-2R	1.25	2.00	200
12824			50			1308	Aircraft, Reading	28.0	56A	16.0	B6	Single Contact Bayonet (BA15s)	CC-8	1.06	1.75	2000
81656			50			1309	Aircraft	28.0	52A	15.0	B6	Single Contact Bayonet (BA15s)	CC-8	1.06	1.75	2000
81667			50			1315	Aircraft, Emergency	2.5	1.00A	1.8	G5	Single Contact Bayonet (BA15s)	C-6	0.69	1.25	20
34265			50			1317	Aircraft, Emergency	6.0	51A	3.4	B6	Single Contact Bayonet (BA15s)	C-6	1.12	1.75	100
27150			10			1383	Aircraft, Reading	13.0	20.0W		R12	Single Contact Bayonet (BA15s)	C-8	2.63	300	
27154			10			1385	Aircraft, Reading	28.0	20.0W		R12	Single Contact Bayonet (BA15s)	CC-8	2.63	300	
27179			50			1408	Signal	10.0	13A	0.9	T3 1/4	Miniature Bayonet (Ba9s)	C-2V	0.62	1.19	250
12329	27207		48	50		1445	Auto	14.4	1.35A	0.7	G3 1/2	Miniature Bayonet (Ba9s)	C-2V	0.50	0.94	2000
27263			50			1450	Indicator	24.0	0.35A	0.2	G3 1/2	Miniature Bayonet (Ba9s)	C-2F	0.50	0.94	3000
81669			10			1460G	Microscope	6.5	2.75A	23.0	S8	Double Contact Prefocus	C-6	1.25	2.00	100
81657			10			1495	Aircraft	28.0	30A	6.0	T4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.62	1.38	500
81678			10			1495X	Aircraft, Gas Filled	28.0	30A	6.0	T4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.62	1.38	500
81672			10			1591	Aircraft	28.0	61A	15.0	S8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	1000
40945			50			1591AF	Aircraft, Frosted	28.0	61A		S8	Single Contact Bayonet (BA15s)	C-2V	2.00	1000	13
27461			10			1612	Instrument	5.4	1.90A	10.0	S8	Double Contact Bayonet (BA15d)	C-6	1.25	2.00	1000
27472			10			1619	Instrument	6.7	1.90A	15.0	S8	Single Contact Bayonet (BA15s)	C-6	1.12	2.00	500
27488	27489			500		1630	Instrument	6.5	2.75A	23.0	S8	Double Contact Prefocus	C-6	1.00	2.00	100
27504			50			1638	Marine	28.0	1.02A	32.0	S8	Double Contact Bayonet (BA15d)	2C-6	1.25	2.00	500
27529			10			1662	Aircraft	28/28	93/3AA	32.0/6.0	S8	Double Contact Index (BAV15d)	CC-6/C-2V	1.25	2.00	400/1000
27532			50			1665	Aircraft	28.0	80A	21.0	S8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	1000
81658			50			1665AF	Aircraft, Frosted	28.0	80A		S8	Single Contact Bayonet (BA15s)	C-2V	2.00	1000	13
27548			10			1680	Aircraft	6.0	4.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	300
81668			10			1680X	Aircraft	6.0	4.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	300
27557			50			1683	Aircraft, Series Filament	28.0	1.02A	32.0	S8	Single Contact Bayonet (BA15s)	2C-6	1.25	2.00	500

For the most up-to-date product information, see www.lighting.com. All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature Lamps (continued)																	
Order Code				Case Qty		GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk												
	27566			50		1691	Aircraft, Series Filament	28.0	61A	15.0	S8	Single Contact Bayonet (BA15s)	2C-2R	1.12	2.00	1000	
	27568			50		1691AF	Aircraft, Frosted	28.0	61A		S8	Single Contact Bayonet (BA15s)	2C-2R		2.00	1000	
	27571			10		1692	Marine	28.0	61A	15.0	S8	Double Contact Bayonet (BA15d)	2C-2R	1.12	2.00	1000	
	27630			10		1777	Aircraft	12.8	1.52A	26.0	S8	Single Contact Bayonet (BA15s)	C-2R	1.12	2.00	400	
	27667			50		1813	Radio	14.4	10A	0.9	T3 1/4	Miniature Bayonet (Ba9s)	C-2V	0.62	1.19	1000	13
00758	27677	27679	48	50	4000	1815	Indicator	14.0	20A	1.4	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.75	1.19	3000	147
12359	27688		48	50		1816	Aircraft, Auto	13.0	33A	3.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2V	0.62	1.19	1000	13
	81659			50		1818	Aircraft	24.0	17A	3.3	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	250	147
	81660	81661		50	1000	1819	Indicator	28.0	0A	0.3	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	2500	
	81663			50		1820	Indicator	28.0	10A	1.6	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1000	
	27749			50		1822	Indicator	36.0	10A	2.1	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1000	
	27772			50		1828	Indicator	37.5	05A	0.7	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	3000	
	81664			50		1829	Indicator	28.0	07A	1.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1000	
	27804			50		1835	Indicator	55.0	05A	1.1	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	5000	
	81665	81666		50	1000	1864	Aircraft	28.0	17A	3.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1500	
	27868			50		1866	Radio	6.3	25A	0.7	T3 1/4	Miniature Bayonet (Ba9s)	C-2R	0.78	1.19	5000	44
	40383			50		1873	Photo Scanner	28.0	20A	3.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	7000	
12331	27917		48	50		1891	Auto	14.0	24A	2.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	500	
00767	27927		48	50		1892	Auto	14.4	12A	0.8	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1000	
12332	27935	27937	48	50	4000	1893	Auto	14.0	33A	2.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	7500	
12330	27945	27948	48	50	4000	1895	Auto	14.0	14.2	14.3	G4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.56	1.07	2000	
71896			48			1895 NH	Auto, Nighthawk™	14.0	14.2	14.3	G4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.56	1.07		
	34021			10		1939X	Aircraft	28.0	179A	70.0	T7	Single Contact Bayonet (BA15s)	C-2V	1.25	2.16	300	131A
	28008			10		1940	Aircraft	14.0	357A	75.0	T7	Single Contact Bayonet (BA15s)	C-82	1.25	2.16	300	14
	18617			10		1946	Aircraft	28.0	250W	6660	T3	2-Pin with Leads	CC-6	0.87	1.46	50	
	28011			10		1958	Aircraft	28.0	150W	250.0	T4	Tab	CC-8	0.75	2.25	300	304
	39641			10		19628	Special Service	8.5	62W	110.0	T3	Wire Terminals	C-6	0.29	1.14	50	304
	12859			10		19628G	Special Service	8.5	62W	110.0	T3	Wire Terminals	C-6	0.29	1.14	50	304
	37947			10		19620X	Special Service	8.5	62W	80.0	T3	Wire Terminals	C-6	0.29	1.14	150	304
	44152			10		19620Z	Special Service	8.5	62W	80.0	T3	Wire Terminals	C-6	0.29	1.14	150	304
	13667			10		1962TV	Medical	8.5	62W	110.0	T3	Wire Terminals	C-6	0.29	1.14	50	304
	28034			10		1968	Aircraft	28.0	25W	15.0	T3	Double Slide	C-2V	0.41	1.17	500	1330A
	41938			100		1970X	Aircraft	28.0	100W	140.0	T3	Special	CC-8		2.25	1000	1330A
	32780			10		1974	Instrument	6.0	20W	10.0	T3	Wire Terminals	C-6	0.29	1.14	10000	304
	38545			100		1978X	Aircraft	10.0	100W	130.0	T3	8-Pin (Special)	C-8		2.15	2000	304
	38627			10		1982	Aircraft	28.0	75W	11.0	T3	Single Contact Bayonet (BA15s)	CC-8	1.06	1.88	1000	1330A
	21061			10		19825P	Aircraft	28.0	75W	107.0	T3	Single Contact Bayonet (BA15s)	CC-6	1.00	1.97	2000	304
	39718			10		1983	Aircraft	10.0	100W	130.0	T4	2-Pin	C-8	1.25	1.80	2000	304
	44717			10		1986	Aircraft	28.0	250W	600.0	T4	Wire Terminals	CC-6	1.03	2.00	100	304
	47695			10		1987	Aircraft	28.0	150W	240.0	T4	Double Contact Bayonet (BA15d)	CC-8	1.18	2.44	700	304
	38535			10		1988	Aircraft	10.0	100W	130.0	T3	Special Wire Leads	C-8		2.15	2000	304
12326	19280		48	10		2040	Auto	12.8	625A	10.5	T2 1/4	Wedge (W2 Lx5 Sd)	C-6	0.40	1.25	500	306
12296	44760	18620	48	50	500	2057	Auto, Stop, signal	12.8/14.0	2.1/48A	32.0/2.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	1200/5000	
23339			48			2057 LL	Auto, Long Life	12.8/14.0	2.1/48A	32.0/2.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	2400/10000	
89317			48	50		2057 NH	Auto, Nighthawk™	12.8/14.0	2.1/48A	32.0/2.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	1200/5000	
12322	44763		48	50		2057NA	Auto, Amber	12.8/14.0	2.1/48A	24.0/1.5	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	2400/10000	
47799			48			2057NA LL	Auto, Amber, Long Life	12.8/14.0	2.1/48A	24.0/1.5	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	2400/10000	
71892			48			2057NA NH	Auto, Amber, Nighthawk™	12.8/14.0	2.1/48A	24.0/1.5	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	2400/10000	
	12899				600	2058U	Truck	12.8/14.0	2.1/48A	32.0/2.0	S8	Wire Terminals	C-6/C-6		1.81	1200/5000	113
	26697			10		2059	Aircraft	12.0	835A	9.1	T2 1/2	Miniature Bayonet (Ba9s)	C-8	0.59	1.30	4000	304
	26698			10		2059X	Aircraft	12.0	835A	8.0	T2 1/2	Miniature Bayonet (Ba9s)	C-8	0.59	1.30	4000	304
	21494			10		2074	Instrument	7.0	25W	24.0	T3	Wire Terminals	C-6	0.285	1.14	2700	304
	34763			50		2232	Aircraft	28.0	18W	18.0	S8	Single Contact Bayonet (BA15s)	CC-8	1.19	2.00	2000	
	26702			50		2232LL	Aircraft, Long Life	28.0	18W	18.0	S8	Single Contact Bayonet (BA15s)	CC-8	1.19	2.00	4000	
	81677			50		2232SB	Aircraft, ReflectORIZED	28.0	18W	18.0	S8	Single Contact Bayonet (BA15s)	CC-8	1.19	2.00	2000	
	36906			10		2233	Auto	28.0	21W	21.0	S8	Single Contact Bayonet (BA15s)	CC-8	1.19	2.00	2000	
12298	16291		48	50		2357	Auto, Stop, signal	12.8/14.0	2.1/259A	40.0/3.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	400/5000	
71890			48			2357 NH	Auto, Nighthawk™	12.8/14.0	2.1/259A	40.0/3.0	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	2.00	400/5000	
12299	15698		48	50		2357NA	Auto, Amber	12.8/14.0	2.1/259A	30.0/2.2	S8	Double Contact Index (BAV15d)	C-6	1.25	2.00	400/5000	

Miniature and Sealed Beam Lamps

Miniature Lamps (continued)

Order Code			Case Qty			GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk												
	18047			10		2396	Auto, Stop	12.8	2.25A	40.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	400	
27560			48			2397	Auto, Stop, signal	12.8/14.0	2.25/4BA	40.0/2.0	S8	Double Contact Index (BA15d)	C-6/C-6	1.25	2.00	400/5000	
	19792			100		2556	Aircraft	28.0	200W	525.0	T3	2-Pin	CC-6	0.87	1.46	50	304
	19566			100		2586	Aircraft	28.0	250W	600.0	T4	2-Pin with Insulation Leads	CC-6	1.30	1.90	100	304
	43805		10			2604X	Instrument, Lens end	5.0	2.0A		TL2 3/4		C-6	1.18	5.000	124,128,306	
	36508		10			3011	Aircraft	28.0	1.29A	44.0	S11	Single Contact Bayonet (BA15s)	C-2V	1.25	2.38	1000	13
12305	18389		48	50		3057	Auto, Stop, signal	12.8/14.0	2.1/4BA	32.0/2.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	1200/5000	
26378			48			3057 LL	Auto, Long Life	12.8/14.0	2.1/4BA	32.0/2.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	2000/10000	
89243			48			3057 NH	Auto, Nighthawk™	12.8/14.0	2.1/4BA	32.0/2.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09		
12313	18391		48	50		3057NA	Auto, Amber	12.8/14.0	2.1/4BA	24.0/1.5	S8	Plastic Wedge	C-6/C-6	1.10	2.09	1200/5000	
	14698		10			3078	Aircraft	10.0	100W	95.0	T3	Special	C-8	1.10	2.15	4500	304
23028			48			3155	Auto, Signal	12.8	1.60A	21.0	S8	Plastic Wedge	C-6	1.10	2.09	1500	
12351	21863		48	50		3156	Auto, Stop	12.8	2.1A	32.0	S8	Plastic Wedge	C-6	1.10	2.09	1200	
27565			48			3156 LL	Auto, Long Life	12.8	2.1A	32.0	S8	Plastic Wedge	C-6	1.10	2.09	2000	
17188			48			3156 NH	Auto, Nighthawk™	12.8	2.1A	32.0	S8	Plastic Wedge	C-6	1.10	2.09		
12306	17172		48	50		3157	Auto, Stop, signal	12.8/14.0	2.1/5BA	32.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	1200/5000	
26377			48			3157 LL	Auto, Long Life	12.8/14.0	2.1/5BA	32.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	2000/10000	
89244			48			3157 NH	Auto, Nighthawk™	12.8/14.0	2.1/5BA	32.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09		
12314	17173		48	50		3157NA	Auto, Amber	12.8/14.0	2.1/5BA	24.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09	1200/5000	
26380			48			3157NA LL	Auto, Amber, Long Life	12.8/14.0	2.1/5BA	24.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09	2000/10000	
71893			48			3157NA NH	Auto, Amber, Nighthawk™	12.8/14.0	2.1/5BA	24.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09		
14387	22525		48	50		3357/3457	Auto, Stop, signal	12.8/14.0	2.1/5BA	40.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	400/5000	
26379			48			3357/3457 LL	Auto, Long Life	12.8/14.0	2.1/5BA	40.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	800/10000	
171901			48			3457NH	Auto, Nighthawk™	12.8/14.0	2.1/5BA	40.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09		
14388	22526		48	50		3357NA/3457NA	Auto, Amber	12.8/14.0	2.1/5BA	30.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09	400/5000	
25834			48			3496	Auto, Japanese	12.8/14.0	2.1/5BA	43.0/3.0	T7	Double Contact Index (BAV15d)	C-6/C-6	2.00	600/5000		
25835			48			3497	Auto, Japanese	12.8	2.1A	45.0	T7	Single Contact Bayonet (BA15s)	C-6	2.00	600		
25837			48			3652	Auto, Japanese	13.5	37A	6.0	T3 1/4	Wedge (W2 1x3 5d)		1.06	700		
15657			48			4157LL	Auto, Stop, signal	12.8/14.0	2.23/55BA	32.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	3600/10000	
47458			48			4157NA LL	Auto, Stop, signal, Amber	12.8/14.0	2.23/55BA	24.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09	3600/10000	
28154		24				5004 CW	Aircraft-Cool White	A.C.	4W	11.9	T5	Miniature Pinless		6.00	7500	32,162,309	
28155		24				5004 WW	Aircraft-Warm White	A.C.	4W	11.1	T5	Miniature Pinless		6.00	7500	32,162,309	
28160		24				5008CW	Aircraft-Cool White	A.C.	8W	35.4	T5	Miniature Pinless		12.00	7500	32,162,309	
28163		24				5008WW	Aircraft-Warm White	A.C.	8W	34.6	T5	Miniature Pinless		12.00	7500	32,162,309	
28168		24				5013CW	Aircraft-Cool White	A.C.	13W	65.2	T5	Miniature Pinless		21.00	7500	32,162,309	
28169		24				5013WW	Aircraft-Warm White	A.C.	13W	62.8	T5	Miniature Pinless		21.00	7500	32,162,309	
27367		24				5104CW	Aircraft-Cool White	A.C.	4W	11.9	T5	Miniature Bi-Pin		6.00	7500	32,162,309	
28173		24				5104 WW	Aircraft-Warm White	A.C.	4W	11.1	T5	Miniature Bi-Pin		6.00	7500	32,162,309	
12774		24				5106CW	Aircraft-Cool White	A.C.	6W	24.7	T5	Miniature Bi-Pin		9.00	7500	32,162,309	
33612		24				5106WW	Aircraft-Warm White	A.C.	6W	23.9	T5	Miniature Bi-Pin		9.00	7500	32,162,309	
27466		24				5108CW	Aircraft-Cool White	A.C.	8W	35.4	T5	Miniature Bi-Pin		12.00	7500	32,162,309	
28175		24				5108 WW	Aircraft-Warm White	A.C.	8W	34.6	T5	Miniature Bi-Pin		12.00	7500	32,162,309	
12775		24				5113CW	Aircraft-Cool White	A.C.	13W	65.2	T5	Miniature Bi-Pin		21.00	7500	32,162,309	
28178		24				5113 WW	Aircraft-Warm White	A.C.	13W	62.8	T5	Miniature Bi-Pin		21.00	7500	32,162,309	
29897		1000				6034BP	Aircraft	28.0	0.24A	0.15	T1 3/4	Bi-Pin (M-23)	C-2F	0.64	5000		
29895		1000				6034BPGL	Aircraft	28.0	0.24A	0.15	T1 3/4	Bi-Pin (M-23)	C-2F	0.64	5000		
87360		1000				6832	Aircraft	5.0	0.6A	0.05	T1	Short Wire Terminal	C-2R	0.14	100000		
87351		1000				6832AS15	Aircraft	5.0	0.6A	0.05	T1	Short Wire Terminal	C-2R	0.14	100000		
87291		1000				6839	Aircraft	28.0	0.24A	0.15	T1	Sub-Midget Flanged	CC-2F	0.36	16000		
29893		1000				6839BP	Aircraft	28.0	0.24A	0.15	T1	Bi-Pin (M-23)	CC-2F	0.35	16000		
29894		1000				6839BPGL	Aircraft	28.0	0.24A	0.15	T1	Bi-Pin (M-23)	CC-2F	0.35	16000		
87274		1000				7132AS15	Aircraft	5.0	0.75A	0.09	T1	Short Wire Terminal	C-2R	0.14	40000		
87402		1000				7152	Aircraft	5.0	1.15A	0.15	T1	Short Wire Terminal	C-2R	0.14	40000		
97548		1000				7152AS15	Aircraft	5.0	1.15A	0.15	T1	Short Wire Terminal	C-2R	0.14	40000		
28926		50				7387	Indicator	28.0	0.4A	0.3	T1 3/4	Bi-Pin (M-23)	C-2F	0.50	0.61	7000	79

For the most up-to-date product information, see www.gelighting.com.
All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature Lamps (continued)

Order Code			Case Qty			GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk												
26200						7440	Auto, Japanese Vehicles	13.5	1.85A	37.0	T7	Wedge (103x160Q)	C-6		1.75	300	
26201						7443	Auto, Japanese Vehicles	13.5/13.5	1.85/AA	35.0/3.0	T7	Wedge (103x160Q)	C-6/C-6		1.75	500/1000	
89248		48				7443 NH	Auto, Nighthawk™	13.5/13.5	1.85/AA	35.0/3.0	T7	Wedge (103x160Q)	C-6/C-6		1.75		
22432	22389	14542	48	100	200	9003/HB2	Auto headlamp	12.8/12.8	67/60W	119.0/72.0	T4 3/4	PN3T-38	C-8/C-8	1.12	3.62	150/800	4,306
25107			12			9003 NH	Auto, Nighthawk™	12.8/12.8	67/60W	119.0/72.0	T4 3/4	PN3T-38	C-8/C-8	1.12	3.62		4,306
25150			24			9003 NH	Auto, Nighthawk™	12.8/12.8	67/60W	119.0/72.0	T4 3/4	PN3T-38	C-8/C-8	1.12	3.62		4,306
89139			24			9003 NHS	Auto, Nighthawk™ Sport	12.8/12.8	67/60W	119.0/72.0	T4 3/4	PN3T-38	C-8/C-8	1.12	3.62		4,306
45470			48			9003 SB	Auto, Blue Halogen	12.8/12.8	67/60W	119.0/72.0	T4 3/4	PN3T-38	C-8/C-8	1.12	3.62	80/150	4,306
18508	13382		48	100		9004/HB1	Auto headlamp	12.8/12.8	65/65A	95.0/55.0	T4 3/4	Aval Plastic Prefocus	C-6/C-6	1.75	4.17	150/220	4,306
27651			48			9004HO	Auto, High Output	12.8/12.8	65/62W	95.0/56.0	T4 3/4	Aval Plastic Prefocus	C-6/C-6	1.75	4.17	150/640	4,306
45471			48			9004 SB	Auto, Blue Halogen	12.8/12.8	65/65W	95.0/55.0	T4 3/4	Aval Plastic Prefocus	C-6/C-6	1.75	4.17	40/200	4,306
13993	11249	20559	48	100	250	9004 LL	Auto, Long Life	12.8/12.8	65/67W	95.0/55.0	T4 3/4	Aval Plastic Prefocus	C-6/C-6	1.75	4.17	150/850	4,306
25106			12			9004 NH	Auto, Nighthawk™	12.8/12.8	65/65A	95.0/55.0	T4 3/4	Aval Plastic Prefocus	C-6/C-6	1.75	4.17		4,306
25149			24			9004 NH	Auto, Nighthawk™	12.8/12.8	65/65A	95.0/55.0	T4 3/4	Aval Plastic Prefocus	C-6/C-6	1.75	4.17		4,306
97698			24			9004 NHS	Auto, Nighthawk™ Sport	12.8/12.8	65/65A	95.0/55.0	T4 3/4	Aval Plastic Prefocus	C-6/C-6	1.75	4.17		4,306
97699			12			9004 NHS	Auto, Nighthawk™ Sport	12.8/12.8	65/65A	95.0/55.0	T4 3/4	Aval Plastic Prefocus	C-6/C-6	1.75	4.17		4,306
18509	13384	36431	48	100	200	9005/HB3	Auto headlamp	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13	800	4,306
25105			12			9005 NH	Auto, Nighthawk™	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13		4,306
25148			24			9005 NH	Auto, Nighthawk™	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13		4,306
89140			24			9005 NHS	Auto, Nighthawk™ Sport	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13		4,306

Miniature and Sealed Beam Lamps

Miniature Lamps (continued)

Order Code		Case Qty		GE Lamp No.		Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk											
12085				10		DE 3425	Auto	13.0	77A	9.6	T4	SV8.SMM		1.50	400	
23324			48			DE756	Strip Lighting	13.5	74A	9.8	T3 1/2	SV8.SMM		1.65	200	
40336	27328	32376	48	10	300	H1-55	Auto, GE 50110/1	13.2	62W	123.0	T3 1/2	P14.55	C-8	1.08	266	308
25159			24			H1-55 NH	Auto, Nighthawk™	13.2	62W	123.0	T3 1/2	P14.55	C-8	1.08	266	308
25092			12			H1-55 NH	Auto, Nighthawk™	13.2	62W	123.0	T3 1/2	P14.55	C-8	1.08	266	308
27569			10			H1-70	Auto, GE50230/1	28.0	80W	151.0	T3 1/2	P14.55	C-8	1.08	246	600
27330			10			H2-55	Auto, GE 50410	13.2	62W	143.0	T3 1/2	X511	C-8	0.48	122	225
23442			400			H3-35	CIM, GE 50390	13.2	40W	60.0	T3 1/2	PK225	C-6	0.71	165	200
12339	27331	22132	48	10	400	H3-55	Auto, GE 50340	13.2	62W	115.0	T3 1/2	PK225	C-6	0.71	165	225
23445			400			H3-55D	CIM, GE 50340D	13.2	62W	111.0	T3 1/2	PK225	C-6	0.71	165	600
35044			400			H3-55LL	Auto, GE50340, Long Life	13.2	64W	106.0	T3 1/2	PK225	C-6	0.71	165	2000
23428			400			H3-65/28V	CIM, GE 52590D	28.0	66W	102.0	T3 1/2	PK225	C-6	0.71	165	1000
27332			10			H3-70/28V	CIM, GE50350	28.0	75W	135.0	T3 1/2	PK225	CC-6	0.71	165	225
12341			48			H3-100	Off Road, GE52130	13.2	92W	187.0	T3 1/2	PK225	C-6	0.71	165	100
18132	27334	22133	48	10	200	H4-60/55	Auto H4 GE 50440	13.2/13.2	71/66W	138/0/80.0	T5	P43T-38	C-8/C-8	1.12	362	225/900
25094			24			H4-60	Auto, Nighthawk™	13.2/13.2	71/66W	138/0/80.0	T5	P43T-38	C-8/C-8	1.12	362	
27342	93732		10	200		H4-75/70 28V	Bus, GE 50450	28.0/28.0	80/73W	151.0/95.0	T5	P43T-38	C-8/C-8	1.14	362	150/300
26374		30641	48		200	H7-55	Auto, ECE/DOT, GES5820	13.2	57W	115.0	T3 1/2	PK260	C-8	0.98	236	500
		35755		200		H7-55LL	Auto, ECE/DOT	13.2	57W	115.0	T3 1/2	PK260	C-8	0.98	236	
25160			24			H7-55 NH	Auto, Nighthawk™	13.2	57W	115.0	T3 1/2	PK260	C-8	0.98	236	
89141			24			H7-55 NHS	Auto, Nighthawk™ Sport	13.2	57W	115.0	T3 1/2	PK260	C-8	0.98	236	308
29047	15765		48	140		H8	Auto, ECE Fog	13.2	40W	64.0	T3 1/2	PGJ19-1	C-8	1.06	263	400
29049	15827		48	140		H9	Auto, ECE headlamp	13.2	65W	167.0	T3 1/2	PGJ19-5	C-8	1.08	263	125
25762	15828		48	140		H11	Auto, ECE headlamp	13.2	55W	107.0	T3 1/2	PGJ19-2	C-8	1.07	263	550
89255	15963		48	140		H11LL	Auto, ECE headlamp, Long Life	13.2	55W	107.0	T3 1/2	PGJ19-2	C-8	1.07	263	1400
71342			48			H13 (R9008)	Auto headlamp	12.8/12.8	65/55W	119.0/79.6	T4.5/8	P28.4T	C-8/C-8	1.00	354	320/150
22961			48			KPR102	Flashlight-2D Krypton	2.4	7A	3.0	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	48.00	15
23153			48			KPR 113	Flashlight-4D Krypton	4.8	47A	4.1	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	20
23306			48			P21W	Auto, ECE Stop	13.5	1.85A	36.6	S8	Single Contact Bayonet (BA15s)	C-6	1.25	200	250
89247			48			P21W NH	Auto, Nighthawk™	13.5	1.85A	36.6	S8	Single Contact Bayonet (BA15s)	C-6	1.25	200	300
20695		30852	48	1000		P21W LL	Auto, Long Life	13.5	1.85A	36.6	S8	Single Contact Bayonet (BA15s)	C-6	1.25	200	150
	40778		10			P21W 24V	Auto, Stop	28.0	1.0A	36.6	S8	Single Contact Bayonet (BA15s)	C-6	1.25	200	100/100
27561			48			P21/4W	Auto, ECE, Stop, tail	13.5/13.5	1.85/37A	35.0/1.19	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	200	250
23303		30856	48	1000		P21/5W	Auto, ECE, Stop, tail	13.5/13.5	1.85/44	35.0/2.78	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	200	250
		21274		1000		P21/5W LL	Auto, Long Life	13.5/13.5	1.85/44	35.0/2.78	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	200	600/3000
89246			48			P21/5W NH	Auto, Nighthawk™	13.5/13.5	1.85/44	35.0/2.78	S8	Double Contact Index (BAV15d)	C-6/C-6	1.25	200	
27222	23057		10	1000		PC168	Auto Instrument	14.0	35A	3.0	T3 1/4	Printed Circuit Socket	C-2F	0.45	111	1500
27221			10			PC194	Auto Instrument	14.0	27A	2.0	T3 1/4	Printed Circuit Socket	C-2F	0.45	111	2500
12675	25181		48	50		PR2	Flashlight-2D cells	2.4	5A	0.8	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	15
12676	25193		48	50		PR3	Flashlight-2C cells	3.6	5A	1.5	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	15
12677			48			PR4	Flashlight-2C cells	2.3	27A	0.4	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	15
	25222		50			PR6	Flashlight-2D cells	2.5	3A	0.5	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	30
	25235		50			PR7	Flashlight-3D cells	3.7	3A	0.9	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	30
	25252		50			PR12	Flashlight-5D cells	6.0	5A	3.1	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	15
12681	25262		48	50		PR13	Flashlight-4F cells	4.8	5A	2.2	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	15
	25289		50			PR18	Flashlight-6D cells	7.2	55A	5.5	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	125	3
41370		18294	48	500		PV21W	Auto, ECE, Stop, Tail, Amber	13.5	1.85A	22.3	S8	Single Contact Bayonet (BA15s)	C-6	1.25	200	250
23314			48			RSW	Auto, ECE, GE2619	13.5	5W	4.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.75	147	500
23765	30859		2000			RSWLL	Auto, ECE	13.5	5W	4.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.75	147	400
23322	35417		48	2000		R10W	Auto, ECE, GE2641	13.5	10W	10.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.75	147	400
23318			48			TAW	Auto, ECE, GE2662	13.5	4W	2.8	T2 3/4	Miniature Bayonet (Ba9s)	C-2R	0.59	108	450
	12756		50			TEL/6PSB	Telephone Indicator	6.0	14A	550.0	T2	Tel. Slide No. 5	C-2V	1.11	2000	80
	12760		50			TEL/12PSB	Telephone Indicator	12.0	17A	2000.0	T2	Tel. Slide No. 5	C-2F	1.11	12000	80
	29001		50			TEL/24E2	Telephone Indicator	24.0	035A	600.0	T2	Tel. Slide No. 3	C-2F	1.69	7000	80
	12071		50			TEL/24PSB	Telephone Indicator	24.0	073A	3000.0	T2	Tel. Slide No. 5	C-2F	1.11	10000	80
	12761		50			TEL/28MB	Telephone Indicator	28.0	04A	0.3	T2 1/2	Miniature Bayonet (Ba9s)	C-2F	1.19	5000	80
	12072		50			TEL/28PSB	Telephone Indicator	28.0	04A	1600.0	T2	Tel. Slide No. 5	C-2F	1.11	5000	80
	29041		50			TEL/48C2	Telephone Indicator	48.0	035A	750.0	T2	Tel. Slide No. 3	C-2F	1.69	5000	80
	12075		50			TEL/48PSB	Telephone Indicator	48.0	05A	1800.0	T2	Tel. Slide No. 5	C-7A	1.11	10000	80

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Miniature Lamps (continued)

Order Code		Case Qty		GE Lamp No.		Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk											
12076				50		TEL/60MB	Telephone Indicator	60.0	05A	0.7	T2 1/2	Miniature Bayonet (Ba9s)	C-7A	1.19	7500	80
12077				50		TEL/60PSB	Telephone Indicator	60.0	05A	1800.0	T2	Tel. Slide No. 5	C-7A	1.11	7500	80
12078				50		TEL/120MB	Telephone Indicator	120.0	025A	0.4	T2 1/2	Miniature Bayonet (Ba9s)	CC-7A	1.11	7500	80
12080				50		TEL/120PSB	Telephone Indicator	120.0	025A	1000.0	T2	Tel. Slide No. 5	CC-7A	1.11	7500	80
27562		35030	48		2000	WSW	Auto, ECE	13.5	3W	1.8	T3 1/4	Wedge (W2.1x9.5d)	C-2V	0.50	1.06	1000
27563		28759	48		2000	WSW	Auto, ECE	13.5	5W	4.0	T3 1/4	Wedge (W2.1x9.5d)	C-2V	0.50	1.06	300
		26353		1000		W16W	Auto, ECE	13.5	16W	24.6	T5	Wedge (W2.1x9.5d)	C-2F	0.81	1.49	250
		20280		1000		W16W	Auto, ECE	13.5	16W	24.6	T5	Wedge (W2.1x9.5d)	C-2F	0.81	1.49	250
		20279		1000		WVSW	Auto, ECE, Amber	13.5	5W	3.0	T3 1/4	Wedge (W2.1x9.5d)	C-2V	0.50	1.06	300

Sealed Beam Lamps

Product Code		Quantity		GE Lamp		Bulb	Applications	Volts	Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP		Footnotes, Warning and Caution Notices
Unit	Bulk	Unit	Bulk	Unit	Bulk									Horizontal	Vertical	
18511		6		4000		PAR46	Headlamp-Low beam	12.8/12.8	38/60	SAE	3 Contact Lugs	4.00	200/320			4
24327		12		4013		PAR46	Tractor, Flood	6.4	25	800	Screw Terminals	3.75	300	80°	20°	
	24338		60	4014		PAR36	Emergency Building Light	6.4	18	1500	Screw Terminals	2.75	200	50°	25°	
24369		12		4019		PAR46	Tractor	6.2	30	1200	Screw Terminals	3.75	300	Trapezoidal		23
38418		12		4040		PAR46	Truck, Low beam	12.8/12.8	38/60	SAE	3 Contact Lugs	4.00	300/500			
39585	39586	12	60	4042		PAR36	Emergency Building Light	6.4	12	1100	Screw Terminals	2.75	150	45°	20°	
40588	40589	12	60	4044		PAR36	Emergency Building Light	12.0	12	1100	Screw Terminals	2.75	150	50°	25°	
10540	10541	12	60	4044-1		PAR36	Emergency Building Light	12.0	12	1100	Slip-on Terminals	2.75	150	50°	25°	
25051		12		4313		PAR36	Aircraft Landing	13.0	250	140000	Screw Terminals	2.75	25 h	16°	7°	302
39366	39367	12	60	4340		PAR36	Electric Truck Worklight	48.0	80	2500	Slip-on Terminals	2.75	400	Trapezoidal		15
39362	39363	12	60	4350		PAR36	Electric Truck Worklight	36.0	60	2100	Slip-on Terminals	2.75	400	Trapezoidal		15
12961		12		4402A		PAR36	CIM Signal	28.0	50	1000	Screw Terminals	2.75	400	50°	25°	
24425	24423	12	60	4405		PAR36	Spotlamp	12.8	30	50000	Screw Terminals	2.75	100	6°	5°	167
24430	24428	12	60	4406		PAR36	Tractor, Flood	12.8	35	600	Screw Terminals	2.75	300	80°	30°	4
24439		12		4410		PAR36	Backup, Tractor Flood	12.8	35	600	Screw Terminals	2.75	300	80°	30°	4
24448	24443	12	60	4411		PAR36	Tractor	12.8	35	3000	Screw Terminals	2.75	300	Trapezoidal		4
37889	37890	12	60	4411-1		PAR36	Tractor	12.8	35	3000	Slip-on Terminals	2.75	300	Trapezoidal		4
29040		12		4411-3		PAR36	Tractor	12.8	35	3000	Combination	2.75	300	Trapezoidal		4
24454	24453	12	24	4412		PAR46	Fog	12.8	35	11000	Screw Terminals	3.75	300	40°	7°	167
24460	24459	12	24	4412A		PAR46	Fog, yellow	12.8	35	8800	Screw Terminals	3.75	300	40°	7°	167
22981	24464	12	24	4413		PAR46	Tractor, Flood	12.8	35	11000	Screw Terminals	3.75	300	80°	20°	4
24478	24477	12	60	4414		PAR36	Garden	12.8	18	1500	Screw Terminals	2.75	300	50°	25°	
24487		12		4414R		PAR36	Warning Signal, Red Lens	12.8	18	275	Screw Terminals	2.75	300	50°	25°	
22982	24490	12	60	4415		PAR36	Fog	12.8	35	9000	Screw Terminals	2.75	300	40°	5°	167
24499	24497	12	60	4415A		PAR36	Truck Fog, Amber Lens	12.8	35	7000	Screw Terminals	2.75	300	40°	5°	167
22983	24503	12	60	4416		PAR36	Narrow Spot	12.8	30	35000	Screw Terminals	2.75	300	11°	4°	
	34901	12	60	4416-1		PAR36	Warning Signal, Narrow Spot	12.8	30	35000	Slip-on Terminals	2.75	300	11°	4°	
24506		12		4416A		PAR36	Signal, Amber	12.8	30	26000	Screw Terminals	2.75	300	11°	4°	
24513		12		4416R		PAR36	Signal, Red	12.8	30	4000	Screw Terminals	2.75	300	11°	4°	
24531	24525	12	24	4419		PAR46	Tractor, Flood	12.8	35	1600	Screw Terminals	3.75	300	Trapezoidal		4
24539		12		4421		PAR46	Truck	12.8	100	23000	Slip-on Terminals	3.75	300	50°	7°	109,167
24542		12		4422		PAR36	Tractor	13.0	35	600	Screw Terminals	2.75	300	75° Cone	4°	
24572		12		4434A		PAR46	Bus, Red Lens	12.8	40	1000	Screw Terminals	3.75	100	55°	25°	
24577	24576	12	24	4435		PAR46	Pin Spotlight	12.8	30	75000	Screw Terminals	3.75	100	5°	5°	167
24582		12		4436		PAR46	Signal	12.8	35	60000	Screw Terminals	3.75	300	10°	4°	
39932	39933	12	60	4440X		PAR36	Tractor	12.8/12.8	40/40	6000/4500	3 Contact Lugs	3.00	320/320	40°/33°	7°/9°	4
39748		12		4440X-1		PAR36	Tractor	12.8/12.8	40/40	6000/4500	3 Slip-on Terminals	2.75	320/320	40°/33°	7°/9°	4
37046	37047	12	60	4446		PAR36	Emergency Building Light	12.8	25	400	Screw Terminals	2.75	300	80°	80°	
40176		12		4460X		PAR36	Tractor	12.8	40	0	3 Screw Terminals	2.75	320/320	22°	13°	4
24592		12		4461		PAR36	Tractor	12.8	60	6000	Screw Terminals	2.7500 cm	300	Trapezoidal		4
24596		12		4466		PAR36	Tractor	12.8	60	1000	Screw Terminals	2.75	300	80°	30°	4
24613		12		4478		PAR46	CIM	13.0	60	1600	2 Contact Lugs	4.00	800	56°	32°	4
24627		12		4502		PAR36	Headlamp Military	28.0	50	10000	Screw Terminals	2.75	400	40°	7°	
24640	24638	12	60	4505		PAR36	Aircraft Navigation	28.0	50	45000	Screw Terminals	2.75	400	11°	5°	
24650	24649	12	60	4509		PAR36	Aircraft Landing	13.0	100	110000	Screw Terminals	2.75	25	12°	6°	167
41503		12		4509X		PAR36	Marine Spotlight	13.0	100	110000	Screw Terminals	2.75	25	12°	6°	167
11524		12		4509Y		PAR36	Emergency Vehicle	13.0	100		Screw Terminals	2.75	25	12°	6°	

Miniature and Sealed Beam Lamps

Sealed Beam Lamps (continued)

Product Code		Quantity		GE Lamp No.	Bulb	Applications	Volts	Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP		Footnotes, Warning and Caution Notices
Unit	Bulk	Unit	Bulk										Horizontal	Vertical	
24654	24653	12	60	4510	PAR36	Tractor	6.4	25	800	Screw Terminals	2.75	300	80°	20°	
24663	24661	12	60	4511	PAR36	Tractor	6.2	30	2300	Screw Terminals	2.75	300	Trapezoidal		23
24673	24671	12	60	4515	PAR36	Pin Spot	6.4	30	55000	Screw Terminals	2.75	100	5°	5°	167
24678		12		4516	PAR36	Narrow Spot	6.2	30	45000	Screw Terminals	2.75	300	9°	4°	
24690		12		4519	PAR36	Marine	13.0	100	30000	Screw Terminals	2.75	25	40°	7°	
24700		12		4522	PAR46	Aircraft Landing	13.0	250	290000	Screw Terminals	3.13	25	12°	10°	92,138,167
24721		12		4530	PAR46	Signal, Flashing	26.0	139	100000	Screw Terminals	3.75	50	11°	11°	
24726		12		4531	PAR46	Headlamp, Military	12.5	40	30000	Screw Terminals	3.75	400	20°	5°	
19628		12		4532	PAR46	Aircraft	28.0/28.0	250/150	75000/14500	Screw Terminals	3.75	100/100	12°/16°	19°/19°	
24735	24733	12	24	4535	PAR46	Pin Spot	6.4	30	95000	Screw Terminals	3.75	100	20°	4°	167
24742	24735	12		4537	PAR46	Aircraft Landing	13.0	100	200000	Screw Terminals	3.13	25	11°	6°	167
40822		12		4537-2	PAR46	Spotlamp	13.0	100	200000	Screw Terminals	3.13	25	11°	6°	
39022		12		4537X	PAR46	Marine	13.0	100	200000	Screw Terminals	3.13	25	11°	6°	167
24756		12		4541	PAR56	Aircraft Landing	28.0	450	470000	Screw Terminals	4.50	25	15°	11°	167,302
24764		12		4543	PAR56	Marine	12.5	100	250000	Screw Terminals	4.50	50	9°	5°	
24768		12		4545	PAR56	Marine, Hand Lantern	12.0	100	225000	Screw Terminals	4.50	100	9°	5°	167
24780	24783	12	60	4546	PAR36	Hand Lantern	4.7	2	6300	Screw Terminals	2.75	100	3°	3°	
24770		12		4546-1	PAR36	Hand Lantern	4.7	2	6300	Slip-on Terminals	2.75	100	3°	3°	
24795		12		4551	PAR46	Aircraft Taxiing	28.0	250	75000	Screw Terminals	3.75	25	50°	10°	138
40576		12		4552	PAR46	Aircraft Landing	28.0	250	500000	Screw Terminals	3.75	25	7°	8°	138,167
24799		12		4553	PAR46	Aircraft Landing	28.0	250	300000	Screw Terminals	3.13	25	11°	12°	138,167
24802		12		4554	PAR46	Aircraft Taxiing	28.0	450	900000	Screw Terminals	3.13	25	50°	16°	302
40583		12		4555	PAR46	Aircraft Landing	115.0	1000	600000	Screw Terminals	3.75	25	20°	11°	138,302
40581		12		4557	PAR46	Aircraft Landing	28.0/28.0	1000/400	540000/100000	3 Screw Terminals	3.75	25/100	25°/100°	11°/72°	
40578		12		4559	PAR46	Aircraft Landing	28.0	600	600000	Screw Terminals	3.75	25	11°	12°	138,167
24828		12		4570	PAR46	Aircraft Taxiing	28.0	150	32000	Screw Terminals	3.75	300	50°	9°	
24830		12		4571	PAR46	CM Flood	28.0	150	7000	Screw Terminals	3.75	300	80°	25°	
24833		12		4572	PAR46	Military	28.0	150	4500	Screw Terminals	3.75	300	55°	55°	
35005	25007	12	24	4578	PAR46	CM Flood	28.0	60	1600	2 Contact Lugs	4.00	800	55°	30°	
35009		12		4579	PAR46	CM Headlamp	28.0/28.0	80/60	24000/11000	3 Contact Lugs	4.00	400/400	25°/77°	14°	
24859		12		4580	PAR46	Aircraft Landing	28.0	450	400000	Screw Terminals	3.75	10	13°	14°	302
24862		12		4581	PAR46	Aircraft Landing	28.0	450	400000	Screw Terminals	3.13	10	13°	14°	302
24853		12		4582	PAR46	Aircraft Flood	28.0	450	20000	Screw Terminals	3.75	10	50°	55°	302
24867		12		4587	PAR36	Aircraft Taxiing	28.0	250	40000	Screw Terminals	2.75	25 h	40°	13°	302
24873	24871	12	60	4589	PAR36	Aircraft Flood	28.0	50	5000	Screw Terminals	2.75	400	Trapezoidal		
23509		12	60	4589-1	PAR36	Aircraft Flood	28.0	50	5000	Slip-on Terminals	2.75	400	Trapezoidal		
24882		12		4591	PAR36	Aircraft Landing	28.0	100	90000	Screw Terminals	2.75	25 h	12°	6°	
24887		12		4593	PAR36	Aircraft Refueling	28.0	50	1500	Screw Terminals	2.75	400	80°	30°	
24891		12		4594	PAR36	Aircraft Navigation	28.0	100	70000	Screw Terminals	2.75	300	13°	7°	
24892		12		4595	PAR36	Aircraft Navigation	13.0	100	60000	Screw Terminals	2.75	300	14°	6°	
24898		12		4596	PAR36	Aircraft Landing	28.0	250	150000	Screw Terminals	2.75	25 h	11°	12°	302
24964		12		4626	PAR36	Aircraft Taxiing	28.0	150	25000	Screw Terminals	2.75	300	40°	9°	
24966		12		4627	PAR36	Aircraft Flood	28.0	100	3000	Screw Terminals	2.75	300	80°	30°	
33284		12		4635	PAR46	Aircraft Landing	16.5	450	325000	Screw Terminals	3.75	25 h	14°	15°	302
19632	16407	12	672	4636-3	PAR46	Emergency Vehicle	14.0	80	90000	Combination	3.75	200	9°	7.5°	
18517		6		4651	165mm	Headlamp-High beam	12.8	50	SAE	2 Contact Lugs	4.80	200			4,307
18518		6		4652	165mm	Headlamp-Low beam	12.8/12.8	40/60	SAE	3 Contact Lugs	4.80	200/120			4,307
39906	39907	12	60	4700	PAR36	Spot/Flood	13.0/13.0	100/100	100000/50000	3 Screw Terminals	2.75	25/250	12°/17°	7°/18°	
46427		12		4713	PAR36	Aircraft Logo	28.0	150	4200	Screw Terminals	2.75	300	50°	65°	
44724		12		4752	PAR36	CM Flood	28.0	60	2000	Screw Terminals	2.75	800	50°	25°	
24973		12		4800	PAR56	Military Headlamp	28.0/28.0	50/40	SAE	3 Contact Lugs	5.00	400/400			
24980		12		4811	PAR36	Military Headlamp	28.0/28.0	110/55	SAE	3 Contact Lugs	3.00	400/400			
24981	24982	12	60	4825R	PAR36	CM Spot/Tail, Red Lens	28.0/28.0	50/18	200/40	3 Screw Terminals	2.75	200/200			
24995		12		4880	PAR46	CM Headlamp	28.0	60	6000	2 Contact Lugs	4.00	800			
45110	45111	12	576	4912-1	165mm	Truck Fog	12.8	50	14000	Slip-on Terminals	4.53	300	40°	7°	167,307
45113		16		4913-1	165mm	Tractor Flood	12.8	50		Slip-on Terminals	4.53	400	80°	20°	4,307
45116	16195	12	576	4921-1	165mm	Truck	13.0	100	25000	Slip-on Terminals	4.53	300	40°	7°	109,307
11639		6		5001	PAR46	Headlamp-High beam	12.8	50		2 Contact Lugs	4.00	300			
16152		12		5557	PAR46	Aircraft Landing	28.0/28.0	1000/40	540000/100000	3 Screw Terminals	3.75	50/100	11°	15°	138,302
25114		12		6006	PAR56	Headlamp-High/Low beam	6.1/6.2	50/40	SAE	3 Contact Lugs	5.00	300/500			
18519		6		6014	PAR56	Headlamp-High/Low beam	12.8/12.8	60/50	SAE	3 Contact Lugs	5.00	320/150			4
39416	38607	12	432	6015	PAR56	Truck-High/Low beam	12.8/12.8	50/50	SAE	3 Contact Lugs	5.00	300/500			4
25153		12		6045	PAR56	Signal	26.0	170	230000	Screw Terminals	4.50	100	9°	8°	
18521	43867	6	448	6052	200mm	Headlamp-High/Low beam	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44	150/120			4,307
40190	40191	12	60	7400	PAR36	Signal-rotating beacon	12.8	35	33000	Slip-on Terminals	2.75	300	12°	5°	

Sealed Beam Lamps (continued)

Product Code		Quantity		GE Lamp No.	Bulb	Applications	Volts	Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP		Footnotes, Warning and Caution Notices
Unit	Bulk	Unit	Bulk										Horizontal	Vertical	
42385		12	60	7409-1	PAR36	Signal-rotating beacon	12.8	35	33000	Screw Terminals	2.75	300	12°	5°	
39987	39988	12	60	7414Y	PAR36	Signal-Amber Lens	12.8	18	1000	Screw Terminals	2.75	300	50°	25°	
41865	41866	12	60	7613	PAR36	Emergency Building Light	6.0	8	400	Screw Terminals	2.75	90	30°	20°	
45101	45102	12	60	7613-1	PAR36	Emergency Building Light	6.0	8	400	Slip-on Terminals	2.75	90	30°	20°	
11421	11422	12	60	7672-1	PAR36	Emergency Building Light	6.0	7	350	Slip-on Terminals	2.75	50	30°	20°	
22386		6		H4351	140mm	Headlamp-Low beam	12.8	55	SAE	Right Angle Lugs	4.00	500			307
10211		6		H4351LH	140mm	Auto export only	12.8	55		Right Angle Lugs	4.00	500			307
22387		6		H4352	140mm	Headlamp-High beam	12.8	65	SAE	Right Angle Lugs	4.00	150			307
18350		12	48	H4360	140mm	Tractor	12.8	38	2000	2 Right Angle Lugs	3.00	320	Trapezoidal		307
15129		12		H4405	PAR36	Very Narrow Spot	12.8	30	66000	Screw Terminals	2.75	100	7°	4°	167,307
17674		12	60	H4460K	PAR36	Tractor	12.8/12.8	40/40	11000/8500	3 Screw Terminals	2.75	320/320	22°/22°	10°/13°	4,307
15133		12		H4515	PAR36	Very Narrow Spot	6.4	30	67000	Screw Terminals	2.75	100	5.5°	4°	167,307
18532	45027	6	576	H4651	165mm	Headlamp-High beam	12.8	50	SAE	2 Contact Lugs	4.80	200			4,307
46375		6		H4651SB	165mm	Headlamp-High beam	12.8	50	SAE	2 Contact Lugs	4.80	200			4,307
18533	49810	6	576	H4656	165mm	Headlamp-Low beam	12.8/12.8	35/35	SAE	3 Contact Lugs	4.80	200/320			4,307
14753		6		H4656HO	165mm	Headlamp-Low beam	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80	200/700			4,307
45475		6		H4656SB	165mm	Headlamp-Low beam	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80	75/200			4,307
25098		6		H4656 NH	165mm	Headlamp Nighthawk™	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80				307
97695		6		H4656 NHS	165mm	Headlamp Nighthawk™ Sport	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80				307
18535	22879	6	576	H4666	165mm	Headlamp-High/Low beam	12.8/12.8	65/55	SAE	3 Contact Lugs	4.80	150/320			4,166,307
28157		6		H4666 NH	165mm	Headlamp Nighthawk™	12.8/12.8	65/55	SAE	3 Contact Lugs	4.80				166,307
97694		6		H4666 NHS	165mm	Headlamp Nighthawk™ Sport	12.8/12.8	65/55	SAE	3 Contact Lugs	4.80				166,307
18536	48533	6	480	H4701	150mm	Headlamp-High beam	12.8	65	SAE	2 Lugs	3.40	150			307
18538	48534	6	480	H4703	150mm	Headlamp-Low beam	12.8	55	SAE	2 Lugs	3.40	320			307
18522		6		H5001	PAR46	Headlamp-High beam	12.8	50	SAE	2 Contact Lugs	4.00	200			307
18523		6		H5006	PAR46	Headlamp-Low beam	12.8/12.8	35/35	SAE	3 Contact Lugs	4.00	200/320			4,307
19428	19559	6	432	H5024	PAR56	Truck-High/Low beam	12.8/12.8	65/42	SAE	3 Contact Lugs	5.00	400/2000			4,307
19411	19556	6	576	H5051	165mm	Truck-High beam	12.8	50	SAE	2 Contact Lugs	4.80	500			4,307
19429	19558	6	448	H5054	200mm	Truck-High/Low beam	12.8/12.8	65/42	SAE	3 Contact Lugs	5.44	400/2000			4,307
19412	19557	6	576	H5062	165mm	Truck-High/Low beam	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80	400/2000			4,307
41453	4448			H5360	140mm	Tractor Worklight	12.8	38	2000	2 Right Angle Lugs	3.00	900	Trapezoidal		307
18525		6		H6024	PAR56	Headlamp-High/Low beam	12.8/12.8	65/35	SAE	3 Contact Lugs	5.00	150/320			4,307
28153		6		H6024 NH	PAR56	Headlamp Nighthawk™	12.8/12.8	65/35	SAE	3 Contact Lugs	5.00				307
97693		6		H6024 NHS	PAR56	Headlamp Nighthawk™ Sport	12.8/12.8	65/35	SAE	3 Contact Lugs	5.00				307
18534	11545	6	448	H6054	200mm	Headlamp-High/Low beam	12.8/12.8	65/35	SAE	3 Contact Lugs	5.44	150/320			4,307
14752		6		H6054HO	200mm	Headlamp-High/Low beam	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44	150/700			4,307
45477		6		H6054SB	200mm	Headlamp-High/Low beam	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44	75/200			4,307
25097		6		H6054 NH	200mm	Headlamp Nighthawk™	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44				307
97692		6		H6054 NHS	200mm	Headlamp Nighthawk™ Sport	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44				307
43561	43562	12	60	H7550	PAR36	Hand Lantern	6.0	8	25000	Screw Terminals	2.75	50	3°	3°	307
	23541	60		H7550-1	PAR36	Hand Lantern	6.0	8	25000	Slip-on Terminals	2.75	50	3°	3°	307
43564	43565	12	60	H7551	PAR36	Emergency Building Lighting	6.0	8	550	Screw Terminals	2.75	50	30°	20°	307
43567		12		H7552	PAR36	Emergency Building Lighting	6.0	10	650	Screw Terminals	2.75	50	30°	20°	307
43570	43571	12	60	H7553	PAR36	Emergency Building Lighting	6.0	12	850	Screw Terminals	2.75	50	30°	20°	307
	43574	60		H7554	PAR36	Emergency Building Lighting	6.0	20	1400	Screw Terminals	2.75	50	30°	20°	307
44642	44643	12	60	H7555	PAR36	Emergency Building Lighting	12.0	8	550	Screw Terminals	2.75	50	30°	20°	307
44924	44925	12	60	H7556	PAR36	Emergency Building Lighting	6.0	6	400	Screw Terminals	2.75	50	30°	20°	307
12720	12721	12	60	H7557	PAR36	Emergency Building Lighting	12.0	12	850	Screw Terminals	2.75	50	30°	20°	307
42841	42842	12	60	H7600	PAR36	Signal, Rotating Beacon	12.8	38	60000	Screw Terminals	2.75	300	9°	4.5°	307
43576	43577	12	60	H7604	PAR36	Very Narrow Spot	12.8	50	100000	Screw Terminals	2.75	100	7°	5°	307
14616	48580	6	60	H7606	PAR36	Tractor Flood	12.8	50	1000	Screw Terminals	2.75	400	80°	30°	4,307
	17672	60		H7607	PAR36	Tractor Flood	12.8	65		Screw Terminals	2.75	600	Non-symmetrical		4,307
14617	43583	6	24	H7609	PAR46	Tractor Flood	12.8	50	2200	Screw Terminals	2.75	400	80°	20°	4,307
14618	43586	6	60	H7610	PAR36	Tractor	12.8	50	5200	Screw Terminals	2.75	400	Trapezoidal		4,307
49695		12		H7612	PAR46	Truck Fog	12.8	38	15000	Screw Terminals	2.75	450	40°	7°	307
49731	49732	12	60	H7614	PAR36	Wide Flood	12.8	50	2000	Screw Terminals	2.75	100	70°	30°	307
42838	42839	12	60	H7616	PAR36	Very Narrow Spot	12.8	38	70000	Screw Terminals	2.75	300	7°	4°	307
14619	43589	6	24	H7619	PAR46	Tractor	12.8	50	6000	Screw Terminals	2.75	400	Trapezoidal		4,307
	45058	24		H7621-1	PAR46	Truck	12.8	50		Slip-on Terminals	3.75	200	50°	7°	4,109,307
43591	43592	12	24	H7635	PAR46	Very Narrow Spot	12.8	50	160000	Screw Terminals	3.75	100	6.5°	4°	307
	18022	24		H7635X	PAR46	Spot, Shielded Filament	12.8	50	160000	Screw Terminals	3.75	100	6.5°	4°	167,307
	13426	16		H7921-1	165mm	Truck Special Service	12.8	50		Slip-on Terminals	4.53	200	35°	5°	4,109,307

Miniature and Sealed Beam Lamps

Sealed Beam Lamps (continued)

Product Code		Quantity		GE Lamp No.		Applications	Volts	Watts	MBSCP	Base	MOL (in.)	Rated Life (hrs.)	Spread to 10% MBEP		Footnotes, Warning and Caution Notices
Unit	Bulk	Unit	Bulk										Horizontal	Vertical	
47460	14892	6	16	H7935-1	165mm	Narrow Spot	12.8	50	175000	Slip-on Terminals	4.53	100	6.5"	3.5"	307
15767	15763	12	48	H9405	150mm	Spotlight	12.8	50	100000	2 Right Angle Lugs	3.00	100	7"	4"	307
15769	15768	12	48	H9406	150mm	Tractor Flood	12.8	50	1350	2 Right Angle Lugs	3.00	400	70"	30"	4,307
15771	15770	12	48	H9411	150mm	Tractor Trapezoidal Beam	12.8	50	5400	2 Right Angle Lugs	3.00	400	Trapezoidal		4,307
	15772		48	H9414	150mm	Tractor Flood	12.8	50		2 Right Angle Lugs	3.00	400	45"	20"	4,307
16484	16483	12	48	H9415	150mm	Truck Fog	12.8	38	12000	2 Right Angle Lugs	3.00	200	45"	5"	4,307
17988		12		H9415A	150mm	Truck Fog, Amber	12.8	38		2 Right Angle Lugs	3.00	200	45"	5"	4,307
16976	16978	12	48	H9420	150mm	Truck, Driving	12.8	50	47000	2 Right Angle Lugs	3.00	200	15"	5"	4,307
16482	16204	12	48	H9421	150mm	Truck, Special Service	12.8	50	4000	2 Right Angle Lugs	3.00	200	45"	8"	4,109,307
22109		12		Q4509	PAR36	Aircraft Landing	13.0	100	140000	Screw Terminals	2.75	100	7"	7"	301
37706		12		Q4554	PAR46	Aircraft Taxiing	28.0	450	65000	Screw Terminals	2.63	100	50"	11"	301
40579		12		Q4559	PAR64	Aircraft Landing	28.0	600	600000	Screw Terminals	3.75	100	12"	8"	138,301
42552		12		Q4559X	PAR64	Aircraft Landing	28.0	600	765000	Screw Terminals	3.75	100	11"	7.5"	139,301
41097		12		Q4566	PAR46	Aircraft Logo	28.0	450	150000	Screw Terminals	3.32	1000	16"	12"	301
37372		12		Q4597	PAR46	Aircraft Flood	28.0	450	16000	Screw Terminals	3.32	1000	60"	35"	301
40577		12		Q4629	PAR64	Aircraft Logo	28.0	600	20000	Screw Terminals	4.81	1000	55"	35"	301
34537		12		Q4631	PAR36	Aircraft Landing	13.0	250	80000	Screw Terminals	2.75	500	13"	12"	301
39112		12		Q4632	PAR36	Aircraft Logo	13.0	250	75000	Screw Terminals	2.75	500	14"	12"	301
36271		12		Q4681	PAR46	Aircraft Landing	28.0	450	310000	Screw Terminals	2.63	50	15"	9"	301
41452		12		Q5551	PAR46	Aircraft Taxiing	28.0	250	60000	Screw Terminals	3.32	100	48"	12"	301
16784		12		Q5559	PAR64	Aircraft Landing	28.0	600	650000	Screw Terminals	3.75	200	11"	7.5"	138,301
29130	22227	12	60	Q7558	PAR36	Landscape Lighting	12.0	18	365	Screw Terminals	2.75	5000	55"	45"	301
28113		12		Q7559	PAR36	Landscape Lighting	12.0	18	120	Screw Terminals	2.75	5000	70"	70"	301
28111		12		Q7560	PAR36	Landscape Lighting	12.0	18	1900	Screw Terminals	2.75	5000	24"	23"	301
28874		12		Q7561	PAR36	Landscape Lighting	12.0	18	11000	Screw Terminals	2.75	5000	9"	8"	301

Footnotes

- 1 Special ballast required per ECE R99.
- 2 B3 life, not average life.
- 4 Life at 14 volts.
- 10 Life at 5 volts.
- 11 Filament vertical.
- 12 Average overall length.
- 13 Filament supported.
- 14 This lamp may not be suitable for some uses because of its excessive wattage requirements for the bulb size.
- 15 This lamp may not be suitable for some uses because of its limited mechanical strength.
- 17 Filament shielded.
- 23 Life at 7 volts.
- 32 Designed and rated for operation in supplementary cathode preheat circuits.
- 33 Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.
- 44 Life at 6.6 volts.
- 78 ANSI specifies .38" LCL and .63" MOL.
- 79 Life shown is AC voltage only. DC life will be approx. 50% of AC.
- 80 Light output is approx. end foot candles, not spherical MSCP.
- 92 Filament segments parallel.
- 109 Special fixture required for highway use.
- 110 To be used with variable load flasher in applications where bulb outdate indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
- 113 This is a flange seal wire terminal lamp. When unbased lamps such as these are handled and wired into a device, damage can be kept to a minimum by allowing sufficient clearance so that no physical strain or excessive heat is placed on the exhaust tube, exhaust tube tip, or glass seal; by taking care in mounting lamp in equipment so that any material touching the glass is compatible in thermal expansion; and by avoiding excessive tensile strain on the lead wires.
- 116 Life tests are performed on DC voltage only.
- 121 To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
- 122 This is a wire terminal lamp. The glass-to-metal seal (and tip where applicable) are susceptible to damage by thermal shock, and soldering or welding within 1/8" of the glass should be avoided as glass cracks and air leaks may develop. Solderability may be adversely affected by storage for an extended period in excess of six months or by storage in a high-humidity environment. Lamps with tinned leads would be subject to these storage restrictions. Nickel-plated leads are not recommended for soldering; however, their ability to be welded is not affected by these storage restrictions.
- 124 .028" metal pins spaced 44mm (.157") apart. GE's two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.
- 128 Output is minimum 1/4" spot at .100" from bulb top.
- 132 Paint may peel, craze or discolor when subjected to excessive moisture, heat, and freezing in housings with plugged drain holes or which otherwise leak or trap moisture.
- 138 Life Test Conditions: Cycled 5 minutes on, 5 off.

Footnotes (continued)

- 139 Life Test Conditions: Cycled 20 minutes on, 20 off.
- 147 Differs from ANSI.
- 160 Filament will generate specified MSCP in a non-shielded bulb.
- 162 Life based on three hours of burning per start. MSCP at 100 hours. Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary

equipment specially designed to produce proper electrical values according to established specification. For total load, add auxiliary watts to lamp watts.

- 166 Contact Lugs are angled.
- 167 Filament shielded.

Warning and Caution Notices

301

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

302

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid contact with glass during operation
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product

304

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken

- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

For Best Performance

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

305

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp

306

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

307

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

Miniature and Sealed Beam Lamps

Warning and Caution Notices (continued)

308

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

For Best Performance

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

309

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

310

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Risk of fire

- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position

- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
 - Do not turn on lamp until fully installed
 - Turn power off before installing lamp
- Lamp may rupture if used on wrong ballast
- Use only properly rated ballast

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Remove and install by grasping only plastic portion of the lamp
- Do not use excessive force when installing lamp

INSTRUCTIONS

FDA Warning

WARNING – This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30.

Hg – LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: www.lamprecycle.org or 1-800-435-4448

Lamp should be installed by an automotive service specialist.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

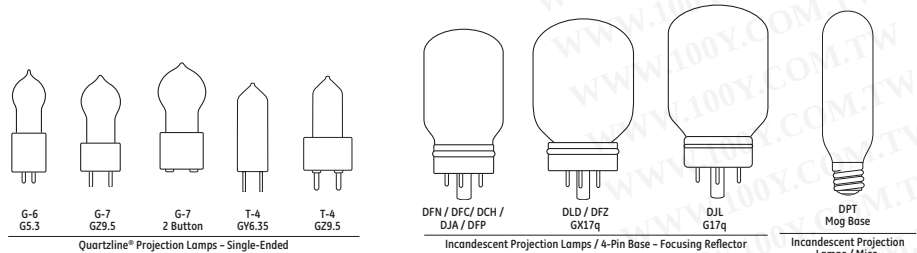
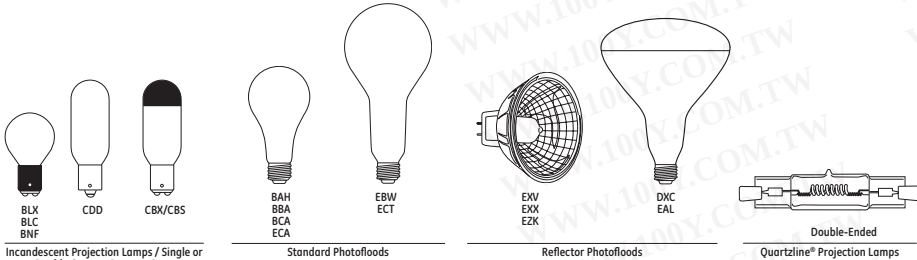
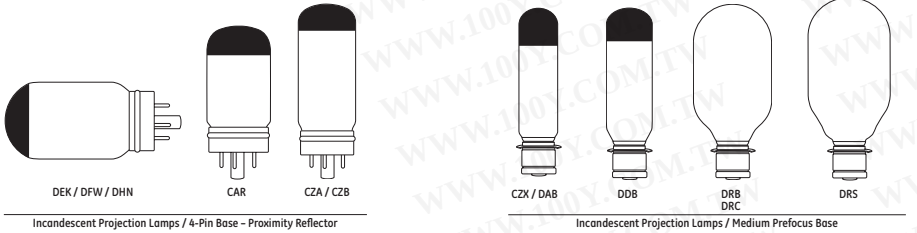
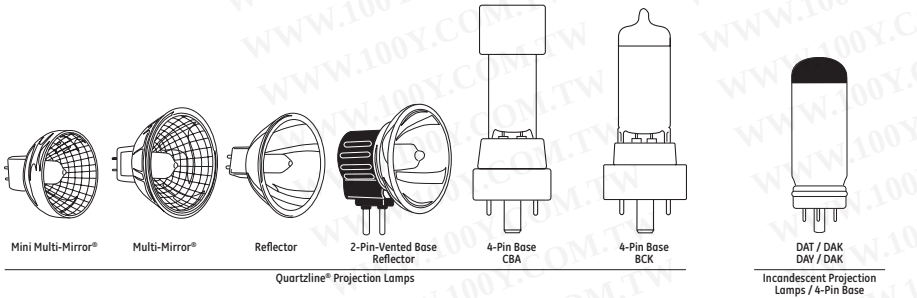
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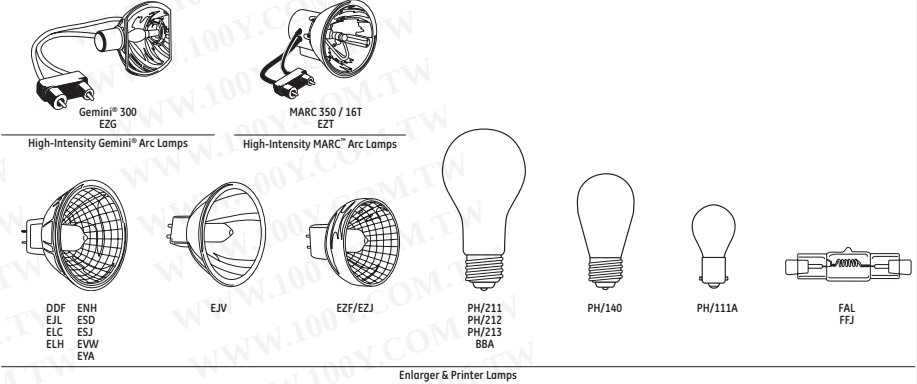
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Projection Lamps

Lamp Locator

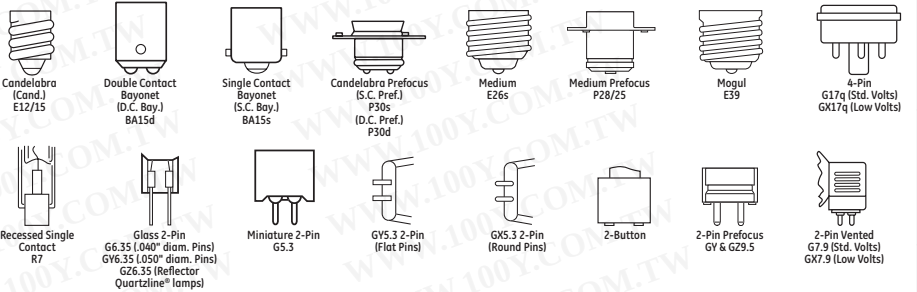


Lamp Locator (continued)



Base Identification

Typical bases used on Projection lamps in this catalog are shown below along with their names and common abbreviations. Where the base is an ANSI standard type, the ANSI reference code (which is the same as the IEC base code) is also shown. ANSI reference codes conform to American National Standard C81.10, C81.30, C81.50 specifications for electric lamp bases and lampholders. Illustrations are not to scale.



Light Center Length (LCL)

Light center length is the distance from the center of the light source to the point indicated below for the lamp base used. It is a measurement to which the lamp is designed and is subject to the manufacturer's tolerances.

Base Type	LCL Reference
All Screw Bases	Bottom base contact
Medium Prefocus	Top of base fins
S.C. or D.C. Bayonet	Top of base pins
2-Pin Prefocus	Bottom of base ceramic
Miniature 2-Pin	Bottom of base pins
Glass 2-Pin	Bottom of base pins
2-Button	Top of ceramic base to top of filament coil

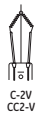
Base Type	LCL Reference
2-Pin Vented	Bottom of base ceramic to lamp optical axis
4-Pin	Bottom edge of base cup
Locking 4-Pin	Bottom edge of base cup
S.C., or D.C. Candelabra Prefocus	Plane of locating bosses on prefocus collar

Projection Lamps

Filament Identification

The configuration of the filament in all tungsten filament lamps (including Quartzline®) is identified by a prefix letter and a suffix number. The prefix letter indicates whether the filament wire is a

single coil (C) or a coiled coil (CC). The suffix number indicates the form or arrangement of the filament coil or coils on its support structure. Illustrations are not to scale.



C-2V
CC-2-V



C-9



2C-8
2CC-8



C-13



C-13D



C-6 Oval



C-6
CC-6



C-8
CC-8

Introduction

General Electric Projection Lamps are designed for a wide variety of applications...and now extending well beyond the original picture-taking and audio-visual projection uses into such fields as: fiber optical systems, graphic arts, video camera lights, airport runway markers, micrographics, photo printers and enlargers, medical/scientific instruments and many others.

The information contained in this section is designed to provide end-users, equipment manufacturers and lamp distributors and dealers with:

- Essential technical data on GE Projection Lamps (Quartzline®, Incandescent, MARC™ and Photoflood)
- Suggested substitutes for improved performance or discontinued lamps

The majority of Projection Lamps described herein are characterized by:

- Precisely manufactured, tailored filaments maximizing source brightness, optimum performance in precision optical devices

- High light-generating efficacy (lumens per watt)...to help minimize power requirements and heat generation
- Prefocus type bases, or rim-reference mounting for Multi-Mirror® lamps...to position the filament accurately in relation to the associated optics
- Design life Rated Life (per ANSI Standard)
- Lamps with internal or external reflectors (as in Multi-Mirror® and some 4-pin projection lamps) permitting high-efficiency illumination system designs with a minimum of additional optical control elements

Manufacturers and designers of equipment requiring lamps should select lamps of established design whenever possible for maximum economy, as well as for ease of replacement by their customers through regular trade channels. General Electric offers application engineering assistance to all customers for applying lamps in product design. Contact your local GE Lamp Representative for additional information or assistance.

Warning and Caution Notices Information

As with any product, certain precautions should be observed in the handling and use of GE Projection Lamps to provide optimum

performance and safety. These are given in the Caution Notices that are printed on page 10-12.

Important Notice

This catalog contains accumulated data to March 2008. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular application or use in any particular equipment, nor are our representatives authorized to make any such representations or give any such warranties.

Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such changes will improve its products.

General Information

General Electric Projection Lamps are briefly described in the ANSI lamp index (pages 10-6–10-7). More extensive descriptive and performance data are found in the lamp tables, which are organized as “families” of lamps with one or more features in common – such

as Multi-Mirror® Quartzline®, Single-Ended Quartzline®, 4-Pin Based Incandescent, Photoflood, etc. Within each table, lamps are listed alphabetically by GE Lamp Code.

GE Multi-Mirror® Quartzline® Projection Lamps

Invented By GE For Optimized Projection System Performance, the Multi-Mirror® and its new companion, the Mini Multi-Mirror®, are reflector halogen Quartzline® lamps with innovative GE features that

result in better system efficiency, screen uniformity, lamp-to-lamp consistency and relamping convenience.

Feature	Benefit	Applications
• Dichroic reflector	• Cool light beam • Efficient light reflection	• Slide Projection • Front/Rear Screen Projection
• Precise rim reference • Accurate snap-in alignment • Faceted reflector	• Quick lamp installation	• Microfilm • Overhead Projection
• Halogen Quartzline® lamp	• Efficient beam for brighter image • Uniform screen image • Precision beam control • Whiter and brighter light • No bulb blackening/blistering • Constant light output through life • Stable color temperature	• 16mm Movie • 8mm Movie • Film Strip • Enlargers/Printers • Fiber Optics • Medical/Scientific Instruments • Video Camera Lights • Airport Runways • Display

Each GE Multi-Mirror® lamp type is optically tailored to its application. First, the appropriate type of multi-faceted reflector is determined. Then a filament tube developed, using advanced

Quartzline® technology. Finally, the two are combined, using sophisticated, computerized precision-assembly techniques. The result – consistently high performance...lamp after lamp after lamp.

Projection Lamps

ANSI Coded GE Projection Lamps Index

Order Code	Description	Watts	Volts	Bulb Shape	Base	Table No.	Page No.
BAB USE Q20MR16CG408AB							
10933	BAB/PH	20	12	MR16	GX5.3 2-Pin	3	9
40886	BAH	300	115	A21	Medium	18	11
40563	SBA	250	118	A21	Medium	18	11
40564	BCA	250	118	A21	Medium	18	11
46178	BCK	500	120	T6	G17q 4-Pin	6	10
40568	BHB	250	120	MR14	G7 9 2-Pin	5	10
BHC USE DVS/DVW/BHC							
29340	BLC	30	118	S11	D.C. Bay	15	11
30232	BLK	30	125	S11	Cand.	18	11
29156	BLX	50	118	S11	D.C. Bay	15	11
32137	BNF	75	120	S11	D.C. Bay	15	11
29604	BRH	1000	120	T5	R7s	9	10
18234	BRL	50	12	T3.5	G6.35 2-Pin	7	10
30421	BXB	34	8.5	T8	S.C. Pref.	16	11
29525	CAL	300	120	T10	G17q 4-Pin	11	10
29380	CAR	150	120	T10	G17q 4-Pin	11	10
29171	CAX	50	118	T8	D.C. Bay	15	11
29169	CAX	50	130	T8	D.C. Bay	15	11
CBS USE CBX/CBS							
29208	CBX/CBS	75	118	T8	D.C. Bay	15	11
29257	CDD	100	120	T8	S.C. Bay	14	11
29266	CDJ	100	118	T8	D.C. Bay	15	11
29244	CEB	100	118	T8	D.C. Bay	15	11
43330	CEM	120	120	T8	S.C. Bay	14	11
29664	CZA/CZB	500	120	T10	G17q 4-Pin	11	11
CZB USE CZV/CZB							
29677	CZV/CZB	500	120	T10	Med. Pref.	13	11
DAB USE CZV/DAB DAK USE DAT/DAK							
40214	DAT/DAK	400	120	T10	G17q 4-Pin	10	10
29695	DAV/DAK	500	120	T10	G17q 4-Pin	10	10
29360	DCA	150	21	T12	GX17q 4-Pin	12	11
29364	DCH/DJA/DFP	150	120	T12	G17q 4-Pin	12	11
43537	DOL	150	20	MR16	GX5.3 2-Pin	3	9
43206	DOM	80	19	MR16	GX5.3 2-Pin	3	9
43988	DOS	80	21	MR16	GX5.3 2-Pin	3	9
43950	DED	85	13.8	MR16	GX5.3 2-Pin	3	9
29737	DEK/DFW/DHN	500	120	T12	G17q 4-Pin	11	10
DFC USE DFN/DFC							
36122	DFE	80	30	T12	GX17q 4-Pin	12	11
29386	DFN/DFC	150	125	T12	G17q 4-Pin	12	11
DFP USE DHC/DJA/DFP DFW USE DEK/DFW/DHN DFZ USE OLD/DFZ DHW USE DEK/DFW/DHN DHL USE DLS/DLG/DHX DJA USE DHC/DJA/DFP							
29138	DIL	150	120	T14	G17q 4-Pin	12	11
44854	DJT	50	11.8	MR16	GX5.3 2-Pin	3	9
40216	DLD/DFZ	80	30	T14	GX17q 4-Pin	12	11
DLG USE DLS/DLG/DHX							
29366	DLS/DLG/DHX	150	22	T14	GX17q 4-Pin	12	11
40161	DNE	150	120	MR16	G7 9 2-Pin	5	10
39742	DNF	150	21	MR16	GX7 9 2-Pin	5	10
29959	DPT	1000	120	T20	Mogul	17	11
29968	DRB	1000	118	T20	Med. Pref.	13	11
29947	DRS	1000	120	T20	Med. Pref.	13	11
30304	DVY	650	120	G6	G5.3 2-Pin	7	10
30151	DXB	500	120	R40	Medium	19	11
30145	DXC	500	120	R40	Medium	19	11
36952	DXX	800	230	T4	R7s	9	10
36953	DXX	800	240	T4	R7s	9	10
30364	DYH	600	120	G7	G5.3 2-Pin	7	10
32071	DYP	600	120	G7	2-Button	7	10

Order Code	Description	Watts	Volts	Bulb Shape	Base	Table No.	Page No.
33248	DYR	650	220	G7	G29.5 2-Pin Pf	7	10
33250	DYR	650	240	G7	G29.5 2-Pin Pf	7	10
32955	DYS/DVW/BHC	600	120	G7	G29.5 2-Pin Pf	7	10
DVY USE DVS/DVW/BHC							
19479	DVS-5	600	120	G7	G29.5 2-Pin Pf	7	10
37346	DZA	30	10.8	T3.5	G5.3 2-Pin	7	10
37695	DZE/FDS	150	24	T4	G29.5 2-Pin Pf	7	10
30202	EAJ	35/25	12	T6.4	D.C. Bay	15	11
30281	EAL	500	120	R40	Medium	19	11
40566	EBV	500	118	PS25	Medium	18	11
40567	EBW/PHB2	500	118	PS25	Medium	18	11
40565	ECA	250	120	A23	Medium	18	11
40568	ECT	500	120	PS25	Medium	18	11
21276	EFM	50	8	MR16	G26.35 2-Pin	3	9
21277	EFN	75	12	MR16	G26.35 2-Pin	3	9
21278	EFF	100	12	MR16	G26.35 2-Pin	3	9
21279	EFR	150	15	MR16	G26.35 2-Pin	3	9
37527	EHA	500	120	T6	G29.5 2-Pin Pf	7	10
14874	EJH	250	24	T4	G6.35 2-Pin	7	10
32882	EJA	150	21	MR16	GX5.3 2-Pin	4	9
29150	EJL	200	24	MR16	GX5.3 2-Pin	3	9
29151	EJM	150	21	MR16	GX5.3 2-Pin	3	9
EJM USE ELD/EJM							
32831	EJV	150	21	MR16	GX5.3 2-Pin	4	9
32886	EJV	80	19	MR16	GX5.3 2-Pin	4	9
35200	EKE	150	21	MR16	GX5.3 2-Pin	3	9
35800	EKP/ENA	80	30	MR16	GX5.3 2-Pin	3	9
EKS USE EMM/EKS							
36899	EKK	200	24	MR16	GX5.3 2-Pin	3	9
36902	EKZ	30	10.8	MR16	GX5.3 2-Pin	3	9
37462	ELC	250	24	MR16	GX5.3 2-Pin	3	9
15377	ELC/SDO	250	24	MR16	GX5.3 2-Pin	3	9
22023	ELC/C	250	24	MR16	GX5.3 2-Pin	3	9
38306	ELD/EJM	150	21	MR16	GX5.3 2-Pin	3	9
38476	ELH	300	120	MR16	GX5.3 2-Pin	3	9
ELR USE ELS/ELR							
41885	ELS/ELR	50	18	MR14	GX7 9 2-Pin	5	10
42612	EML	175	24	T4	G5.3 2-Pin	7	10
40017	EMM/EKS	250	24	MR14	GX7 9 2-Pin	5	10
ENA USE EKP/ENA ENC USE ENW/ENC							
38686	ENH	250	120	MR16	GX5.3 2-Pin	3	9
25475	ENL	50	12	MR16	GX5.3 2-Pin	3	9
40248	ENW/ENC	80	19	MR16	GX5.3 2-Pin	3	9
41705	ENX	360	82	MR16	GX5.3 2-Pin	3	9
19475	ENX-5	360	86	MR16	GX5.3 2-Pin	3	9
40598	ENZ	50	30	MR16	GX5.3 2-Pin	4	9
41430	EPN	35	12	MR16	GX5.3 2-Pin	3	9
41729	EPT	42	10.8	MR16	GX5.3 2-Pin	3	9
41882	EPV	90	14.5	MR16	GX5.3 2-Pin	3	9
42614	EPX	90	14.5	MR16	GX5.3 2-Pin	3	9
41874	ERV	340	36	MR16	GX5.3 2-Pin	3	9
43756	ESD	150	120	MR16	GX5.3 2-Pin	3	9
11698	ESJ	85	82	MR16	GX5.3 2-Pin	3	9
11322	ETJ	250	120	MR16	GX5.3 2-Pin	3	9
38111	ETT	1000	120	T5	R7s	9	10
41164	EVD	400	36	T6	GX6.35 2-Pin	7	10
10099	EVV	120	6.6A	T4	G29.5 2-Pin	8	10
11110	EVW	250	82	MR16	GX5.3 2-Pin	3	9
11427	EWV	150	6.6A	T4	G29.5 2-Pin	8	10
11478	EXL	30	6.6A	T3.5	G29.5 2-Pin	8	10
11482	EXM	45	6.6A	T3.5	G29.5 2-Pin	8	10
12092	EXR	300	82	MR13	GX5.3 2-Pin	2	9
12003	EXV	100	12	MR16	GX5.3 2-Pin	3	9

ANSI Coded GE Projection Lamps Index (continued)

Order Code	Description	Watts	Volts	Bulb Shape	Base	Table No.	Page No.
ENA USE EKP/ENA ENC USE ENW/ENC (continued)							
12095	EXW	300	82	MR13	GX5.3 2-Pin	2	9
11750	EXX	250	120	MR16	GX5.3 2-Pin	3	9
12097	EXY	250	82	MR13	GX5.3 2-Pin	2	9
12696	EYB	360	82	T3.5	G5.3 2-Pin	7	10
19322	EYB-5	360	86	T3.5	G5.3 2-Pin	7	10
13617	EYH/FKT	250	120	G6	G5.3 2-Pin	7	10
41783	EZA/A	32	6.6A	MR16	Wire Term.	3	9
23071	EZC	45	6.6A	MR16	GX5.3 2-Pin	3	9
15832	EZF/EZJ	225	68	MR13	GX5.3 2-Pin	2	9
EZJ USE EZF/EZJ							
15477	EZK	150	120	MR16	GX5.3 2-Pin	3	9
15243	EZL	200	6.6A	T4	G29.5 2-Pin	8	10
29581	FAL	420	120	T4	R7s	9	10
FBD USE FBG/FBD							
33663	FBG/FBD	500	120	G6	G5.3 2-Pin	7	10
29598	FCB	600	120	T4	R7s	9	10
14876	FCR	100	12	T3	GX6.35 2-Pin	7	10
13598	FCS	150	24	T4	G6.35 2-Pin	7	10
FDS USE DZE/FDS							
35321	FDT	100	12	T3	G29.5 2-Pin Pf	7	10
36878	FDV	150	24	T4	G6.35 2-Pin	7	10
29592	FFJ	600	120	T4	R7s	9	10
30276	FFM	420	120	T4	R7s	9	10
47614	FHS	300	82	MR13	GX5.3 2-Pin	2	9
47914	FHX	25	13.8	MR16	GX5.3 2-Pin	3	9
FKT USE EVH/FKT							
30894	FLS	28	12	MR11	G24 2-Pin	1	9
25261	FLT	28	13.8	MR11	G24 2-Pin	1	9
19886	FLW	300	24	T4	GX6.35 Ceramic	7	10
14887	FML	50	13.8	MR16	GX5.3 2-Pin	3	9
18241	FNT/DOO	275	24	T4	G6.35 2-Pin	7	10
21613	FXL	410	82	MR16	GX5.3 2-Pin	3	9
80853	GCA	250	120	T3.5	G5.3	7	10
11134	GEMINI 300IE2G	300	35	PAR20	Special 2-Pin Plug	21	11
39936	HARC 350-16T EZT	350	45	PAR24	Special 2-Pin Plug	21	11
30162	PH111A	75	125	S11	S.C. Bay	20	11
43220	PH140	75	120	S14	Medium	20	11
40569	PH211	75	120	A21	Medium	20	11
40570	PH212	150	120	A21	Medium	20	11
40571	PH213	250	120	A21	Medium	20	11

Projection Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Projection lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by ANSI code.

Bulb Shape:

Projection Lamp bulb designations use a combination of letters and numerals to indicate bulb shape and maximum diameter in eighths of an inch. For example: a "T12" bulb is Tubular-shaped and twelve-eighths of an inch, or 1-1/2" in diameter. Illustrations of typical Projector Lamps and their respective bulb designations are shown in the tables of lamp families, pages 10-2 - 10-3.

Base:

Projection Lamp base illustrations appear on page 10-4, along with their common trade names and abbreviations, plus their letter-number ANSI/IEC designations where applicable.

Watts (or Amps):

This column shows the rated power consumption (watts) of the lamp at its design voltage. A few lamps, in Table 8, are rated in terms of current (amperes) drawn initially at their rated voltage. The watts shown for the lamps in Table 8 are the approximate initial values for operation at rated amperes.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description:

This is a 3-letter or letter-number code uniquely identifying the lamp for ordering purposes. In some instances, lamps with 3-letter (ANSI) codes are offered in more than one design voltage, in which case the voltage required should also be specified when ordering.

Volts:

The voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps are available only in the design voltage(s) shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required (supply voltage variation can significantly affect lamp life).

Case Quantity:

Number of product units packed in a case.

Filament Design:

Typical filament configurations for Projection Lamps are shown on page 10-4, along with an explanation of the filament designation system.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Color Temp. K	CBCP	Burn Position	Additional Information	Warning and Caution/ Footnote	Typical Working Distance	Source Size (W x H)
Quartzline® Multi-Mirror® Reflectors																		
MR-11 Faceted Dichroic Reflector, 1-3/8" Diameter (35mm), Table 1.																		
MR11	G24 2-Pin	28	30894	FLS	12	10	CC-6	1.38		1000		3000		HD	Microfilm	A		

FLS

ANSI Code.

ANSI Codes:

These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps.

Multiple-ANSI-Coded Projection Lamps:

Some GE Projection Lamps have an ordering code comprising two or more 3-letter ANSI codes - such as EM/EKS and DYS/DW/BHC. The first code is the ANSI code, the secondary codes identify the multiple-coded lamp can directly replace. Only the first code appears on the lamp itself. Multiple-coded lamps are so designated by General Electric for the convenience of the customer.

Light Center Length (LCL):

This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 10-4 for the various styles of lamp bases.

Rated Life:

Life ratings of Projection Lamps are based on closely controlled laboratory tests of lamps, at their rated voltage, over a long period of production time. Rated Life is not necessarily the same as service life; mechanical shock and vibration, voltage fluctuation, temperature and other environmental factors may result in shorter service life. As with any median value, some individual lamps will operate longer and some will operate shorter, than their Rated Life (supply voltage variation can significantly affect lamp life).

Initial Lumens:

The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or minimum of 2 hours) or more of their rated average life.

Color Temperature:

The radiation within the visible spectrum from tungsten filament lamps is similar in spectral distribution to that from a "blackbody" at specific color temperatures. The Color Temperatures shown are approximate initial values in degrees Kelvin (K) for lamps operated at rated voltage.

CBCP (Center Beam Candlepower):

For reflector type lamps: Center Beam Candlepower is the intensity (candela) at the center or maximum intensity of the beam.

Operating Position:

For good performance, lamps must be used within specified limitations on operating position. The following abbreviations are used in the lamp tables to indicate these limits: BD = Base Down. Operate only vertical, base down. HD = Base Down to Horizontal. Do not operate base above horizontal. H22 = Operate base down to 22° base up. U = Operate in any position.

Warning and Caution/Footnote:

See page 10-12 for explanation.

Additional Information:

Typical application and/or other important information.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Burn Position	Additional Information	Warning and Caution/ Footnote	Typical Working Distance	Source Size (W x H)		
Quartzline® Multi-Mirror® Reflectors																				
MR-11 Faceted Dichroic Reflector, 1-3/8" Diameter (35mm), Table 1																				
MR11	G24 2-Pin	28	30894	FLS	12	10	CC-6	1.38		1000		3000		HD	Microfilm	A				
			25261	FLT	13.8	10	CC-6	1.38		500		3050		HD	Microfilm	A				
MR-13 Faceted Dichroic Reflector, 1-2/3" Diameter (42mm), Table 2																				
MR13	GX5.3 2-Pin	300	12092	EXR	82	20	CC-8	1.75		35		3350		HD	Slide Projection	A	6.00			
			12095	EXW	82	20	CC-8	1.75	15		3450		HD	Slide Projection	A	6.00				
			12097	EXY	82	20	CC-8	1.75	200		3200		HD	Slide Projection	A	6.00				
			225	15832 (EZF/EZJ)	68	20	CC-8	1.75	350				HD	Color Printer	A, R					
			300	47614	FHS	82	20	CC-8	1.75	70		3300		HD	Slide Projection	A	6.00			
MR-16 Faceted Dichroic Reflector, 2" Diameter (51mm), Table 3																				
MR16	GX5.3 2-Pin	20	10933	BAB/PH	12	20	C-6	1.88		2000		2900		HD	Flood	A	5.00			
		150	43537	DDL	20	20	C-6	1.75	500		3150		HD	Microfilm	A	7.75				
		80	43206	DDM	19	20	CC-6	1.75	50		3350		HD	Slide Projection	A	6.00				
		80	43988	DOS	21	20	CC-6	1.75	1000		3125		HD	Microfilm	A	6.50				
		85	43950	DED	11.8	20	C-6	1.75	1000		3150		HD	Microfilm	A	6.50				
		50	44854	DJT	13.8	20	CC-6	1.75	1000		3150		HD	Microfilm	A	6.00				
	G26.35 2-Pin	50	21276	EPN	8	20	C-6	1.75	50		3300		HD	8mm Projection	A	1.25				
		75	21277	EPN	12	20	CC-6	1.75	50		3350		HD	8mm Projection	A	1.25				
		100	21278	EPF	12	20	CC-6	1.75	50		3350		HD	8mm Projection	A	1.25				
		150	21279	EPF	15	20	CC-6	1.75	50		3350		HD	8mm Projection	A	1.25				
		200	29150	EJL	24	20	CC-6	1.75	50		3400		HD	16mm, Color Printer	A	1.25				
		150	29151	EJM	21	20	CC-6	1.75	40		3350		HD	8mm Projection	A	1.50				
	GX5.3 2-Pin	150	35200	EKE	21	20	CC-6	1.75	250		3250		3750		HD	8mm Projection, Fiber Optics	A	1.75		
		80	35800	EKP/ENA	30	20	CC-6	1.75	25		3350		3750		HD	8mm Projection	A	1.75		
		200	36899	EKX	24	20	CC-6	1.75	25		3400				HD	Microfilm	A	5.50		
		30	36902	EKZ	10.8	20	C-6	1.75	200		3100				HD	16mm Projection	A	1.50		
		250	37462	ELC	24	20	CC-6	1.75	50		3400				HD	Fiber Optics, Color Printer	A	1.25		
		250	22023	ELC/C	24	20	CC-6	1.75	50		3400				HD	Fiber Optics, Color Printer	A	1.25		
		250	15377	ELC/S00	24	20	CC-6	1.75	500		3350				HD	Fiber Optics, Disco	A	1.25		
		150	38306	ELD/EJN	21	20	CC-6	1.75	40		3350				HD	Microfilm	A	6.50		
		300	38476	ELH	120	20	CC-8	1.75	35		3350				HD	Slide Projection	A	6.00		
		250	38686	ENH	120	20	CC-8	1.75	175		3250	11700			HD	Slide Projection	A	6.00		
	GX5.3 2-Pin	50	25475	ENL	12	20	C-6	1.75	4000		3050				HD	Fiber Optics, Display Lighting	A	1.50		
		80	40248	ENW/ENC	19	20	CC-6	1.75	200		3200				HD	8mm Projection	A	1.75		
		360	41705	ENX	82	20	CC-8	1.75	75		3300				HD	Overhead Projection	A	11.75		
			19475	ENX-5	86	20	CC-8	1.75	75		3300				HD	Overhead Projection	A			
		GX5.3 2-Pin	35	41430	EPN	12	20	C-6	1.75	50		3300				HD	8mm Projection	A	1.13	
			42	41729	EPT	10.8	20	C-6	1.75		10000		2900			HD	Fiber Optics	A	1.50	
	MR16	GX5.3 2-Pin	90	41882	EPV	14.5	20	CC-6	1.75		500		3150		HD	Microfilm	A	6.13		
			42614	EPX	14.5	20	CC-6	1.75		500		3150		HD	Microfilm	A	6.50			
			340	41874	ERV	36	20	CC-8	1.75	75		3300				HD	Overhead Projection	A	11.75	
			150	43756	ESD	120	20	CC-8	1.75		12		3350			HD	Enlarger, Projection	A	1.75	
			85	11698	ESJ	82	20	CC-8	1.75		40		3350			HD	Enlarger, Projection	A	1.75	
			250	11322	ETJ	120	20	CC-8	1.75		175		3300			HD	Fiber Optics	A	1.50	
		GX5.3 2-Pin	250	11110	EWV	82	20	CC-8	1.75	50		3300		H22		HD	Overhead Projection	A	11.75	
			100	12003	EWV	12	20	CC-6	1.75	50	3100	3350	3100	U		Camera Light	A			
250			11750	EXX	120	20	CC-8	1.75	25	6750	3300	6750	U		Camera Light	A				
Wire Term.			32	41783	EZA/A	6.6A	20	C-8	1.75	1000		2900	4500	HD	Airport	A				
GX5.3 2-Pin			45	23071	EZC	6.6A	20	C-8	1.75	1000		2950		HD	Airport	A				
GX5.3 2-Pin			150	15477	EZK	120	20	CC-8	1.75	200		3200	3600	U		Camera Light	A			
GX5.3 2-Pin	25	47914	FHX	13.8	20	CC-6	1.75	250		3200				HD	Microfilm	A	4.13			
	50	14887	FML	13.8	20	CC-6	1.75	1000		3150				HD	Microfilm	A	8.44			
	GX5.3 2-Pin	410	21613	FXL	82	20	CC-8	1.75	38		3300			HD	Overhead Projection	A	11.75			
	2-Pin w/Leads	150	25137	Q150MR 16-15/LEADS	15	20	C-8	1.88	150		3400			HD		A	1.75			
Quartzline® Reflector Lamps																				
MR-16 Smooth Dichroic Reflector, 2" Diameter (51mm), Table 4																				
MR16	GX5.3 2-Pin	150	32882	EJA	21	20	CC-6	1.75		40		3350		HD	Fiber Optics	A	1.10			
		150	32831	EJV	21	20	CC-6	1.75		40		3350		HD	8mm Projection Printer	A	1.75			
		80	32886	EJV	19	20	CC-6	1.75		25		3400		HD	Fiber Optics	A	1.50			
		50	40598	ENZ	30	20	CC-6	1.75		25		3450		HD	8mm Projection	A	1.25			

Projection Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Burn Position	Additional Information	Warning and Caution/ Footnote	Typical Working Distance	Source Size (W x H)
Quartzline® Reflector Lamps (continued)																		
MR-14 (1-3/4" Diameter - 44mm) or MR-16 Dichroic Reflector (2" Diameter - 51mm) 2-Pin Vented Base, Table 5																		
MR14	G7.9 2-Pin	250	40658	BHB	120	24	CC-8	1.67		25		3350		HD	16mm Projection	A	2.63	
MR16	G7.9 2-Pin	150	40161	DNE	120	24	CC-8	1.77		12		3350		HD	8mm Projection	A	2.75	
	GK7.9 2-Pin	150	39742	DNF	21	24	CC-8	1.77		25		3400		HD	8mm Projection	A	2.75	
MR14	GK7.9 2-Pin	50	41885	ELS/ELR	18	24	CC-8	1.41		650		3100		HD	Microfilm	A	4.75	
		250	40017	EMM/EKS	24	24	CC-8	1.66		50		3400		HD	16mm Projection	A	2.63	
Quartzline® Single-Ended																		
4-Pin Slide Projection, Table 6																		
T6	G17q 4-Pin	500	36178	BCK	120	24	C-13D	3.25	1.56	50		3200		HD	Slide Projection	A, D		
Applications: Projection, Microfilm, Studio, etc, Table 7																		
T3.5	G6.35 2-Pin	50	18234	BRL	12	100	C-6	1.72	1.17	50	1400	3400		U		A		
	G5.3 2-Pin	650	30304	DVY	120	24	CC-6	2.48	1.44	25	20000	3300		HD		A, E	50 x 20	
G7	G5.3 2-Pin	600	30364	DYM	120	24	CC-6	2.50	1.44	75	17000	3200		U		A	50 x 25	
	2-Button	600	32071	DYP	120	24	CC-6	2.25	1.00	75	17000	3200		HD		A	50 x 25	
	G29.5 2-Pin PF	650	33248	DYR	220	24	ZCC-8	2.50	1.44	50	16500	3200		U		A	45 x 45	
				33250	DYR	240	24	ZCC-8	2.50	1.44	50	16500	3200		U		A	45 x 45
	600	19479	DYS-5	120	24	CC-6	2.50	1.44	150	15500	3200		HD		A	45 x 45		
			32955	DYS/DVW/ BHC	120	24	CC-6	2.50	1.44	75	17000	3200		HD		A	50 x 25	
T3.5	G5.3 2-Pin	30	37346	DZA	10.8	24	C-6	2.00	1.06	400	530	3100		HD		A	15 x 0.5	
T4	G29.5 2-Pin PF	150	37695	DZE/FDS	24	24	C-6 Oval	2.68	1.31	100	4000	3250		HD		A	25 x 15	
T6	G29.5 2-Pin PF	500	37527	EHA	120	24	C-13D	3.00	1.44	50		3300		HD		A, D	35 x 35	
T4	G6.35 2-Pin	250	14874	EHJ	24	100	C-6 Oval	2.25	1.31	50	8000	3400		HD		A	30 x 15	
	G5.3 2-Pin	175	42612	EML	24	24	C-6	2.12	1.06	125	5000	3200		HD		A	21 x 19	
T6	G16.35 2-Pin	400	41164	EVD	36	24	C-6	2.34	1.40	50	14500	3200		HD	Overhead Projection	A		
T3.5	G5.3 2-Pin	360	12696	EVB	82	24	CC-8	2.25	1.25	75	10000	3300		HD		A		
			19322	EVB-5	86	24	CC-8	2.25	1.25	75	3200			HD		A		
G6	G5.3 2-Pin	250	13617	EYH/FKT	120	24	CC-6	2.50	1.44	200	6000	3000		HD		A		
		500	33663	FBC/FBD	120	24	CC-6	3.00	1.75	50	13200	3200		U		A		
T3	G16.35 2-Pin	100	14876	FCR	12	100	C-6 Oval	1.75	1.18	50	2800	3300		HD		A		
T4	G6.35 2-Pin	150	13598	FCS	24	100	C-6 Oval	2.00	1.18	50	4500	3300		HD		A		
T3	G29.5 2-Pin PF	100	35321	FDT	12	24	C-6 Oval	2.12	1.06	50	2900	3300		HD		A		
T4	G6.35 2-Pin	150	36878	FDV	24	24	C-6 Oval	2.00	1.19	100	4300	3050		U		A		
	G16.35	300	19886	FLW	24	48	C-6 Oval	2.15	1.21	50	10200	3500		HD		A		
	G6.35 2-Pin	275	18241	FN17/100	24	100	C-6 Oval	2.25	1.31	50	10000	3400		HD		A		
T3.5	G5.3	250	80853	GCA	120	12	CC-8	2.24	1.26	200	5700	3200		U		A		
Quartzline® Single-Ended - Amp Rated, Table 8																		
T4	G29.5 2-Pin	120	10099	EWV	6.6A	24	C-6 Oval	2.50	1.54	500	3150	3200		BD	Airport	A		
		150	11427	EWV	6.6A	24	C-6 Oval	2.50	1.54	500	4100	3200		BD	Airport	A		
T3.5	G29.5 2-Pin	30	11478	EXL	6.6A	24	C-8	1.75	1.00	1000	375	2900		HD	Airport	A		
		45	11482	EXM	6.6A	24	C-8	1.75	1.00	1000	750	2950		HD	Airport	A		
T4	G29.5 2-Pin	200	15243	EZL	6.6A	24	C-6 Oval	2.50	1.54	500	5000	3100		BD	Airport	A		
Quartzline® Double-Ended Projection, Table 9																		
T5	R7s	1000	29604	BRH	120	24	CC-8	3.75		60	30000	3350		U	Overhead Projection	A		
T4	R7s	800	36952	DOX	230	24	CC-8	3.13		75	21400	3200		U	Copyboard, Studio	A		
			36953	DOX	240	24	CC-8	3.13		75	21400	3200		U	Copyboard, Studio	A		
T5	R7s	1000	38311	ETT	120	24	CC-8	3.75		70		3350		U	Spec. (PH1000H)	A		
T4	R7s	420	29581	FAL	120	24	CC-8	2.63		90	11000	3200		U	Printer	A		
		600	29598	FCB	120	24	CC-8	3.75		120	17000	3250		U	Overhead Projection	A		
			29592	FFJ	120	24	CC-8	2.63		85	17000	3250		U	Printer	A		
		420	30276	FFM	120	24	CC-8	3.13	0.50	90	11000	3200		U	Copyboard	A		
Incandescent Projection																		
4-Pin Base, Table 10																		
T10	G17q 4-Pin	400	40214	DAT/DAK	120	24	C-13D	4.00	1.56	25	9800	3200			BD	Slide Projection	A	
		500	29695	DAY/DAK	120	24	C-13D	4.00	1.56	30		3200			BD	Slide Projection	A, J	
4-Pin Base - Proximity Reflector, Table 11																		
T10	G17q 4-Pin	300	29525	CAL	120	24	C-13	4.00	1.56	25		3200			BD	Slide, Film Strip	A, I	
		150	29380	CAR	120	24	ZCC-8	3.13	1.31	15		3100			BD	Slide, Film Strip	A, J	
		500	29664	CZA/CZB	120	24	C-13D	4.00	1.56	25		3300			BD	Slide Projection, Gold Top (opaque)	A, I	
T12	G17q 4-Pin	500	29737	DEK/DFW	120	24	C-13D	3.62	1.75	25		3250		HD	Slide Projection	A, H, I		

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 10-12).

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Burn Position	Additional Information	Warning and Caution/ Footnote	Typical Working Distance	Source Size (W x H)
Incandescent Projection (continued)																		
4-Pin Base – Focusing Reflector, Table 12																		
T12	GK17q 4-Pin	150	29360	DCA	21	24	CC-6	3.56	1.56	15		3250		HD	8mm Projection	A, I	1.75	
	G17q 4-Pin	150	29364	DCH/DJA	120	24	CC-6	3.38	1.56	15		3150		BD	8mm Projection	A	2.25	
	GK17q 4-Pin	80	36122	DPE	30	24	CC-8	3.19	1.56	15		3400		HD	8mm Projection	A	2.25	
	G17q 4-Pin	150	29386	DFN/DFC	125	24	CC-8	3.19	1.56	15		3150		HD	8mm Projection	A	2.25	
T14	GK17q 4-Pin	150	29338	DJL	120	24	CC-8	3.50	1.56	15		3150		HD	8mm Projection	A	1.75	
	GK17q 4-Pin	80	40216	DLD/DFZ	30	24	CC-6	3.50	1.56	15		3400		HD	8mm Projection	A, K	1.75	
		150	29366	DLS/DLG	22	24	CC-6	3.44	1.56	15		3250		HD	8mm Projection	A, K	1.75	
Medium Prefocus Base, ANSI Base Designation: P28/25, Table 13																		
T10	Med. Pref.	500	29677	CZV/DAB	120	24	C-13D	5.75	2.19	25	12500	3200		BD	8mm Projection	A, J		
T20	Med. Pref.	1000	29968	DRB	118	24	C-13	5.75	2.19	25	32000	3350		BD	Overhead Projection	A		
			29947	DRS	120	24	C-13D	5.75	2.19	25	28500	3325		BD	Overhead Projection	A		
Single Contact Bayonet Base, ANSI Base Designation: BA15S, Table 14																		
T8	S. C. Bay.	100	29257	CDD	120	24	CC-2V	3.13	1.38	50	2000	2975		BD	Slide Projection	A		
		120	43330	CEM	120	24	ZCC-8	3.13	1.38	200	1950	3000		BD	Wheel Align Projection	A, J		
Double Contact Bayonet Base, ANSI Base Designation: BA15D, Table 15																		
S11	D. C. Bay.	30	29140	BLC	118	120	CC-2V	2.38	1.38	50	400	2775		U	Editor Projection			
		50	29156	BLX	118	120	CC-2V	2.38	1.38	50	780	2850		HD	Top Projection			
T8	D. C. Bay.	75	32137	BNF	120	120	CC-2V	2.38	1.38	25	1300	2900		HD	Top Projection			
		50	29171	CAX	118	24	CC-2V	3.13	1.38	50	775	2875		BD	Optical Projection			
		50	29169	CAX	130	24	CC-2V	3.13	1.38	50	775	2875		BD	Optical Projection			
		75	29208	CBA/CBS	118	24	CC-13	3.13	1.38	50	1200	2925		BD	Slide Projection	A, J		
		100	29266	CDJ	118	24	CC-2V	3.13	1.38	50	2000	2975		BD	Slide Projection	A		
			29244	CEB	118	24	CC-13	3.13	1.38	50	1850	2975		BD	Slide Projection	A		
T6.4	D.C. Bay.	35	30202	EAJ	12	24	C6	4.00	1.77	300	620		U	Flashtube Modeling	A, L			
Single Contact Prefocus Base, ANSI Base Designation: P30S, Table 16																		
T8	S. C. Pref.	34	30421	BXB	8.5	24	C-8	3.13	1.63	100	690		HD		Sound Reproduction, Filament Offset 3/16" from base axis			
Miscellaneous, Table 17																		
T20	Mogul	1000	29959	DPT	120	12	C-13	9.06	4.75	50	28000	3200		BD	Opaque Projection	A		
Photoflood																		
Standard, Table 18																		
A21	Medium	300	40886	BAH	115	24	C-9	4.94		20	9000	3200		U	Photocopy, Inside Frost	A		
		250	40563	BBR	118	24	C-9	4.94		3	8000	3400		U	No. 1 Photoflood, Frost	A		
			40564	BLC	118	24	C-9	4.94		3	5000	4800		U	No. B1 Blue, Inside Frost	A		
S11	Cand.	30	30232	BLK	125	120	CC-2V	2.25		50	400	2700		U	Photocopy, Inside Frost	A		
PS25	Medium	500	40566	EBV	118	24	C-9	6.94		6	17000	3400		U	No. 2, Inside Frost	A		
			40567	EBW PH/B2	118	24	C-9	6.94		6	10500	4800		U	No. B2, Blue, Inside Frost	A		
A23	Medium	250	40565	ECA	120	24	C-9	6.00		20	6500	3200		U	Inside Frost	A		
PS25	Medium	500	40568	ECT	120	24	C-9	6.94		60	13650	3200		U	Inside Frost	A		
Reflector, Table 19																		
R40	Medium	500	30151	DXB	120	24	CC-2V	6.63		6		3300	45000			Spot Beam, 15 Degrees	A, Q	
			30145	DXC	120	24	C-9	6.63		6		3300	5500			Flood Beam, 90 Degrees	A, Q	
			30281	EAL	120	24	CC-2V	6.63		15		3200	6800			Medium Beam, 60 Degrees	A, Q	
Enlarger and Printer, Table 20																		
S11	S. C. Bay.	75	30163	PH/111A	125	120		2.38		15	1120	2900		HD	Enlarger, White	A		
S14	Medium	75	43220	PH/140	120	120		3.38		35	1150	2900		U	Enlarger, White	A		
A21	Medium	150	40569	PH/211	120	24		4.94		65	1000	3000		U	Enlarger, White	A		
		150	40570	PH/212	120	24		4.94		100	2300	3050		U	Enlarger, White	A		
		250	40571	PH/215	120	24		4.94		3	7000	3400		U	Enlarger, White	A		
Geminis® and Marc®, Table 21																		
PAR20	Special 2-Pin Plug	300	11134	GEMINI	35	4				75		6000		H	Replaces MARC 300/16A	A, O	146	
PAR24	Special 2-Pin Plug	350	39936	MARC	45	4				50	50	5000		H		A, O	205	

Projection Lamps

Footnotes

- B** Pulsed Xenon lamps emit high levels of ultraviolet (UV) radiation and must be completely enclosed in an inter-locked system with all walls made of UV-absorbing material. The lamp must be made inoperative before the system is opened. The operator or user should never be exposed to the high level of UV radiation emitted by PXA lamps.
- C** Opaque Ceramic top on bulb.
- D** Proximity Reflector.
- E** Ultraviolet-absorbing bulb.
- G** Heat-resistant glass bulb.

- H** Collector grid.
- I** Gold Top (opaque).
- J** Black Top (opaque).
- K** Dichroic reflector.
- L** Two-filament lamp.
- M** Filament offset 3-3/16" from base axis.
- O** Should not be operated for periods of less than three minutes.
- Q** Approximate beam spread to 1/2 center-beam intensity.
- R** Red-enhanced dichroic filter.

Warning and Caution Notices

- A**
- A** **Warning**
- Risk of electrical shock**
- Turn power off before inspection, installation or removal
- Risk of fire**
- Keep combustible material away from lamp
 - Use in enclosed fixtures rated for this product
- Pressurized lamp – unexpected rupture may cause injury, fire, or property damage**
- Do not exceed 110% of rated voltage
 - Avoid direct water/liquid contact
 - Use in enclosed fixtures rated for this product
 - Do not use lamp if outer glass is scratched or broken
- Caution**
- A** **Risk of burn**
- Allow lamp/fixture to cool before handling
 - Turn off power before installing lamp
- Lamp may shatter and cause injury if broken**
- Do not use lamp if outer glass is scratched or broken
 - Dispose of lamp in enclosed container

- S**
- A** **Warning**
- Lamp emits UV radiation which may cause eye/skin irritation. RG-3**
- Avoid exposure of eyes and skin to unshielded lamp
- A** **Caution**
- Lamp may shatter and cause injury if broken**
- Wear safety glasses and gloves when handling lamp
 - Do not use excessive force when installing lamp

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10388	F36T12/SGN/HO	4-17	21323	F40K8/ECO 6PK	4-28	41131	F40T8/SPK35/CGV	4-23	10004	F4T5/CW	4-9	23081	F60T12/SGN/HO 15PK	4-17	97555	F78K/827/CDECO	5-7
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16756	Q60GB/CD	2-12
20874	Q71MR16/CG25	2-10
20873	Q71MR16/CG40	2-10
20840	Q71MR16/CL/FL40	2-10
20841	Q71MR16/CL/NFL25	2-10
20843	Q71MR16/CL/NSP15	2-10
20876	Q71MR16C/CG15	2-10
22227	Q7558	9-16
29130	Q7558	9-16
28113	Q7559	9-16
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12715	Q75CL/MC/CD	2-13
97666	Q75GB/SCD	2-12
72869	Q75GB/SCD2-PKS	2-12
16759	Q75GB/CD	2-12
19377	Q75T4/CL/CD 5PK	2-12
13642	Q900T3/CL/HIR	2-12
14335	Q900T3/CL/HIR	2-12
22365	QH1000T3/CL/HT	2-14
22355	QH1000T3/CL	2-14
22357	QH1000T3/CL	2-14
22358	QH1000T3/CL/1	2-14
22531	QH1200T3/CL	2-14
22532	QH1200T3/CL/HT	2-14
22686	QH1600T3/CL	2-15
22688	QH1600T3/CL	2-15
22695	QH1600T3/CL/CD 5PK	2-15
22691	QH1600T3/CL/7	2-15
22699	QH1600T3/CL/7	2-15
22838	QH2500T3/CL	2-15
22837	QH2500T3/CL/7	2-15
22780	QH2MT3/CL/HT	2-15
15551	QH2MT3/CL/HT/V8	2-15
12716	QH2MT3/CL/HT/R	2-15
18668	QH2MT3/CL/V8	2-15
39019	QH300T3/CL	2-14
10872	QH3650T3/CL/5	2-15
21337	QH375T3/CL	2-14
38893	QH375T3/CL/7	2-15
22875	QH3800T3/CL	2-15
22878	QH3800T3/CL/V8	2-15
21788	QH500T3/CL	2-14
21787	QH500T3/CL/7	2-15
13511	QH6600T3/CL/HT	2-15
23843	QH6MT3/CL/HT	2-15
23322	R10W	9-12
35417	R10W	9-12
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12078	TEL120MB	9-13
12080	TEL120PSB	9-13
12760	TEL12PSBÉ	9-12
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12076	TEL60MB	9-13
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88918	USB-0218-16-IP	6-7
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Appendix

Lamp Sizing Guide

Lamp Size/Diameter

The diameter of a lamp, at its maximum dimension, is expressed in eighths of an inch. Examples: The diameter of an A19 lamp is 19-eighths of an inch, or 2-3/8", at its widest point. A T8 lamp has a diameter of 8-eighths, or one inch.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart below.

L.C.L. Reference Plane Location

Base Type	Location
All Screw Bases (except Mini-Can.)	Bottom of base contact
Mini-Can	Where diameter of ceramic base insulator is .531 inches
3-Contact Medium	Bottom of base contact
Mogul Medium Prefocus	Top of base fins
Mogul Prefocus	Top of base fins
Medium BiPost	Base end of bulb (Glass lamps) Bottom of ceramic base (Quartz lamps)
Mogul BiPost	Shoulder of posts (Glass lamps) Bottom of ceramic base (Quartz lamps)
2-Pin Prefocus	Bottom of ceramic base.
S.C. or D.C. Bayonet Candelabra	Top of base pins
Medium Bayonet	Top of base pins
S.C. or D.C. Prefocus	Plane of locating bosses on prefocus collar
Medium 2-Pin	Bottom of metal base shell

Maximum Overall Length (M.O.L.)

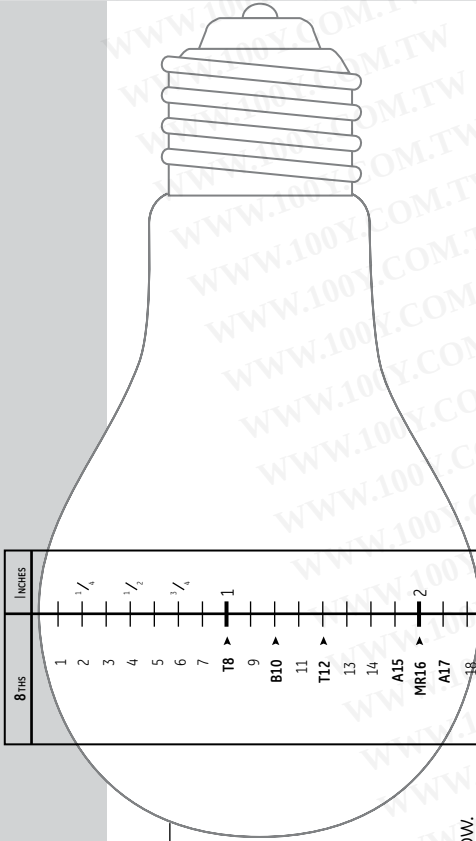
The end-to-end measurement of a lamp, expressed in inches or millimeters.

Important Notice

This catalog is a compilation of accumulated data. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps and ballasts. Accordingly, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For the latest lamp and ballast design data and information, contact your GE Representative.

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General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products, and to introduce new products or discontinue existing ones without notice.



Appendix Listings:

- Lamp Sizing Guide..... A-1
- Glossary of Terms..... A-2
- Three L's of Lighting Costs..... A-9
- Selecting the Best Color Lamp A-10

Glossary of Terms

Incandescent	Halogen	High Intensity Discharge	Ambient Temperature Light output of fluorescent lamps depends on ambient temperature which refers to the temperature inside the fixture in the air surrounding the fluorescent lamp.
			Amperes ("Amps") A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Watts (power) = Volts x Amps (current).
			ANSI (American National Standards Institute) A consensus-based organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.
			ANSI Ballast Type A reference to the ANSI document describing the lamp which also lists the characteristics of the ballast required to operate the lamp. The following naming system is used: H – mercury lamps; M – metal halide lamps; S – high pressure sodium lamps; L – low pressure sodium lamps.
			ANSI Codes These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as lamp ordering codes for most projection lamps.
			Auto Reset Shutdown Circuit Circuit senses lamp end life and will automatically shut off power to the lamp(s). When a new lamp is inserted in the socket, the ballast resets, and turns on the lamp automatically. Some shutdown circuits require the power to be cycled before a new lamp will re-light.
			Ballast An auxiliary piece of equipment required to start and to properly control the flow of current to gas discharge light sources such as fluorescent and high intensity discharge (HID) lamps. Typically, magnetic ballasts (also called electromagnetic ballasts) contain copper windings on an iron core while electronic ballasts are smaller and more efficient and contain electronic components.
			Ballast Efficacy Factor (BEF) Defined as ballast factor x 100 divided by input watts. The value is used to evaluate various lighting systems based on light output and power input. The BEF can only be used to compare systems operating the same type and quantity of lamps.
			Ballast Factor (BF) This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. Note that the "rated output" is sometimes measured on a reference ballast unlike ones that actually operate the lamp in the field. For example, a ballast with a ballast factor of 0.93 will result in the lamp's emitting 93% of its rated lumen output. A ballast with a lower BF results in less light output and also generally consumes less power.
			Ballast Hum Sound generated by the vibration of laminations in the iron core of the transformer or inductor present in the ballast.
Fluorescent	Compact Fluorescent	Ballast and Systems	Ballast Losses Power or energy dissipated in the ballast as heat and not converted to lamp energy.
			Base Temperature (Maximum) The maximum operating temperature permitted for the base in Celsius. Fixture manufacturers need to ensure that these conditions are satisfied in their fixture.
			Beam Angle The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 50% of maximum. The beam angle (sometimes called "beam spread") is often part of the ordering code for reflectorized lamps. Example: The 50PAR30/HIR/ NFL25 is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees, i.e. 12.5 degrees on either side of the center (see FIELD ANGLE).
			Bi-Pin Any base with two metal pins for electrical contact. This is the typical base for a fluorescent tube of 1 to 4 feet in length. It consists of 2 prong contacts that connect into the fixture. Medium bi-pins are used with type T-8 and T-12 tubular fluorescent lamps, and miniature bi-pins are used for tubular T-5 fluorescent lamps.
			Biox® GE trademark for its biaxial family of high-efficiency and long-life compact fluorescent lamps. DBX (Double Biox), TBX (Triple Biox) and QBX (Quad Biox) refer to the number of U-shaped legs present in the lamp.
			Bottom Exit (BE) (CFL plug-in ballasts) A configuration with leads or a wire-trap on the bottom or base of the ballast. This type of configuration is usually used when the ballast is mounted onto a junction box plate.
			Bottom Exit Studs (BES) (LFL plug-in ballasts) A configuration with screw studs mounted on the base plate or bottom of the ballast. The screws are 3/8" inches long with a #8-32 thread size (#8-32 nut). They are mounted on a two-inch center. The studs are usually used to mount the ballast directly onto a junction box plate.
			Bulb Size Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). For Compact Fluorescent products, "S", "D", "T", and "O" are used to represent Single, Double, Triple and Quad Biox® sizes. The code also includes a reference such as T4 to represent the size of the tube. Rectangular headlamps are designated as "Rect" and the number of millimeters horizontally.
			Canadian Energy Standards Indicates ballast complies with Canadian Energy Standards and meets the requirements of CAN/ CSA C654-M191.
			Canadian Standards Association (CSA) Association that generates product performance and safety standards for many Canadian industries.
Fluorescent	Compact Fluorescent	Ballast	Candela (cd) The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamps and for luminaires with a lamp operating in them.
			Candlepower An obsolete term for luminous intensity; current practice is to refer to this simply as candelas (see CANDELA).
			Candlepower Distribution Curve A graphical presentation of the distribution of light intensity of a light source, usually a reflector lamp or luminaire.
			Capacitor Device in ballast that stores electrical energy. Often used for power factor correction and lamp regulation.
			Cathode Metal filaments that emit electrons in a fluorescent lamp. Negatively charged free electrons emitted by the cathode are attracted to the positive electrode (anode), creating an electric current between the electrodes (see ELECTRODE).
			Cathode Resistance Resistance of the cathode in a Fluorescent lamp. It is measured "cold" before the lamp is turned on (Rc) or "hot" after the lamp is turned on (Rh). The ratio of the hot resistance to the cold resistance is also measured (Rh/Rc).
			Center Beam Candlepower (CBCP) Refers to the luminous intensity at the center of the beam of a blown or pressed reflector lamp (such as a PAR lamp). Measured in candelas (see CANDELA).
			Ceramic Metal Halide (CMH®) A type of metal halide lamp that uses a ceramic material for the arc tube instead of glass quartz, resulting in better color rendering (>80 CRI) and improved lumen maintenance. GE ConstantColor® CMH® lamps feature a 3-piece arc tube design that delivers excellent color consistency and lamp reliability.
			ChromaFit™ A GE brand name for metal halide lamps designed to operate on HPS ballasts, allowing a user to switch from the yellowish color of HPS to the white color of metal halide without retrofitting ballasts. These products are available in both quartz metal halide and ceramic metal halide (CMH®) versions.
			Class P Thermal Protector A switching device sensitive to current and heat that automatically disconnects ballast if the temperature exceeds UL temperature limitations.
Fluorescent	Compact Fluorescent	Ballast	Coefficient of Utilization (CU) In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. CU is a function of luminaire efficiency, room surface reflectances and room shape.
			Coil Windings of copper or aluminum wire surrounding the steel core in ballast. Also refers to the entire assembly comprising the inductor or transformer.
			Color Rendering Index (CRI) An international system used to rate a lamp's ability to render object colors. The higher the CRI (based upon a 0-100 scale) the richer colors generally appear. CRI ratings of various lamps may be compared, but a numerical comparison is only valid if the lamps are close in color temperature. CRI differences among lamps are not usually significant (visible to the eye) unless the difference is more than 3-5 points.
			Color Temperature (Correlated Color Temperature – CCT) A number indicating the degree of "yellowness" or "blueness" of a white light source. Measured in kelvins, CCT represents the temperature an incandescent object (like a filament) must reach to mimic the color of the lamp. Yellowish-white ("warm") sources, like incandescent lamps, have lower color temperatures in the 2700K-3000K range; white and bluish-white ("cool") sources, such as cool white (4100K) and natural daylight (6000K), have higher color temperatures. The higher the color temperature the whiter, or bluer, the light will be.
			Compact Fluorescent Lamp (CFL) The general term applied to fluorescent lamps that are single-ended and that have smaller diameter tubes that are bent to form a compact shape. Some CFLs have integral ballasts and medium or candelabra screw bases for easy replacement of incandescent lamps.
			ConstantColor® A GE registered name for lamp families that show very little color shift over life, such as GE's Precise™ MR16 lamps and GE's ceramic metal halide (CMH®) lamps.
			Cool White A term loosely used to denote a color temperature of around 4100K. The Cool White (CW) designation is used specifically for T12 and other fluorescent lamps using halophosphors and having a CRI of 62.
			Core Component of electromagnetic ballast that is surrounded by the coil. Core is comprised of steel laminations or solid ferrite material.
			Core & Coil Ballast A ballast that uses a "Core & Coil" assembly to operate fluorescent or HID lamps. Refers to copper or aluminum windings on a steel core.
			Cost of Light Usually refers to the cost of operating and maintaining a lighting system on an ongoing basis. The 88-8-4 rule states that (typically) 88% is the cost of electricity, 8% is labor and only 4% is the cost of lamps.
Fluorescent	Compact Fluorescent	Ballast	covRguard® A lamp encased by a plastic sleeve or coating to help contain glass fragments if the lamp breaks.
			Crest Factor (Lamp Current Crest Factor) Ratio of peak to RMS for any AC waveform. Crest factor can refer to voltage crest factor or current crest factor.
			Current Type (AC/DC) Whether the operational voltage is based on Alternating Current or Direct Current.
			Daylight Harvesting Lighting design for building interiors that makes use of daylight as a way of reducing energy consumption.
			Dimmer, Dimming Control A device used to lower the light output of a source, usually by reducing the wattage it is being operated at. Dimming controls are increasing in popularity as energy conserving devices.
			Discharge Lamp A lamp where light is emitted from an electrical discharge between two electrodes as opposed to a filament lamp. Examples are: Fluorescent lamps and HID (High Intensity Discharge) lamps like Metal Halide, Mercury and High Pressure Sodium. All discharge lamps require some kind of current-limiting device, e.g. a ballast, to operate them.
			Ecolux® A term for GE lamps that have reduced mercury content and pass the TCLP test.
			Edison GE's trademark for a wide range of halogen lamps for the consumer market.
			Efficacy A measurement of how effective the light source is in converting electrical energy to lumens of visible light. Expressed in lumens-per-watt (LPW), this measure gives more weight to the yellow region of the spectrum and less weight to the blue and red regions where the eye is not as sensitive. The efficiency of a light source is simply the fraction of electrical energy converted to light, i.e. watts of visible light produced for each watt of electrical power with no concern about the wavelength where the energy is being radiated. For example, a 100-watt incandescent lamp converts 7% of the electrical energy into light; discharge lamps convert 25% to 40% into light.
			Efficiency The efficiency of a light source is simply the fraction of electrical energy converted to light, i.e. watts of visible light produced for each watt of electrical power with no concern about the wavelength where the energy is being radiated. For example, a 100-watt incandescent lamp converts 7% of the electrical energy into light; discharge lamps convert 25% to 40% into light.
Fluorescent	Compact Fluorescent	Ballast	Efficiency of Ballast The ratio of output power divided by input power. A premium ballast would have an electrical efficiency greater than 90%. The efficiency of a luminaire or fixture is the percentage of the lamp lumens that actually comes out of the fixture.
			e-HID ballast (see ELECTRONIC HID BALLAST).
			Electrical Discharge A condition under which a gas becomes electrically conducting and becomes capable of transmitting current, usually accompanied by the emission of visible and other radiation. An electric spark in air is an example of an electrical discharge, as is a welder's arc and a lightning bolt.
			Electrical Testing Laboratory (ETL) Independent testing laboratory that performs ballast tests and certifies accuracy of performance data.
			Electrode Any metal terminal emitting or collecting charged particles, typically inside the chamber of a gas discharge lamp. In a fluorescent lamp, the electrodes are typically metal filaments coated with special powders called emission mix. Negatively charged free electrons emitted by one electrode are attracted to the positive electrode (anode), creating an electric current and arc between electrodes.
			Electrodeless Lamps Light sources where the discharge occurs in a chamber with no electrodes (no metal). The energy for the discharge is supplied by radio frequency excitation, e.g. microwaves (see INDUCTION LIGHTING and GENURA®).
			Electromagnetic Ballast (see MAGNETIC BALLAST).
			Electromagnetic Spectrum A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electromagnetic spectrum in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.
			Electromagnetic Interference (EMI) High-frequency electronic ballasts and other electronic devices can produce a small amount of radio waves that can interfere with radio and TV. Federally-mandated requirements must be met for EMI levels before an electronic device is considered FCC compliant (FCC is the Federal Communications Commission).
			Electronic Ballast A short name for a fluorescent high-frequency electronic ballast. Electronic ballasts use solid-state electronic components and typically operate fluorescent lamps at frequencies greater than 25 kHz. The benefits are: increased lamp efficacy, reduced ballast losses and lighter, smaller ballasts compared to electromagnetic ballasts. Electronic ballasts may also be used with HID (high intensity discharge) lamps (see MAGNETIC BALLASTS).
Fluorescent	Compact Fluorescent	Ballast	Electronic HID Ballast An electronic ballast capable of operating an HID lamp. GE's UltraMax® (electronic HID ballast) operates PulseArc® (metal halide) and CMH® (ceramic metal halide) lamps between 250W and 400W and provides higher efficiency and significantly improved lumen maintenance over magnetic ballasts.
			Elliptical Reflector (ER) Lamp An incandescent lamp with a built-in elliptically shaped reflecting surface. This shape produces a focal point directly in front of the lamp which reduces light absorption in some types of luminaires. It is particularly effective at increasing the efficiency of baffled downlights.
			Energy Policy Act (EPACT) Comprehensive energy legislation passed by the U. S. Congress. The lighting portion includes lamp labeling and minimum energy efficacy (lumens/watt) requirements for many commonly used incandescent and fluorescent lamp types. Federal Canadian legislation sets similar minimum energy efficacy requirements for incandescent reflector lamps and common linear fluorescent lamps.
Projection	Miniature and Sealed Beam	Stage and Studio	
Projection	Miniature and Sealed Beam	Stage and Studio	

Glossary of Terms

ENERGY STAR®

U.S. Department of Energy (DOE) designation for products meeting certain energy efficiency and performance standards. Among manufacturers of compact fluorescent lamps, GE has the largest number of ENERGY STAR® products as listed on the Federal Government's website.

EOL (End-of-Life Protection)

A circuit that senses that a lamp has reached end of life (compact fluorescent lamps and small-diameter linear fluorescent lamps) and turns off power to the lamp. Continuing to power the lamp beyond end of life can result in overheating of the lamp ends.

Federal Communications Commission (FCC)

The U. S. federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices at frequencies greater than 450 kilohertz (kHz). A consumer-rated Class B ballast is designed for use in the home near TV and radio receivers. It produces less electrical noise that could interfere with consumer products. A Class A-rated ballast is designed for use in commercial and industrial applications that are not in the vicinity of TV and radio receivers.

Field Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum (see BEAM ANGLE).

Flicker

The periodic variation in light level caused by AC operation that can lead to strobe effects.

Fluorescent HO

Fluorescent HO and VHO lamps require special ballasts that generate higher currents than standard ballasts and operate the lamps at higher wattage than standard lamps. These lamps are generally less efficient than the standard product. Metal Halide HO and XHO lamps operate on the same ballasts as standard lamps and at the same wattage but are more efficient and produce higher light output than standard lamps.

Fluorescent Lamp

A high efficiency lamp utilizing an electric discharge through low pressure mercury vapor to produce ultra-violet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to visible light.

Footcandle (fc)

A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot (see LUX).

Four-Pin Compact Fluorescent Lamps

A "plug-in" compact fluorescent lamp with 4 pins in the base to make electrical contact with the ballast. Four-pin lamps can be dimmed on appropriate dimming ballasts while two-pin lamps cannot.

Frequency

Rate of alteration in an AC current. Expressed in cycles per second or Hertz (Hz).

Full Spectrum Lighting

A marketing term, typically associated with light sources that are similar to some forms of natural daylight (5000K and above, 90+ CRI), but sometimes more broadly used for lamps that have a smooth and continuous color spectrum.

Genura®

GE's electrodeless compact fluorescent lamp, Genura®, uses induction to power the discharge. The chamber generates UV (just like a discharge in a regular fluorescent lamp) that is converted by phosphors to visible light. Because Genura® uses no electrodes, the life of this unique reflector lamp is longer than typical compact fluorescent products (see INDUCTION LIGHTING).

Glare

Visual discomfort caused by excessive brightness is called discomfort glare. If task performance is affected it is called disability glare. Glare can be direct glare or indirect (reflected) glare.

Group Relamping

The practice of replacing all the lamps at an installation at one time with new lamps when the lamps have operated for (typically) 65% to 70% of rated life. The two benefits of group relamping are: (1) reduced maintenance costs because of the expense and inconvenience of replacing failing lamps one at a time, and (2) improved appearance and performance since older lamps are often degrading in brightness and color as they age.

Halogen Lamp

A halogen lamp is an incandescent lamp with a filament that is surrounded by halogen gases, such as iodine or bromine. Halogen gases allow the filaments to be operated at higher temperatures and higher efficacies. The halogen participates in a tungsten transport cycle, returning tungsten to the filament and prolonging lamp life. All halogen lamps have a tungsten filament and, often, a quartz envelope.

HIR®

GE designation for high-efficiency tungsten halogen lamps. HIR lamps utilize shaped filament tubes coated with numerous layers of materials that transmit light but reflect the heat (infrared) back onto the filament. This reduces the power needed to keep the filament hot.

Harmonic

An integral multiple of the fundamental frequency (60 Hz) that becomes a component of the current.

Harmonic Distortion (see TOTAL HARMONIC DISTORTION or THD).

Hertz (Hz)

Unit used to measure frequency of alteration of current or voltage, in cycles per second.

High-Efficiency (Energy Saving) Electromagnetic Ballast

Ballast with core & coils, designed to minimize ballast losses compared to the "standard" ballast.

Highbay Lighting

Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

High Intensity Discharge (HID) Lamp

A general term for mercury, metal halide (GE ConstantColor® CMH®, Multi-Vapor®, MXR or Arcstream®) and high-pressure sodium (GE Lucalox®) lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

High Output/Very High Output (HO, VHO) Lamps

Designation for lamps generating more light than standard lamps.

High Power Factor

A ballast whose power factor is corrected to 90% or greater.

High-Pressure Sodium (HPS) Lamp

HPS lamps are high intensity discharge light sources that produce light by an electrical discharge through sodium vapor operating at relatively high pressures and temperatures. GE markets these lamps under the trade name of Lucalox®.

Hot Restart Time

If there is a momentary power interruption and the HID lamp goes out, there will be a delay of 10 to 15 minutes before the lamp has cooled down sufficiently to start again. This is called the Hot Restart time. PulseArc® lamps have a significantly shorter Hot Restart time (typically 3–5 minutes) than standard metal halide lamps. Lucalox® Standby lamps will start up immediately while standard Lucalox® lamps require a few minutes.

Ignitor

An electronic device providing a high voltage pulse to initiate an electrical discharge. Typically, the ignitor is paired with or is a part of the ballast.

Illuminance

The "density" of light (lumens/area) incident on a surface; i.e. the light level on a surface. Illuminance is measured in footcandles or lux.

Incandescent Lamp

A light source that generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it.

Indirect Lighting

The method of lighting a space by directing the light from luminaires upwards towards the ceiling. The light scattered off the ceiling produces a soft, diffuse illumination for the entire area.

Induction Lighting

Gases can be excited directly by radio-frequency or microwaves from a coil that creates induced electromagnetic fields. This is called induction lighting and it differs from a conventional discharge, which uses electrodes to carry current into the arc. Induction lamps have no electrodes inside the chamber and generally, therefore, have longer life than standard lamps. Genura® is an example of an induction lamp.

Infrared Radiation

Electromagnetic energy radiated in the wavelength range of about 770 to 1,000,000 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

Input Voltage

Power supply voltage required for proper operation of fluorescent or HID ballast.

Input Watts

The total power input to the ballast that includes lamp watts and ballast losses. The total power input to the fixture is the input watts to the ballast or ballasts and is the value to be used when calculating cost of energy and air conditioning loads. More than 90% of the input watts is wattage or power delivered to the lamp load with typical ballast.

Instant Start

A type of ballast designed to start fluorescent lamps as soon as the power is applied. Most T8 fluorescent lamps are being operated on electronic instant-start ballasts. Slimline fluorescent lamps operate only on instant-start circuits.

Instant-Start Lamp

A fluorescent lamp, usually with a single pin at each end, approved to operate on instant-start ballasts. The lamp is ignited by a high voltage without any filament heating.

Integral

A popular term for a compact fluorescent lamp that includes a built-in ballast (see CFL).

Kelvins (see COLOR TEMPERATURE).

Kilowatt (kW)

A measure of electrical power equal to 1000 watts.

Kilowatt Hour (kWh)

The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity use. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges \$.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x \$.10).

Laminations

Layers of steel, making up the "core" that is surrounded by the coils in a core & coil ballast.

Lamp

The term used to refer to the complete light source package, including the inner parts as well as the outer bulb or tube. "Lamp," of course, is also commonly used to refer to a type of small light fixture such as a table lamp.

Lamp Current Crest Factor

Ratio of peak lamp current to RMS or average lamp operating current.

Lamp Types

Filament lamps:	Incandescent, Halogen, Halogen-IR®.
Discharge Lamps:	Fluorescent, HID (High Intensity Discharge)
HID Lamps:	Mercury, HPS (High-Pressure Sodium), MH (Metal Halide) and CMH® (Ceramic Metal Halide)

Lamp Watts

Power dissipated in the lamp—some of which is converted to light, some to heat and some to ultraviolet.

Life (see RATED LAMP LIFE).

Light

Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane—usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart on page A-1.

Light Emitting Diode (LED)

A solid that directly converts electrical impulses into light. Some LEDs today incorporate fluorescent materials to change the color characteristics of the emitted light.

Light Loss Factor (LLF)

The product of all factors that contribute to lowering the illumination level including reflector degradation, dirt, lamp depreciation over time, voltage fluctuations, temperature effects, burn-out factor, etc.

Lucalox®

The GE brand name for high-pressure sodium lamps.

Lumen

A measure of luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides 840 lumens.

Lumen Depreciation, Lumen Maintenance

A measure of how well a lamp maintains its light output over time. It may be expressed numerically or as a graph of light output vs. time. The "mean lumens" of a lamp is the lumens at 40% of rated life (50% for HPS lamp).

Lumens Per Watt (LPW)

A ratio expressing the luminous efficacy of a light source.

Typical lamp efficacies:

Edison's first lamp.....	1.4 LPW
Incandescent lamps.....	10-20
Halogen lamps.....	15-30
Fluorescent lamps.....	35-105
Mercury lamps.....	50-60
Metal halide lamps.....	60-120
High-pressure sodium lamps.....	60-140

Note: The values above for discharge lamps do not include the effect of the ballasts, which must be used with those lamps. Taking ballast losses into account reduces "system" or lamp ballast efficacies typically by 10-20% depending upon the type of ballast used.

Luminaire

A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamps and connect them to the power supply. A luminaire is often referred to as a fixture.

Luminaire Efficiency

The ratio of total lumens emitted by a luminaire to those emitted by the lamp or lamps used in that luminaire.

Luminance

A photometric measure of "brightness" of a surface as seen by the observer, measured in candelas per square meter.

Luminous Efficacy

The light output (lumens) of a light source divided by the total power input (watts) to that source. It is expressed in lumens per watt (see LUMENS PER WATT).

Lux (lx)

A unit of illuminance or light falling onto a surface. Lux stands for the light level on a surface one meter from a standard candle. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle (see FOOTCANDLE).

Magnetic Ballast

A ballast used with discharge lamps that consists primarily of transformer-like copper or aluminum windings on a steel or iron core. Also called "Core & Coil" (see ELECTRONIC BALLASTS).

Maximum Overall Length (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

Mean Lumens

The average light output of a lamp over its rated life. Based on the shape of the lumen depreciation curve, for fluorescent and metal halide lamps, mean lumens are measured at 40% of rated lamp life. For mercury, high-pressure sodium and incandescent lamps, mean lumen ratings refer to lumens at 50% of rated lamp life (see LUMEN MAINTENANCE).

Medium Base

Usually refers to the screw base typically used in household incandescent lamps. There is also the medium bi-pin base commonly used in T12 and T8 fluorescent lamps.

Mercury Lamp

A high-intensity discharge light source operating at a relatively high pressure (about 1 atmosphere) and temperature in which most of the light is produced by radiation from excited mercury vapor. Phosphor coatings on some lamp types add additional light and improve color rendering.

Metal Cases

Case design used in both magnetic and electronic ballasts. These ballasts are grounded once they are mounted to the fixture. They meet all safety codes, some of which do not allow plastic in open plenum areas.

Metal Halide Lamp

A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types may also utilize phosphor coatings. GE trade names include: Multi-Vapor®, ConstantColor® CMH®, PulseArc®, Staybright®, Watt-Miser®, ChromaFit™ and Arcstream®.

Mogul Base

A screw base used on larger lamps, e.g. many HID lamps.

Mortality Curve

Lamps have a rated or expected life but individual failures occur earlier and some lamps will last longer. The mortality curve depicts the expected percent surviving in a group of lamps at various points between zero hours and rated life or beyond. The curve starts with 100% at zero hours and goes to 50% surviving at the rated life (e.g. 3000 hours or 20,000 hours, etc.) However, the shape of the curve between these two end points can vary depending on the lamp type.

Mounting Height

Distance from the bottom of the fixture to either the floor or work plane, depending on usage.

Multi-Vapor®

A GE brand name for metal halide lamps.

Nanometer

A unit of wavelength equal to one billionth of a meter.

National Energy Standards for Fluorescent Ballasts

A federal law enacted in 1988 that sets energy standards for ballasts consistent throughout the United States.

National Electric Code (NEC)

A nationally accepted electrical installation code to reduce the risk of fire, developed by the National Fire Protection Association.

Glossary of Terms

National Stock Number

The standardized part number used by the U.S. Government for procurement.

NOM

Laboratory that sets safety standards for building materials, electrical appliances and other products for Mexico.

Non-PCB Capacitor

Capacitor used in ballasts to help provide power factor correction. Contains no polychlorinated biphenyls and meets EPA requirements.

Normal Power Factor

Ballasts with power factor less than .90 and do not incorporate any means of Power Factor Correction.

Open Circuit Voltage (OCV)

Open Circuit Voltage measured across the socket the lamp screws into, with the ballast powered on. It is dangerous to stick a voltmeter into such a socket without precise knowledge of the ballast because exceedingly high voltages could be present.

Operating Voltage

For electrical discharge lamps, this is the voltage measured across the discharge when the lamp is operating. It is governed by the contents of the chamber and is somewhat independent of the ballast and other external factors.

PAR Lamp

PAR is an acronym for parabolic aluminized reflector. A PAR lamp, which may utilize either an incandescent filament, a halogen filament tube or an HID arc tube, is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for the control of the light beam.

Parallel Lamp Operation/Parallel Wiring

Refers to ballasts that employ multiple output current paths from a single ballast to allow lamps to operate independent of one another, allowing other lamps operated by the ballast to remain lit should companion lamp(s) fail (see SERIES LAMP OPERATION).

PCB (Polychlorinated Biphenyls)

Chemical pollutant formerly used in ballast capacitors that were part of ballasts. It is now illegal to use PCBs and most such ballasts have been replaced over time.

Phosphor

An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short-wavelength ultraviolet radiation and to transform and emit it as visible light.

Photometry

The measurement of light and related quantities.

Photopic (See SCOTOPIC/PHOTOPIC).

Potting

Material used to completely surround and cover components of some magnetic and electronic ballasts. Potting compound fulfills functions of protecting components, dampening sound, and dissipating heat.

Power Factor (PF)

A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0 with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. Power companies may penalize users for using low-power-factor devices.

Power Factor Corrected

Ballasts that incorporate a means of Power Factor Correction yielding power factor of 90% or greater.

Precise™

The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic cool beam reflectorized spot and flood lamps.

Preheat Circuit

A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts. A preheat fluorescent lamp is one in which the filament must be heated by use of a starter before the arc is created. These lamps are typically operated with electromagnetic ballasts.

Product Code

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Programmed Rapid Start

Lamp starting method which preheats the lamp filaments while not allowing the lamp to ignite and then applies the open circuit voltage (OCV) to start the lamp. The user may experience a half- to one-second delay after turning on the lamps while the preheating takes place. This type of starting circuit keeps lamp end blackening to a minimum and improves lamp life performance, especially in applications where the lamps are frequently switched on and off.

PulseArc®

GE description for a type of metal halide lamp that provides improved lumen maintenance for longer useful life and extended relamp cycles. These products are designed to operate on ballasts that have ignitors to help with lamp starting.

Pulse Start

The generic name for a PulseArc® lamp or for an HID ballast with a high-voltage ignitor to start the lamp.

Quartz

A name for fused silica or melted sand from which many high-temperature containers are fashioned in the lighting industry. Quartz looks like glass but can withstand the high temperatures needed to contain high-intensity arc discharges.

Quartz-Halogen Lamp (See HALOGEN LAMP).

Quartzline®

A GE registered trademark term for some types of halogen lamps.

Radiation

A general term for the release of energy in a "wave" or "ray" form. All light is radiant energy or radiation, as is heat, UV, microwaves, radio waves, etc.

Rapid Start

Lamp starting method in which lamp filaments are heated while open circuit voltage (OCV) is applied to facilitate lamp ignition. A Rapid Start fluorescent lamp has two pins at each end connected to the filament. Some rapid start lamps may be instant-started without filament heat, for example, the F32T8 lamp.

Rapid Start Circuit

A fluorescent lamp-ballast circuit that utilizes continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems.

Rated Lamp Life

For most lamp types, rated lamp life is the length of time of a statistically large sample between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation, color shift and also on the need to reduce lamp replacement costs (see GROUP RELAMPING).

Reflector Lamp (R)

A light source with a built-in reflecting surface. Sometimes, the term is used to refer specifically to blown bulbs like the "R" and "ER" lamps; at other times, it includes all reflectorized lamps like PAR and MR.

Reveal®

GE's product family of incandescent lamps with the element neodymium added to the glass bulb. Neodymium filters out much of the yellow light produced by ordinary lamps. Less yellow means whites look whiter and colors appear more vibrant in spaces lighted with Reveal® lamps.

Room Cavity Ratio (RCR)

A shape factor (for a room, etc.) used in lighting calculations.
 $RCR = 5H (L+W) / L \times W$, or alternately,
 $RCR = (2.5) \text{ Total Wall Area} / \text{Floor Area}$.
Where H = height, L = length and W = width of the room. A cubical room will have an RCR of 10; the flatter the room the lower the RCR.

Scotopic/Photopic (S/P) Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (scotopic vision) and cones to yellow light (photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens for the light source on an ANSI reference ballast. Cooler sources (higher-color-temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Self-Ballasted Lamps

A discharge lamp with an integral ballasting device allowing the lamp to be directly connected to a socket providing line voltage (see CFL).

Series Lamp Operation

Refers to ballasts that employ a single current path passing through all lamps operated by the ballast. If one lamp should fail, companion lamps operated by the same ballasts will also extinguish or dim.

Spacing to Mounting Height Ratio

Ratio of fixture spacing (distance apart) to mounting height above the work plane; sometimes called spacing criterion. It is OK to have fixture spaced closer than the spacing criterion suggested by the manufacturer but not farther, or you will get dark spots in-between fixtures.

Specification Series (SP) Colors

Energy-efficient, all-purpose tri-phosphor fluorescent lamp colors that provide good color rendering. The CRI for SP colors is 70 or above and varies by specific lamp type. See Lamp Color Chart on page A-10.

Specification Series Deluxe (SPX) Colors

Energy-efficient tri-phosphor fluorescent lamp colors that provide better color rendering than Specification Series (SP) colors. The CRI for SPX colors is 80 or higher and varies by specific lamp type. All GE CFL products use SPX phosphors. See Lamp Color Chart on page A-10.

Specification Series Deluxe extreme (SPXX) Colors

A color designation for GE ceramic metal halide lamps with superior color rendering ~ 90.

S specular Reflection

Reflection from a smooth, shiny surface, as opposed to diffuse reflection.

Spectral Power Distribution (SPD)

A graph of the radiant power emitted by a light source as a function of wavelength. SPDs provide a visual profile or "fingerprint" of the color characteristics of the source throughout the visible part of the spectrum. Also called "spectral curve" or "spectrum."

Spiral® Lamp

GE trademark for its helical family of high-efficiency, long-life compact fluorescent lamps.

Starcoat®

GE's special barrier coating applied on the inside of all GE T8 fluorescent lamps, as well as some other lamp types, to enhance lamp life and deliver superior lumen maintenance.

Starter

An electronic module or device used to assist in starting a discharge lamp, typically by providing a high-voltage surge (see IGNITOR).

Starting Temperature (Minimum)

The minimum ambient temperature at which the lamp will start reliably on the ballast.

T12, T8, T5

A designation for the diameter of a tubular bulb in eighths of an inch; T12 is 12 eighths of an inch, or 1-1/2 inches; T8 is 1 inch, and so on.

Task Lighting

Supplemental lighting provided to assist in performing a localized task, e.g. a table lamp for reading or an inspection lamp for fabric inspection.

Terminal-to-Terminal Starting Lamp Voltage (VRMS) (Minimum or Maximum)

The minimum or maximum voltage allowed into lamp from ballast under varying conditions as specified.

TCLP Test

The Toxicity Characteristic Leaching Procedure (TCLP) test, specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous or nonhazardous waste. The TCLP test

measures the ability of the mercury and/or lead in a lamp to leach from a landfill into ground water.

THD (see TOTAL HARMONIC DISTORTION).

Total Harmonic Distortion (THD)

A measure of the distortion of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as a ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THDs on some systems. Excessive THDs on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

Transients

A long, recessed lighting surge through an electrical system caused by lightning strikes to nearby transformers, overhead lines or the ground. May also be caused by switching of motors or compressors, as well as by short circuits or utility system switching. Can lead to premature ballast failure (see TVSS).

Traffer

A long, recessed lighting unit, usually installed in an opening in the ceiling.

Tungsten Halogen Lamp (see HALOGEN LAMP).

TVSS

Transient Voltage Surge Suppressors, which will protect ballasts and other electronic equipment from transient high-voltage spikes that may be present in the power line.

Two-Pin Compact Fluorescent Lamps

Type of lamps that have the glow bottle starter built into the base of the lamp. Traditionally 2-pin lamps are designed to work with electromagnetic ballasts (see FOUR-PIN COMPACT FLUORESCENT LAMPS).

Ultra

A common way of referring to high-efficiency GE T8 family of lamps and Ballast that performs better than standard T8 lamps. Also refers to the system.

UltraMax® Ballast

A family of high-efficiency GE instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for enhanced system energy savings. UltraMax® ballasts have a low lamp current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. GE also has an UltraMax® HID ballast which can operate PulseArc® and CMH® lamps anywhere from 250 watts to 400 watts and provides greatly improved lumen maintenance.

UltraStart® Ballast

A family of high-efficiency GE Program Start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps in frequently switched applications. Instant-start ballast provides 10,000 starts. UltraStart® provides 100,000 to 200,000 starts. Use program start ballast to ensure long lamp life when turning lamps on and off more than twice a day.

Ultraviolet (UV) Radiation

For practical purposes, any radiant energy within the range of 100–380 nanometers. It is beyond the blue or violet region of the spectrum, and is invisible to the eye just like the silent "ultrasound" dog whistle is inaudible to the ear.

UV is divided into 3 regions:

UVA.....100 to 280 nm
UVB.....280 to 315 nm
UVC.....315 to 400 nm

Some wavelengths (180–220) produce ozone, some (220–300) are bactericidal, some (280–320) erythral (reddden human skin); others (320–400) cause secondary luminance (black light).

Ultra Watt-Miser®

GE's family of energy-saving T8 fluorescent lamps.

Underwriters Laboratories (UL)

A private organization which tests and lists electrical (and other) equipment for electrical and fire safety according to recognized UL and other standards. A UL listing is not an indication of overall performance. Lamps are not UL listed except for compact fluorescent lamp assemblies – those with screw bases and built-in ballasts.

Uniform Product Code (UPC)

The 12-digit code on the saleable unit that is used for scanning at the register.

Veiling Reflection

Effective reduction in contrast between task and its background caused by the reflection of light rays; sometimes called "reflected glare." You might have dealt with veiling reflections when you have to tilt a shiny magazine to avoid glare so as to read it, or struggled with reading a computer monitor because of the reflection of a window or a light fixture.

Visual Comfort Probability (VCP)

For a given lighting scheme, VCP is a ratio expressed as a percent of people who, when viewing from a specific location and in a specified direction, find the system acceptable in terms of glare (see GLARE).

Volt

A measure of "electrical pressure" between two points. The higher the voltage, the more current will be pushed through a resistor connected across the points. The volt specification of an incandescent lamp is the electrical "pressure" required to drive it at its designed point. The "voltage" of a ballast (e.g. 277 V) refers to the line voltage it must be connected to.

Voltage

A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

Voltage Surge

Transient spikes in line voltage that can be harmful to electronic equipment like computers and electronic ballasts. Surge suppressors are often used to protect against such transients.

Wall Temperature (Maximum Bulb)

The maximum operating bulb wall temperature in Celsius.

Warm-Up Time

HID lamps typically take a few minutes to warm up to full brightness after starting.

Glossary of Terms

Warm-Up Time to 90%

The time it takes for a High Intensity Discharge lamp to reach 90% of light output after being turned on.

Warm White

Refers to a color temperature around 3000K, providing a yellowish-white light.

Watt

A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy (see KILOWATT HOUR).

Wattage Indicator Reduced

Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Watt-Miser®

A Watt-Miser® lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser® lamps are available in a wide range of incandescent, fluorescent and HID lamp types.

Wavelength

The distance between two neighboring crests of a traveling wave. The wavelength of light is between 400 and 700 nanometers.

the three's of Lighting costs

Electricity is the biggest chunk of your lighting costs

Averaging across different lamp types and systems, we estimate that only \$1 of every \$25 goes toward lamps, \$2 toward labor, and **\$22 toward electricity!**

The simplest way to save energy is to retrofit with energy-efficient products and systems from GE Lighting: your #1 energy-saving choice!

And remember...every watt reduced in your lighting system results in a one-third watt reduction in your A/C load (while A/C is running). The reduced power consumption from an energy-efficient lighting upgrade results in an immediate reduction in the electric bill. However, there is another benefit that typically shows up six months to a year after the lighting upgrade. The reduced lighting loads (along with the accompanying reduction in air-conditioning load) often leads to a net reduction of peak electric demand for the site. This results in the electric bill going down even further since utilities have a demand charge based on the peak load at the site over a 15-minute to 30-minute period during the previous six months. Consult your utility company to discover the expected benefit from this effect.

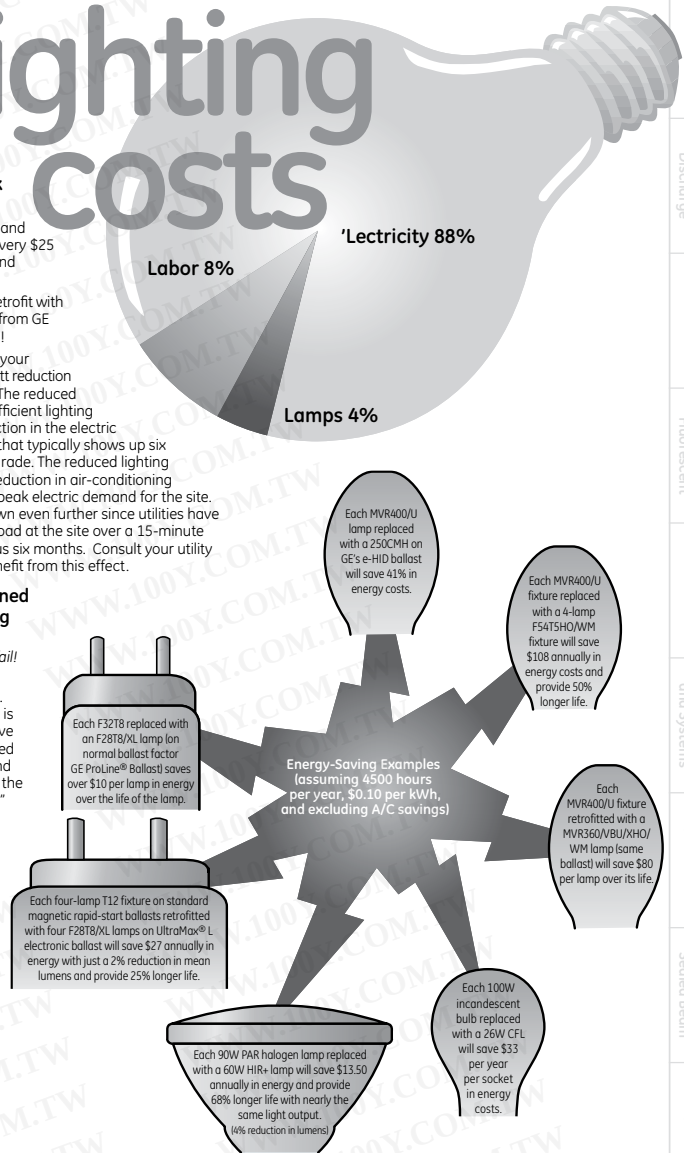
Reduce Labor Costs With Planned Maintenance/Group Relamping

Schedule your lighting maintenance instead of simply waiting for lamps to fail!

In any large installation, failure rates increase with age in a predictable way. The **optimal** point for group relamping is typically when 8% to 12% of lamps have failed, usually around two-thirds of rated life. At this point, both lumen output and lamp color may have deteriorated, yet the cost of electricity remains at "full price."

The per-lamp labor cost of installing new lamps is usually significantly less when an entire site is relamped, compared to the per-lamp labor cost of replacing lamps one at a time.

The result? The facility gets a face-lift and the maintenance costs over the next two or three years are generally significantly reduced. **Contact your GE Account Manager or GE Distributor to understand the full benefits of planned maintenance and to get set up on a money-saving group relamping schedule.**



selecting the **best** color lamp

Descriptions: "Warm" Or "Cool"

When talking about white light sources (or about white paint) we use the descriptions "warm" and "cool." White light with a yellowish tinge, reminiscent of candlelight and fireplaces, is called "warm white." Incandescent lamps produce a warm white color. Bluish white, reminiscent of moonlight on cold snow, is considered "cool white." Fluorescent lamps can produce warm white or cool white, or anywhere in between, depending on the mix of phosphors used.

Correlated Color Temperature (CCT)

Correlated Color Temperature is a way of describing the degree of "yellowness" or "blueness" of a white light source. We relate the light source to the color of a hypothetical piece of hot metal. A piece of steel or tungsten as it is heated, will progressively change color in the sequence shown below:



Hotter = Higher Color Temperature

When we say a lamp has a color temperature of 2700K—typical of incandescent lighting—it simply means that a piece of metal heated to a temperature of 2700 kelvins (which is about 3000°C or 5400°F) would mimic the color of the lamp. Such a source would be yellowish-white. In contrast, the color of a lamp at 6000K—typical of daylight entering through a window on a sunny day—can be mimicked by doubling the temperature of the hot metal piece to 6000 kelvins. This is significantly bluer or "cooler" than the light of incandescent lamps. Note that higher CCT refers to sources described as "cooler."

Generally, 4000K and above is considered "cool white," 3200K and below is "warm white," and 3500K is "neutral white."

Better Color Rendering For Better Appearance

There is no such thing as the "true" color of any material; the perceived color is a function of the light under which the material is viewed and the reflectance characteristics of the material itself. However, we can make a general statement: the higher the Color Rendering Index (CRI) of a light source (also denoted by R_d) the better—and more natural—colors typically appear under the light source.

In measuring CRI, scientists compare how eight specific colors appear under the source to how these same colors appear under a reference source. However, there are two reference sources: incandescent lighting is the reference for warm color lamps and daylight is the reference for cool color lamps. In this system, both incandescent lamps and daylight are considered to have "perfect" CRIs of nearly 100 even though, as we know, materials appear quite different when viewed under these light sources. These two sources are very different in color temperature (see below) although both have CRIs close to 100. CRI is, therefore, meaningful in comparing lamps that are close in color temperature.

CRI is not a perfect measure, but it is still useful as an indicator of the quality of light from a source.

Typical Color Indicators for Various Lamps	Correlated Color Temperature	Color Rendering Index
Incandescent Lamps		
Typical	2500-2800K	97-100
Halogen Lamps		
Typical	2800-3000K	97-100
Fluorescent Lamps (Ordered By CCT)		
C75 "Chroma Series"	7500K	90 +
SPX65 (865)	6500K	80 +
SP65 (765)	6500K	70 +
C50 "Chroma Series"	5000K	90 +
SPX50 (850)	5000K	80 +
SP50 (750)	5000K	70 +
SPX41 (841)	4100K	80 +
SP41 (741)	4100K	70 +
Cool White	4100K	62
SPX35 (835)	3500K	80 +
SP35 (735)	3500K	70 +
SPX30 (830)	3000K	80 +
SP30 (730)	3000K	70 +
Warm White	3000K	50
covRfresh	2750K	87
SPX27 (827)	2700K	80 +
Note: Some 4' T8 "Sp" lamps, including reduced wattage types, may have a CRI >80.		
High Pressure Sodium Lamps		
Lucalox®	1900-2100K	22
Deluxe Lucalox®	2200K	65
Metal Halide Lamps		
Standard and PulseArc® MVR Multi-Vapor®	3000-4300K	65-75
MXR Multi-Vapor®	3200-3500K	65-70
Arcstream®	3000-6000K	75-90
Multi-Vapor® ChromaFit™	4000-4500K	65-70
Ceramic Metal Halide Lamps		
CMH®	3000-4200K	80-93
CMH® ChromaFit™	3000K	85





Introduction SPECIALTY

Introduction

This catalog lists and provides essential technical data for available General Electric lamps that are used in lighting for specialty markets worldwide including Stage/Studio/TV, Projection/Photo, Sealed Beams, Fluorescent, Incandescent and Discharge Lamps optimized for specific applications. Applications can be severe service (cold, vibration, accessibility), architectural (color, black light), industrial (appliances, germicidal, safety, low voltage, infrared/heat), transportation (aircraft, railroad, marine), and infrastructure (airport, emergency building lighting, traffic signal, sign).

Lamp listings are grouped into market/application sections, each containing a "family" of lamps by application or commonalities (such as base, shape, spectral distribution, color temperature), to assist in selection or interchange.

Ordering Lamps

To order lamps use the GE Order Code, Description and Case Quantity columns. If a lamp is colored **BLUE** it is stocked in Europe, **GREEN** is Europe and North America, **BLACK** is North America only. Otherwise procurement must be through an international distributor or your GE sales representative. North America, European and International sales offices are in the appendix.

Other GE Publications

All the lamps in this Specialty Catalog come from other GE catalogs/websites. These catalogs and websites contain data for other lamps that may be of interest:

In North America:

- Lamp Products Catalog (PC 25265)
- Miniature/Sealed Beam Catalog (PC 20699)
- Stage and Studio SHOWBIZ (PC23766)
- www.GELighting.com
- or 1-800-GELAMPS

In Europe:

- GE Consumer and Industrial Lighting Lamp Catalogue-Spectrum
- SHOWBIZ® (ENTCAT 02/2003)

Lamp Index

There is a sorted (numeric/alphabetic) index by description with ANSI/LIF code, if available, which provides page number. The TABLE OF CONTENTS can assist in located lamps of specific interest by market.

Footnotes

Throughout the lamp tables, the footnote column contains important information and safety notes. The footnotes and safety notices appear in the appendix, page 94.



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23501	.77A/S8			10	83	19549	20S11/1SC			10	81	19880	50PAR36/H/FL30			3	38
22429	1M/T20BP			7	64	23423	21A/R40/FL			5	55	19878	50PAR36/H/SP5			3	38
22479	1M/T24			5	54	35178	24V25/CL/E27			5	54	19879	50PAR36/H/SP8			3	38
11098	3S6/5 24PK			5	51	91879	24V40/CL/B22			5	54	16540	50PAR36/NSP			3	38
11182	5S14			10	81	91876	24V40/CL/E27			5	54	12892	50PAR36VNSP			3	38
11329	6S6			5	51	91874	24V40/FR/E27			5	54	16542	50 PAR 36 VWFL			3	38
11372	6S6			5	51	91878	24V60/CL/B22			5	54	16541	50 PAR 36 WFL			3	38
11374	6S6			5	51	91877	24V60/CL/E27			5	54	11468	50PAR36WFL/4			3	38
11316	6S6 24PK			5	51	91875	24V60/FR/E27			5	54	46852	50R20/6			7	65
11331	6S6 24PK			10	81	35174	24V100/CL/E27			5	54	20812	50R20/NPET-6PK			5	55
43397	6S6 BB			10	81	91873	24V100/FR/E27			5	54	25529	51	51		11	85
11367	6S6 TRAY			5	51	13784	25A			10	81	25550	53	53		11	85
11369	6S6 TRAY			5	51	13744	25A15/RS			10	81	25576	55	55		11	85
11577	6S6/3			5	51	14553	25PAR36			3	37	25591	57	57		11	85
11660	6S6/7 TRAY 24PK			5	51	14554	25PAR36/NSP			3	37	14414	60A/CVG 24PK			6	57
11357	6S6DC 24PK			5	51	14556	25 PAR36 VWFL			3	37	44818	60A/NPET PQ1/6			5	55
11609	6S6DC 24PK			5	51	14555	25PAR 36WFL			3	37	40324	60A/S-120V-24PK			5	52
11592	6S6DC TRAY			5	51	14562	25PAR46			3	39	40325	60A/S-130V-24PK			5	52
11594	6S6/DC TRAY			5	51	14575	25S11/4SC			10	81	46845	60A/W/STG PQ2/10			6	57
23310	6.6A/PAR56/5			7	63	25388	27	27		11	86	35239	60A1/CL/E27			7	66
23294	6.6A/T10/1P			7	63	14129	30A15			7	65	91294	60A1/EXTR/CL/E27			7	66
23295	6.6A/T10P			7	63	19358	30A15/8			7	65	31535	60A1/FR/RS/B22			5	52
23300	6.6A/T14/2P			7	64	15291	30A15/CL			7	65	31546	60A1/FR/RS/E27			5	52
23298	6.6A/T14P			7	64	46849	30R20/6			7	65	91229	60A1/FR/RS/E27			5	52
11847	7 1/2S TRAY			5	51	15012	30S11DC			10	81	46888	60A15CF/STGPQ2/6			6	57
11848	7 1/2S TRAY			5	51	17948	30S11DC/RS			10	81	17960	60A21/54WWM/TS			7	66
41267	7 1/2S/CW CARD			5	51	42626	33A19/5			7	65	17961	60A21/54WWM/TS			7	66
11922	7 1/2S/CW TRAY			5	51	19877	35PAR36/H/FL30			3	37	17207	60PAR 12PK			10	81
25312	10	10		11	85	19873	35PAR36/H/SP5			3	37	17210	60PAR/1 12PK			10	81
12041	10S6/10			5	51	19876	35PAR36/H/SP8			3	37	17212	60PAR/2/R			10	81
12050	10S6/10 24PK			5	51	42072	35PAR36/H/VWFL			3	37	25643	64	64		10	75
12060	10S6/10DC 24PK			5	51	39220	37	37		11	88	35240	65A1/CL/E27			7	66
12249	10S11/79			5	51	40323	40A/S-130V-24PK			5	52	46858	65R30/FL/CVG			6	57
12185	10S11N			7	65	15554	40A/TS			7	66	20813	65R30/NPET 6PK			5	55
12188	10S11N/F			5	51	35218	40A1/CL/E27			7	66	47723	65R30FL/STGPQ1/6			6	57
12575	11S14			7	65	91293	40A1/EXTR/CL/E27			7	66	25652	67	67		11	86
12589	11S14/IF			7	65	31519	40A1/FR/RS/B22			5	52	38551	67A21/TS			7	66
12621	11S14/R			7	65	91228	40A1/FR/RS/B22			5	52	38552	67A21/TS			7	66
12632	11S14/Y			7	65	46887	40A15CF/STG CD2			6	57	38553	67A21/TS			7	66
25319	12	12		11	85	72961	40A21/CL			10	81	25692	68	68		10	83
25331	13	13		11	85	35156	40S11N/1 CARD			5	51	25692	68	68		11	86
12649	13/3 1/2 S11/95			10	81	15734	40S11N/1/F			5	51	17968	69A21/60WWM/TS			7	66
25354	14	14		11	85	15921	40T10P			7	63	17969	69A21/60WWM/TS			7	66
25371	15	15		11	86	29051	42V60/FR/E27			5	54	17323	69A21/TS			7	66
12784	15A			10	81	25442	43	43		11	89	17325	69A21/TS			7	66
19317	15A/GR/CL/8			7	65	25450	44	44		11	89	43606	70	70		11	88
16215	15A15/CL/BB			7	65	15937	45PAR38/6.6			7	63	35239	70A1/CL/E27			7	66
13210	15S11/13			5	51	25485	47	47		11	89	39218	73	73		11	88
13291	15S11/102			5	51	16535	50/50P25/28			10	83	38457	74	74		11	88
13188	15S11/3DC			10	81	16726	50/50T12			10	83	18274	75A/RS 12PK-5			5	52
42590	15S14/FBB			10	81	16147	50A/RS			5	52	17527	75A/RS 60PK			5	52
11137	15S14/GR/CL/8			7	65	33495	50A/RS 24PK			5	52	44546	75A/RS 6PK			5	52
13644	18/3 5A15/5			10	81	14727	50A/RS/CVG 24PK			6	57	47263	75A/RS/CVG-6PK			6	57
13659	18/3 1/2S11SC			10	81	16201	50A19/RS/SH			10	81	46895	75A/RS/STG PQ1/6			5	52
13655	18S11/1SC			10	81	16385	50A21			10	81	46895	75A/RS/STG PQ1/6			6	57

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47727	75E17/STG PQ1/6			6	57	47728	100F20/STG PQ1/6			6	57	26371	150PAR/SP/CVG			6	57
12846	75PAR/3FL/65WM			10	82	38854	100PAR/FL/27			3	38	19517	150PAR46			10	82
17682	75PAR/3FL/MINE			10	82	40029	100PAR/FL/G/27			3	38	19512	150PAR46/1			10	82
12847	75PAR/3SP/65WM			10	82	40030	100PAR/FL/R/27			3	38	41968	150PAR46/3MFL			3	39
17664	75PAR/3SP/MINE			10	82	40031	100PAR/FL/Y/27			3	38	35327	150PAR46/TS			7	66
36473	75PAR46/TS			7	66	92060	100PAR/IR/E27			9	72	14635	150PS25/CVG			6	57
18178	80PAR/FL/27			3	38	18822	100PAR38/FL			10	82	28720	150R/IR/CL/E27			9	72
18179	80PAR/FL/27			3	38	39503	100R30/CL			5	55	91372	150R/IR/R/E27			9	72
26347	80PAR/FL/BG/27			3	38	36147	105	105		11	85	91288	150R/IR/SA/E27			9	72
25736	81	81		10	75	42392	105A23/12			7	66	25927	157	157		11	86
25751	82	82		10	83	46859	110R30/FL/RS/1			10	83	25931	158	158		11	90
25751	82	82		11	86	25848	112	112		11	89	25956	161	161		11	90
40969	85	85		11	88	19008	116A21/TS			7	66	25962	168	168		11	90
40967	86	86		11	88	19009	116A21/TS			7	66	91542	175PAR/IR/E27			9	72
25772	88	88		11	86	19010	116A21/TS			7	66	19939	189PS25/64			7	66
39817	88PAR36/FL			10	81	39395	120PAR			7	63	19553	193	193		11	90
25778	89	89		11	86	18172	120PAR/FL/27			3	38	25965	194	194		11	90
25794	90	90		10	83	18173	120PAR/FL/27			3	38	44859	194NA	194NA		11	90
25794	90	90		11	86	18175	120PAR/SP/27			3	38	37983	198	198		11	87
25811	93	93		11	88	19024	120 PAR56 MFL			3	39	37985	199	199		11	88
25829	94	94		10	83	19023	120 PAR 56 VN5P			3	39	20354	200/99IF			5	53
25829	94	94		11	86	19025	120 PAR56 WFL			3	39	25937	200A21/99/CL 130			5	53
25836	97	97		11	86	46877	120R/40/FL/CVG			6	57	25936	200A21/99/IF			5	53
16287	98	98		11	86	47725	120R40FL/STG PQ6			6	57	20122	200PAR			10	81
30555	99-0201CSI			1	25	48069	125R40/1 6PK			9	71	20140	200PAR46/3MFL			3	39
30560	99-0211CID/HR			1	25	25916	147	147		11	90	20138	200PAR46/3MFL12P			3	39
30558	99-0221CSI			1	25	15731	149	149		7	67	20115	200PAR46/3NSP			3	39
30561	99-0222CID			1	25	15731	149	149		11	90	20117	200PAR46/3NSP			3	39
30563	99-0415CID			1	25	19668	150/99CL			5	53	49889	200PAR56/MFL			3	39
30567	99-0431CID/HR			1	25	19658	150/99/IF			5	53	33468	200PS30/23 24PK			5	53
30360	99-1225CID			1	29	19618	150/RS			5	53	20403	200PS30/24			5	53
30360	99-1225CID			3	41	14716	150/RS/CVG			6	57	14636	200PS30/CVG			6	57
30371	99-1425CID/HR			1	29	33465	150/VS			5	53	14637	200PS30/RS/CVG			6	57
30371	99-1425CID/HR			3	41	13025	150A/135WMP/99			5	53	42663	205PS25/12			7	66
30372	99-1435CID/HR			1	29	15818	150A/S			5	53	25988	210	210		11	85
30372	99-1435CID/HR			3	41	35245	150A1/CL/E27			7	66	39224	211-2	211-2		11	89
17904	100A			10	81	25929	150A21/99/IF			5	53	23220	212-2	212-2		11	89
18275	100A/RS 12PK-5			5	52	17973	150A21/135WM/TS			7	66	39356	214-2	214-2		11	89
17522	100A/RS 60PK			5	53	17974	150A21/135WM/TS			7	66	26008	222	222		11	89
17524	100A/RS 60PK			5	53	17625	150A21/RS			5	53	20575	240 PAR 56 VN5P			3	39
47262	100A/RS/CVG-6PK			6	57	12808	150PAR/3FL/120WM			10	82	20576	240 PAR56 MFL			3	39
47261	100A/RS/STGPQ1/6			5	52	19503	150PAR/3FL/MINE			10	82	20577	240 PAR56 WFL			3	39
47261	100A/RS/STGPQ1/6			6	57	19505	150PAR/3FL/MINE			10	82	26063	243	243		11	89
40329	100A/S-120V-24PK			5	52	12810	150PAR/3SP/120WM			10	82	37770	250R40/1 6PK			9	71
40330	100A/S-130V-24PK			5	53	19487	150PAR/3SP-MINE			10	82	46881	250R40/1/CVG			6	57
46846	100A/W/STGPQ2/10			6	57	19489	150PAR/3SP/MINE			10	82	46881	250R40/1/CVG			9	71
35246	100A1/CL/E27			7	66	40033	150PAR/FL/27			3	38	47724	250R40/1/STG			6	57
31560	100A1/FR/RS/B22			5	52	40035	150PAR/FL/27			3	38	47724	250R40/1/STG			9	71
92018	100A1/FR/RS/B22			5	53	19464	150PAR/FL/A			3	38	20724	250R40/4			9	71
31573	100A1/FR/RS/E27			5	52	19465	150PAR/FL/B			3	38	37771	250R40/10 6PK			9	71
91227	100A1/FR/RS/E27			5	53	26370	150PAR/FL/CVG			6	57	28724	250R/IR/CL/E27			9	72
17972	100A21/90WM/TS			7	66	19467	150PAR/FL/G			3	38	91391	250R/IR/R/E27			9	72
21315	100A21/99 60PK			5	53	19468	150PAR/FL/R			3	38	91390	250R/IR/SA/E27			9	72
18365	100A21/TS			7	66	48037	150PAR/FL/STGPQ6			6	57	26095	258	258		11	86
18512	100A23			10	81	91541	150PAR/IR/E27			9	72	26099	259	259		11	90

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42758	267	267		11	89	38918	400	400		10	75	47618	777	777		11	88
32569	275R/IR/CL/E27			9	72	21363	400G/FL			5	55	49718	778	778		11	89
32296	275R/IR/SA/E27			9	72	17542	400R40/FL			5	55	18344	780	780		11	89
32688	293	293		11	85	21408	405PS40/54			7	66	44840	782	782		11	89
20772	295PS35/58			7	66	26354	425	425		11	86	44500	783	783		7	67
18677	300PAR56/MFL			3	39	26441	456	456		11	85	44500	783	783		11	88
20836	300PAR56/MFL			3	39	39645	464	464		10	75	43760	784	784		7	67
20838	300PAR56/MFL			3	39	21530	500			5	54	43760	784	784		11	88
20852	300PAR56/MFL			3	39	21532	500			5	54	43762	785	785		7	67
18676	300PAR56/NSP			3	39	21643	500/99			5	54	43762	785	785		11	88
20803	300PAR56/NSP			3	39	21651	500/99IF			5	54	43764	786	786		7	67
20853	300PAR56/NSP			3	39	21581	500/IF			5	54	43764	786	786		11	88
18678	300PAR56/WFL			3	39	39409	500PAR64/MFL			1	28	43115	787	787		11	88
20849	300PAR56/WFL			3	39	39409	500PAR64/MFL			3	40	43117	788	788		11	88
20851	300PAR56/WFL			3	39	39411	500PAR64/MFL			1	28	43119	789	789		11	89
20854	300PAR56/WFL			3	39	39411	500PAR64/MFL			3	40	43121	790	790		11	89
23427	300PAR56/WFL			5	55	39406	500PAR64/NSP			1	28	43123	791	791		11	89
10200	300PAR56WFL12VPB			5	55	39406	500PAR64/NSP			3	40	20469	795	795		11	91
21254	300R/3FL			3	41	39412	500PAR64/WFL			1	28	40848	862	862		11	90
21256	300R/3FL			3	41	39412	500PAR64/WFL			3	40	13158	882	882		11	89
21263	300R/3FL			3	41	39414	500PAR64/WFL			1	28	18167	882X	882X		11	88
21213	300R/FL			3	41	39414	500PAR64/WFL			3	40	25639	887	887		11	89
21215	300R/FL			3	41	21687	500PS40			5	54	25703	888	888		11	90
21229	300R/FL/1			3	41	21734	500R/3FL			3	41	15246	891	891		11	88
26112	301	301		10	75	21736	500R/3FL			3	41	16481	892	892		11	89
26120	302	302		10	75	48316	500R40/5FL/SLV			5	55	20238	894	894		11	90
26127	303	303		10	75	21761	500R52			3	41	26345	894X	894X		11	90
26136	304	304		10	75	21872	500T20/50			5	54	14273	901	901		11	91
26143	305	305		10	75	26460	502	502		11	86	40675	901A	901A		11	91
26145	305AF	305AF		10	75	26485	509K	509K		11	86	40462	904	904		11	91
26152	306	306		10	75	44773	555	555		11	90	40289	906	906		11	91
26157	307	307		10	75	38269	558	558		11	90	44754	908	908		7	67
26161	307AF	307AF		10	75	39746	561	561		11	89	44754	908	908		11	91
26168	308	308		10	75	18442	590	590		11	90	44756	909	909		7	67
26171	308AF	308AF		10	75	25199	591	591		11	90	44756	909	909		11	91
26175	309	309		10	75	26549	605	605		11	86	40504	912	912		11	91
26191	311	311		10	75	21950	620PS40P			7	64	44769	914	914		7	67
26212	313	313		10	75	21952	620PS40P			7	64	44769	914	914		11	91
26238	315	315		10	75	26561	623	623		11	86	44771	915	915		7	67
26243	316	316		10	75	26567	624	624		10	83	44771	915	915		11	91
28519	327	327		10	75	26567	624	624		11	86	21860	916NA	916NA		11	91
21307	327PS35			7	66	26570	631	631		11	86	16860	917	917		11	91
28546	328	328		10	75	38866	656	656		11	90	17837	918	918		11	91
28567	330	330		10	75	38196	657	657		11	90	43374	921	921		11	91
28588	334	334		10	75	39999	658	658		11	90	13274	922	922		11	91
19866	350PAR56/SP			10	81	28706	685 Bulk	685		10	75	40180	923	923		11	91
26255	356	356		10	75	43132	705	705		10	75	13483	926	926		7	67
21331	375R40			9	71	22000	750			5	54	13483	926	926		11	91
21334	375R40/1			9	71	22117	750T24			5	54	13485	927	927		7	67
21336	375R40/10			9	71	26591	755	755		11	89	13485	927	927		11	91
28653	381	381		11	88	26593	756	756		11	89	16975	939	939		7	67
28657	382	382		11	88	26599	757	757		11	89	16975	939	939		11	91
28660	385	385		11	88	11014	767	767		10	75	23684	963	963		7	67
28662	386	386		11	88	11250	773	773		11	89	23684	963	963		11	91
28664	387	387		11	88	12723	774	774		7	67	22260	1000			5	54

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22284	1000			5	54	40943	1591	1591		10	75	28034	1968	1968		10	76
22301	1000/99			5	54	40945	1591AF	1591AF		10	75	28036	1970	1970		10	76
22310	1000/IF			5	54	27439	1594	1594		11	87	41938	1970X	1970X		10	76
22348	1000/SBIF			5	54	27461	1612	1612		11	87	32780	1974	1974		11	89
26709	1003	1003		11	85	27472	1619	1619		11	88	38545	1978X	1978X		10	76
26726	1004	1004		10	83	27488	1630	1630		11	87	38627	1982	1982		10	76
26726	1004	1004		11	85	27491	1631X	1631X		11	87	21061	1982SP	1982SP		10	76
26775	1034	1034		11	87	27496	1634	1634		11	87	39718	1983	1983		10	76
32147	1062	1062		11	86	27504	1638	1638		10	83	44717	1986	1986		10	76
26838	1073	1073		11	88	27504	1638	1638		11	87	47695	1987	1987		10	76
26854	1076	1076		11	86	27529	1662	1662		10	76	38535	1988	1988		10	76
37169	1096	1096		11	87	27532	1665	1665		10	76	19280	2040	2040		11	89
26872	1129	1129		11	88	27533	1665AF	1665AF		10	76	44760	2057	2057		11	87
26885	1133	1133		11	86	27548	1680	1680		10	76	44763	2057NA	2057NA		11	87
26903	1141	1141		11	88	33995	1680X	1680X		10	76	26697	2059	2059		10	76
26917	1142	1142		11	86	27557	1683	1683		10	76	26698	2059X	2059X		10	76
26945	1152	1152		11	86	27566	1691	1691		10	76	21494	2074	2074		11	89
12297	1154	1154		11	87	27568	1691AF	1691AF		10	76	34763	2232	2232		10	76
26955	1155	1155		11	86	27571	1692	1692		10	76	26702	2232LL	2232LL		10	76
26960	1156	1156		11	88	27630	1777	1777		10	76	43134	2232SB	2232SB		10	76
20248	1156NA	1156NA		11	88	27667	1813	1813		11	89	36906	2233	2233		10	76
26969	1157	1157		11	87	27677	1815	1815		11	89	28100	2331	2331		11	86
26975	1157NA	1157NA		11	87	27688	1816	1816		11	90	16291	2357	2357		11	87
27004	1176	1176		11	87	27707	1818	1818		10	76	15698	2357NA	2357NA		11	87
27021	1195	1195		11	86	27711	1819	1819		10	76	18047	2396	2396		11	88
27026	1196	1196		11	86	27727	1820	1820		10	76	19792	2556 BULK	2556		10	76
22524	1200T20			7	64	27749	1822	1822		11	90	19566	2586 BULK	2586		10	76
27032	1203	1203		10	75	27772	1828	1828		11	90	43805	2604X	2604X		11	89
27044	1224	1224		10	83	27776	1829	1829		10	76	36508	3011	3011		10	76
27044	1224	1224		11	86	27804	1835	1835		11	90	18389	3057	3057		11	87
39904	1229	1229		11	87	27816	1843	1843		10	76	18391	3057NA	3057NA		11	87
27092	1251	1251		11	86	27819	1847	1847		11	90	14698	3078	3078		10	76
27097	1252	1252		11	86	27833	1850	1850		11	90	21863	3156	3156		11	87
22523	1295NA	1295NA		11	88	27862	1864	1864		10	76	17172	3157	3157		11	87
12824	1308	1308		10	75	27868	1866	1866		11	90	17173	3157NA	3157NA		11	87
27118	1309	1309		10	75	40383	1873	1873		10	76	22525	3357/3457	3357		11	87
32098	1315	1315		10	75	27889	1876	1876		11	91	22526	3457NA	3457NA		11	87
34265	1317	1317		10	75	27907	1889	1889		11	90	24327	4013	4013		10	80
27150	1383	1383		10	75	27917	1891	1891		11	90	24339	4014	4014		7	67
27150	1383	1383		11	86	27927	1892	1892		11	90	24369	4019	4019		10	80
27154	1385	1385		10	75	27935	1893	1893		11	90	39585	4042	4042		7	67
27154	1385	1385		11	86	27945	1895	1895		11	85	40588	4044	4044		7	67
27159	1388	1388		11	86	34021	1939X	1939X		10	76	10540	4044-1	4044-1		7	67
27179	1408	1408		11	89	28008	1940	1940		10	76	25051	4313	4313		10	77
27193	1434	1434		11	91	45087	1944X	1944X		10	76	39366	4340	4340		10	79
27207	1445	1445		11	85	45087	1944X	1944X		11	91	39362	4350	4350		10	79
27252	1449	1449		11	85	18617	1946	1946		10	76	12961	4402A	4402A		10	79
27263	1450	1450		11	85	20094	1950L/P25/TS			7	66	24425	4405	4405		3	37
28310	1460	1460		11	87	20096	1950L/P25/TS			7	66	24430	4406	4406		10	80
37342	1460X	1460X		11	87	20097	1950L/P25/TS			7	66	24439	4410	4410		10	80
27305	1468	1468		11	87	28011	1958	1958		10	76	24448	4411	4411		10	80
27356	1487	1487		11	90	39641	1962B			11	89	37889	4411-1	4411-1		10	80
27382	1493	1493		11	87	12859	1962BG			11	89	48032	4411-3 Bulk	4411-3		10	80
27392	1495	1495		10	75	37947	1962DX			11	89	24454	4412	4412		10	79
44842	1495X	1495X		10	75	44152	1962DZ			11	89	24460	4412A	4412A		10	79

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24478	4414	4414		10	79	25005	4578	4578		10	79	31675	B7A			11	91
24483	4414A	4414A		10	79	25009	4579	4579		10	79	10933	BAB/PH	BAB		2	31
24487	4414R	4414R		10	79	24859	4580	4580		10	78	40886	BAH	BAH		2	35
22982	4415	4415		10	79	24862	4581	4581		10	78	40563	BBA	BBA		2	35
24499	4415A	4415A		10	79	24853	4582	4582		10	78	40564	BCA	BCA		2	35
22983	4416	4416		3	37	24867	4587	4587		10	77	36178	BCK	BCK		2	33
34901	4416-1 Bulk	4416-1		3	37	24873	4589	4589		10	77	48772	BCM-Q20MT32/4CL	BCM		1	18
24506	4416A	4416A		10	79	23509	4589-1 Bulk	4589-1		10	77	48773	BCM-Q20MT32/4CL	BCM		1	18
24513	4416R	4416R		10	79	24882	4591	4591		10	77	48774	BCM-Q20MT32/4CL	BCM		1	18
24531	4419	4419		10	80	24887	4593	4593		10	77	40658	BHB	BHB		2	32
24539	4421	4421		10	79	24891	4594	4594		10	77	29140	BLC	BLC		2	34
24542	4422	4422		10	80	24892	4595	4595		10	77	30232	BLK	BLK		2	35
24572	4434A	4434A		10	79	24898	4596	4596		10	77	29156	BLX	BLX		2	34
24577	4435	4435		3	39	24964	4626	4626		10	77	32137	BNF	BNF		2	34
24582	4436	4436		10	79	24966	4627	4627		10	77	29604	BRH	BRH		1	20
39932	4440X	4440X		10	80	33284	4635	4635		10	78	29604	BRH	BRH		2	33
39748	4440X-1	4440X-1		10	80	19632	4636-3	4636-3		10	79	18234	BRL	BRL		2	33
37046	4446	4446		7	67	39906	4700	4700		3	38	11966	BTL-Q500T6/CL/P	BTL	T17	1	19
40176	4460X	4460X		10	80	45427	4713	4713		10	77	16465	BTM-Q500T6/4CL/2P	BTM		1	19
24592	4461	4461		10	80	44724	4752	4752		10	79	11953	BTN-Q750T7/CL/2P	BTN		1	19
24596	4466	4466		10	80	24973	4800	4800		10	79	11954	BTP-Q750T7/4CL/2P	BTP		1	19
24613	4478	4478		10	79	24980	4811	4811		10	79	11955	BTR-Q1000T7/4CL/2P	BTR		1	19
24627	4502	4502		10	79	24981	4825R	4825R		10	79	38675	BVE	BVE		2	33
24640	4505	4505		10	77	24995	4880	4880		10	79	12554	BVT-Q1000T7/CL/MP	BVT		1	20
24650	4509	4509		10	77	45110	4912-1	4912-1		10	78	12553	BVV-Q1000T7/4CL/MP	BVV		1	20
41503	4509X	4509X		10	83	45113	4913-1 Bulk	4913-1		10	80	12555	BVW-Q2000T10/4CL/MP	BVW	CP53	1	20
11524	4509Y	4509Y		10	79	45116	4921-1	4921-1		10	78	39587	BWA-Q2000/4CL/BP	BWA		1	18
24654	4510	4510		10	80	28154	5004CW	5004CW		10	76	37086	BWF-Q2000/4CL	BWF		1	19
24663	4511	4511		10	80	28155	5004WW	5004WW		10	76	39680	BWM-Q750T7/4CL/TP	BWM		1	15
24673	4515	4515		3	37	28160	5008CW	5008CW		10	76	39792	BWN-Q1000T7/4CL/TP	BWN		1	15
24678	4516	4516		3	37	28163	5008WW	5008WW		10	76	30421	BXB	BXB		2	34
24690	4519	4519		10	83	28168	5013CW	5013CW		10	76	29525	CAL	CAL		2	34
24700	4522	4522		10	77	28169	5013WW	5013WW		10	77	29380	CAR	CAR		2	34
24721	4530	4530		10	79	27367	5104CW	5104CW		10	77	29169	CAX	CAX		2	34
24726	4531	4531		10	79	28173	5104WW	5104WW		10	77	29171	CAX	CAX		2	34
19628	4532	4532		10	77	12774	5106CW	5106CW		10	77	36117	CBA	CBA		2	33
24735	4535	4535		3	39	33612	5106WW	5106WW		10	77	29208	CBX/CBS	CBX/CBS		2	34
24742	4537	4537		10	77	27466	5108CW	5108CW		10	77	29257	CDD	CDD		2	34
40822	4537-2	4537-2		3	39	28175	5108WW	5108WW		10	77	29266	CDJ	CDJ		2	34
39022	4537X	4537X		10	83	12775	5113CW	5113CW		10	77	29244	CEB	CEB		2	34
24756	4541	4541		10	78	28178	5113WW	5113WW		10	77	43330	CEM	CEM		2	34
24764	4543	4543		10	83	16152	5557	5557		10	78	92696	CMH20/TC/U/830/G8.5			1	24
24768	4545	4545		10	83	25153	6045	6045		10	80	92079	CMH20/TC/UVC/U/830/G8.5			1	24
24780	4546	4546		3	37	28926	7387	7387		11	88	38696	CMH35/T/UVC/U/830/G12			1	24
24770	4546-1	4546-1		3	37	40190	7400	7400		10	79	38697	CMH35/TC/UVC/U/830/G8.5			1	24
24788	4547	4547		3	37	42385	7400-1 Bulk	7400-1		10	79	42070	CMH39/T/U/830/G12			1	24
24795	4551	4551		10	77	39987	7414Y	7414Y		10	79	90352	CMH39/TC/U/830/G8.5			1	24
40576	4552	4552		10	78	41865	7613	7613		7	67	92582	CMH70/T/U/830/G12			1	24
24799	4553	4553		10	77	45101	7613-1	7613-1		7	67	92583	CMH70/T/U/942/G12			1	24
24802	4554	4554		10	78	11421	7672-1	7672-1		7	67	36844	CMH70/T/UVC/U/830/G12			1	24
40583	4555	4555		10	78	26696	A-103			10	77	38701	CMH70/T/UVC/U/942/G12			1	24
40581	4557	4557		10	78	76663	AF6/2 6.6A 45W			7	63	92585	CMH70/TC/U/830/G8.5			1	24
40578	4559	4559		10	78	76664	AF6/5T 6.6A 100W			7	63	38700	CMH70/TC/UVC/U/830/G8.5			1	24
24828	4570	4570		10	77	76666	AF7/2 6.6A 200W			7	64	92587	CMH70/TD/830/Rx7s			1	24
24830	4571	4571		10	79	12064	B1A			11	90	92588	CMH70/TD/942/Rx7s			1	24

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38698	CMH70/TD/UVC/942/Rx7s			1	24	39724	CP90	CP90		1	16	43537	DDL	DDL		2	32
16959	CMH150/PAR64/830/ GX16d/MFL			1	29	39725	CP90	CP90		1	16	43206	DDM	DDM		2	31
16959	CMH150/PAR64/830/ GX16d/MFL			3	41	30415	CP91	CP91		1	17	43988	DDS	DDS		2	31
16958	CMH150/PAR64/830/ GX16d/SP			1	29	30423	CP91	CP91		1	17	12084	DE3175			11	90
16958	CMH150/PAR64/830/ GX16d/SP			3	41	30391	CP92	CP92		1	17	12085	DE3425			11	91
16960	CMH150/PAR64/830/ GX16d/WFL			1	29	30394	CP92	CP92		1	17	43950	DED	DED		2	31
16960	CMH150/PAR64/830/ GX16d/WFL			3	41	30397	CP92	CP92		1	17	29737	DEK/DFW/DHN	DEK/ DFW/DHN		2	34
16962	CMH150/PAR64/842/ GX16d/MFL			1	29	30384	CP93	CP93		1	17	36122	DFE	DFE		2	34
16962	CMH150/PAR64/842/ GX16d/MFL			3	41	30499	CP94	CP94		1	18	29386	DFN/DFC	DFN/DFC		2	34
16961	CMH150/PAR64/842/ GX16d/SP			1	29	30500	CP94	CP94		1	18	29338	DJL	DJL		2	34
16961	CMH150/PAR64/842/ GX16d/SP			3	41	30277	CP95			3	40	44854	DJT	DJT		2	31
16963	CMH150/PAR64/842/ GX16d/WFL			1	29	30278	CP95			3	40	40357	DKX/DSF-Q1500PS52/4	DKX		1	19
16963	CMH150/PAR64/842/ GX16d/WFL			3	41	30277	CP95/230V	CP95		1	29	39582	DKZ/DE-Q1000PS52/4	DKZ		1	19
92584	CMH150/T/U/830/G12			1	24	30278	CP95/240V	CP95		1	29	40216	DLD/DFZ	DLD/DFZ		2	34
92586	CMH150/T/U/942/G12			1	24	34024	CP105-1250/650	CP105		1	18	29366	DLS/DLG/DHX	DLS/ DLG/DHX		2	34
36863	CMH150/T/UVC/U/830/G12			1	24	34056	CP105-1250/650	CP105		1	18	40161	DNE	DNE		2	32
38694	CMH150/T/UVC/U/942/G12			1	24	10744	CSD250/2/SE			1	22	39742	DNF	DNF		2	32
92589	CMH150/TD/830/Rx7s			1	24	48461	CSR125/SE/HR			1	23	29959	DPT	DPT		2	34
92590	CMH150/TD/942/Rx7s			1	24	48450	CSR200/DE			1	23	41736	DPY-Q500T20/4CL	DPY	CP29	1	18
36912	CMH150/TD/UVC/ 830/Rx7s-24			1	24	48462	CSR200/SE/HR			1	23	29968	DRB	DRB		1	19
38692	CMH150/TD/UVC/ 942/Rx7s-24			1	24	21853	CSR400/SE/HR			1	23	29968	DRB	DRB		2	34
39654	CP23		CP23	1	16	15378	CSR575/2/SE			1	22	29979	DRC	DRC		1	19
39660	CP23		CP23	1	16	49492	CSR575/2/T/SE			1	22	29979	DRC	DRC		2	34
39651	CP24		CP24	1	16	48451	CSR575/DE			1	23	29947	DRS	DRS	A1/58	1	19
39653	CP24		CP24	1	16	48463	CSR575/SE/HR			1	23	29947	DRS	DRS		2	34
30505	CP29		CP29	1	18	49491	CSR700/2/SE			1	22	19926	DSE Q1000	DSE		1	19
30506	CP29		CP29	1	18	15380	CSR700/SA			1	22	19927	DSF Q1500	DSF		1	19
30513	CP30-1250/1250		CP30	1	18	49490	CSR1200/2/SE			1	22	29405	DSW	DSW		2	34
30514	CP30-1250/1250		CP30	1	18	48453	CSR1200/DE			1	23	30522	DTA-Q1500T8/4CL	DTA		1	20
30518	CP32-2500/2500		CP32	1	18	48452	CSR1200/S/DE			1	23	18305	DTY-Q10M/T24/4CL	DTY		1	18
30519	CP32-2500/2500		CP32	1	18	21849	CSR1200/SA			1	22	30304	DVY	DVY		1	15
20324	CP51		CP51	1	19	48464	CSR1200/SE/HR			1	23	30304	DVY	DVY		2	33
20311	CP53		CP53	1	20	21801	CSR2000/SA			1	22	41667	DWE-Q650PAR36/1	DWE		1	28
20312	CP53		CP53	1	20	48454	CSR2500/DE			1	23	41667	DWE-Q650PAR36/1			3	38
30515	CP58-1250/2500		CP58	1	18	48465	CSR2500/SE/HR			1	23	23800	DWT-Q1000T6/CL	DWT		1	20
30517	CP58-1250/2500		CP58	1	18	48455	CSR4000/DE			1	23	29578	DWZ	DWZ		2	33
29424	CP59		CP59	1	19	48466	CSR4000/SE/HR			1	23	29578	DWZ(30V)	DWZ	A1/266	1	20
29426	CP59		CP59	1	19	48456	CSR6000/DE			1	23	30151	DXB	DXB		2	35
30497	CP79		CP79	1	17	48467	CSR6000/SE/HR			1	23	30145	DXC	DXC		2	35
30498	CP79		CP79	1	17	48457	CSR12000/DE			1	23	30157	DXW-Q1000T5/4CL	DXW		1	20
90360	CP79		CP79	1	17	48468	CSR12000/SE/HR			1	23	36952	DXX	DXX	P2/13	1	20
12036	CP83		CP83	1	18	45459	CSR18000/DE			1	23	36952	DXX	DXX		2	33
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						34822	CSS575/855/GY9.5			1	25	30364	DYH	DYH		1	15
						10115	CXE300/BF			2	35	30364	DYH	DYH		2	33
						37564	CXZ-Q1500T10/4CL	CXZ		1	18	32071	DYP	DYP		2	33
						42697	CYV-Q1000T7/4CL/BP	CVV		1	18	33248	DYR	DYR	A1/233	1	17
						36636	CYX-Q2000T10/4CL	CYX		1	18	33248	DYR	DYR		2	33
						29664	CZA/CZB	CZA/CZB		2	34	33250	DYR	DYR	A1/233	1	17
						29677	CZX/DAB	CZX/DAB		2	34	33250	DYR	DYR		2	33
						29360	DCA	DCA		2	34	19479	DYS-5	DYS-5		2	33
						29364	DCH/DJA/DFP	DCH/ DJA/DFP		2	34	32955	DYS/DYV/BHC	DYS	A1/264	1	17
						29836	DDB	DDB		2	34						

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37695	DZE/FDS	DZE/FDS		2	33
30202	EAJ	EAJ		2	34
30281	EAL	EAL		2	35
40566	EBV	EBV		2	35
40567	EBW PH/B2	EBW PH/B2		2	33
40565	ECA	ECA		2	35
40568	ECT	ECT		2	35
41251	EFM	EFM		2	31
41252	EFN	EFN		2	31
41253	EFP	EFP		2	31
41254	EFR	EFR		2	32
39134	EGC-Q500/5CL/P	EGC		1	19
39135	EGE-Q500CL/P	EGE		1	19
39136	EGF-Q750/4CL/P	EGF		1	19
39137	EGG-Q750CL/P	EGG		1	19
38853	EGJ-Q1000/4/CL/P	EGJ		1	19
38852	EGK-Q1000/4/P	EGK		1	19
39138	EGM-Q1000CL/P	EGM		1	19
30373	EGN-Q500T8	EGN		1	17
39190	EGR-Q750T7/4CL	EGR		1	17
39191	EGT-Q1000T7/4CL	EGT		1	17
37527	EHA	EHA		2	33
39789	EHC-Q500/5CL	EHC		1	15
39768	EHD-Q500CL/TP	EHD		1	15
39771	EHF-Q750/4CL	EHF		1	15
39770	EHG-Q750CL/TP	EHG		1	15
14874	EHJ	EHJ		2	33
32882	EJA	EJA		2	32
23788	EJD-Q1000T3/3CL (185V)	EJD		1	21
23756	EJG-Q750T3/4CL	EJG		1	21
20883	EJG/HIR-Q525T2 1/2/4			1	21
29150	EJL	EJL		2	32
29151	EJM	EJM		2	32
32831	EJV	EJV		2	32
32886	EJY	EJY		2	32
33934	EKB-Q420/4CL/2PP	EKB		1	16
34328	EKD-Q650/3CL/2PP	EKD		1	16
35200	EKE	EKE		2	32
20249	EKM-Q1MT3/4CLP2/7	EKM	P2/7	1	21
20253	EKM-Q1MT3/4CLP2/7	EKM	P2/7	1	21
35800	EKP/ENA	EKP/ENA		2	31
36899	EKX	EKX		2	32
36902	EKZ	EKZ		2	31
37412	ELB	ELB		2	32
37462	ELC	ELC		2	32
15377	ELC/500	ELC/500		2	32
22023	ELC/C	ELC/C		2	32
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42612	EML	EML		2	33
40017	EMM/EKS	EMM/ EKS		2	32
38685	ENG	ENG		2	32
38686	ENH	ENH		2	32
25475	ENL	ENL		2	31
40248	ENW/ENC	ENW/ ENC		2	31
41705	ENX	ENX		2	32
19475	ENX-5	ENX-5		2	32
40598	ENZ	ENZ		2	32
41430	EPN	EPN		2	31
19897	EPR	EPR		2	33
41729	EPT	EPT		2	31
41882	EPV	EPV		2	31
41702	EPW	EPW		2	32
42614	EPX	EPX		2	31
41874	ERV	ERV		2	32
43756	ESD	ESD		2	32
11698	ESJ	ESJ		2	31
11322	ETJ	ETJ		2	32
38311	ETT	ETT		2	33
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11110	EVW	EVW		2	32
30533	EWE	EWE		1	19
30534	EWE	EWE		1	19
11132	EWf	EWf		2	32
11427	EWR UNIT			7	63
10925	EXC-Q1MPAR64CP60	EXC	CP60	1	29
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93409	EXC-Q1MPAR64CP60	EXC	CP60	1	29
93409	EXC-Q1MPAR64CP60			3	40
10928	EXD-Q1MPAR64CP61	EXD	CP61	1	29
10928	EXD-Q1MPAR64CP61			3	40
10929	EXD-Q1MPAR64CP61	EXD	CP61	1	29
10929	EXD-Q1MPAR64CP61			3	40
10930	EXE-Q1MPAR64CP62	EXE	CP62	1	29
10930	EXE-Q1MPAR64CP62			3	40
10931	EXE-Q1MPAR64CP62	EXE	CP62	1	29
10931	EXE-Q1MPAR64CP62			3	40
35482	EXG/PAR64/WFL230V	EXG		1	29
35482	EXG/PAR64/WFL230V			3	40
35483	EXG/PAR64/WFL240V	EXG		1	29
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11478	EXL			7	63
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41783	EZA/4			7	63
23071	EZC			7	63
15832	EZF/EZJ	EZF		2	31
15477	EZK	EZK		2	32
15243	EZL UNIT			7	64
10019	F4T5/BLB			4	46
41435	F4T5/CW/CVG			6	58
39882	F4W/BLB			4	46
41106	F6T5/CW/CVG			6	58
39883	F6W/BLB			4	46
46720	F8T5/AMBER2/CVG			4	46
10077	F8T5/BLB			4	46
46714	F8T5/BLUE65/CVG			4	46
41107	F8T5/CW/CVG			6	58
46728	F8T5/GREEN89/CVG			4	46
46717	F8T5/PINK34/CVG			4	46
46723	F8T5/YELLOW14/CVG			4	46
39884	F8W/BLB			4	46
41108	F13T5/CW/CVG			6	58
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40903	F14T8/AR/FS/6PK			4	48
41375	F14T8/AR/SA 6PK			4	48
16964	F14T8 F&SA			4	48
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16986	F14T8 SW			4	48
46721	F15T8/AMBER2/CVG			4	46
22907	F15T8/AR/FR 6PK			4	48
22910	F15T8/AR/FS 6PK			4	48
22920	F15T8/AR/SA 6PK			4	48
35884	F15T8/BL 6PK			4	45
10172	F15T8/BLB			4	46
35885	F15T8/BLB 6PK			4	46
46715	F15T8/BLUE65/CVG			4	46
15722	F15T8/CINEMA32			1	26
15800	F15T8/CINEMA32/CVG			1	26
15723	F15T8/CINEMA55			1	26
15801	F15T8/CINEMA55/CVG			1	26
41110	F15T8/CW/CVG			6	59
16965	F15T8 F&SA			4	48
16977	F15T8 FA			4	48
46729	F15T8/GREEN89/CVG			4	46
46627	F15T8/KB/CVG/UPC			6	59
46718	F15T8/PINK34/CVG			4	46
49892	F15T8/PL/AQ 6PK			4	48
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35884	F15WBL 365			4	45	48097	F24T12/CW/HO-CT			4	43	15993	F32T8/G/89ECOCVG			4	47
46722	F15T12/AMBER2/CVG			4	47	48090	F24T12/CW/HO/CVG			6	61	25784	F32T8/GO/CVG			4	47
46716	F15T12/BLUE65/CVG			4	47	48175	F25T8/A/20/CVG			4	47	48102	F32T8/R/24/CVG			4	47
41114	F15T12/CW/CVG			6	61	48177	F25T8/B/80/CVG			4	47	15994	F32T8/R/24ECOCVG			4	47
46719	F15T12/PINK34/CVG			4	47	16968	F25T8 F&SA			4	48	40803	F32T8/SP30/ECO/CVG			6	58
46726	F15T12/YELLOW14/CVG			4	47	16980	F25T8 FA			4	48	40286	F32T8/SP30/IS/WM/ECO/CVG			6	59
48171	F17T8/A/20/CVG			4	46	48178	F25T8/G/90/CVG			4	47	23665	F32T8/SP30U6/CVG			6	61
48173	F17T8/B/80/CVG			4	46	25783	F25T8/GO/CVG			4	47	40804	F32T8/SP35/ECO/CVG			6	58
48174	F17T8/G/90/CVG			4	46	48176	F25T8/R/26/CVG			4	47	40299	F32T8/SP35/IS/WM/ECO/CVG			6	59
15724	F17T8/CINEMA32			1	26	15978	F25T8/SP30/ECO/CVG			6	58	23656	F32T8/SP35U6/CVG			6	61
15806	F17T8/CINEMA32/CVG			1	26	15981	F25T8/SP35/ECO/CVG			6	58	40812	F32T8/SP41/ECO/CVG			6	58
15725	F17T8/CINEMA55			1	26	15984	F25T8/SP41/ECO/CVG			6	58	40309	F32T8/SP41/IS/WM/ECO/CVG			6	59
15810	F17T8/CINEMA55/CVG			1	26	15989	F25T8/SPX30/ECOCVG			6	58	23657	F32T8/SP41U6/CVG			6	61
25779	F17T8/GO/CVG			4	47	15990	F25T8/SPX35/ECOCVG			6	58	18366	F32T8/SP50/ECO/CVG			6	58
48172	F17T8/R/26/CVG			4	46	15991	F25T8/SPX41/ECOCVG			6	58	18368	F32T8/SP65/ECO/CVG			6	58
15974	F17T8/SP35/ECO/CVG			6	58	16991	F25T8 SW			4	48	41125	F32T8/SPX30/ECO/CVG			6	58
15877	F17T8/SP41/ECO/CVG			6	58	10282	F25T12CW/28 6PK			4	45	23658	F32T8/SPX30U6/CVG			6	61
15975	F17T8/SPX35/ECO/CVG			6	58	38201	F25T12/CW/33 6PK			4	45	41126	F32T8/SPX35/ECO/CVG			6	58
15976	F17T8/SPX41/ECO/CVG			6	58	10286	F25T12/D/28			4	45	23659	F32T8/SPX35U6/CVG			6	61
16966	F18T8 F&SA			4	48	10299	F25T12/D/33			4	45	41127	F32T8/SPX41/ECO/CVG			6	58
16979	F18T8 FA			4	48	10293	F25T12/WW/33			4	45	23660	F32T8/SPX41U6/CVG			6	60
17003	F18T8 REP			4	48	41120	F25T12/WW/33/CVG			6	61	15971	F32T8/SPX50/ECO/CVG			6	58
16988	F18T8 SW			4	48	10702	F26"TB/CW/4"			4	45	14560	F32T8/SXL/SP35/ECO/CVG			6	59
17203	F18W/T8/830 GE CVG XL-R ECO			6	58	38199	F26"TB/CW/4 6PK			4	45	14551	F32T8/SXL/SP41/ECO/CVG			6	59
17204	F18W/T8/835/GE/CVG /XL-R ECO			6	58	25768	F28T5/GO/CVG			4	47	10023	F32T8/XL/SP30/WM/ECO			6	59
17205	F18W/T8/840 GE CVG XL-R ECO			6	58	17704	F28"TB/CW/4 6PK			4	45	40297	F32T8/XL/SP35/WM/ECO			6	59
93430	F18W/T8/860 GE CVG XL-R ECO			6	58	41121	F28T8/CW/4/CVG			6	59	40310	F32T8/XL/SP41/WM/ECO			6	59
22908	F20T12/AR/FR 6PK			4	49	10349	F30"TB/CW/4"			4	45	15972	F32T8/XL/SPX30ECO/CVG			6	58
22911	F20T12/AR/FS 6PK			4	49	10355	F30"TB/CW			4	45	00267	F32T8/XL/SPX30/HL/ECO/CVG			6	59
22922	F20T12/AR/SA 6PK			4	49	41374	F30T8/AR/FR 6PK			4	48	15973	F32T8/XL/SPX35ECO/CVG			6	58
10231	F20T12/B 6PK			4	47	40904	F30T8/AR/FS 6PK			4	48	00268	F32T8/XL/SPX35/HL/ECO/CVG			6	59
48260	F20T12/B/65/CVG			4	47	41376	F30T8/AR/SA 6PK			4	48	18369	F32T8/XL/SPX41ECO/CVG			6	58
10244	F20T12/BL 6PK			4	45	41122	F30T8/CW/CVG			6	59	00269	F32T8/XL/SPX41/HL/ECO/CVG			6	59
34747	F20T12/BLB 6PK			4	46	16969	F30T8 F&SA			4	48	40109	F34/CW/RS/WM/CVG			6	60
46377	F20T12/C50/CVG			6	61	16981	F30T8 FA			4	48	40805	F34/CW/RS/WM/ECO/CVG			6	60
15558	F20T12/CINEMA32			1	26	17004	F30T8 REP			4	49	40806	F34/LW/RS/WM/CVG			6	60
15766	F20T12/CINEMA32/CVG			1	26	46206	F30T8/SPX30/CVG			6	59	40112	F34/SP35/RS/WM/CVG			6	60
15712	F20T12/CINEMA32/HO			1	26	16992	F30T8 SW			4	49	40113	F34/SP41/RS/WM/CVG			6	60
15775	F20T12/CINEMA32/HO/CVG			1	26	15714	F30T12/CINEMA32			1	26	41138	F34/SPX30/RS/WM/ECO/CVG			6	60
15710	F20T12/CINEMA55			1	26	15779	F30T12/CINEMA32/CVG			1	26	41139	F34/SPX35/RS/WM/ECO/CVG			6	60
15774	F20T12/CINEMA55/CVG			1	26	15715	F30T12/CINEMA55			1	26	40114	F34/SPX41/RS/WM/CVG			6	60
15713	F20T12/CINEMA55/HO			1	26	15780	F30T12/CINEMA55/CVG			1	26	40110	F34/WWW/RS/WM/CVG			6	60
15776	F20T12/CINEMA55/HO/CVG			1	26	40126	F30T12/CW/RS/CVG			6	60	23664	F35CW/ECO/U6/CVG/UPC			6	61
40125	F20T12/CW/CVG			6	61	46211	F30T12/SP35/CVG			6	60	17007	F36BX F&SA			4	49
41000	F20T12/CW/CVG/UPC			6	61	41123	F30T12/SPX30/RS/CVG			6	60	17010	F36BX FA			4	49
10233	F20T12/G 6PK			4	47	41124	F30T12/SPX35/RS/CVG			6	60	17012	F36BX SW			4	49
48261	F20T12/G/89/CVG			4	47	41378	F30T12/SR 6PK			4	49	16970	F36T8 F&SA			4	49
46622	F20T12/KB/CVG/UPC			6	61	92882	F32T8/AR/FS			4	49	16982	F36T8 FA			4	49
49891	F20T12/PL/AQ 6PK			4	49	48103	F32T8/B/65/CVG			4	47	17006	F36T8 REP			4	49
48259	F20T12/R/24/CVG			4	47	15992	F32T8/B/65ECOCVG			4	47	16995	F36T8 SW			4	49
46218	F20T12/SP35/CVG			6	61	16808	F32T8/B/80/CVG			4	47	17208	F36W/T8/830 GE CVG XL-R ECO			6	58
41116	F20T12/SPX35/CVG			6	61	47868	F32T8/CINEMA32			1	26	17202	F36W/T8/835 GE CVG XL-R ECO			6	58
22905	F20T12/SR 6PK			4	49	47881	F32T8/CINEMA32/CVG			1	26	17209	F36W/T8/840 GE CVG XL-R ECO			6	58
34747	F20W/BLB			4	46	47869	F32T8/CINEMA55			1	26	93437	F36W/T8/860 GE CVG XL-R ECO			6	58
41117	F24T8/CW/4/CVG			6	59	47882	F32T8/CINEMA55/CVG			1	26	16971	F38T8 F&SA			4	49

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16999	F38T8 SW			4	49	45976	F48T12/CW/HO-AT			4	43	46198	F72T10/CW/VHO-CT			4	44
10514	F40/B 6 PK			4	47	40129	F48T12/CW/HO/CVG			6	61	10858	F72T10/J/CW			4	44
16817	F40B/CVG			4	47	46195	F48T12/CW/VHO-CT			4	44	15718	F72T12/CINEMA32/HO			1	26
10526	F40BL 6PK			4	45	41969	F48T12/D/HO/CVG			6	61	15785	F72T12/CINEMA32/ HO/CVG			1	26
40537	F40BL/U/3			4	45	41606	F48T12/J/CW1500/0			4	44	15719	F72T12/CINEMA55/HO			1	26
10531	F40BLB 6PK			4	46	48091	F48T12/SP35/CVG			6	60	15786	F72T12/CINEMA55/ HO/CVG			1	26
41132	F40/C50/CVG			6	60	48530	F48T12/SP35/HO-AT			4	43	13762	F72T12/CW/1500/0			4	44
41133	F40/C75/CVG			6	60	47352	F48T12/SPX30/HO-CT			4	43	46199	F72T12/CW/HO-AT			4	43
40111	F40/CW/CVG			6	60	41144	F48T12/SPX35/CVG			6	60	40811	F72T12/CW/HO/CVG			6	61
41436	F40/CW/CVG 6PACK			6	60	41146	F48T12/SPX35/HO/CVG			6	61	46200	F72T12/CW/VHO-CT			4	44
41964	F40/D/CVG			6	60	40092	F54" T12/SPB			4	49	25852	F72T12/GO/CVG			4	48
41965	F40/DX/CVG			6	60	26390	F54" T17/SPB			4	49	41612	F72T12/J/CW1500/0			4	44
10517	F40/G 6PK			4	47	45851	F55BX/AR/FS 6PK			4	49	48094	F72T12/N/HO/CVG			6	61
25850	F40/GQ/CVG			4	48	15811	F55BX/CINEMA32			1	26	46213	F72T12/SP35/CVG			6	60
46623	F40/KB/CVG/UPC			6	60	15814	F55BX/CINEMA56			1	26	47346	F72T12/SP35/HO-CT			4	43
47343	F40/N/CVG			6	60	22084	F55BX/CINPLUS/32			1	26	46207	F72T12/SP35/HO/CVG			6	61
49893	F40PL/AQ 6PK			4	49	22085	F55BX/CINPLUS/56			1	26	46201	F72T12/SP41/HO-CT			4	43
23661	F40/SP30/U6/CVG			6	61	17008	F55BX F&SA			4	49	41151	F72T12/SPX30/CVG			6	60
23662	F40/SP35/U6/CVG			6	61	17011	F55BX FA			4	49	41152	F72T12/SPX30/HO/CVG			6	61
23663	F40/SP41/U6/CVG			6	61	17013	F55BX SW			4	49	41153	F72T12/SPX35/CVG			6	60
46426	F40/SP65/CVG			6	60	16148	F58T8/835/ARCTIC			4	43	48095	F72T12/SPX35/HO-CT			4	43
41135	F40/SPX30/CVG			6	60	23752	F58T8/841/ARCTIC			4	43	41154	F72T12/SPX35/HO/CVG			6	61
41136	F40/SPX35/CVG			6	60	16972	F58T8 F&SA			4	49	41156	F84T12/CW/HO/CVG			6	61
41137	F40/SPX41/CVG			6	60	16985	F58T8 FA			4	49	25810	F96T8/GO/CVG			4	47
41130	F40T8/SP35/CVG			6	59	17000	F58T8 SW			4	49	40094	F96T8/SP30/CVG			6	59
41131	F40T8/SPX35/CVG			6	59	12403	F58W/T8/830/GE/CVG/ XL-R ECO			6	59	40095	F96T8/SP35/CVG			6	59
47351	F40T8/SPX41/CVG			6	59	12405	F58W/T8/835/GE/CVG/ XL-R ECO			6	59	40107	F96T8/SP35/HO/CVG			6	59
22909	F40T12/AR/FR 6PK			4	49	35444	F58W/T8/835PLYLX			4	43	40096	F96T8/SP41/CVG			6	59
22914	F40T12/AR/FS 6PK			4	49	12407	F58W/T8/840/GE/CVG/ XL-R ECO			6	59	40108	F96T8/SP41/HO/CVG			6	59
22923	F40T12/AR/SA 6PK			4	49	35445	F58W/T8/840PLYLX			4	43	40099	F96T8/SPX30/CVG			6	59
48100	F40T12/B/65/CVG			4	47	39683	F59" T12/SPB			4	49	40105	F96T8/SPX35/CVG			6	59
47857	F40T12/CINEMA32			1	26	39157	F60T10/CW			4	44	40106	F96T8/SPX41/CVG			6	59
47876	F40T12/CINEMA32/CVG			1	26	13002	F60T10/CW 6PK			4	44	46208	F96T12/C50/CVG			6	60
15716	F40T12/CINEMA32/HO			1	26	46197	F60T10/CW/VHO-CT			4	44	15720	F96T12/CINEMA32/HO			1	26
15782	F40T12/CINEMA32/ HO/CVG			1	26	40441	F60T10/J/CW			4	44	15794	F96T12/CINEMA32/ HO/CVG			1	26
47864	F40T12/CINEMA55			1	26	17135	F60T10/SP30			4	44	15721	F96T12/CINEMA55/HO			1	26
47877	F40T12/CINEMA55/CVG			1	26	41147	F60T12/CW/CVG			6	60	15798	F96T12/CINEMA55/ HO/CVG			1	26
15717	F40T12/CINEMA55/HO			1	26	47353	F60T12/CW/HO-CT			4	43	13788	F96T12/CW/1500/0			4	44
15783	F40T12/CINEMA55/ HO/CVG			1	26	41148	F60T12/CW/HO/CVG			6	61	47350	F96T12/CW-CT			4	43
48101	F40T12/G/89/CVG			4	47	46422	F64T6/CW/CVG			6	58	40117	F96T12/CW/CVG			6	60
48099	F40T12/R/24/CVG			4	47	41143	F64T6/SP35/CVG			6	58	45912	F96T12/CW/HO-AT			4	44
46212	F40T12/SP30/CVG			6	60	16149	F70T8/835/ARCTIC			4	43	11918	F96T12/CW/HO/CT			4	44
46214	F40T12/SP35/CVG			6	60	23754	F70T8/841/ARCTIC			4	43	40808	F96T12/CW/HO/CVG			6	61
22906	F40T12/SR 6PK			4	49	12421	F70W/T8/830/GE/CVG/ XL-R ECO			6	59	40116	F96T12/CW/HO/WM/CVG			6	61
25618	F40W/BLB			4	46	12423	F70W/T8/835/GE/CVG/ XL-R ECO			6	59	16821	F96T12/CW/HO/WM/ ECO/CVG			6	61
41140	F42T6/CW/CVG			6	58	35579	F70W/T8/835PLYLX			4	43	46202	F96T12/CW/VHO-CT			4	44
41142	F42T6/SP35/CVG			6	58	12424	F70W/T8/840/GE/CVG/ XL- ECO			6	59	40115	F96T12/CW/WM/CVG			6	60
41141	F42T6/WW/CVG			6	58	35580	F70W/T8/840PLYLX			4	43	40807	F96T12/CW/WM/ECO/CVG			6	61
46625	F48"/25W/UTSL/CVG/UPC			6	60	41149	F72T8/CW/CVG			6	59	11919	F96T12/D/HO/CT			4	44
10742	F48T10/CW			4	44							46424	F96T12/D/HO/CVG			6	61
46196	F48T10/CW/VHO-CT			4	44												
10743	F48T10/J/CW			4	44												
34206	F48T12/CW/1500/0			4	44												

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41973	F96T12/DX/CVG			6	60	39738	FEP-Q1MT6/4CL	FEP	CP77	1	15	39780	FSL	FSL	CP81	1	16
46430	F96T12/DX/HO/CVG			6	61	33760	FER-Q1000T6/4CL	FER		1	20	20310	FTL	FTL	CP43	1	17
25853	F96T12/GO/CVG			4	48	35338	FEX-Q2MT8/4CL	FEX	P2/27	1	20	20309	FTM	FTM	CP43	1	17
25854	F96T12/GO/HO/CVG			4	48	35339	FEX-Q2MT8/4CL	FEX	P2/27	1	20	39241	FVA	FVA	CP70	1	16
41613	F96T12/J/CW1500/0			4	44	39790	FEY-Q2000T8/4CL	FEY	P2/27	1	20	39242	FVB	FVB	CP70	1	16
46215	F96T12/SP35/CVG			6	60	29592	FFJ	FFJ		2	33	39657	FWP	FWP	T19	1	16
45979	F96T12/SP35/HO-CT			4	44	30276	FFM	FFM		1	20	39658	FWR	FWR	T19	1	16
46210	F96T12/SP35/HO/CVG			6	61	30276	FFM	FFM		2	33	39723	FWS	FWS	T29	1	16
40118	F96T12/SP35/HO/WM/CVG			6	61	13233	FFN-Q1000PAR64/1	FFN		1	28	39667	FWT	FWT	T29	1	16
40124	F96T12/SP35/WM/CVG			6	61	13233	FFN-Q1000PAR64/1	FFN		3	40	21613	FXL	FXL		2	32
45993	F96T12/SP35/WMP/CVG			6	60	13229	FFP-Q1000PAR64/2	FFP		1	28	15872	G4T5			8	69
45994	F96T12/SP35/WMP/ECOCVG			6	51	13229	FFP-Q1000PAR64/2	FFP		3	40	15873	G6T5			8	69
40123	F96T12/SP41/HO/WM/CVG			6	61	13228	FFR-Q1000PAR64/5	FFR		1	28	11077	G8T5			8	69
45264	F96T12/SP65/HO/CVG			6	61	13228	FFR-Q1000PAR64/5	FFR		3	40	11078	G15T8			8	69
41157	F96T12/SPX30/CVG			6	60	13227	FFS-Q1000PAR64/6	FFS		1	28	16494	G16T5			8	69
41160	F96T12/SPX30/HO/CVG			6	61	13227	FFS-Q1000PAR64/6	FFS		3	40	11082	G25T8			8	69
41158	F96T12/SPX35/CVG			6	60	20884	FFT/HIR-Q675T3/4			1	21	11080	G30T8			8	69
48096	F96T12/SPX35/HO-CT			4	44	33280	FFT-Q1000T3/1CL	FFT		1	21	15874	G36T5			8	69
41161	F96T12/SPX35/HO/CVG			6	61	13226	FGM-Q1000PAR64/3	FGM		1	28	15875	G55T8/HO			8	69
41159	F96T12/SPX41/CVG			6	60	13226	FGM-Q1000PAR64/3	FGM		3	40	15864	G64T5			8	69
41162	F96T12/SPX41/HO/CVG			6	61	13225	FGN-Q1000PAR64/7D	FGN		1	28	16479	GBX5/UVC			8	69
30325	FAD-Q650T4/4CL	FAD	P2/6	1	20	13225	FGN-Q1000PAR64/7D	FGN		3	40	15877	GBX9/UVC			8	69
29581	FAL	FAL		2	33	41229	FGT-Q1500T4/4	FGT		1	21	15879	GBX11/UVC			8	69
41668	FAY-Q650PAR36/3D	FAY		1	28	23792	FHM-Q1000/T3/4	FHM	P2/29	1	21	15881	GBX13/UVC			8	69
41668	FAY-Q650PAR36/3D	FAY		3	38	47614	FHS	FHS		2	31	15882	GBX18/UVC/2G11			8	69
41669	FBE-Q650PAR36/5D	FBE		1	28	47914	FHX	FHX		2	31	15883	GBX36/UVC/2G11			8	69
41669	FBE-Q650PAR36/5D	FBE		3	38	30541	FKB	FKB	T13	1	19	15885	GBX55/UVC/2G11			8	69
33663	FBG/FBD	FBG		1	15	20385	FKD	FKD	T14	1	19	39457	GCS	GCS	T27	1	17
33663	FBG/FBD	FBG/FBD		2	33	30532	FKE	FKE	T15	1	19	39636	GCS	GCS	T26	1	17
41671	FBO-Q650PAR36/5	FBO		1	28	30535	FKF	FKF	T17	1	19	39456	GCT	GCT	T27	1	17
41671	FBO-Q650PAR36/5	FBO		3	38	20320	FKH	FKH	CP39	1	17	39635	GCT	GCT	T26	1	17
47912	FBS25/BLB/PP			4	46	20321	FKH	FKH	CP39	1	17	39455	GCV	GCV	T25	1	17
12263	FBS25/GS/PP			4	49	20286	FKJ	FKJ	CP40	1	17	39717	GCV	GCV	T18	1	17
30343	FBX-Q650T4/4	FBX	P2/6	1	20	39655	FKJ	FKJ	CP40	1	17	39262	GCW	GCW	T25	1	17
30374	FBY-Q1000T5/4	FBY		1	20	31844	FKK	FKK	CP41	1	18	39629	GCW	GCW	T18	1	17
25665	FC8T9/BLB			4	46	31849	FKK	FKK	CP41	1	18	11134	GEMINI 300 (EZG)			2	35
29598	FCB	FCB	A1/228	1	20	20323	FKM	FKM	CP51	1	19	34812	GFA-Q1200PAR64/5	GFA		1	29
29598	FCB	FCB		2	33	30546	FKN	FKN	CP52	1	19	34812	GFA-Q1200PAR64/5	GFA		3	40
13895	FCM/HIR-Q650T3/4	FCM		1	21	39734	FKR	FKR		1	15	34810	GFB-Q1200PAR64/2	GFB		1	29
23797	FCM-Q1000T3/4CL	FCM	P2/28	1	21	39735	FKR	FKR		1	15	34810	GFB-Q1200PAR64/2	GFB		3	40
14876	FCR	FCR		2	33	39781	FKW-Q300T8	FKW	CP81	1	16	34808	GFC-Q1200PAR64/1	GFC		1	29
13598	FCS	FCS		2	33	39730	FLK/LL-Q575T6	-		1	15	34808	GFC-Q1200PAR64/1	GFC		3	40
35853	FCV-Q1000/4	FCV		1	15	11450	FLK-Q575T6	FLK		1	15	39750	GKV	GKV		1	15
41672	FCW-Q650PAR36/6	FCW		1	28	31964	FLT	FLT		2	31	39739	GKV-Q575T6/4CL	GKV		1	15
41672	FCW-Q650PAR36/6	FCW		3	38	19886	FLW	FLW		2	33	39751	GKV/LL	GKV		1	15
41673	FCX-Q650PAR36/7	FCX		1	28	14887	FML	FML		2	31	39752	GKV/LL	GKV		1	15
41673	FCX-Q650PAR36/7	FCX		3	38	30475	FMR-Q600T5	FMR		1	17	93428	GLA-Q575T6/4CL	GLA		1	15
23841	FDB-Q1500T4/4CL	FDB		1	21	18241	FNT	FNT		2	33	93429	GLC-Q575T6/5CL	GLC		1	15
20881	FDF/HIR-Q350T2/4CL			1	21	39630	FRE	FRE	T26	1	17	92771	GLD-Q750T6/4CL	GLD		1	15
23735	FDF-Q500T3/4CL	FDF	P2/30	1	21	39623	FRG-Q500T8	FRG	CP82	1	17	92773	GLE-Q750T6/4CL	GLE		1	15
23734	FDN-Q500T3/4	FDN	P2/31	1	21	39624	FRH	FRH	CP82	1	17	27328	H1-55			11	90
35321	FDT	FDT		2	33	39628	FRJ	FRJ	CP82	1	17	27569	H1-70/28V			11	90
36878	FDV	FDV		2	33	39637	FRK-Q650T8	FRK	CP89	1	17	27329	H1-100			11	90
39769	FEL-Q1000/4CL	FEL	CP77	1	15	39640	FRL	FRL	CP89	1	17	27330	H2-55			11	91
39736	FEP-Q1MT6/4CL	FEP	CP77	1	15	39642	FRM	FRM	CP89	1	17	23442	H3-35			11	91
						39779	FSK	FSK	CP81	1	16	27331	H3-55			11	91

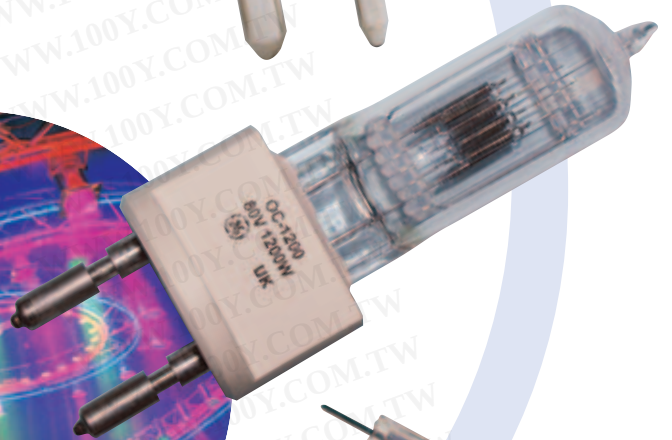
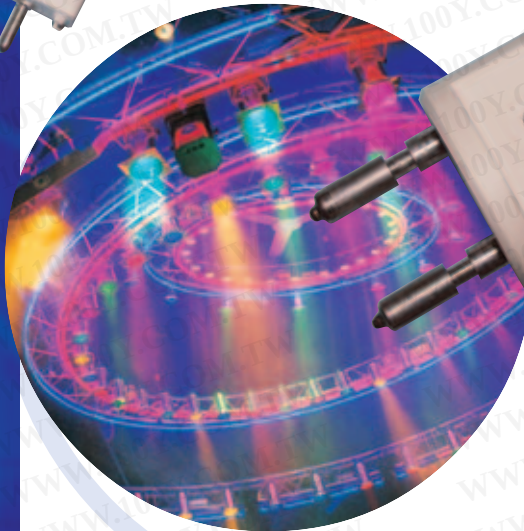
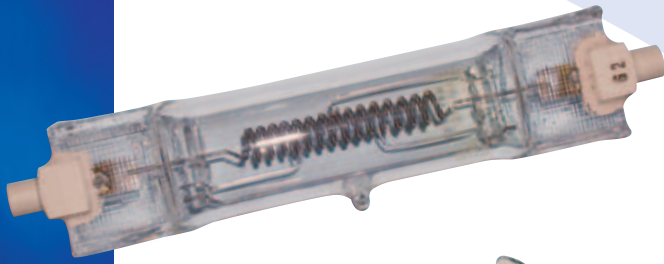
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23428	H3-65/28V			11	91	37128	HPL575			1	16	38271	Q6.6A/PAR56/2			7	64
27332	H3-70/28V			11	91	37131	HPL575			1	16	33279	Q6.6A PAR56/3			7	64
12341	H3-100			11	91	37817	HPL575-X LL			1	16	18309	Q6.6A/PAR56/4			7	64
27334	H4-60/55			11	91	37818	HPL575-X LL			1	16	13224	Q6.6A/PAR 64/2P			7	64
27342	H4-75/70/28V			11	91	92431	HPL575/C 115V			1	16	13223	Q6.6A/PAR 64/3P			7	64
18350	H4360 Bulk	H4360		10	80	92433	HPL575/C 120V			1	16	23857	Q6.6A/T4/5CL			7	64
15129	H4405	H4405		3	37	92434	HPL575/LL/C 115V			1	16	23860	Q6.6AT4/DCR			7	64
17674	H4460X Bulk	H4460X		10	80	92435	HPL575/LL/C 120V			1	16	15485	Q20A/PAR56/1/C			7	64
15133	H4515	H4515		3	37	37824	HPL750			1	16	32861	Q20A/PAR56/2			7	64
41453	H5360 Bulk	H5360		10	80	37826	HPL750			1	16	23863	Q20A/PAR56/3			7	64
43561	H7550	H7550		3	37	92432	HPL750/C 115V			1	16	15482	Q20A/PAR56/C			7	64
23541	H7550-1 Bulk	H7550-1		3	37	92770	HPL750/LL/C			1	16	41541	Q45T4/CL			7	63
43564	H7551	H7551		7	67	92768	HPL750-XLL-C			1	16	14473	Q45T4/CL/DCR			7	63
43567	H7552	H7552		7	67	92769	HPL750-XLL-C			1	16	32917	Q65T2 1/2/1CL			7	63
43570	H7553	H7553		7	67	35233	HX270	HX270		1	18	25137	Q150MR16-15LEAD			2	32
43574	H7554 Bulk	H7554		7	67	35234	HX270	HX270		1	18	16580	Q200T3			1	20
44642	H7555	H7555		7	67	30503	HX48	HX48		1	18	43713	Q200T3/CL			1	20
44924	H7556	H7556		7	67	30504	HX48	HX48		1	18	40702	Q200T4/CL			7	64
12720	H7557	H7557		7	67	39753	HX800	HX800		1	15	11548	Q235T4/3			1	16
42841	H7600	H7600		10	79	39754	HX800	HX800		1	15	23718	Q250PAR/FL30			3	38
43576	H7604	H7604		3	38	22961	KPR102			11	85	23719	Q250PAR/SP10			3	38
14616	H7606	H7606		10	80	23151	KPR104			11	85	43704	Q300T3	EHZ		1	21
17672	H7607 Bulk	H7607		10	80	23153	KPR113			11	85	43703	Q300T3/CL	EHM		1	21
14617	H7609	H7609		10	80	23154	KPR118			11	85	43705	Q300T4/CL	EHP		1	20
14618	H7610	H7610		10	80	15029	L30			5	52	13894	Q350T3/HIR			1	21
49695	H7612	H7612		10	79	15071	L30/W			5	52	43708	Q400T4/CL	EHR		1	20
49731	H7614	H7614		3	38	15804	L40			5	52	11178	Q425T3/CL			1	21
42838	H7616	H7616		3	37	15839	L40/W			5	52	43495	Q500PAR56MFL			1	28
14619	H7619	H7619		10	80	17226	L60			5	52	43495	Q500PAR56MFL			3	39
45058	H7621-1 Bulk	H7621-1		10	79	17266	L60/W			5	52	43494	Q500PAR56NSP			1	28
43591	H7635	H7635		3	39	39936	MARC 350-16T EZT			2	35	43494	Q500PAR56NSP			3	39
18022	H7635X Bulk	H7635X		3	39	12571	ML20/ OF-28			10	77	43496	Q500PAR56WFL			1	28
17894	H7680HIR	H7680		3	39	12275	MQ112000/T9/40			1	25	43496	Q500PAR56WFL			3	39
		HIR				37405	MVR1500/HBU			1	25	30287	Q500PAR64/MFL	CP88		1	28
26694	H7680X HIR	H7680X		3	39	47326	MVR1500/U/SPORTS			1	25	30287	Q500PAR64/MFL			3	40
		HIR				25532	MVR1650/HOR			1	25	30288	Q500PAR64/MFL	CP88		1	28
23250	H7913HIR Bulk	H7913		10	80	91580	OC1200			1	17	30288	Q500PAR64/MFL			3	40
		HIR				40778	P21W 24V			11	88	30283	Q500PAR64/NSP	CP87		1	28
13426	H7921-1 Bulk	H7921-1		10	78	27222	PC168			11	90	30283	Q500PAR64/NSP			3	40
47460	H7935-1	H7935-1		3	37	72221	PC194			11	90	30286	Q500PAR64/NSP	CP87		1	28
15767	H9405	H9405		3	37	30162	PH/111A			2	35	30286	Q500PAR64/NSP			3	40
15769	H9406	H9406		10	80	43220	PH/140			2	35	30280	Q500PAR64/VNSP	CP86		1	28
15771	H9411	H9411		10	80	40569	PH/211			2	35	30280	Q500PAR64/VNSP			3	40
15772	H9414 Bulk	H9414		10	80	40570	PH/212			2	35	30282	Q500PAR64/VNSP	CP86		1	28
16484	H9415	H9415		10	78	40571	PH/213			2	35	30282	Q500PAR64/VNSP			3	40
17988	H9415A	H9415A		10	78	25181	PR2	PR2		11	85	23731	Q500T3/CL	FCL		1	21
16976	H9420	H9420		10	78	25193	PR3	PR3		11	85	23733	Q500T3/CL	DVS		1	21
16482	H9421	H9421		10	78	12677	PR4	PR4		11	85	23744	Q500T3/CL/6			1	21
20089	HH210			9	73	25222	PR6	PR6		11	85	39071	Q500T8/1CL			7	64
20091	HH450			9	73	25235	PR7	PR7		11	85	19697	Q625T3/4CLP2/10		P2/10	1	21
20092	HH451			9	73	25252	PR12	PR12		11	85	19698	Q625T3/4CLP2/10		P2/10	1	21
20090	HH599			9	73	25262	PR13	PR13		11	85	43498	Q1000PAR64MFL			1	28
20093	HH804			9	73	25289	PR18	PR18		11	85	43498	Q1000PAR64MFL			3	40
17608	HPL375/C 115V			1	16	30124	PXA 50			2	35	43497	Q1000PAR64NSP			1	28
18189	HPL375/LL/C 115V			1	16	30129	PXA/80			2	35	43497	Q1000PAR64NSP			3	40

Order Code	GE Description	ANSI	LIF	Section	Page	Order Code	GE Description	ANSI	LIF	Section	Page	Order Code	GE Description	ANSI	LIF	Section	Page
Index by Description (Continued)						Index by Description (Continued)						Index by Description (Continued)					
43499	Q1000PAR64/WFL			1	28	38893	QH375T3/CL/7			9	72	29333	SPL1000/PAR64/840			3	41
43499	Q1000PAR64/WFL			3	40	21788	QH500T3/CL			9	72	29336	SPL1000/PAR64/HR			1	29
29331	Q1000T8/CL		T11	1	16	21787	QH500T3/CL/7			9	72	29336	SPL1000/PAR64/HR			3	41
19695	Q1250T3/P2/12		P2/12	1	21	22365	QH1000T3/2CL/HT			9	72	30061	SPL1500/L/H/652			1	25
19696	Q1250T3/P2/12		P2/12	1	21	22355	QH1000T3/CL			9	72	39656	T11		T11	1	16
22109	Q4509	Q4509		10	77	22357	QH1000T3/CL			9	72	39659	T11		T11	1	16
37706	Q4554	Q4554		10	78	22358	QH1000T3/CL/1			9	72	39661	T12		T12	1	16
40579	Q4559	Q4559		10	78	22531	QH1200T3/CL			9	72	39663	T12		T12	1	16
42552	Q4559X	Q4559X		10	78	22532	QH1200T3/CL/HT			9	72	30542	T13		T13	1	19
41097	Q4566	Q4566		10	78	22686	QH1600T3/CL			9	72	20388	T14		T14	1	19
37372	Q4597	Q4597		10	78	22688	QH1600T3/CL			9	72	30521	T16		T16	1	20
40577	Q4629	Q4629		10	78	22695	QH1600T3/CL			9	72	30536	T17		T17	1	19
34537	Q4631	Q4631		10	77	22691	QH1600T3/CL/7			9	72	39731	T28		T28	1	19
39112	Q4632	Q4632		10	77	22699	QH1600T3/CL/7			9	72	39733	T28		T28	1	19
36271	Q4681	Q4681		10	78	22838	QH2500T3/CL			9	73	39647	T29		T29	1	16
41452	Q5551	Q5551		10	77	22837	QH2500T3/CL/7			9	73	12756	TEL/6PSB			11	88
16784	Q5559	Q5559		10	78	20718	QH2500T3/CL/VB			9	73	12760	TEL/12PSB			11	88
29130	Q7558 PAR36 WFL	Q7558		3	37	40489	QH3200T3/CL 240V			9	73	29001	TEL/24E2			11	88
28113	Q7559 PAR36 VWFL	Q7559		3	37	40491	QH3200T3/CL 277V			9	73	12071	TEL/24PSB			11	88
28111	Q7560 PAR36 NSP	Q7560		3	37	10872	QH3650T3/CL/5			9	73	12761	TEL/28MB			11	89
28874	Q7561 PAR36 VNSP	Q7561		3	37	22875	QH3800T3/CL			9	73	12072	TEL/28PSB			11	88
14202	Q2MT3/CL			9	73	13648	QH3800T3/CL/1			9	73	29041	TEL/48C2			11	88
23843	Q6M/T3/CL/HT			9	73	22878	QH3800T3/CL/VB			9	73	12075	TEL/48PSB			11	88
48770	Q12MT26/4CL			1	18	13511	QH6600T3/CL			9	73	12076	TEL/60MB			11	89
48771	Q12MT26/4CL			1	18	22789	QH2M/T3/1CL/HT			9	73	12077	TEL/60PSB			11	88
48779	Q12MT26/4CL			1	18	22790	QH2M/T3/CL/HT			9	73	12078	TEL/120MB			11	89
48776	Q24MT32/4CL			1	18	15551	QH2MT3/1CL/HT/VB			9	73	12080	TEL/120PSB			11	88
48777	Q24MT32/4CL			1	18	12716	QH2MT3/CL/HT/R			9	73	35336	THE 436 6A 36W			7	63
39019	QH300T3/CL			9	72	18668	QH2MT3/CL/VB			9	62	17530	TPL1000			9	73
21337	QH375T3/CL			9	72	22900	QH5M/T3/1CL/HT			9	73	37635	TPL1000			9	73
						29333	SPL1000/PAR64/840			1	29						

SHOWBIZ®



FEATURES

- For stage, studio, film and television lighting
- Incandescent, Quartzline® Halogen, High Intensity Discharge (HID), Cinema Fluorescent Technologies, Stage/Studio PAR Sealed Beams
- Quartzline® Halogen in low (120V) and high (240V) voltage single-ended and double-ended configurations
- Many Quartzline® Halogen lamps with Chromised Seal Protection to 500°C in the seal pinch
- HID in CSR, ConstantColor® CMH®, CSS, CSD and CID brand name codes
- CSR (Daylight) in single-ended short arc, single and double-end hot restrike
- ConstantColor® CMH® for “warmer people lighting”
- Cinema Fluorescent in linear, linear with covRguard®, and Biax®
- For additional reflectorized PAR Lighting (Halogen and HID) see Directional Lighting, Section 3

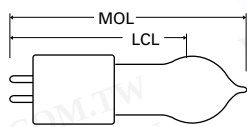


Fig. 7

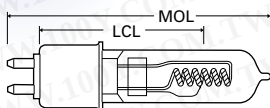


Fig. 8

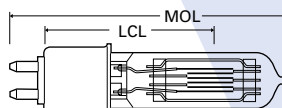


Fig. 9

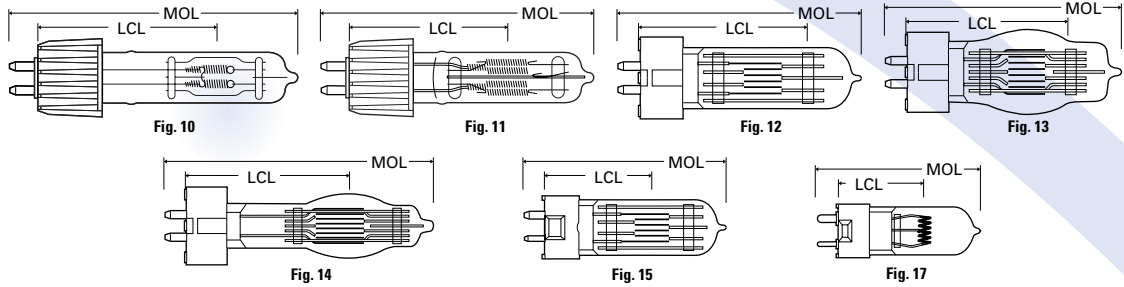
APPLICATIONS

- Indoor and Outdoor Filming
- Stage Theater
- Photography Studios
- Concerts
- Color Simulation
- Architectural Lighting
- Night Clubs
- Large Screen Presentations
- TV Studios

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – G5.3, Miniature 2-Pin Base																		
30	10.8	37346	DZA	DZA		24	T-3.5	G5.3	C-6	530	3100	400	27	51	BDTHCH		62	
250	120	13617	EYH/FKT	EYH		24	G-6	G5.3	CC-6	6000	3000	200	36	64	BDTHCH		62	7
500	120	33663	FBG/FBD	FBG		24	G-6	G5.3	CC-6	13200	3200	50	44	76	ANYCH		62	7
600	120	30364	DYH	DYH		24	G-7	G5.3	CC-6	17000	3200	75	36	64	ANYCH		62	7
650	120	30304	DVY	DVY		24	G-6	G5.3	CC-6	20000	3300	25	36	64	BDTHCH		62	7
Single-Ended Lamps – G9.5, Medium 2-Pin Base																		
500	120	39768	EHD-Q500CL/TP	EHD		24	T-6	G9.5	CC-8	10000	2900	2000	60	105	Any		62	8
		39789	EHC-Q500/5CL	EHC		24	T-6	G9.5	CC-8	12700	3150	500	60	105	Any		62	8
575	115	11450	FLK-Q575T6	FLK		24	T-6	G9.5	CC-8	16500	3200	300	60	105	Any		62	8
		39730	FLK/LL-Q575T6			24	T-6	G9.5	CC-8	12800	3100	1500	60	105	Any		62	8
		93428	GLA-Q575T6/4CL	GLA		24	T-6	G9.5	C-13D	13000	3050	1500	60	105	Any		62	9
		93429	GLC-Q575T6/5CL	GLC		24	T-6	G9.5	C-13D	14500	3200	300	60	105	Any		62	9
600	230	39739	GKV-Q575T6/4CL	GKV		24	T-6	G9.5	C-13D	14000	3200	250	60	105	Any		62	9
		39751	GKV/LL	GKV		24	T-6	G9.5	C-13D	11000	3000	1500	60	105	Any		62	9
	240	39750	GKV	GKV		24	T-6	G9.5	C-13D	14000	3200	250	60	105	Any		62	9
		39752	GKV/LL	GKV		24	T-6	G9.5	C-13D	11000	3000	1500	60	105	Any		62	9
650	230	39734	FKR	FKR		24	T-6	G9.5	C-13D	15000	3100	300	60	105	Any		62	9
	240	39735	FKR	FKR		24	T-6	G9.5	C-13D	15000	3100	300	60	105	Any		62	9
750	115	92771	GLD-Q750T6/4CL	GLD		24	T-6	G9.5	C-13D	19000	3200	300	60	105	Any		62	9
		92773	GLE-Q750T6/4CL	GLE		24	T-6	G9.5	C-13D	17400	3050	1500	60	105	Any		62	9
120		39680	BWM-Q750T7/4CL/TP	BWM		6	T-7	G9.5	C-13D	21000	3200	200	60	114	BDTH		1,62	9
		39771	EHF-Q750/4CL	EHF		24	T-6	G9.5	CC-8	20000	3200	300	60	105	Any		62	8
		39770	EHG-Q750CL/TP	EHG		24	T-6	G9.5	CC-8	15000	3000	2000	60	105	Any		62	8
800	230	39753	HX800		HX800	24	T-6	G9.5	C-13D	20000	3200	250	60	105	Any		62	9
	240	39754	HX800		HX800	24	T-6	G9.5	C-13D	20000	3200	250	60	105	Any		62	9
1000	120	39792	BWN-Q1000T7/4CL/TP	BWN		24	T-7	G9.5	C-13D	28500	3200	250	60	114	BDTH		1,62	9
		35853	FCV-Q1000/4	FCV		6	T-6	G9.5	CC-8	26500	3200	375	60	105	Any	Frosted	22,62	8
		39769	FEL-Q1000/4CL	FEL	CP77	24	T-6	G9.5	CC-8	27500	3200	300	60	105	Any		22,62	8
230		39738	FEP-Q1MT6/4CL	FEP	CP77	24	T-6	G9.5	CC-8	25000	3200	300	60	105	Any		62	8
240		39736	FEP-Q1MT6/4CL	FEP	CP77	24	T-6	G9.5	CC-8	25000	3200	300	60	105	Any		62	8

Stage and Studio – Halogen

SECTION 1



Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – G9.5, Medium 2-Pin Heat Sink Base																		
375	115	17608	HPL375/C 115V			12	T-6	G9.5/HS 4-C8		10540	3250	300	60	106	Any		18, 62	10
		18189	HPL375/LL/C 115V			12	T-6	G9.5/HS 4-C8		8000	3050	1000	60	106	Any		18, 62	10
550	77	17607	HPL550/C 77V			12	T-6	G9.5/HS 4-C8		16170	3250	300	60	106	Any		18, 62	10
575	115	92431	HPL575/C 115V			12	T-6	G9.5/HS 4-C8		16500	3200	300	60	106	Any		62	10
		92434	HPL575/LL/C 115V			12	T-6	G9.5/HS 4-C8		12360	3050	2000	60	106	Any		62	10
120		92433	HPL575/C 120V			12	T-6	G9.5/HS 4-C8		16520	3200	300	60	106	Any		62	10
		92435	HPL575/LL/C 120V			12	T-6	G9.5/HS 4-C8		12360	3050	2000	60	106	Any		62	10
230		37128	HPL575			12	T-6	G9.5/HS 6-C8		14900	3200	300	60	106	Any		62	11
		37817	HPL575-X LL			12	T-6	G9.5/HS 6-C8		11780	3050	1500	60	106	Any		62	11
240		37131	HPL575			12	T-6	G9.5/HS 6-C8		14900	3200	300	60	106	Any		62	11
		37818	HPL575-X LL			12	T-6	G9.5/HS 6-C8		11780	3050	1500	60	106	Any		62	11
750	115	92432	HPL750/C 115V			12	T-6	G9.5/HS 4-C8		22000	3200	300	60	106	Any		7, 62	10
		92770	HPL750/LL/C			12	T-6	G9.5/HS 4-C8		16400	3050	2000	60	106	Any		7, 62	10
230		37824	HPL750			12	T-6	G9.5/HS 6-C8		19750	3200	300	60	106	Any		7, 62	11
		92768	HPL750-XLL-C			12	T-6	G9.5/HS 6-C8		15600	3050	1500	60	106	Any		7, 62	11
240		37826	HPL750			12	T-6	G9.5/HS 6-C8		19750	3200	300	60	106	Any		7, 62	11
		92769	HPL750-XLL-C			12	T-6	G9.5/HS 6-C8		15600	3050	1500	60	106	Any		7, 62	11
Single-Ended Lamps – GX9.5, Prefocus Medium 2-Pin Base																		
650	120	34328	EKD-Q650/3CL/2PP EKD			24	G-6	GX9.5	CC-6	20000	3300	25	37	64	BDTHCH		62	
230		39654	CP23		CP23	12	T-8	GX9.5	C-13	16900	3200	100	55	110	BDTH		62	12
		39661	T12		T12	12	T-8	GX9.5	C-13	13500	3000	750	55	110	BDTH		62	12
240		39660	CP23		CP23	12	T-8	GX9.5	C-13	16900	3200	100	55	110	BDTH		62	12
		39663	T12		T12	12	T-8	GX9.5	C-13	13500	3000	750	55	110	BDTH		62	12
1000	120	29331	Q1000T8/CL		T11	24	G-11	GX9.5	C-13	23500	3050	750	55	110	BDTH		62	13
230		39651	CP24		CP24	12	G-11	GX9.5	C-13	26000	3200	200	55	110	BDTH		62	13
		39241	FVA	FVA	CP70	12	T-11	GX9.5	C-13D	25000	3200	200	55	110	BDTH		62	12
		39657	FWP	FWP	T19	12	T-11	GX9.5	C-13D	21000	3050	750	55	110	BDTH		62	12
		39656	T11		T11	12	G-11	GX9.5	C-13	23000	3050	750	55	110	BDTH		62	13
240		39653	CP24		CP24	12	G-11	GX9.5	C-13	26000	3200	200	55	110	BDTH		62	13
		39242	FVB	FVB	CP70	12	T-11	GX9.5	C-13D	25000	3200	200	55	110	BDTH		62	12
		39658	FWR	FWR	T19	12	T-11	GX9.5	C-13D	21000	3050	750	55	110	BDTH		62	12
		39659	T11		T11	12	G-11	GX9.5	C-13	23000	3050	750	55	110	BDTH		62	13
1200	120	39647	T29		T29	12	G-11	GX9.5	C-13D	30500	3050	400	67	125	BDTH		62	14
230		39724	CP90		CP90	12	G-11	GX9.5	C-13D	33000	3200	200	67	125	BDTH		62	14
		39723	FWS	FWS	T29	12	G-11	GX9.5	C-13D	29000	3050	400	67	125	BDTH		62	14
240		39725	CP90		CP90	12	G-11	GX9.5	C-13D	33000	3200	200	67	125	BDTH		62	14
		39667	FWT	FWT	T29	12	G-11	GX9.5	C-13D	29000	3050	400	67	125	BDTH		62	14
Single-Ended Lamps – GY9.5, Oriented Medium 2-Pin Base																		
235	33	11548	Q235T4/3			12	T-4	GY9.5	CC-6	6000	3125	150	39	64	BDTHCH	Frosted	62	17
300	120	39781	FKW-Q300T8	FKW	CP81	24	T-8	GY9.5	C-13	6900	3200	50	46	90	BDTH		62	15
230		39780	FSL	FSL	CP81	24	T-8	GY9.5	C-13	6900	3200	150	46	90	BDTH		62	15
240		39779	FSK	FSK	CP81	24	T-8	GY9.5	C-13	6900	3200	150	46	90	BDTH		62	15
420	120	33934	EKB-Q420/4CL/2PP	EKB		24	G-7	GY9.5	CC-6	11000	3200	75	37	64	ANYCH		62	17

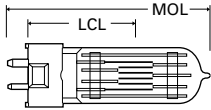


Fig. 15

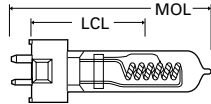


Fig. 16

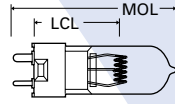


Fig. 17

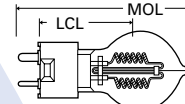


Fig. 18

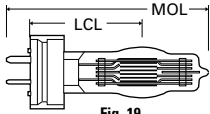


Fig. 19

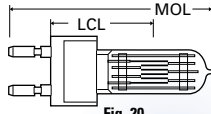


Fig. 20

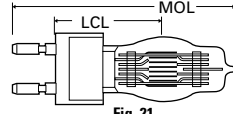


Fig. 21

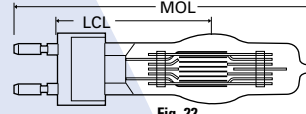
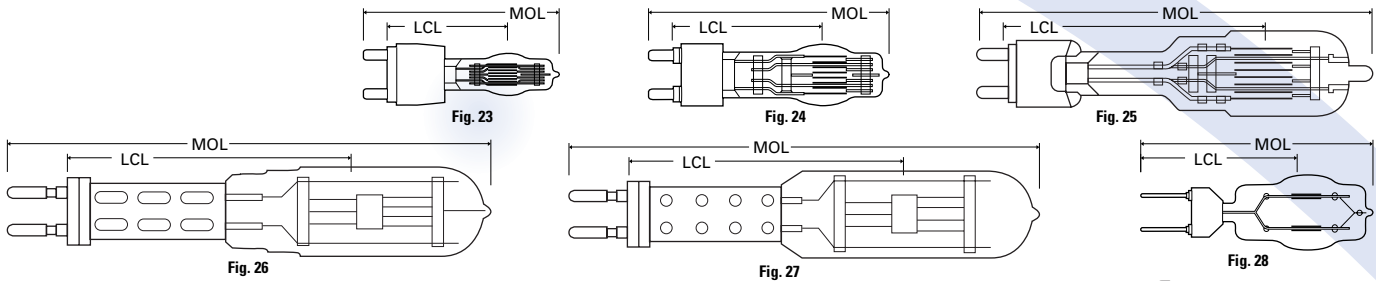


Fig. 22

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number	
Single-Ended Lamps – GY9.5, Oriented Medium 2-Pin Base (Continued)																			
500	120	39623	FRG-Q500T8	FRG	CP82	24	T-8	GY9.5	C-13	13000	3200	150	46	90	BDTH		62	15	
		230	39455	GCV	GCV	T25	24	T-8	GY9.5	C-13D	11000	3000	360	46	90	BDTH		62	15
			39717	GCV	GCV	T18	24	T-8	GY9.5	C-13	11000	3050	400	46	90	BDTH		62	15
			39624	FRH	FRH	CP82	24	T-8	GY9.5	C-13	12500	3200	150	46	90	BDTH		62	15
	240	39262	GCW	GCW	T25	24	T-8	GY9.5	C-13D	11000	3000	360	46	90	BDTH		62	15	
			39629	GCW	GCW	T18	24	T-8	GY9.5	C-13	11000	3050	400	46	90	BDTH		62	15
			39628	FRJ	FRJ	CP82	24	T-8	GY9.5	C-13	12500	3200	150	46	90	BDTH		62	15
600	120	30475	FMR-Q600T5	FMR		24	T-5	GY9.5	CC-8	12600	3050	2000	51	85	BDTHCH		62	16	
650	120	39630	FRE	FRE	T26	24	T-8	GY9.5	C-13	15500	3100	500	46	90	BDTH		62	15	
			39637	FRK-Q650T8	FRK	CP89	24	T-8	GY9.5	C-13	16900	3200	200	46	90	BDTH		62	15
		230	39456	GCT	GCT	T27	24	T-8	GY9.5	C-13D	14500	3050	400	46	90	BDTH		62	15
		39635	GCT	GCT	T26	24	T-8	GY9.5	C-13	15500	3100	400	46	90	BDTH		62	15	
		39640	FRL	FRL	CP89	24	T-8	GY9.5	C-13	16250	3200	150	46	90	BDTH		62	15	
	240	39457	GCS	GCS	T27	24	T-8	GY9.5	C-13D	14500	3050	400	46	90	BDTH		62	15	
			39636	GCS	GCS	T26	24	T-8	GY9.5	C-13	15500	3100	400	46	90	BDTH		62	15
			39642	FRM	FRM	CP89	24	T-8	GY9.5	C-13	16250	3200	150	46	90	BDTH		62	15
	Single-Ended Lamps – GZ9.5, Oriented Medium 2-Pin Base																		
600	120	32955	DYS/DYV/BHC	DYS	A1/264	24	G-7	GZ9.5	CC-6	17000	3200	75	37	64	BDTHCH		62	17	
650	220	33248	DYR	DYR	A1/233	24	G-7	GZ9.5	2CC-8	16500	3200	50	37	64	Any		62	18	
	240	33250	DYR	DYR	A1/233	24	G-7	GZ9.5	2CC-8	16500	3200	50	37	64	Any		62	18	
Single-Ended Lamps – GY16, 2-Pin Prefocus Base																			
2000	120	90360	CP79		CP79	12	G-13	GY16	C-13D	54000	3200	350	70	145	BDTH		62	19	
	230	30497	CP79		CP79	12	G-13	GY16	C-13D	54000	3200	350	70	145	BDTH		62	19	
		20309	FTM	FTM	CP43	12	G-13	GY16	C-13	54000	3200	400	70	145	BDTH		62	19	
	240	30498	CP79		CP79	12	G-13	GY16	C-13D	54000	3200	350	70	145	BDTH		62	19	
		20310	FTL	FTL	CP43	12	G-13	GY16	C-13	54000	3200	400	70	145	BDTH		62	19	
	Single-Ended Lamps – G22, Medium Bi-Post Base																		
500	120	30373	EGN-Q500T8	EGN		12	T-8	G22	C-13	13000	3200	150	64	140	BDTH		62	20	
650	230	20320	FKH	FKH	CP39	12	T-8	G22	C-13	16900	3200	100	64	140	BDTH		62	20	
	240	20321	FKH	FKH	CP39	12	T-8	G22	C-13	16900	3200	100	64	140	BDTH		62	20	
750	120	39190	EGR-Q750T7/4CL	EGR		12	T-7	G22	C-13D	21000	3200	200	64	127	BDTH		1, 62	20	
1000	120	39191	EGT-Q1000T7/4CL	EGT		12	T-7	G22	C-13D	28500	3200	250	64	127	BDTH		1, 62	20	
	230	39655	FKJ	FKJ	CP40	12	T-8	G22	C-13	26000	3200	200	64	140	BDTH		62	20	
	240	20286	FKJ	FKJ	CP40	12	T-8	G22	C-13	26000	3200	200	64	140	BDTH		62	20	
1200	80	91580	OC1200			12	T-8	G22	C-13D	37500	3300	300	64	140	BDTH		62	20	
	240	30384	CP93		CP93	12	G-11	G22	C-13D	33000	3200	200	64	140	BDTH		62	21	
2000	120	30391	CP92		CP92	12	G-13	G22	C-13D	55000	3200	400	90	175	BDTH		62	22	
	230	30394	CP92		CP92	12	G-13	G22	C-13D	52000	3200	400	90	175	BDTH		62	22	
	240	30397	CP92		CP92	12	G-13	G22	C-13D	52000	3200	400	90	175	BDTH		62	22	
2500	230	30415	CP91		CP91	12	G-13	G22	C-13D	67500	3200	400	90	175	BDTH		62	22	
	240	30423	CP91		CP91	12	G-13	G22	C-13D	67500	3200	400	90	175	BDTH		62	22	

Stage and Studio – Halogen

SECTION 1



Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – G38, Mogul Bi-Post Base																		
1000	120	42697	CVV-Q1000T7/4CL/BP CVV			6	T-7	G38	C-13D	28500	3200	200	127	203	BDTH	1, 62		23
	230	35234	HX270		HX270	12	G-11	G38	C-13D	25000	3200	200	127	216	BDTH	62		23
	240	35233	HX270		HX270	12	G-11	G38	C-13D	25000	3200	200	127	216	BDTH	62		23
1500	120	37564	CXZ-Q1500T10/4CL CXZ	CXZ		6	T-10	G38	C-13	44500	3200	400	127	216	BDTH	1, 62		23
2000	120	39587	BWA-Q2000/4CL/BP BWA	BWA		6	T-8	G38	CC-8	54000	3200	500	127	210	BDTH	1, 55, 62		23
		36636	CYX-Q2000T10/4CL CYX	CYX		6	T-10	G38	C-13	59000	3200	350	127	216	BDTH	1, 62		23
	230	31844	FKK	FKK	CP41	12	G-10	G38	C-13	54000	3200	400	127	216	BDTH	62		23
	240	31849	FKK	FKK	CP41	12	G-10	G38	C-13	54000	3200	400	127	216	BDTH	62		23
2500	230	30499	CP94		CP94	12	G-13	G38	C-13D	67500	3200	400	127	210	BDTH	62		23
	240	30500	CP94		CP94	12	G-13	G38	C-13D	67500	3200	400	127	210	BDTH	62		23
3000	230	30503	HX48		HX48	12	G-15	G38	C-13	82000	3200	400	127	210	BD45	62		23
	240	30504	HX48		HX48	12	G-15	G38	C-13	82000	3200	400	127	210	BD45	62		23
5000	120	41736	DPY-Q5000T20/4CL DPY	DPY	CP29	6	T-20	G38	C-13	143000	3200	500	165	279	BD45	1, 62		24
	230	30505	CP29		CP29	12	G-20	G38	C-13	135000	3200	500	165	279	BDTH	62		24
	240	30506	CP29		CP29	12	G-20	G38	C-13	135000	3200	500	165	279	BDTH	62		24
10000	120	18305	DTY-Q10M/T24/4CL DTY	DTY	—	4	T-24	G38	C-13	290000	3200	300	254	400	BD45	1, 62		25
	230	12036	CP83		CP83	1	T-27	G38	C-13	280000	3200	250	254	405	BDTH	62		25
	240	12037	CP83		CP83	1	T-27	G38	C-13	280000	3200	250	254	405	BDTH	62		25
Single-Ended Lamps – GX38, Mogul Bi-Post Base																		
12000	120	48770	Q12MT26/4CL			1	T-26	GX38	C-13	420000	3400	150	85	410	BD45	62		26
	230	48771	Q12MT26/4CL			1	T-26	GX38	C-13	420000	3400	130	85	410	BD45	62		26
	240	48779	Q12MT26/4CL			1	T-26	GX38	C-13	420000	3400	130	85	410	BD45	62		26
20000	208	48772	BCM-Q20MT32/4CL BCM	BCM		1	T-32	GX38	C-13	580000	3200	400	103	560	BD45	62		27
	230	48773	BCM-Q20MT32/4CL BCM	BCM		1	T-32	GX38	C-13	580000	3200	400	103	560	BD45	62		27
	240	48774	BCM-Q20MT32/4CL BCM	BCM		1	T-32	GX38	C-13	580000	3200	400	103	560	BD45	62		27
24000	230	48776	Q24MT32/4CL			1	T-32	GX38	C-13	800000	3400	150	103	560	BD45	62		27
	240	48777	Q24MT32/4CL			1	T-32	GX38	C-13	800000	3400	150	103	560	BD45	62		27
Single-Ended Lamps – GX38q Base, 2 Filament, Hi-Volt																		
1250	230	30513	CP30-1250/1250		CP30	12	G-18	GX38q	2C-13	27M 56M	3200	300	143	220	BD45	62		28
		30515	CP58-1250/2500		CP58	12	G-22	GX38q	2C-13	27M 91M	3200	300	143	220	BD45	62		28
		34056	CP105-1250/650		CP105	12	G-18	GX38q	2C-13	27M 13M	3050	250	143	220	BD45	62		28
240	30514	CP30-1250/1250			CP30	12	G-18	GX38q	2C-13	27M 56M	3200	300	143	220	BD45	62		28
		30517	CP58-1250/2500		CP58	12	G-22	GX38q	2C-13	27M 91M	3200	300	143	220	BD45	62		28
		34024	CP105-1250/650		CP105	12	G-18	GX38q	2C-13	27M 13M	3050	250	143	220	BD45	62		28
2500	230	30518	CP32-2500/2500		CP32	12	G-22	GX38q	2C-13	59M 127M	3200	300	143	220	BD45	62		28
240	30519	CP32-2500/2500			CP32	12	G-22	GX38q	2C-13	59M 127M	3200	300	143	220	BD45	62		28



Fig. 30

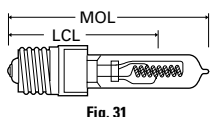


Fig. 31

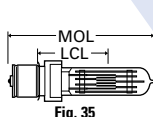


Fig. 35

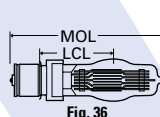


Fig. 36

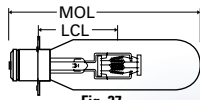


Fig. 37

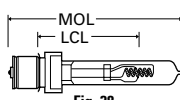


Fig. 38

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – E39, Mogul Screw Base																		
1000	120	39582	DKZ/DSE-Q1000 PS52/4	DKZ	–	12	PS-52	E39	CC-8	28000	3200	750	241	330	Any	Frosted	1, 51, 62	30
		19926	DSE Q1000	DSE	–	10	T-10	E39	CC-8	28000	3200	750	241	330	Any	Frosted	1, 62	31
1500	120	40357	DKX/DSF-Q1500 PS52/4	DKX	–	12	PS-52	E39	C-8	41000	3200	1000	241	330	Any	Frosted	1, 51, 62	30
		19927	DSF Q1500	DSF	–	10	T-10	E39	C-8	41000	3200	1000	241	330	Any	Frosted	1, 62	31
2000	120	37086	BWF-Q2000/4CL	BWF	–	6	T-8	E39	CC-8	54000	3200	500	133	191	Any		62	31
	230	29424	CP59		CP59	12	T-10	E39	CC-8	50000	3200	300	133	191	Any		62	31
	240	29426	CP59		CP59	12	T-10	E39	CC-8	50000	3200	300	133	191	Any		62	31
Single-Ended Lamps – P28s, Medium Prefocus Base																		
500	120	11966	BTL-Q500T6/CL/P	BTL	T17	12	T-6	P28s	C-13	11000	3000	500	55	133	BDTH		62	35
		16465	BTM-Q500T6/4CL/2P	BTM	–	12	T-6	P28s	C-13	13000	3200	150	55	130	BDTH		62	35
		39134	EGC-Q500/5CL/P	EGC	–	12	T-4	P28s	CC-8	12700	3150	500	89	152	Any		62	38
		39135	EGE-Q500CL/P	EGE	–	12	T-4	P28s	CC-8	10450	2950	2000	89	152	Any		62	38
	230	30535	FKF	FKF	T17	12	T-6	P28s	C-13	9500	2950	750	55	130	BDTH		62	35
		39731	T28		T28	12	T-6	P28s	C-13	11000	3000	300	55	130	BDTH		62	35
	240	30536	T17		T17	12	T-6	P28s	C-13	9500	2950	750	55	130	BDTH		62	35
		39733	T28		T28	12	T-6	P28s	C-13	11000	3000	300	55	130	BDTH		62	35
650	230	30541	FKB	FKB	T13	12	T-8	P28s	C-13	13500	3000	750	55	130	BDTH		62	35
		20323	FKM	FKM	CP51	12	T-8	P28s	C-13	16900	3200	200	55	130	BDTH		62	35
	240	20324	CP51		CP51	12	T-8	P28s	C-13	16900	3200	200	55	130	BDTH		62	35
		30542	T13		T13	12	T-8	P28s	C-13	13500	3000	750	55	130	BDTH		62	35
750	120	11953	BTN-Q750T7/CL/2P	BTN	–	12	T-7	P28s	C-13D	17600	3050	500	55	121	BD30		1, 62	35
		11954	BTP-Q750T7/4CL/2P	BTP	–	12	T-7	P28s	C-13D	21000	3200	200	55	121	BD30		1, 62	35
		39136	EGF-Q750/4CL/P	EGF	–	12	T-6	P28s	CC-8	20400	3200	300	89	152	Any		62	38
		39137	EGG-Q750CL/P	EGG	–	12	T-6	P28s	CC-8	15750	3000	2000	89	152	Any		62	38
1000	120	11955	BTR-Q1000T7/4CL/2P	BTR	–	12	T-7	P28s	C-13D	28500	3200	250	55	121	BD30		1, 62	35
		29968	DRB	DRB	–	24	T-20	P28s	C-13	32000	3350	25	55	146	BD30			37
		29979	DRC	DRB	–	24	T-20	P28s	C-13	30000	3250	50	55	146	BD30			37
		29947	DRS	DRS	A1/58	24	T-20	P28s	C-13D	28500	3325	25	55	146	BD30			37
		38853	EGJ-Q1000/4CL/P	EGJ	–	12	T-6	P28s	CC-8	27500	3200	300	89	152	Any		62	38
		38852	EGK-Q1000/4P	EGK	–	12	T-6	P28s	CC-8	26500	3200	300	89	152	Any	Frosted	62	38
		39138	EGM-Q1000CL/P	EGM	–	12	T-6	P28s	CC-8	21500	3000	2000	89	152	Any		62	38
	230	30533	EWE	EWE	–	12	T-6	P28s	CC-8	26500	3200	250	89	152	BDTH		62	38
		20385	FKD	FKD	T14	12	G-11	P28s	C-13D	23000	3050	750	55	130	BDTH		62	36
	240	30534	EWE	EWE	–	12	T-6	P28s	CC-8	26500	3200	250	89	152	BDTH		62	38
		30532	FKE	FKE	T15	12	G-11	P28s	C-13	23000	3050	750	89	160	BDTH		62	36
		30546	FKN	FKN	CP52	12	G-11	P28s	C-13D	26000	3200	200	55	121	BDTH		62	36
		20388	T14		T14	12	G-11	P28s	C-13D	23000	3050	750	55	130	BDTH		62	36

Stage and Studio – Halogen

SECTION 1

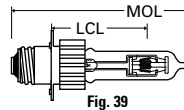


Fig. 39

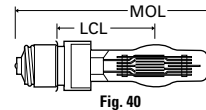


Fig. 40

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Single-Ended Lamps – P40s, Mogul Prefocus Base																		
1000	120	12554	BVT-Q1000T7/CL/MP	BVT	–	6	T-7	P40s	C-13D	24500	3050	500	100	184	BDTH		1,62	39
		12553	BVV-Q1000T7/4CL/MP	BVV	–	6	T-7	P40s	C-13D	28500	3200	200	100	184	BDTH		1,62	39
	240	30521	T16		T16	12	G-11	P40s	C-13	23000	3050	750	87	180	BDTH		62	40
1500	120	30522	DTA-Q1500T8/4CL	DTA	–	6	T-8	P40s	C-13D	41000	3200	300	87	200	BDTH		62	39
2000	120	12555	BVW-Q2000T10/4CL/MP	BVW	CP53	6	T-10	P40s	C-13	59000	3200	350	100	215	BDTH		62	39
	230	20311	CP53		CP53	12	G-13	P40s	C-13	54000	3200	400	87	200	BDTH		62	40
	240	20312	CP53		CP53	12	G-13	P40s	C-13	54000	3200	400	87	200	BDTH		62	40

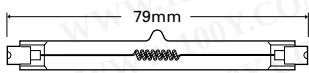


Fig. 1

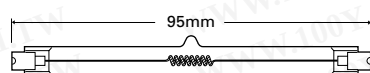


Fig. 2

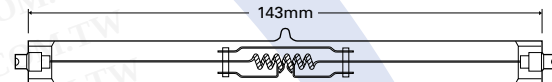


Fig. 3

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	Lighted Length (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Double-Ended Lamps – Recessed Contact R7s, Compact CC8 filaments																		
200	120	16580	Q200T3			6	T-3	R7s	CC-8	3350	2850	1500		80	Any	Frosted	15, 62	1
		43713	Q200T3/CL			6	T-3	R7s	CC-8	3460	2850	1500	24	80	Any		62	1
300	120	43705	Q300T4/CL	EHP		6	T-4	R7s	CC-8	5650	2900	2000	18	80	Any		62	1
375	30	29578	DWZ(30V)	DWZ	A1/266	24	T-4	R7s	CC-8	7500	3000	1000	10	80	Any		62	1
400	120	43708	Q400T4/CL	EHR		12	T-4	R7s	CC-8	7750	2900	2000	21	80	Any		62	1
420	120	30276	FFM	FFM		24	T-4	R7s	CC-8	11000	3200	75	13	80	Any		62	1
600	120	29598	FCB	FCB	A1/228	24	T-4	R7s	CC-8	17000	3250	75	17	95	Any		4, 62	2
650	120	30325	FAD-Q650T4/4CL	FAD	P2/6	24	T-4	R7s	CC-8	16500	3200	100	17	80	Any		62	1
		30343	FBX-Q650T4/4	FBX	P2/6	24	T-4	R7s	CC-8	16500	3200	100		80	Any	Frosted	15, 62	1
800	230	36952	DXX	DXX	P2/13	24	T-4	R7s	CC-8	21400	3200	75	24	80	Any		62	1
	240	36953	DXX	DXX	P2/13	24	T-4	R7s	CC-8	21400	3200	75	24	80	Any		62	1
1000	120	29604	BRH	BRH		24	T-5	R7s	CC-8	30000	3350	75	19	95	Any		62	2
		23800	DWT-Q1000T6/CL	DWT		6	T-6	R7s	CC-8	23400	3000	2000	25	143	Any		62	3
		30157	DXW-Q1000T5/4CL	DXW		24	T-5	R7s	CC-8	28000	3200	150	22	95	Any		27, 62	2
		30374	FBY-Q1000T5/4	FBY		24	T-5	R7s	CC-8	26000	3200	150		95	Any	Frosted	15, 62	2
		33760	FER-Q1000T6/4CL	FER		6	T-6	R7s	CC-8	27500	3200	500	19	143	Any		62	3
2000	120	39790	FEY-Q2000T8/4CL	FEY	P2/27	12	T-10	R7s	CC-8	57000	3200	400	25	143	H4		62	3
230		35338	FEX-Q2MT8/4CL	FEX	P2/27	12	T-10	R7s	CC-8	50000	3200	300	37	143	H4		62	3
240		35339	FEX-Q2MT8/4CL	FEX	P2/27	12	T-10	R7s	CC-8	50000	3200	300	37	143	H4		62	3

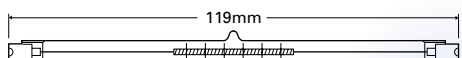
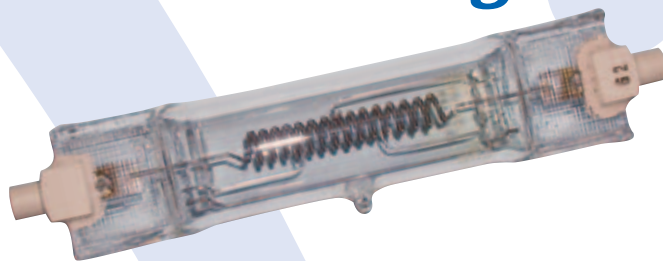


Fig. 4

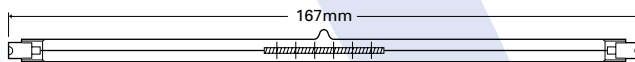


Fig. 5



Fig. 6

Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb	Base	Filament Type	Lumens	Color Temp.	Life (hrs)	Lighted Length (mm)	MOL (mm)	Burning Position	Bulb Finish	Footnotes	Figure Number
Double-Ended Lamps – Recessed Contact R7s, C-8 filaments																		
300	120	43704	Q300T3	EHZ		6	T-3	R7s	C-8	5900	2950	2000	119	H4		Frosted	15, 62	4
		43703	Q300T3/CL	EHM		6	T-3	R7s	C-8	5950	2950	2000	59	119	H4		62	4
350	120	20881	FDF/HIR-Q350T2/4CL			6	T-2	R7s	C-8	13250	3200	400	60	119	H4		62	4
		13894	Q350T3/HIR			6	T-3	R7s	C-8	10000	3000	2000	56	119	H4		62	4
425	120	11178	Q425T3/CL			12	T-3	R7s	C-8	8900	2950	2000	56	119	H4		62	4
500	120	23735	FDF-Q500T3/4CL	FDF	P2/30	12	T-3	R7s	C-8	13250	3200	400	60	119	H4		62	4
		23734	FDN-Q500T3/4	FDN	P2/31	12	T-3	R7s	C-8	12800	3200	400		119	H4	Frosted	15, 62	4
		23731	Q500T3/CL	FCL		12	T-3	R7s	C-8	11100	3000	2000	57	119	H4		62	4
		23744	Q500T3/CL/6			12	T-3	R7s	C-8	10950	2950	1500	60	119	H4		62	4
	130	23733	Q500T3/CL	DVS		12	T-3	R7s	C-8	10550	3000	2000	62	119	H4		62	4
525	120	20883	EJG/HIR-Q525T2 1/2/4			6	T-2.5	R7s	C-8	20600	3250	400	62	119	H4		62	4
625	230	19697	Q625T3/4CLP2/10		P2/10	12	T-3	R7s	C-8	16900	3200	300	107	189	H4		62	6
	240	19698	Q625T3/4CLP2/10		P2/10	12	T-3	R7s	C-8	16900	3200	300	107	189	H4		62	6
650	120	13895	FCM/HIR-Q650T3/4	FCM		6	T-3	R7s	C-8	25200	3275	400	60	119	H4		52, 62	4
675	120	20884	FFT/HIR-Q675T3/4			6	T-3	R7s	C-8	26400	3250	400	67	167	H4		52, 62	5
750	120	23756	EJG-Q750T3/4CL	EJG		12	T-3	R7s	C-8	20600	3200	400	62	119	H4		62	4
		23755	EMD-Q750T3/4	EMD		12	T-3	R7s	C-8	19500	3200	400		119	H4	Frosted	15, 62	4
800	240	23760	EME-Q800T3/P2/11	EME	P2/11	12	T-3	R7s	C-8	22000	3200	150	64	119	H4		62	4
		23761	EMF-Q800T3/P2/11	EMF	P2/11	12	T-3	R7s	C-8	21400	3200	150		119	H4	Frosted	62	4
1000	120	23797	FCM-Q1000T3/4CL	FCM	P2/28	12	T-3	R7s	C-8	28000	3200	400	60	119	H4		62	4
		23792	FHM-Q1000T3/4	FHM	P2/29	12	T-3	R7s	C-8	27300	3200	400		119	H4	Frosted	15, 31, 62	4
		33280	FFT-Q1000T3/1CL	FFT		12	T-3	R7s	C-8	26400	3200	400	67	167	H4		62	5
185		23788	EJD-Q1000T3/3CL (185V)	EJD		12	T-3	R7s	C-8	33600	3350	100	68	119	H4		52, 62	4
230		20249	EKM-Q1M T3/4CLP2/7	EKM	P2/7	12	T-3	R7s	C-8	28000	3200	300	115	189	H4		62	6
240		20253	EKM-Q1M T3/4CLP2/7	EKM	P2/7	12	T-3	R7s	C-8	28000	3200	300	115	189	H4		62	6
1250	230	19695	Q1250T3/P2/12		P2/12	12	T-3	R7s	C-8	35000	3200	300	112	189	H4		62	6
	240	19696	Q1250T3/P2/12		P2/12	12	T-3	R7s	C-8	35000	3200	300	112	189	H4		62	6
1500	120	23841	FDB-Q1500T4/4CL	FDB		12	T-4	R7s	C-8	41250	3200	400	62	167	H4		62	5
		41229	FGT-Q1500T4/4	FGT		12	T-4	R7s	C-8	40200	3200	400		167	H4	Frosted	15, 62	5

Stage and Studio – Discharge

SECTION 1

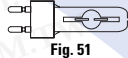
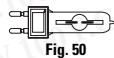
CSR Metal Halide (Daylight) – Single-Ended Cold Start

FEATURES

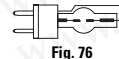
- Industry standard outline
- Chromized Seal Protection to 500°C
- Up to 90 lumens/watt with superior color stability
- Use with electronic or AC magnetic ballast/ignitor control gear
- Available in short arc for superior light control
- CSR Metal Halide are daylight (5600-7200K) color with CRI between 80-90
- CSD are compact source lamps with very high color temperature and long life
- Note: See FDA Warning, footnote 14, on page 94 for discharge lamps.

APPLICATIONS

- Stage
- Concert
- Sporting Events
- Venues Using Intelligent and Moving Lights



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Arc Length	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
CSR/CSD Metal Halide (Daylight) – Single-Ended Cold Start																		
250	90	10744	CSD250/2/SE	10	T7	GY9.5	5	18000	65+	8500	2000			Any	0.289	0.305	14, 63	50
575	97	49492	CSR575/2/T/SE	10	T9	GX9.5	7	49000	80	7200	1000	65	125	Any	0.302	0.320	14, 63	50
		15378	CSR575/2/SE	10	T9	GX9.5	7	49000	80	7200	1000	65	125	Any	0.302	0.320	14, 63	50
700	70	49491	CSR700/2/SE	10	T9	G22	8	55000	80	7200	1000	75	155	Any	0.302	0.320	14, 63	51
1200	100	49490	CSR1200/2/SE	6	T12	G22/30X53	10	110000	85	7200	800	85	175	Any	0.302	0.320	14, 63	51



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Arc Length	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
CSR Metal Halide (Daylight) – Single-Ended Short Arc																		
700	70	15380	CSR700/SA	6	G7	GY9.5	4	58000	75	5600	500	39	85	Any*	0.330	0.342	14, 63	75
1200	100	21849	CSR1200/SA	6	G8	GY22	7	100000	80	5800	750	59	135	Any*	0.326	0.330	14, 18, 63	76
1800	100	21801	CSR2000/SA	4	G9	GY22	7	155000	80+	6000	750	59	135	Any*	0.320	0.330	14, 18, 63	76

* Lead Down

CSR Metal Halide (Daylight) – Single-Ended Hot Restrike

FEATURES

- Industry standard outline
- Cold start and hot restrike-dimmable with stable color temperature
- Use with electronic or AC magnetic ballast/ignitor control gear
- CSR Metal Halide are daylight (6000K) color with CRI above 90
- Up to 90 lumens/watt with superior color stability

APPLICATIONS

- Film Production
- Sporting Events
- Stage
- Photographic Studios
- Concerts
- Overhead and Large Screen Projection
- Color Simulation

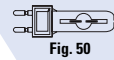


Fig. 50

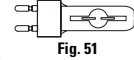


Fig. 51

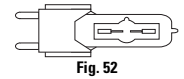


Fig. 52

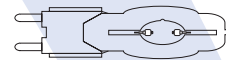


Fig. 53

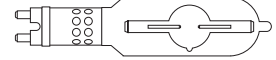


Fig. 54



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Arc Length	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
CSR Metal Halide (Daylight) – Single-Ended Hot Restrike																		
125	80	48461	CSR125/SE/HR	10	T5	GZX9.5	4	9400	90+	5600	200	39	75	Any	0.330	0.333	14, 63	50
200	70	48462	CSR200/SE/HR	10	T6	GZY9.5	5	15000	90+	5600	200	39	80	Any	0.330	0.333	14, 63	50
400	70	21853	CSR400/SE/HR	10	T6	GZZ9.5	6	32000	90+	6000	750	60	110	Any	0.323	0.328	14, 18	50
575	95	48463	CSR575/SE/HR	10	T9.5	G22	7	48000	90+	6000	750	70	145	Any	0.323	0.328	14, 63	51
1200	100	48464	CSR1200/SE/HR	6	T13	G38	10	110000	90+	6000	750	107	200	Any	0.323	0.328	14, 63	52
2500	115	48465	CSR2500/SE/HR	6	T19.5	G38	14	220000	90+	6000	500	127	240	Any	0.323	0.328	14, 63	53
4000	200	48466	CSR4000/SE/HR	6	T24	G38	24	380000	90+	6000	500	142	250	Any	0.323	0.328	14, 63	53
6000	130	48467	CSR6000/SE/HR	6	T26.5	G38	26	540000	90+	6000	300	210	360	Any	0.323	0.328	14, 63	54
12000	160	48468	CSR12000/SE/HR	4	T32	G38	28	1100000	90+	6000	250	255	450	Any	0.323	0.328	14, 63	54

CSR Metal Halide (Daylight) – Double-Ended Hot Restrike

FEATURES

- Industry standard outline
- Up to 100 lumens/watt with superior color stability
- Use with electronic or AC magnetic ballast/ignitor control gear
- Up to 18,000 watts available

APPLICATIONS

- Film Production
- Sporting Events
- Stage
- Photographic Studios
- Concerts
- Overhead and Large Screen Projection
- Color Simulation



Fig. 55



Fig. 56



Fig. 57



Fig. 58



Fig. 59

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Arc Length	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
CSR Metal Halide (Daylight) – Double-Ended Hot Restrike																		
200	80	48450	CSR200/DE	10	T4.5	X515	8	16000	90+	6000	300	75	H15	0.323	0.325	14, 63	55	
575	95	48451	CSR575/DE	10	T6.5	SFc 10-4 SI/M4	7	49000	90+	6000	750	145	H15	0.323	0.325	14, 63	56	
1200	100	48452	CSR1200/S/DE	10	T6.5	SFc 10-4 SI/M4	7	110000	90+	6000	750	145	H15	0.323	0.325	14, 63	56	
		48453	CSR1200/DE	6	T8.5	SFc 15.5-6 SI/M6	10	110000	90+	6000	750	220	H15	0.323	0.325	14, 63	56	
2500	115	48454	CSR2500/DE	6	T9.5	Sfa21-12	14	240000	90+	6000	500	355	H15	0.323	0.325	14, 63	59	
4000	200	48455	CSR4000/DE	6	T12	Sfa21-12	34	410000	90+	6000	500	405	H15	0.323	0.325	14, 63	59	
6000	125	48456	CSR6000/DE	6	T16	25X51 Cyl 165mm	22	570000	90+	6000	300	450	H15	0.323	0.325	14, 63	57	
12000	160	48457	CSR12000/DE	4	T22.5	30x70 Cyl 165mm	32	1100000	90+	6000	300	470	H15	0.323	0.325	14, 63	57	
18000	225	45459	CSR18000/DE	4	T28	30x70 Cyl 165mm	45	1650000	90+	6000	300	500	H15	0.323	0.325	14, 63	58	
		48460	CSR18000/S/DE	4	T28	30x70 Cyl 165mm	45	1650000	90+	6000	300	470	H15	0.323	0.325	14, 63	58	

Architectural – Discharge

FEATURES

- Color stability lamp to lamp for the entire lamp life
- Can blend with tungsten lamps at 3000 degrees K
- Excellent color rendition with CRI 80-90+
- Operates on standard metal halide ballasts with 10-20% more output

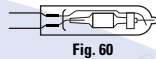


Fig. 60

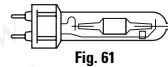


Fig. 61

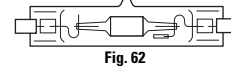


Fig. 62

Watts	ANSI Ballast	Order Code	Description	Case Qty.	Bulb	Base	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Footnotes	Figure Number
ConstantColor® CMH® Metal Halide (Tungsten film) – Single-Ended Miniatures															
20		92079	CMH20/TC/UVC/U/830/G8.5	12	T4.5	G8.5	1700	80+	3000	9000	51	86	Any	14, 63	60
	Pending	92696	CMH20/TC/U/830/G8.5	12	T4.5	G8.5	1700	80+	3000	6000	51	86	Any	14, 63	60
35		38697	CMH35/TC/UVC/U/830/G8.5	12	T4.5	G8.5	3400	80+	3000	10000	51	86	Any	14, 63	60
39	M130	90352	CMH39/TC/U/830/G8.5	12	T4.5	G8.5	3400	80+	3000	9000	51	86	Any	14, 63	60
70		38700	CMH70/TC/UVC/U/830/G8.5	12	T4.5	G8.5	6200	80+	3000	9000	51	86	Any	14, 63	60
	M98, M139	92585	CMH70/TC/U/830/G8.5	12	T4.5	G8.5	6200	80+	3000	9000	51	86	Any	14, 63	60
ConstantColor® CMH® Metal Halide (Tungsten film) – Single-Ended															
35		38696	CMH35/T/UVC/U/830/G12	12	T6	G12	3400	80+	3000	10000	55	90	Any	14, 63	61
39	M130	42070	CMH39/T/U/830/G12	12	T6	G12	3400	80+	3000	10000	55	90	Any	14, 63	61
70		36844	CMH70/T/UVC/U/830/G12	12	T6	G12	6000	80+	3000	15000	55	90	Any	14, 63	61
		38701	CMH70/T/UVC/U/942/G12	12	T6	G12	6000	90+	4200	15000	55	90	Any	14, 63	61
	M85, 98, 139	92582	CMH70/T/U/830/G12	12	T6	G12	6200	80+	3000	15000	55	90	Any	14, 63	61
		92583	CMH70/T/U/942/G12	12	T6	G12	6400	90+	4200	15000	55	90	Any	14, 63	61
150		36863	CMH150/T/UVC/U/830/G12	12	T6	G12	14000	80+	3000	12000	55	100	Any	14, 63	61
		38694	CMH150/T/UVC/U/942/G12	12	T6	G12	13000	90+	4200	12000	55	100	Any	14, 63	61
	M81, 102, 142	92584	CMH150/T/U/830/G12	12	T6	G12	14000	80+	3000	12000	55	100	Any	14, 63	61
		92586	CMH150/T/U/942/G12	12	T6	G12	13000	90+	4200	12000	55	100	Any	14, 63	61
ConstantColor® CMH® Metal Halide (Tungsten film) – Double-Ended															
70		36910	CMH70/TD/UVC/830/Rx7s	12	T6	Rx7s	7000	80+	3000	15000	57	114	H45	14, 63	62
		38698	CMH70/TD/UVC/942/Rx7s	12	T6	Rx7s	6200	90+	4200	15000	57	114	H45	14, 63	62
	M85, 98, 139	92587	CMH70/TD/830/Rx7s	12	T6	Rx7s	7000	80+	3000	15000	57	114	H45	14, 63	62
		92588	CMH70/TD/942/Rx7s	12	T6	Rx7s	6200	90+	4200	15000	57	114	H45	14, 63	62
150		36912	CMH150/TD/UVC/830/Rx7s-24	12	T7	Rx7s-24	14500	80+	3000	15000	67	136	H45	14, 63	62
		38692	CMH150/TD/UVC/942/Rx7s-24	12	T7	Rx7s-24	12500	90+	4200	15000	67	136	H45	14, 63	62
	M81, 102, 142	92589	CMH150/TD/830/Rx7s	12	T7	Rx7s	14500	80+	3000	15000	67	136	H45	14, 63	62
		92590	CMH150/TD/942/Rx7s	12	T7	Rx7s	12500	90+	4200	15000	67	136	H45	14, 63	62

CSI/CID/MVR/SPL Discharge

FEATURES

- CID is Compact Iodide Daylight with color temperatures of 5500 degrees K
- CSS Compact Source Specials are for disco and fiberoptic applications
- CSI Compact Source Iodide lamps have a warmer 4000 degrees K
- MVR and SPL are Multi-Vapor® Metal Halide for large people areas such as stadiums

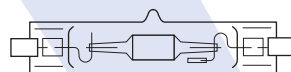


Fig. 64



Fig. 65

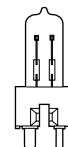


Fig. 66

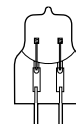


Fig. 67

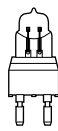


Fig. 68

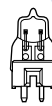


Fig. 69

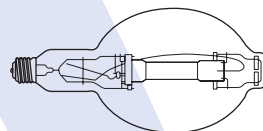


Fig. 70

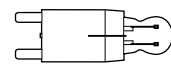


Fig. 71

Watts	Volts or ANSI Ballast	Order Code	Description	Case Qty.	Bulb	Base	Arc Length (mm)	Lumens	CRI Index	Color Temp.	Life (hrs)	LCL (mm)	MOL (mm)	Burning Position	Footnotes	Figure Number
CSI/CID/MVR/SPL Discharge																
140	85	34813	CSS150/850/GY9.5	10	T-7	GY9.5	6	10000	80	5000	1000	30	48	BDTH	14, 63	65
200	70	30560	99-0211CID/HR	1	T-5	Special	5.5	14000	85	5500	150	36	57	BDTH	14, 63	66
400	100	30555	99-0201CSI	1	T-6	Special	9	32000	80	4000	500	25	55	BDTH	14, 63	67
575	95	30563	99-0415CID	1	T-7	G22	9	40250	85	5500	500	52	94	BDTH	14, 63	68
		34822	CSS575/855/GY9.5	10	T-7	GY9.5	9	40250	85	5500	500	52	94	BDTH	14, 63	69
1000	77	30558	99-0221CSI	1	T-10	G22	14	90000	80	4000	500	64	115	BDTH	14, 63	68
		30561	99-0222CID	1	T-10	G22	15	70000	85	5500	500	64	115	BDTH	14, 63	68
1500	M48	37405	MVR1500/HBU	6	BT56	E39		165000	65	3900	3000	241	390	HBU	14, 63	70
		47326	MVR1500/U/SPORTS	6	BT56	E39		178000	65	4000	3000	241	390	Any	14, 63	70
	Special	30061	SPL1500/L/H/652	1	T-7	Rx7s		120000	80	5200	6000	127	257	H4	14, 63	64
1650	M112	25532	MVR1650/HOR	6	BT56	E39p		177000	65	3200	3000	241	390	H15	14, 63	70
2000	M134	12275	MQ12000/T9/40	10	T-9	Special		200000	65	4000	4000	109	254	H15	14, 63	
2500	100	30567	99-0431CID/HR	1	G-13	G38	18	200000	85	5500	350	127	175	BDTH	14, 63	71



Stage and Studio – Fluorescent SECTION 1

Cinema Fluorescent

FEATURES

- Color is matched for Tungsten 3200 degrees K (Cinema32) or Daylight 5500 degrees K (Cinema 55)
- High CRI of 95+
- Each available with covRguard® shatter protection (see Order w/CVG), which afford UV protection, protecting against color fading effects
- Note: Footnote 173 applies to covRguard®, not 171

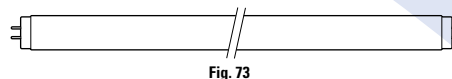


Fig. 73

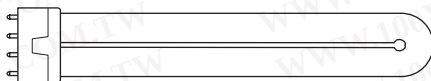


Fig. 74

Cinema Fluorescent – Biax®

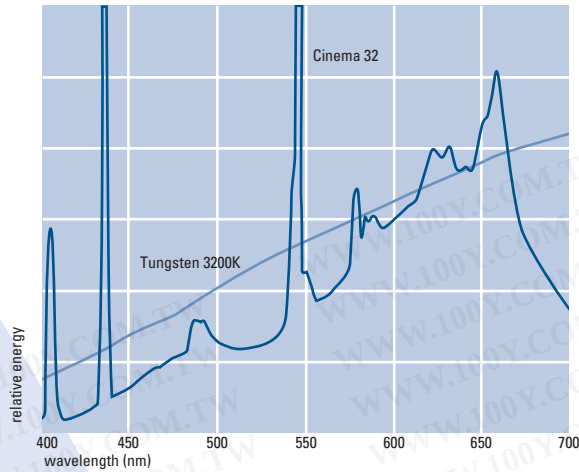
FEATURES

- Color is matched for Tungsten 3200 degrees K (Cinema32) or Daylight 5500 degrees K (Cinema 56)
- For smaller light weight fixtures
- Dimmable to 1% with approved ANSI systems

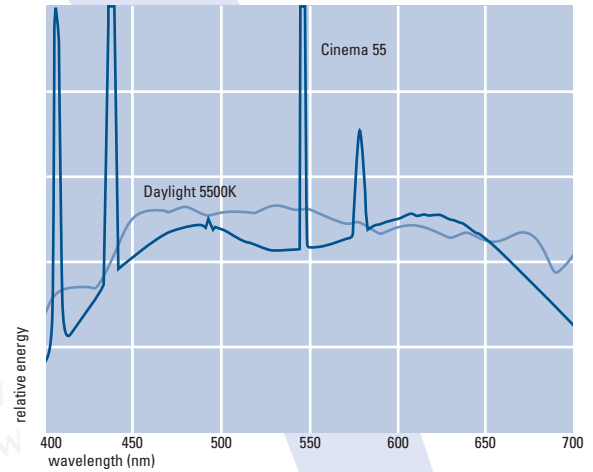
Watts	MOL (in)	Order Code	Description	Order w/CVG	Case Qty.	Bulb	Base	CRI Index	Initial Lumens	Mean Lumens	Color Temp.	Life (hrs)	MOL (mm)	Burning Position	CIE Color x	CIE Color y	Footnotes	Figure Number
Cinema Fluorescent – Linear																		
15	18.00	15722	F15T8/CINEMA32	15800	24	T8	G-13 Med BiPin	95	720	575	3200	8000	457	Any	0.415	0.377	8, 171	73
		15723	F15T8/CINEMA55	15801	24	T8	G-13 Med BiPin	96	700	560	5500	8000	457	Any	0.330	0.335	8, 171	73
17	24.00	15724	F17T8/CINEMA32	15806	24	T8	G-13 Med BiPin	95	800	640	3200	20000	610	Any	0.415	0.377	8, 171	73
		15725	F17T8/CINEMA55	15810	24	T8	G-13 Med BiPin	96	770	610	5500	20000	610	Any	0.330	0.335	8, 171	73
20	24.00	15558	F20T12/CINEMA32	15766	24	T12	G-13 Med BiPin	95	780	620	3200	10000	610	Any	0.415	0.377	8, 171	73
		15710	F20T12/CINEMA55	15774	24	T12	G-13 Med BiPin	96	760	600	5500	10000	610	Any	0.330	0.335	8, 171	73
30	36.00	15714	F30T12/CINEMA32	15779	24	T12	G-13 Med BiPin	95	1450	1160	3200	18000	914	Any	0.415	0.377	8, 171	73
		15715	F30T12/CINEMA55	15780	24	T12	G-13 Med BiPin	96	1400	1120	5500	18000	914	Any	0.330	0.335	8, 171	73
32	48.00	47868	F32T8/CINEMA32	47881	36	T8	G-13 Med BiPin	95	1800	1440	3200	20000	1219	Any	0.415	0.377	8, 171	73
		47869	F32T8/CINEMA55	47882	36	T8	G-13 Med BiPin	96	1750	1400	5500	20000	1219	Any	0.330	0.335	8, 171	73
35	24.00	15712	F20T12/CINEMA32/HO	15775	24	T12	G-13 Med BiPin	95	1130	800	3200	7500	610	Any	0.415	0.377	8, 171	73
		15713	F20T12/CINEMA55/HO	15776	24	T12	G-13 Med BiPin	96	1100	770	5500	7500	610	Any	0.330	0.335	8, 171	73
40	48.00	47857	F40T12/CINEMA32	47876	30	T12	G-13 Med BiPin	95	2000	1600	3200	20000	1219	Any	0.415	0.377	8, 171	73
		47864	F40T12/CINEMA55	47877	30	T12	G-13 Med BiPin	96	1950	1560	5500	20000	1219	Any	0.330	0.335	8, 171	73
75	48.00	15716	F40T12/CINEMA32/HO	15782	30	T12	G-13 Med BiPin	95	2900	2030	3200	15000	1219	Any	0.415	0.377	8, 171	73
		15717	F40T12/CINEMA55/HO	15783	30	T12	G-13 Med BiPin	96	2820	1974	5500	15000	1219	Any	0.330	0.335	8, 171	73
85	72.00	15718	F72T12/CINEMA32/HO	15785	15	T12	G-13 Med BiPin	95	4150	2905	3200	15000	1829	Any	0.415	0.377	8, 171	73
		15719	F72T12/CINEMA55/HO	15786	15	T12	G-13 Med BiPin	96	4050	2835	5500	15000	1829	Any	0.330	0.335	8, 171	73
110	96.00	15720	F96T12/CINEMA32/HO	15794	15	T12	G-13 Med BiPin	95	5800	4060	3200	15000	2438	Any	0.415	0.377	8, 171	73
		15721	F96T12/CINEMA55/HO	15798	15	T12	G-13 Med BiPin	96	5650	3955	5500	15000	2438	Any	0.330	0.335	8, 171	73
Cinema Fluorescent – Biax®																		
55	21.10	15811	F55BX/CINEMA32		10	T5	2G11-4 PIN	86	4100	3485	3200	8000	536	Any	0.415	0.380	171	74
		15814	F55BX/CINEMA56		10	T5	2G11-4 PIN	86	4100	3485	5600	8000	536	Any	0.330	0.335	171	74
		22084	F55BX/CINPLUS/32		10	T5	2G11-4 PIN	86	2400	2040	3200	8000	536	Any	0.415	0.380	171	74
		22085	F55BX/CINPLUS/56		10	T5	2G11-4 PIN	86	2400	2040	5600	8000	536	Any	0.330	0.335	171	74

- GE Cinema Fluorescent match phosphor blends to film light reference sources
- A full range of operating currents and dimming conditions can be used without requiring added filtration

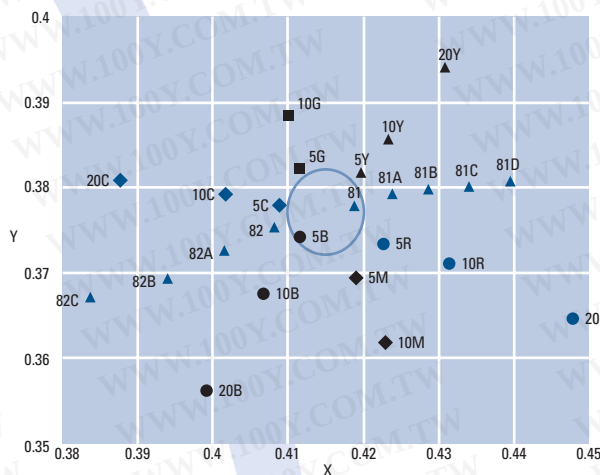
Cinema 32 vs. Tungsten 3200K



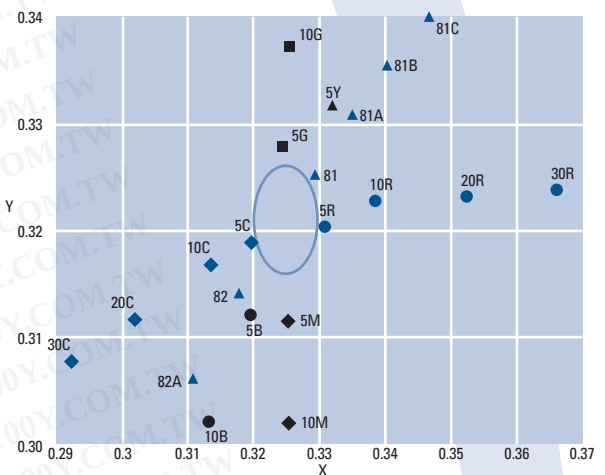
Cinema 55 vs. 5540K Daylight



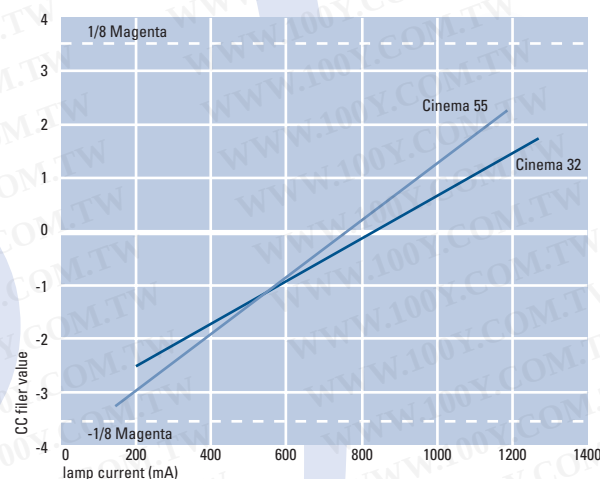
Tungsten 3200K Color Shift with Wratten Filters



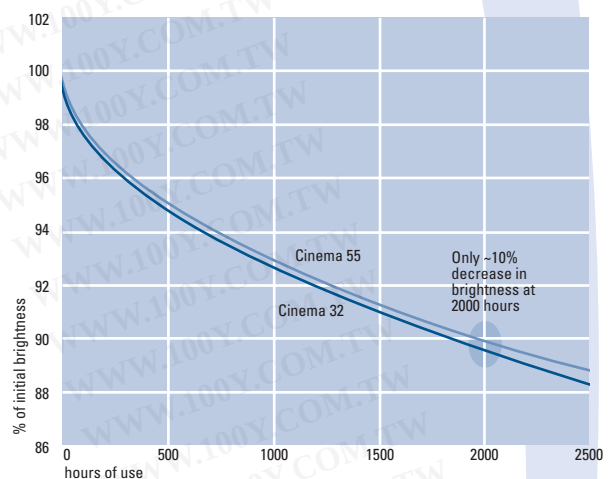
Daylight Color Shift with Wratten Filters



Color vs. Lamp Current for T12HO Cinema Lamps



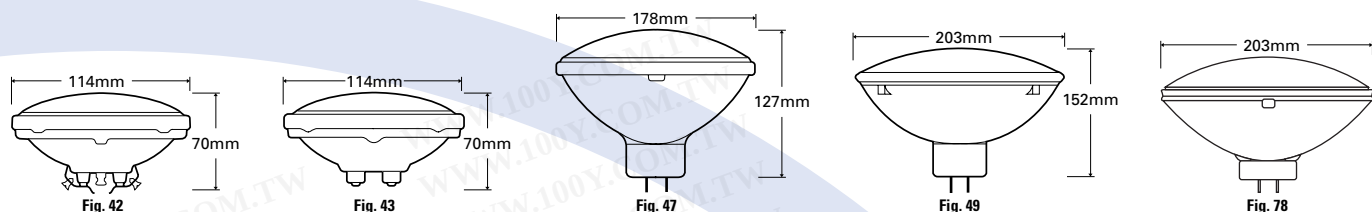
Minimal Lamp Brightness Decrease Over Usage



Stage/Studio Sealed Beams

FEATURES

- See Section 3 for additional sealed beams
- Sealed glass parts will tolerate moisture and salt over time better than metal composite lamps
- Consistant filament to reflector focusing, and tailored lenses to insure MBCP and spread suitable for the application
- Beam distributions in narrow spot (NSP), spot (SP), medium and wide flood (MFL, WFL)



Watts	Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb Size	Base	MOL (in)	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	Filament Type	Life (hrs)	Application	Footnotes	Figure Number
Sealed Beam – Halogen PAR36, 4.5" (144mm) Reflector																				
650	120	41667 DWE-Q650PAR36/1	DWE	12 PAR36	Screw Terminals	2.75	24000		40	30	3200		100					63		42
		41668 FAY-Q650PAR36/3D	FAY	12 PAR36	Ferrule	2.75	36000		25	15	5000	C-7A	30					63		43
		41669 FBE-Q650PAR36/5D	FBE	12 PAR36	Screw Terminals	2.75	36000		25	15	5000	C-7A	30					63		42
		41671 FBO-Q650PAR36/5	FBO	12 PAR36	Screw Terminals	2.75	67000		25	15	3400	C-7A	30					63		42
		41672 FCW-Q650PAR36/6	FCW	12 PAR36	Ferrule	2.75	9000		60	55	3200	C-7A	100					63		43
		41673 FCX-Q650PAR36/7	FCX	12 PAR36	Ferrule	2.75	24000		40	30	3200	C-7A	100					63		43
Sealed Beam – Halogen PAR56, 7" (178mm) Reflector																				
500	120	43495 Q500PAR56MFL		6 PAR56	Mog End Pr	5	43000	42	20	26	10	2950	CC-6	4000	Medium Flood	150				47
		43494 Q500PAR56NSP		6 PAR56	Mog End Pr	5	96000	32	15	13	8	2950	CC-6	4000	Narrow Spot	150				47
		43496 Q500PAR56WFL		6 PAR56	Mog End Pr	5	19000	66	34	44	20	2950	CC-6	4000	Wide Flood	150				47
Sealed Beam – Halogen and Incandescent PAR64, 8" (203mm) Reflector																				
500	120	39409 500PAR64/MFL		12 PAR64	ExMogEndPr	6	37000	35	19	23	11	2800	CC-13	2000	Medium Flood	20, 23, 24				49
		39406 500PAR64/NSP		12 PAR64	ExMogEndPr	6	110000	19	14	12	7	2800	CC-13	2000	Narrow Spot	20, 23, 24				49
		39412 500PAR64/WFL		12 PAR64	ExMogEndPr	6	13000	55	32	42	20	2800	CC-13	2000	Wide Flood	20, 23, 24				49
230		39411 500PAR64/MFL		12 PAR64	MogEndPr	6		32	19	21	10	2700	CC-13	2000	Medium Flood	20, 23, 24				78
		39414 500PAR64/WFL		12 PAR64	MogEndPr	6		55	32	42	20	2700	CC-13	2000	Wide Flood	20, 23, 24				78
		30287 Q500PAR64/MFL	CP88	6 PAR64	ExMogEndPr		65000	32	19	21	10	3200		300	CP88-MFL	63				49
		30283 Q500PAR64/NSP	CP87	6 PAR64	ExMogEndPr		140000	19	16	11	9	3200		300	CP87-MSP	63				49
		30280 Q500PAR64/VNSP	CP86	6 PAR64	ExMogEndPr		240000	16	13	10	7	3200		300	CP86-VNSP	63				49
240		30288 Q500PAR64/MFL	CP88	6 PAR64	ExMogEndPr		65000	32	19	21	10	3200		300	CP88-MFL	63				49
		30286 Q500PAR64/NSP	CP87	6 PAR64	ExMogEndPr		140000	19	16	11	9	3200		300	CP87-MSP	63				49
		30282 Q500PAR64/VNSP	CP86	6 PAR64	ExMogEndPr		240000	16	13	10	7	3200		300	CP86-VNSP	63				49
1000	120	13233 FFN-Q1000PAR64/1	FFN	6 PAR64	ExMogEndPr	6	400000	24	10	12	6	3200	C-7A	800	Very Narrow Spot	63				49
		13229 FFP-Q1000PAR64/2	FFP	6 PAR64	ExMogEndPr	6	330000	26	14	14	7	3200	C-7A	800	Narrow Spot	63				49
		13228 FFR-Q1000PAR64/5	FFR	6 PAR64	ExMogEndPr	6	125000	44	21	28	12	3200	C-7A	800	Medium Flood	63				49
		13227 FFS-Q1000PAR64/6	FFS	6 PAR64	ExMogEndPr	6	40000	71	45	48	24	3200	C-7A	800	Wide Flood	63				49
		13226 FGM-Q1000PAR64/3	FGM	6 PAR64	ExMogEndPr	6	200000	24	12	13	6	5200	C-7A	200	Medium Flood	63				49
		13225 FGN-Q1000PAR64/7D	FGN	6 PAR64	ExMogEndPr	6	70000	43	20	27	11	5200	C-7A	200	Narrow Spot	63				49
		43498 Q1000PAR64MFL		6 PAR64	ExMogEndPr	6	80000	45	22	28	12	3000	CC-6	4000	Medium Flood	150				49
		43497 Q1000PAR64NSP		6 PAR64	ExMogEndPr	6	200000	31	14	15	8	3000	CC-6	4000	Narrow Spot	150				49
		43499 Q1000PAR64/WFL		6 PAR64	ExMogEndPr	6	33000	72	45	48	24	3000	CC-6	4000	Wide Flood	150				49

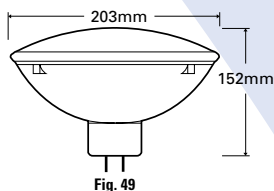


Fig. 49

Watts Volts	Order Code	Description	ANSI Code	LIF Code	Case Qty.	Bulb Size	Base	MOL (in)	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	Filament Type	Life (hrs)	Application	Footnotes	Figure
Sealed Beam – Halogen and Incandescent PAR64, 8" (203mm) Reflector (Continued)																			
1000 230	30277 CP95/230V		CP95		6	PAR64	ExMogEndPr		15000	125	95	70	70	3200		300	Very Wide Flood	63	49
	93409 EXC-Q1MPAR64CP60	EXC	CP60		6	PAR64	ExMogEndPr	6	352000	20	17	12	9	3200	C-7A	300	Very Narrow Spot	63	49
	10928 EXD-Q1MPAR64CP61	EXD	CP61		6	PAR64	ExMogEndPr	6	297000	22	20	14	10	3200	C-7A	300	Narrow Spot	63	49
	10930 EXE-Q1MPAR64CP62	EXE	CP62		6	PAR64	ExMogEndPr	6	138000	38	20	24	11	3200	C-7A	300	Medium Flood	63	49
	35482 EXG/PAR64/WFL230V	EXG			6	PAR64	ExMogEndPr	6	38000	73	36	57	21	3200	C-7A	300	Wide Flood	63	49
240	30278 CP95/240V		CP95		6	PAR64	ExMogEndPr		15000	125	95	70	70	3200		300	Very Wide Flood	63	49
	10925 EXC-Q1MPAR64CP60	EXC	CP60		6	PAR64	ExMogEndPr	6	352000	20	17	12	9	3200	C-7A	300	Very Narrow Spot	63	49
	10929 EXD-Q1MPAR64CP61	EXD	CP61		6	PAR64	ExMogEndPr	6	297000	22	20	14	10	3200	C-7A	300	Narrow Spot	63	49
	10931 EXE-Q1MPAR64CP62	EXE	CP62		6	PAR64	ExMogEndPr	6	138000	38	20	24	11	3200	C-7A	300	Medium Flood	63	49
	35483 EXG/PAR64/WFL240V	EXG			6	PAR64	ExMogEndPr	6	38000	73	36	57	21	3200	C-7A	300	Wide Flood	63	49
1200 120	34812 GFA-Q1200PAR64/5	GFA			6	PAR64	ExMogEndPr	6	160000	22	36	13	24	3200	C-7A	400	Medium Flood	63	49
	34810 GFB-Q1200PAR64/2	GFB			6	PAR64	ExMogEndPr	6	450000	16	18	8	10	3200	C-7A	400	Narrow Spot	63	49
	34808 GFC-Q1200PAR64/1	GFC			6	PAR64	ExMogEndPr	6	540000	14	16	8	10	3200	C-7A	400	Very Narrow Spot	63	49

Sealed Beam – Discharge, PAR64, 8" (203mm) Reflector

FEATURES

- ConstantColor® CMH® Metal Halide (Warm), Multi-Vapor® (SPL) and Compact Iodide Daylight (CID) color temperatures
- Excellent color rendition with CRI 80-90+
- CMH®/CID Operate on standard metal halide ballasts with 10-20% more output
- Over 1 million candela maximum beams available

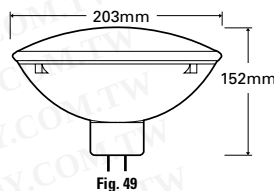


Fig. 49

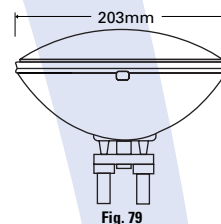


Fig. 79

Watts Volts or ANSI Ballast	Order Code	Description	Case Qty.	Bulb Size	Base	MOL (in)	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	CRI Index	Life (hrs)	Application	Footnotes	Figure Number
Sealed Beam – Discharge, PAR64, 8" (203mm) Reflector																	
150	M81,102	16959 CMH150/PAR64/830/GX16d/MFL	6	PAR64	GX16d		47000	34	26	22	14	3000	80+	8000	Medium Flood	14, 18, 63	49
		16958 CMH150/PAR64/830/GX16d/SP	6	PAR64	GX16d		154000	18	18	9	9	3000	80+	8000	Narrow Spot	14, 18, 63	49
		16960 CMH150/PAR64/830/GX16d/WFL	6	PAR64	GX16d		16000	62	36	46	23	3000	80+	8000	Wide Flood	14, 18, 63	49
		16962 CMH150/PAR64/842/GX16d/MFL	6	PAR64	GX16d		47000	34	26	22	14	4200	90+	8000	Medium Flood	14, 18, 63	49
		16961 CMH150/PAR64/842/GX16d/SP	6	PAR64	GX16d		154000	18	18	9	9	4200	90+	8000	Narrow Spot	14, 18, 63	49
		16963 CMH150/PAR64/842/GX16d/WFL	6	PAR64	GX16d		16000	62	36	46	23	4200	90+	8000	Wide Flood	14, 18, 63	49
1000	77	29333 SPL1000/PAR64/840	1	PAR64	G38	6.87	1350000			6	6	4000	80	3500	Narrow Spot	14, 19, 63	79
		29336 SPL1000/PAR64/HR	1	PAR64	G38	6.87	1350000			6	6	4000	80	3500	Narrow Spot, Hot restrike	14, 19, 63	79
		30360 99-1225CID/CS	1	PAR64	G38	6.87	850000			20	20	5500	85	1500	Cold Start	14, 23, 63	79
		30371 99-1425CID/HR	1	PAR64	G38	6.87	850000			20	20	5500	85	1000	Hot Restrike	14, 23, 63	79
1200	100	30372 99-1435CID/HR	1	PAR64	G38	6.87	820000			18	18	5500	85	1000	Hot Restrike	14, 24, 63	79



FEATURES

- Precisely manufactured, tailored filaments to maximize source brightness and optimal performance in precision optical devices
- High light-generating efficiency of Quartzline® Halogen, for whiter light, lamp maintenance, and stable color temperature
- For use with prefocused bases or rim-referenced mounting Multi-Mirror® Reflectors

APPLICATIONS

- Audio Visual
- Optical Instruments
- Overhead/Slide Projectors
- Fiberoptics
- Microfilm Readers
- Medical/Dental Instruments
- Printers/Enlargers
- Scientific Instruments
- Photoflood

Quartzline® Multi-Mirror® Reflectors

FEATURES

- Dichroic reflectors for cool light beam and efficient light reflection
- Precise rim reference to optimize target beam
- Faceted reflector for uniform screen image and precision beam control
- Working distance is from reflector rim surface to the film plane/target (see page 35)



Fig. 80



Fig. 81

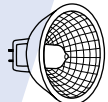
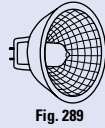
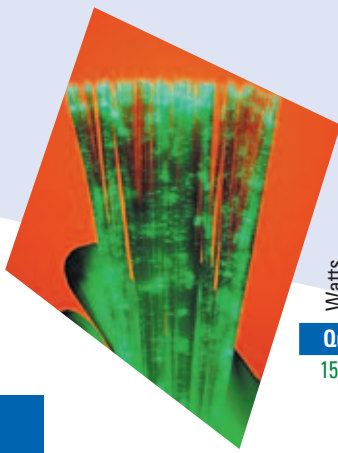


Fig. 289

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	MOL (in)	Color Temp.	CBCP	Working Distance (in)	Life (hrs)	Burn Position	Application	Footnotes	Figure Number
Quartzline® Multi-Mirror® Reflectors – MR11																
28	13.8	31964 FLT		10	MR11	GZ4 2-Pin	CC-6	1.38	3050			500	HD	Microfilm	64	80
Quartzline® Multi-Mirror® Reflectors – MR13																
225	68	15832 EZF/EZJ UNIT		20	MR13	GX5.3 2-Pin	CC-8	1.75				350	HD	Color printer	3, 64	81
250	82	12097 EXY		20	MR13	GX5.3 2-Pin	CC-8	1.75	3200		6	200	HD	Slide projection	64	81
300	82	12092 EXR		20	MR13	GX5.3 2-Pin	CC-8	1.75	3350		6	35	HD	Slide projection	64	81
		12095 EXW		20	MR13	GX5.3 2-Pin	CC-8	1.75	3450		6	15	HD	Slide projection	64	81
		47614 FHS		20	MR13	GX5.3 2-Pin	CC-8	1.75	3300		6	70	HD	Slide projection	64	81
Quartzline® Multi-Mirror® Reflectors – MR16																
20	12	10933 BAB/PH		20	MR16	GX5.3 2-Pin	C-6	1.75	2900			4000	HD	Display	64	289
25	13.8	47914 FHX		20	MR16	GX5.3 2-Pin	CC-6	1.75	3200		4.13	250	HD	Microfilm	64	289
30	10.8	36902 EKZ		20	MR16	GX5.3 2-Pin	C-6	1.75	3100		1.5	200	HD	16mm projection	64	289
35	12	41430 EPN UNIT		20	MR16	GX5.3 2-Pin	C-6	1.75	3300		1.13	50	HD	8mm projection	64	289
42	10.8	41729 EPT UNIT		20	MR16	GX5.3 2-Pin	C-6	1.75	2900		1.5	10000	HD	Fiber optics	64	289
50	8	41251 EFM		20	MR16	GZ6.35 2-Pin	C-6	1.75	3300		1.25	50	HD	8mm projection	64	289
12		25475 ENL		20	MR16	GX5.3 2-Pin	C-6	1.75	3050		1.5	4000	HD	Fiber optics, display lighting	64	289
13.8		44854 DJT UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3150		6	1000	HD	Microfilm	64	289
		14887 FML UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3150		8.44	1000	HD	Microfilm	64	289
55	17	43986 DDF UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3100		2.19	300	HD	Enlarger, projection	64	289
75	12	41252 EFN		20	MR16	GZ6.35 2-Pin	CC-6	1.75	3350		1.25	50	HD	8mm projection	64	289
80	19	43206 DDM UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3350		6	50	HD	Slide projection	64	289
		40248 ENW/ENC UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3200		1.75	200	HD	8mm projection	64	289
21		43988 DDS UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3125		6.5	1000	HD	Microfilm	64	289
30		35800 EKP/ENA		20	MR16	GX5.3 2-Pin	CC-6	1.75	3350		1.75	25	HD	8mm projection	64	289
85	13.8	43950 DED UNIT		20	MR16	GX5.3 2-Pin	C-6	1.75	3150		6.5	1000	HD	Microfilm	64	289
82		11698 ESJ		20	MR16	GY5.3 2-Pin	CC-8	1.75	3350		1.75	40	HD	Enlarger, projection	64	289
90	14.5	41882 EPV UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3150		6.13	500	HD	Microfilm	64	289
		42614 EPX UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3150		6.5	500	HD	Microfilm	64	289
100	12	41253 EFP		20	MR16	GZ6.35 2-Pin	CC-6	1.75	3350		1.25	50	HD	8mm projection	64	289
		12003 EXV UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3350	3100		50	U	Camera Light	64	289

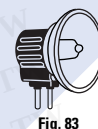


Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	MOL (in)	Color Temp.	CBCP	Working Distance (in)	Life (hrs)	Burn Position	Application	Footnotes	Figure Number
Quartzline® Multi-Mirror® Reflectors – MR16 (Continued)																
150	15	41254 EFR		20	MR16	GZ6.35 2-Pin	CC-6	1.75	3350		1.25	50	HD	8mm projection	64	289
		25137 Q150MR16-15LEADS		20	MR16	Special Leads	C-8	—	3300	—	—	200	BDTH	Optical Printing	64	
	20	43537 DDL UNIT		20	MR16	GX5.3 2-Pin	C-6	1.75	3150		7.75	500	HD	Microfilm	64	289
	21	29151 EJM		20	MR16	GX5.3 2-Pin	CC-6	1.75	3350		1.5	40	HD	8mm projection	64	289
		35200 EKE		20	MR16	GX5.3 2-Pin	CC-6	1.75	3250		1.75	250	HD	8mm projection, fiber optics	64	289
	21	38306 ELD/EJN		20	MR16	GX5.3 2-Pin	CC-6	1.75	3350		6.5	40	HD	Microfilm	64	289
	120	43756 ESD UNIT		20	MR16	GY5.3 2-Pin	CC-8	1.75	3350		1.75	12	HD	Enlarger, projection	64	289
		15477 EZK UNIT		20	MR16	GY5.3 2-Pin	CC-8	1.75	3200	3600		200	U	Camera Light	64	289
	200	29150 EJJ		20	MR16	GX5.3 2-Pin	CC-6	1.75	3400		1.25	50	HD	16mm, Color printer	64	289
		36899 EKX		20	MR16	GX5.3 2-Pin	CC-6	1.75	3400		5.5	25	HD	Microfilm	64	289
		11132 EWF UNIT		20	MR16	GX5.3 2-Pin	CC-8	1.75	3300		11.75	50	H22	Overhead projection	64	289
	82	13152 EYA		20	MR16	GY5.3 2-Pin	CC-8	1.75	3300			50	HD	Enlarger	64	289
	250	37462 ELC		20	MR16	GX5.3 2-Pin	CC-6	1.75	3400		1.25	50	HD	Fiber optics, color printer	64	289
		22023 ELC/C		20	MR16	GX5.3 2-Pin	CC-6	1.75	3400		1.25	50	HD	Fiber optics, color printer	64	289
		15377 ELC/500		20	MR16	GX5.3 2-Pin	CC-6	1.75	3350		1.25	500	HD	Fiber optics, color printer	64	289
	82	11110 EVW UNIT		20	MR16	GY5.3 2-Pin	CC-8	1.75	3300		11.75	50	H22	Overhead projection	64	289
	120	38686 ENH UNIT		20	MR16	GY5.3 2-Pin	CC-8	1.75	3250	11700	6	175	HD	Slide projection	64	289
		11322 ETJ		20	MR16	GY5.3 2-Pin	CC-8	1.75	3300		1.5	175	HD	Fiber Optics	64	289
		11750 EXX		20	MR16	GY5.3 2-Pin	CC-8	1.75	3300	6750		25	U	Camera Light	64	289
	300	38476 ELH		20	MR16	GY5.3 2-Pin	CC-8	1.75	3350		6	35	HD	Slide projection	64	289
		38685 ENG		20	MR16	GY5.3 2-Pin	CC-8	1.75	3450		6	15	HD	Slide projection	64	289
	340	41874 ERV UNIT		20	MR16	GX5.3 2-Pin	CC-8	1.75	3300		11.75	75	HD	Overhead projection	64	289
	360	41705 ENX UNIT		20	MR16	GY5.3 2-Pin	CC-8	1.75	3300		11.75	75	HD	Overhead projection	64	289
		19475 ENX-5 UNIT		20	MR16	GY5.3 2-Pin	CC-8	1.75	3300			75	HD	Overhead projection	64	289
	100	41702 EPW UNIT		20	MR16	GY5.3 2-Pin	CC-8	1.75	3250		11.75	75	HD	Overhead projection	64	289
	410	21613 FXL		20	MR16	GY5.3 2-Pin	CC-8	1.75	3300		11.75	38	HD	Overhead projection	64	289

Quartzline® Reflector Lamps

FEATURES

- Non-faceted (smooth) dichroic reflectors



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	MOL (in)	Color Temp.	Working Distance (in)	Life (hrs)	Burn Position	Application	Footnotes	Figure Number
Quartzline® Reflector Lamps															
50	18	41885 ELS/ELR UNIT		24	MR14	GX7.9 2-Pin	CC-8	1.41	3100	4.75	650	HD	Microfilm	64	83
	30	40598 ENZ UNIT		20	MR16	GX5.3 2-Pin	CC-6	1.75	3450	1.25	25	HD	8mm projection	64	82
80	19	32886 EJY		20	MR16	GX5.3 2-Pin	CC-6	1.75	3400	1.5	25	HD	Fiber Optics	64	82
	30	37412 ELB		20	MR16	GX5.3 2-Pin	CC-6	1.75	3400	1.25	18	HD	8mm projection	64	82
150	21	39742 DNF		24	MR16	GX7.9 2-Pin	CC-8	1.77	3400	2.75	25	HD	8mm projection	64	83
		32882 EJA		20	MR16	GX5.3 2-Pin	CC-6	1.75	3350	1.1	40	HD	Fiber Optics	64	82
		32831 EJV		20	MR16	GX5.3 2-Pin	CC-6	1.75	3350	1.75	40	HD	8mm proj., printer	64	82
	120	40161 DNE UNIT		24	MR16	G7.9 2-Pin	CC-8	1.77	3350	2.75	12	HD	8mm projection	64	83
250	24	40017 EMM/EKS		24	MR14	GX7.9 2-Pin	CC-8	1.66	3400	2.63	50	HD	16mm projection	64	83
	120	40658 BHB UNIT		24	MR14	G7.9 2-Pin	CC-8	1.67	3350	2.63	25	HD	16mm projection	64	83



Quartzline® Single-Ended

FEATURES

- Source size is the dimension of the rectangular area, centered on the lamp axis, within which all luminous parts of the filament lie when viewed perpendicular to the coil axis

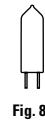


Fig. 84

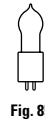


Fig. 85

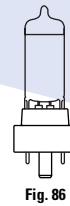


Fig. 86

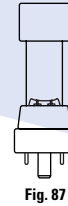


Fig. 87



Fig. 88



Fig. 89

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Color Temp	Source Size W x L (in)	Life (hrs)	Burn Position	Application	Footnotes	Figure Number
Quartzline® Single-Ended																	
30	10.8	37346	DZA 24PK	24	T3.5	G5.3 2-Pin	C-6	1.06	2	530	3100	.15 x .05	400	HD		64	85
50	12	18234	BRL	100	T3.5	G6.35 2-Pin	C-6	1.17	1.72	1400	3400		50	U		64	84
100	12	14876	FCR 100PK	100	T3	GY6.35 2-Pin	C-6 Oval	1.18	1.75	2800	3300	.20 x .15	50	HD		64	84
		35321	FDT	24	T3	GZ9.5 2-Pin Pf	C-6 Oval	1.06	2.12	2900	3300	.23 x .15	50	HD		64	88
150	24	13598	FCS 100PK	100	T4	G6.35 2-Pin	C-6 Oval	1.18	2	4500	3300	.25 x .15	50	HD		64	84
		36878	FDV	24	T4	G6.35 2-Pin	C-6 Oval	1.19	2	4300	3050	.25 x .15	100	U		64	84
		37695	DZE/FDS	24	T4	GZ9.5 2-Pin Pf	C-6 Oval	1.31	2.68	4000	3250	.25 x .15	100	HD		64	88
175	24	42612	EML UNIT	24	T4	G5.3 2-Pin	C-6	1.06	2.12	5000	3200	.21 x .19	125	HD		64	85
250	24	14874	EHJ 100PK	100	T4	G6.35 2-Pin	C-6 Oval	1.31	2.25	8000	3400	.30 x .15	50	HD		64	84
	120	13617	EYH/FKT UNIT	24	G6	G5.3 2-Pin	CC-6	1.44	2.5	6000	3000	.55 x .17	200	HD		64	85
275	24	18241	FNT/100	100	T4	G6.35 2-Pin	C-6 Oval	1.31	2.25	10000	3400	.14 x .28	50	HD		64	84
300	24	19886	FLW	48	T4	GY6.35 Ceramic	C-6 Oval	1.21	2.15	10200	3500	.34 x .23	50	HD		64	-
360	82	12696	EYB UNIT	24	T3.5	G5.3 2-Pin	CC-8	1.25	2.25	10000	3300	.30 x .20	75	HD		64	85
	86	19322	EYB-5 UNIT	24	T3.5	G5.3 2-Pin	CC-8	1.25	2.25	3200	3200	.30 x .20	75	HD		64	85
400	36	41164	EVD	24	T6	GY6.35 2-Pin	C-6	1.4	2.34	14500	3200		50	HD		64	84
500	120	36178	BCK	24	T6	G17q 4-Pin	C-13D	1.56	3.25	3200			50	HD	Slide Projection	5, 64	86
		36117	CBA	24	T6	G17q 4-Pin	C-13D	1.75	3.62	3200			50	HD	Slide Projection	6, 64	87
		33663	FBG/FBD	24	G6	G5.3 2-Pin	CC-6	1.75	3	13200	3200	.50 x .20	50	U		64	85
		37527	EHA	24	T6	GZ9.5 2-Pin Pf	C-13D	1.44	3	3300	.35 x .35	50	HD			5, 64	88
		19897	EPR	24	T6	TF	C-13D	2.68	1.56	3250	.31 x .30	50	HD			64	-
600	120	32071	DYP	24	G7	2-Button	CC-6	1	2.25	17000	3200	.50 x .25	75	HD		64	89
		30364	DYH	24	G7	G5.3 2-Pin	CC-6	1.44	2.5	17000	3200	.50 x .25	75	U		64	85
		38675	BVE	24	T6	GZ9.5 2-Pin Pf	C-13D	1.75	3.5	3200	.35 x .35	75	HD			5, 64	88
		19479	DYS-5 UNIT	24	G7	GZ9.5 2-Pin Pf	CC-6	1.44	2.5	15500	3200	.45 x .45	150	HD		64	88
		32955	DYS/DYV/BHC	24	G7	GZ9.5 2-Pin Pf	CC-6	1.44	2.5	17000	3200	.50 x .25	75	HD		64	88
650	120	30304	DVY	24	G6	G5.3 2-Pin	CC-6	1.44	2.48	20000	3300	.50 x .20	25	HD		9, 64	85
	220	33248	DYR	24	G7	GZ9.5 2-Pin Pf	2CC-8	1.44	2.5	16500	3200	.45 x .45	50	U		64	88
	240	33250	DYR	24	G7	GZ9.5 2-Pin Pf	2CC-8	1.44	2.5	16500	3200	.45 x .45	50	U		64	88

Quartzline® Double-Ended Projection

FEATURES

- Source size is the dimensions of the rectangular area, centered on the lamp axis, within which all luminous parts of the filament lie when viewed perpendicular to the coil axis

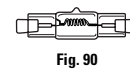


Fig. 90

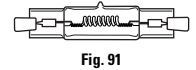


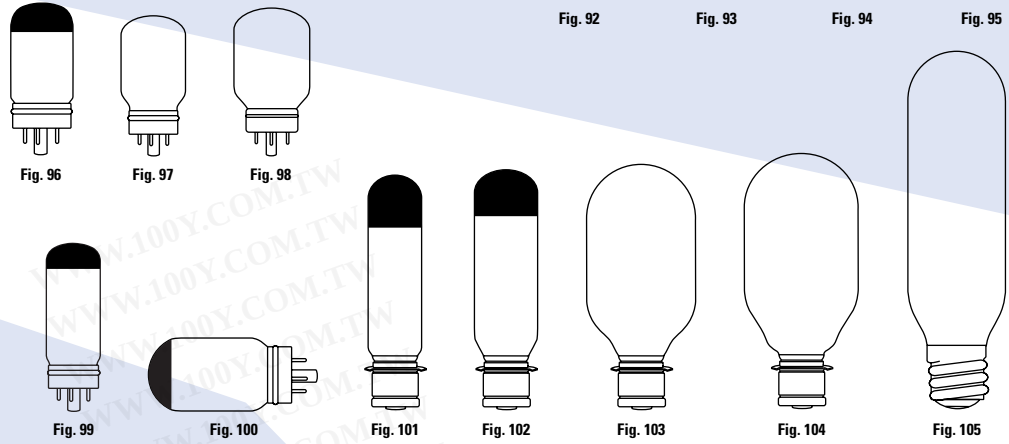
Fig. 91

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	MOL (in)	Lumens	Color Temp.	Source Size W x L (in)	Life (hrs)	Burn Position	Application	Footnotes	Figure Number
Quartzline® Double-Ended Projection																
375	30	29578	DWZ	24	T4	R7s	CC-8	3.13	7500	3000	.35 x .18	1000	U	Bowling Projector	64	90
420	120	29581	FAL	24	T4	R7s	CC-8	2.63	11000	3200	.35 x .17	90	U	Printer	64	90
		30276	FFM	24	T4	R7s	CC-8	3.13	11000	3200	.50 x .25	90	U	Copyboard	64	90
600	120	29598	FCB	24	T4	R7s	CC-8	3.75	17000	3250	.45 x .18	120	U	Overhead Projection	64	90
		29592	FFJ	24	T4	R7s	CC-8	2.63	17000	3250	.60 x .17	85	U	Printer	64	90
800	230	36952	DDX	24	T4	R7s	CC-8	3.13	21400	3200	.90 x .17	75	U	Copyboard, Studio	64	90
	240	36953	DDX	24	T4	R7s	CC-8	3.13	21400	3200	.90 x .17	75	U	Copyboard, Studio	64	90
1000	120	29604	BRH	24	T5	R7s	CC-8	3.75	30000	3350	.70 x .21	60	U	Overhead Projection	64	91
		38311	ETT UNIT	24	T5	R7s	CC-8	3.75		3350		70	U	Spec. (PH1000H)	64	91

Incandescent Projection

FEATURES

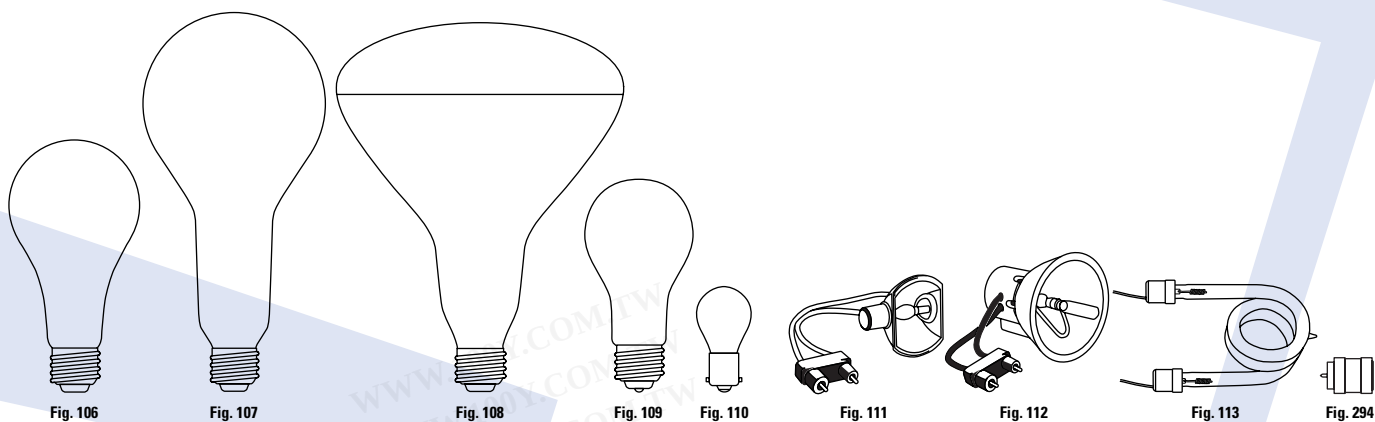
- Many contain internal proximity or focusing reflectors



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Color Temp.	Working Distance	Reflector Type	Life (hrs)	Burn Position	Application	Footnotes	Figure Number
Incandescent Projection																		
30	118	29140 BLC		120	S11	D. C. Bay.	CC-2V	1.38	2.38	400	2775			50	U	Editor Projection		92
34	8.5	30421 BXB		24	T8	S. C. Pref.	C-8	1.63	3.13	690				100	HD	Sound Reproduction		16
35	12	30202 EAJ		24	T6.4	D.C. Bay.	C6	1.77	4	620				300	U	Flashtube Modeling		14, 64
25							C6			420				300				
50	118	29156 BLX		120	S11	D. C. Bay.	CC-2V	1.38	2.38	780	2850			50	HD	Toy Projection		92
		29171 CAX		24	T8	D. C. Bay.	CC-2V	1.38	3.13	775	2875			50	BD	Optical Projection		
130		29169 CAX		24	T8	D. C. Bay.	CC-2V	1.38	3.13	775	2875			50	BD	Optical Projection		
75	118	29208 CBX/CBS		24	T8	D. C. Bay.	CC-13	1.38	3.13	1200	2925			50	BD	Slide Projection		10, 64 93
120		32137 BNF		120	S11	D. C. Bay.	CC-2V	1.38	2.38	1300	2900			25	HD	Toy Projection		92
80	30	36122 DFE UNIT		24	T12	GX17q 4-Pin	CC-8	1.56	3.19	3400	225	Focusing		15	HD	8mm Projection		64
		40216 DLD/DFZ UNIT		24	T14	GX17q 4-Pin	CC-6	1.56	3.5	3400	1.75	Focusing		15	HD	8mm Projection		13, 64 94
100	118	29266 CDJ		24	T8	D. C. Bay.	CC-2V	1.38	3.13	2000	2975			50	BD	Slide Projection		64 95
		29244 CEB		24	T8	D. C. Bay.	CC-13	1.38	3.13	1850	2975			50	BD	Slide Projection		64
120		29257 CDD		24	T8	S. C. Bay.	CC-2V	1.38	3.13	2000	2975			50	BD	Slide Projection		64 95
120	120	43330 CEM UNIT		24	T8	S. C. Bay.	2CC-8	1.38	3.13	1950	3000			200	BD	Wheel Align Projection		10, 64
150	21	29360 DCA		24	T12	GX17q 4-Pin	CC-6	1.56	3.56	3250	1.75	Focusing		15	HD	8mm Projection		11, 64
22		29366 DLS/DLG/DHX		24	T14	GX17q 4-Pin	CC-6	1.56	3.44	3250	1.75	Focusing		15	HD	8mm Projection		13, 64
120		29380 CAR		24	T10	G17q 4-Pin	2CC-8	1.31	3.13	3100		Proximity		15	BD	Slide, Film Strip		10, 64 96
		29364 DCH/DJA/DFP		24	T12	G17q 4-Pin	CC-6	1.56	3.38	3150	2.25	Focusing		15	BD	8mm Projection		64 97
		29338 DJL		24	T14	G17q 4-Pin	CC-8	1.56	3.5	3150	1.75	Focusing		15	HD	8mm Projection		64 98
125		29386 DFN/DFC		24	T12	G17q 4-Pin	CC-8	1.56	3.19	3150	2.25	Focusing		15	HD	8mm Projection		64 97
200	24	29405 DSW		24	T14	GX17q 4-Pin	CC-8	1.56	3.38	3300	1.75	Focusing		25	HD	8mm Projection		13, 64
300	120	29525 CAL		24	T10	G17q 4-Pin	C-13	1.56	4	3200		Proximity		25	BD	Slide, Film Strip		11, 64
500	120	29664 CZA/CZB		24	T10	G17q 4-Pin	C-13D	1.56	4	3300		Proximity		25	BD	Slide Projection		11, 64 99
		29737 DEK/DFW/DHN		24	T12	G17q 4-Pin	C-13D	1.75	3.62	3250		Proximity		25	HD	Slide Projection		12, 64 100
		29677 CZX/DAB		24	T10	Med. Pref.	C-13D	2.19	5.75	12500	3200			25	BD	8mm Projection		10, 64 101
750	125	29836 DDB		24	T12	Med. Pref.	C-13D	2.19	5.75	19500	3250			25	BD	16mm Projection		10, 64 102
1000	118	29968 DRB		24	T20	Med. Pref.	C-13	2.19	5.75	32000	3350			25	BD	Overhead projection		64 103
	120	29979 DRC		24	T20	Med. Pref.	C-13	2.19	5.75	30000	3250			50	BD	Overhead & opaque projection		64 103
		29947 DRS		24	T20	Med. Pref.	C-13D	2.19	5.75	28500	3325			25	BD	Overhead projection		64 104
		29959 DPT		12	T20	Mogul	C-13	4.75	9.06	28000	3200			50	BD	Opaque Projection		64 105

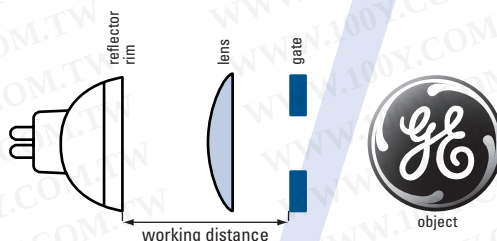
SECTION 2 Photo/Projection

Photoflood, Enlargers, Printers, Arc Sources



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	MOL (in)	Lumens	Color Temp.	CBCP	Working Distance	Life (hrs)	Burn Position	Application	Footnotes	Figure Number
Photoflood																	
30	125	30232	BLK UNIT	120	S11	Cand.	CC-2V	2.25	400	2700		50	U		Photocopy, Inside Frost	64	
250	118	40563	BBA 24PK	24	A21	Medium	C-9	4.94	8000	3400		3	U		No. 1 Photoflood, Frost	64	106
		40564	BCA 24PK	24	A21	Medium	C-9	4.94	5000	4800		3	U		No B1 Blue, Inside Frost	64	106
120		40565	ECA 24PK	24	A23	Medium	C-9	6	6500	3200		20	U		Inside Frost	64	106
300	115	40886	BAH 24PK	24	A21	Medium	C-9	4.94	9000	3200		20	U		Photocopy, Inside Frost	64	106
500	118	40566	EBV 24PK	24	PS25	Medium	C-9	6.94	17000	3400		6	U		No 2, Inside Frost	64	107
		40567	EBW PH/B2 24PK	24	PS25	Medium	C-9	6.94	10500	4800		6	U		No. B2, Blue, Inside Frost	64	107
500	120	40568	ECT 24PK	24	PS25	Medium	C-9	6.94	13650	3200		60	U		Inside Frost	64	107
		30151	DXB	24	R40	Medium	CC-2V	6.63	3300	45000		6			Spot Beam, 15 degrees	17, 64	108
		30145	DXC	24	R40	Medium	C-9	6.63	3300	5500		6			Flood Beam, 90 degrees	17, 64	108
		30281	EAL	24	R40	Medium	CC-2V	6.63	3200	6800		15			Medium Beam, 60 degrees	17, 64	108
Enlarger & Printer																	
75	120	43220	PH/140 UNIT	120	S14	Medium		3.38	1150	2900		35	U		Enlarger, White	64	
		40569	PH/211 24PK	24	A21	Medium		4.94	1000	3000		65	U		Enlarger, White	64	109
125		30162	PH/111A	120	S11	S.C. Bay.		2.38	1120	2900		15	HD		Enlarger, White	64	110
150	120	40570	PH/212 24PK	24	A21	Medium		4.94	2300	3050		100	U		Enlarger, White	64	109
250	120	40571	PH/213 24PK	24	A21	Medium		4.94	7000	3400		3	U		Enlarger, White	64	109
Pulsed Xenon Arc, Gemini® and MARC™, Light Engine™																	
300	14	10115	CXE300/BF	4	T11	Special		1.67	5000	5600	500M	1000	BDTH		Light Engine™, Medical	14, 176, 185	294
	35	11134	GEMINI 300 (EZG)	4	PAR20	Special 2-Pin Plug				6000		1.46	75	H	Replaces MARC 300/16A	19, 64	111
350	45	39936	MARC 350-16T EZT	4	PAR24	Special 2-Pin Plug			50	5000		2.05	50	H		19, 64	112
4000		30124	PXA 50	6	T3	WireTerm/Ceramic		4.63	125000	6000				U	Graphic Arts	64	113
8000		30129	PXA-80	6	T3	WireTerm/Ceramic		4.63	240000	6000				U	Graphic Arts	64	113

Working Distance





Sealed Beams

FEATURES

- Available in rectangular (140-200mm across top) and round PAR36 (4.5"), PAR46 (5.75"), PAR56 (7"), PAR64 (8") sizes
- Sealed glass parts, which tolerate moisture and salt over time better than metal composite lamps
- Consistant filament to reflector focusing, and tailored lenses to insure MBCP and spread suitable for the application
- Available in Incandescent, Halogen (Q or H prefix) and Discharge technology
- Beam distributions in narrow spot (NSP), spot (SP), medium and wide flood (MFL, WFL)
- Narrow spot beams (smaller angle spread) for more maximum beam candlepower (MBCP) in a given wattage
- See Transportation, Airport/City, Special Incandescent, and CovRguard® Sections for additional applications/types
- Sorted by size, watts, then volts

APPLICATIONS

- Spotlamps and Hand Lanterns
- Stage and Studio Lighting
- Landscape and Area Lighting
- Down and Architecture Lighting

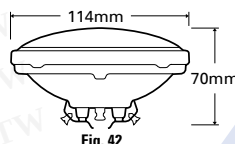


Fig. 42

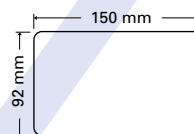


Fig. 114

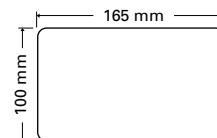


Fig. 115

Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	Initial Lumens	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	Life (hrs)	Application	Footnotes	Figure Number
Rectangle																			
50	12.8	47460 H7935-1		6	165mm	Slip-on Terminals	C-6	4.53	175000		6.5	3.5				100	Halogen Spotlamp	77	115
		15767 H9405		12	150mm	2 Right Angle Lugs	C-6	3	100000		7	4				100	Spotlamp, Halogen	77	114
PAR36																			
2.35	4.7	24780 4546		12	PAR36	Screw Terminals	C-2R	2.75	6300		3	3				100	Hand Lantern		42
		24770 4546-1		12	PAR36	Slip-on Terminals	C-2R	2.75	6300		3	3				100	Hand Lantern		
5.94	4.7	24788 4547		12	PAR36	Screw Terminals	C-2R	2.75	20000		3	3				100	Hand Lantern		42
8	6	43561 H7550		12	PAR36	Screw Terminals	C-6	2.75	25000		3	3				50	Hand Lantern	77	42
		23541 H7550-1 Bulk		60	PAR36	Slip-on Terminals	C-6	2.75	25000		3	3				50	Hand Lantern	77	
18	12	29130 Q7558 PAR36 WFL		12	PAR36	Screw Terminals	C-6	2.75	365		55	45				5000	Landscape	71, 164	42
		28113 Q7559 PAR36 VWFL		12	PAR36	Screw Terminals	C-6	2.75	120		70	70				5000	Landscape	71, 164	42
		28111 Q7560 PAR36 NSP		12	PAR36	Screw Terminals	C-6	2.75	1900		24	23				5000	Landscape	71, 164	42
		28874 Q7561 PAR36 VNSP		12	PAR36	Screw Terminals	C-6	2.75	11000		9	8				5000	Landscape	71, 164	42
25	5.5	14553 25PAR36		12	PAR36	Screw Terminals	C-6	2.75	130	19700			5	5	3000	1000	Pin Spot. Filament Shield	20	42
	12	14554 25PAR36/NSP		12	PAR36	Screw Terminals	C-6	2.75	150	2600			9	9		2000	Narrow Spot-Filament Shield	20	42
		14556 25 PAR36 VWFL		12	PAR36	Screw Terminals	C-6	2.75	150	160			55	55		2000	Very Wide Flood. Filament Shield	20	42
		14555 25PAR 36WFL		12	PAR36	Screw Terminals	C-6	2.75	150	360	49	41	37	26		2000	Wide Flood-Filament Shield	20	42
30	6.2	24678 4516		12	PAR36	Screw Terminals	C-6	2.75	45000		9	4				300	Spotlamp	20	42
	6.4	24673 4515		12	PAR36	Screw Terminals	C-6	2.75	55000		5	5				100	Spotlamp		42
		15133 H4515		12	PAR36	Screw Terminals	C-6	2.75	67000		5.5	4				100	Spotlamp, Shielded Bulb	77	42
	12.8	24425 4405		12	PAR36	Screw Terminals	C-6	2.75	50000		6	5				100	Spotlight		42
		22983 4416		12	PAR36	Screw Terminals	C-6	2.75	35000		11	4				300	Spotlamp, Signal		42
		34901 4416-1 Bulk		60	PAR36	Slip-on Terminals	C-6	2.75	35000		11	4				300	Spotlamp, Signal		
		15129 H4405		12	PAR36	Screw Terminals	C-6	2.75	66000		7	4				100	Spotlamp, Shielded Bulb	77	42
35	12	19877 35PAR36/H/FL30		12	PAR36	Screw Terminals	C-6	2.75	250	900			30	30	3050	4000	Floodlight	148	42
		19873 35PAR36/H/SP5		12	PAR36	Screw Terminals	C-6	2.75	250	25000			5	5	3050	4000	Spotlight	148	42
		19876 35PAR36/H/SP8		12	PAR36	Screw Terminals	C-6	2.75	250	8000			8	8	3050	4000	Spotlight	148	42
		42072 35PAR36/H/VWFL		12	PAR36	Screw Terminals	C-6	2.75	400				55	55	3050	4000	Very Wide Flood	148	42
37.5	12.8	42838 H7616		12	PAR36	Screw Terminals	C-6	2.75	70000		7	4				300	Halogen Spotlamp	77	42

General Directional Lighting SECTION 3

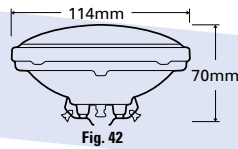


Fig. 42

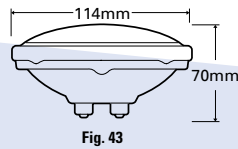


Fig. 43

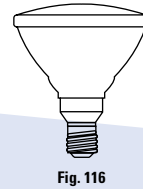


Fig. 116

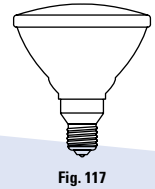
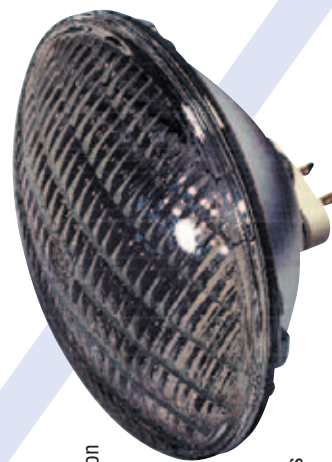
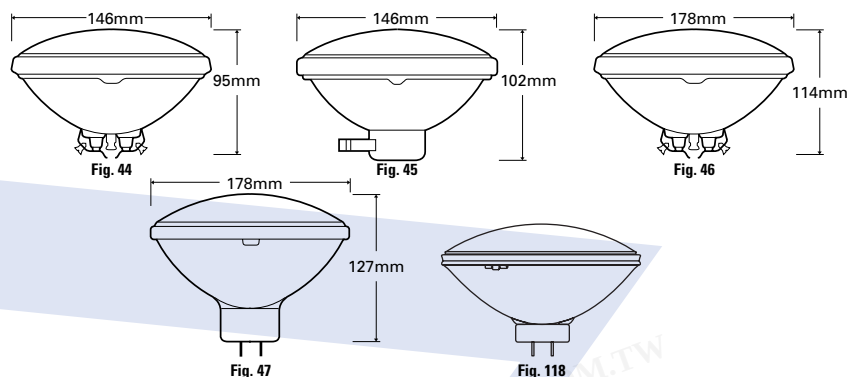


Fig. 117

Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	Initial Lumens	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	Life (hrs)	Application	Footnotes	Figure Number
PAR36 (Continued)																			
50	12	19880	50PAR36/H/FL30	12	PAR36	Screw Terminals	C-6	2.75	400	1300			30	30	3050	4000	Floodlight	148	42
		19878	50PAR36/H/SP5	12	PAR36	Screw Terminals	C-6	2.75	400	39000			5	5	3050	4000	Spotlight	148	42
		19879	50PAR36/H/SP8	12	PAR36	Screw Terminals	C-6	2.75	400	10000			8	8	3050	4000	Spotlight	148	42
		16540	50PAR36/NSP	12	PAR36	Screw Terminals	C-6	2.75	330	11000			10	10		2000	Narrow Spot, Filament Shield	20	42
		12892	50PAR36VNSP	12	PAR36	Screw Terminals	C-6	2.75	330	19000			6	6		2000	Very Narrow Spot, Filament Shield	20	42
		16542	50 PAR 36 VWFL	12	PAR36	Screw Terminals	C-6	2.75	330	600			55	55		2000	Very Wide Flood. Filament Shield	20	42
		16541	50 PAR 36 WFL	12	PAR36	Screw Terminals	C-6	2.75	330	900	48	41	36	28		2000	Wide Flood, Filament Shield	20	42
		11468	50PAR36WFL/4	12	PAR36	Screw Terminals	C-6	2.75	300	720	48	41	36	28		4000	Wide Flood, Filament Shield	20	42
12.8		43576	H7604	12	PAR36	Screw Terminals	C-6	2.75		100000	7	5				100	Halogen Spotlight	77	42
12.8		49731	H7614	12	PAR36	Screw Terminals	C-6	2.75		2000	70	30				100	Halogen Flood		42
100	13.0	39906	4700	12	PAR36	3 Screw Terminals	C-6	2.75		100M	12	7				25	Spot/Flood. 2 Beams		
100	13.0									50M	17	18				25			
650	120	41667	DWE-Q650PAR36/1	12	PAR36	Screw Terminals		2.75	24000				40	30	3200	100		63	42
		41668	FAY-Q650PAR36/3D	12	PAR36	Ferrule	C-7A	2.75	36000				25	15	5000	30		63	43
		41669	FBE-Q650PAR36/5D	12	PAR36	Screw Terminals	C-7A	2.75	36000				25	15	5000	30		63	42
		41671	FBO-Q650PAR36/5	12	PAR36	Screw Terminals	C-7A	2.75	67000				25	15	3400	30		63	42
		41672	FCW-Q650PAR36/6	12	PAR36	Ferrule	C-7A	2.75	9000				60	55	3200	100		63	43
		41673	FCX-Q650PAR36/7	12	PAR36	Ferrule	C-7A	2.75	24000				40	30	3200	100		63	43
PAR38																			
80	220	18178	80PAR/FL/27	12	PAR38	Skirted (E27)	CC-6	5.5	750	1500			35	35	2650	2000	Clear Flood	173, 178, 179	116
	240	18179	80PAR/FL/27	12	PAR38	Skirted (E27)	CC-6	5.5	750	1500			35	35	2650	2000	Clear Flood	173, 178, 179	116
		26347	80PAR/FL/BG/27	12	PAR38	Skirted (E27)	CC-6	5.5					35	35		2000	Yellow Flood	173, 178, 179	116
100	220	38854	100PAR/FL/27	12	PAR38	Skirted (E27)	CC-6	5.5	800	1500			35	35	2600	2000	Clear Flood	173, 178, 179	116
		40029	100PAR/FL/G/27	12	PAR38	Skirted (E27)	CC-6	5.5					35	35		2000	Green Flood	173, 178, 179	116
		40030	100PAR/FL/R/27	12	PAR38	Skirted (E27)	CC-6	5.5					35	35		2000	Red Flood	173, 178, 179	116
		40031	100PAR/FL/Y/27	12	PAR38	Skirted (E27)	CC-6	5.5					35	35		2000	Yellow Flood	173, 178, 179	116
120	220	18172	120PAR/FL/27	12	PAR38	Skirted (E27)	CC-6	5.5	1150	2300			35	35	2675	2000	Clear Flood	173, 178, 179	116
		18175	120PAR/SP/27	12	PAR38	Skirted (E27)	CC-6	5.5	1150	5500			20	20	2675	2000	Clear Spot	173, 178, 179	116
	240	18173	120PAR/FL/27	12	PAR38	Skirted (E27)	CC-6	5.5	1050	2300			35	35	2675	2000	Clear Flood	173, 178, 179	116
150	120	19464	150PAR/FL/A	12	PAR38	Med Skirt	CC-6	5.31								2000	Flood. Dichro Amber	173, 178, 179	117
		19465	150PAR/FL/B	12	PAR38	Med Skirt	CC-6	5.31								2000	Flood. Dichro Blue	173, 178, 179	117
		19467	150PAR/FL/G	12	PAR38	Med Skirt	CC-6	5.31								2000	Flood. Dichro Green	173, 178, 179	117
		19468	150PAR/FL/R	12	PAR38	Med Skirt	CC-6	5.31								2000	Flood. Dichro Red	173, 178, 179	117
	220	40033	150PAR/FL/27	12	PAR38	Skirted (E27)	CC-6	5.5	1350	2450			35	35	2650	2000	Clear Flood	173, 178, 179	116
	240	40035	150PAR/FL/27	12	PAR38	Skirted (E27)	CC-6	5.5	1350	2450			35	35	2650	2000	Clear Flood	173, 178, 179	116
		40034	150PAR/SP/27	12	PAR38	Skirted (E27)	CC-6	5.5								2000	Spotlight	173, 178, 179	116
250	120	23718	Q250PAR/FL30	12	PAR38	Med Skirt	CC-8	5.31	3600	9000					2880	4200	Floodlight	149	117
		23719	Q250PAR/SP10	12	PAR38	Med Skirt	CC-8	5.31	3600	40000					2880	4200	Spotlight	149	117



Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	Initial Lumens	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	Life (hrs)	Application	Footnotes	Figure Number
PAR46																			
25	6	14562 25PAR46	12 PAR46 Screw Terminals			C-6	3.75	140	55000		5.5	4.5				1000 Pin Spot.	Filament Shield	20	44
30	6.4	24735 4535	12 PAR46 Screw Terminals			C-6	3.75		95000		5.5	4				100 Spotlamp			44
	12.8	24577 4435	12 PAR46 Screw Terminals			C-6	3.75		75000		5	5				100 Spotlamp			44
50	12.8	43591 H7635	12 PAR46 Screw Terminals			C-6	3.75		160000		6.5	4				100 Halogen Spotlamp		77	44
		18022 H7635X Bulk	24 PAR46 Screw Terminals			C-6	3.75		160000		6.5	4				100 Halogen Spotlamp		77	44
80	13	17894 H7680HIR	12 PAR46 Screw Terminals			C-8	3.75		275000		6.5	6.5				100 Infrared Spotlamp		71	44
		26694 H7680X HIR	12 PAR46 Screw Terminals			C-8	3.75		230000		6.5	6.5				300 Infrared-Spotlamp		71	44
																Long Life			
100	13	40822 4537-2	12 PAR46 Screw Terminals			C-6	3.13		200000		11	6				25 Spotlamp			44
150	125	41968 150PAR46/3MFL	12 PAR46 Med Sid Pr			CC-13	4	1500	8000		39	25	26	13	2750	2000 Medium Flood		20, 23, 24	45
200	120	20138 200PAR46/3MFL12P	12 PAR46 Med Sid Pr			CC-13	4	2270	11500		40	24	27	13	2750	2000 Medium Flood		20, 23, 24	45
		20115 200PAR46/3NSP	12 PAR46 Med Sid Pr			CC-13	4	2270	31000		23	19	12	8	2750	2000 Narrow Spot		20, 23, 24	45
130		20140 200PAR46/3MFL	12 PAR46 Med Sid Pr			CC-13	4	2270	11500		40	24	27	13	2750	2000 Medium Flood		20, 23, 24	45
		20117 200PAR46/3NSP	12 PAR46 Med Sid Pr			CC-13	4	2270	31000		23	19	12	8	2750	2000 Narrow Spot		20, 23, 24	45
PAR56																			
120	12	19024 120 PAR56 MFL	12 PAR56 Screw Terminals			C-6	4.5	1050	19000		29	15	18	9	2750	2000 Medium Flood		20, 23, 24	46
		19023 120 PAR 56 VN5P	12 PAR56 Screw Terminals			C-6	4.5	1050	60000		15	10	8	6	2750	2000 Very Narrow Spot		20, 23, 24	46
		19025 120 PAR56 WFL	12 PAR56 Screw Terminals			C-6	4.5	1050	5625		50	25	35	18	2750	2000 Wide Flood		20, 23, 24	46
200	120	49889 200PAR56/MFL	12 PAR56 Mog End Pr			CC-13	5	2270	15000		34	22	22	13	2750	2000 Medium Flood		20, 23, 24	118
240	12	20576 240 PAR56 MFL	12 PAR56 Screw Terminals			C-6	4.5		46000		28	15	19	8	2800	2000 Medium Flood		20, 23, 24	46
		20575 240 PAR 56 VN5P	12 PAR56 Screw Terminals			C-6	4.5		140000		17	10	9	6	2800	2000 Very Narrow Spot		20, 23, 24	46
		20577 240 PAR56 WFL	12 PAR56 Screw Terminals			C-6	4.5		13000		50	27	35	18	2800	2000 Wide Flood		20, 23, 24	46
300	120	20836 300PAR56/MFL	12 PAR56 Mog End Pr			CC-13	5	3840	24000		34	19	23	11	2750	2000 Medium Flood		20, 23, 24	118
		20803 300PAR56/NSP	12 PAR56 Mog End Pr			CC-13	5	3840	68000		20	14	10	8	2750	2000 Narrow Spot		20, 23, 24	118
		20849 300PAR56/WFL	12 PAR56 Mog End Pr			CC-13	5	3840	11000		57	27	37	18	2750	2000 Wide Flood		20, 23, 24	118
130		20838 300PAR56/MFL	12 PAR56 Mog End Pr			CC-13	5	3840	24000		34	19	23	11	2750	2000 Medium Flood		20, 23, 24	118
		20851 300PAR56/WFL	12 PAR56 Mog End Pr			CC-13	5	3840	11000		57	27	37	18	2750	2000 Wide Flood		20, 23, 24	118
230		20852 300PAR56/MFL	12 PAR56 GX16DEXT			CC-13	5	3450								2000 Medium Flood		20, 23, 24	47
		20853 300PAR56/NSP	12 PAR56 GX16DEXT			CC-13	5	3450								2000 Narrow Spot		20, 23, 24	47
		20854 300PAR56/WFL	12 PAR56 GX16DEXT			CC-13	5	3450								2000 Wide Flood		20, 23, 24	47
240		18677 300PAR56/MFL	12 PAR56 GX16DEXT			CC-13	5	3450								2000 Medium Flood		20, 23, 24	47
		18676 300PAR56/NSP	12 PAR56 GX16DEXT			CC-13	5	3450								2000 Narrow Spot		20, 23, 24	47
		18678 300PAR56/WFL	12 PAR56 GX16DEXT			CC-13	5	3450								2000 Wide Flood		20, 23, 24	47
500	120	43495 Q500PAR56MFL	6 PAR56 Mog End Pr			CC-6	5	8000	43000		42	20	26	10	2950	4000 Medium Flood		150	118
		43494 Q500PAR56NSP	6 PAR56 Mog End Pr			CC-6	5	8000	96000		32	15	13	8	2950	4000 Narrow Spot		150	118
		43496 Q500PAR56WFL	6 PAR56 Mog End Pr			CC-6	5	8000	19000		66	34	44	20	2950	4000 Wide Flood		150	118

General Directional Lighting

SECTION 3

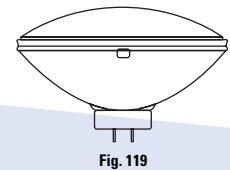
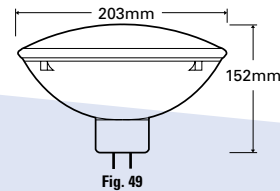


Fig. 49

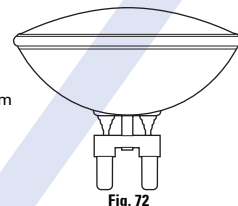
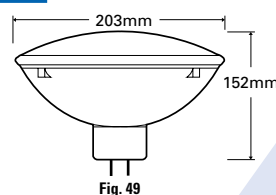
Fig. 119

Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	Initial Lumens	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	Life (hrs)	Application	Footnotes	Figure Number
PAR64 – Incandescent and Halogen																			
500	120	39409	500PAR64/MFL	12	PAR64	ExMogEndPr	CC-13	6	6500	37000	35	19	23	11	2800	2000	Medium Flood	20, 23, 24	49
		39406	500PAR64/NSP	12	PAR64	ExMogEndPr	CC-13	6	6500	110000	19	14	12	7	2800	2000	Narrow Spot	20, 23, 24	49
		39412	500PAR64/WFL	12	PAR64	ExMogEndPr	CC-13	6	6500	13000	55	32	42	20	2800	2000	Wide Flood	20, 23, 24	49
	230	39411	500PAR64/MFL	12	PAR64	MogEndPr	CC-13	6	5500		32	19	21	10	2700	2000	Medium Flood	20, 23, 24	119
		39414	500PAR64/WFL	12	PAR64	MogEndPr	CC-13	6	5500		55	32	42	20	2700	2000	Wide Flood	20, 23, 24	119
		30287	Q500PAR64/MFL	6	PAR64	ExMogEndPr			65000		32	19	21	10	3200	300	CP88-MFL	63	49
	240	30283	Q500PAR64/NSP	6	PAR64	ExMogEndPr			140000		19	16	11	9	3200	300	CP87-MSP	63	49
		30280	Q500PAR64/VNSP	6	PAR64	ExMogEndPr			240000		16	13	10	7	3200	300	CP86-VNSP	63	49
		30288	Q500PAR64/MFL	6	PAR64	ExMogEndPr			65000		32	19	21	10	3200	300	CP88-MFL	63	49
		30286	Q500PAR64/NSP	6	PAR64	ExMogEndPr			140000		19	16	11	9	3200	300	CP87-MSP	63	49
1000	120	30282	Q500PAR64/VNSP	6	PAR64	ExMogEndPr			240000		16	13	10	7	3200	300	CP86-VNSP	63	49
		13233	FFN-Q1000PAR64/1	6	PAR64	ExMogEndPr	C-7A	6	400000		24	10	12	6	3200	800	Stage/Studio	63	49
		13229	FFP-Q1000PAR64/2	6	PAR64	ExMogEndPr	C-7A	6	330000		26	14	14	7	3200	800	Stage/Studio	63	49
	230	13228	FFR-Q1000PAR64/5	6	PAR64	ExMogEndPr	C-7A	6	125000		44	21	28	12	3200	800	Stage/Studio	63	49
		13227	FFS-Q1000PAR64/6	6	PAR64	ExMogEndPr	C-7A	6	40000		71	45	48	24	3200	800	Stage/Studio	63	49
		13226	FGM-Q1000PAR64/3	6	PAR64	ExMogEndPr	C-7A	6	200000		24	12	13	6	5200	200	Stage/Studio	63	49
	240	13225	FGN-Q1000	6	PAR64	ExMogEndPr	C-7A	6	70000		43	20	27	11	5200	200	Stage/Studio	63	49
		PAR647D																	
		43498	Q1000PAR64MFL	6	PAR64	ExMogEndPr	CC-6	6	19400	80000	45	22	28	12	3000	4000	Medium Flood	150	49
		43497	Q1000PAR64NSP	6	PAR64	ExMogEndPr	CC-6	6	19400	200000	31	14	15	8	3000	4000	Narrow Spot	150	49
230	120	43499	Q1000PAR64/WFL	6	PAR64	ExMogEndPr	CC-6	6	19400	33000	72	45	48	24	3000	4000	Wide Flood	150	49
		30277	CP95	6	PAR64	ExMogEndPr			15000		125	95	70	70	3200	300	Stage/Studio	63	49
		93409	EXC-Q1MPAR64 CP60 SUPER	6	PAR64	ExMogEndPr	C-7A	6	352000		20	17	12	9	3200	300	Stage/Studio	63	49
	240	10928	EXD-Q1MPAR64 CP61 SUPER	6	PAR64	ExMogEndPr	C-7A	6	297000		22	20	14	10	3200	300	Stage/Studio	63	49
		10930	EXE-Q1MPAR64 CP62 SUPER	6	PAR64	ExMogEndPr	C-7A	6	138000		38	20	24	11	3200	300	Stage/Studio	63	49
		35482	EXG/PAR64/WFL230V	6	PAR64	ExMogEndPr	C-7A	6	38000		73	36	57	21	3200	300	Wide Flood	63	49
	240	30278	CP95	6	PAR64	ExMogEndPr			15000		125	95	70	70	3200	300	Stage/Studio	63	49
		10925	EXC-Q1MPAR64 CP60 SUPER	6	PAR64	ExMogEndPr	C-7A	6	352000		20	17	12	9	3200	300	Stage/Studio	63	49
		10929	EXD-Q1MPAR64 CP61 SUPER	6	PAR64	ExMogEndPr	C-7A	6	297000		22	20	14	10	3200	300	Stage/Studio	63	49
		10931	EXE-Q1MPAR64 CP62 SUPER	6	PAR64	ExMogEndPr	C-7A	6	138000		38	20	24	11	3200	300	Stage/Studio	63	49
1200	120	35483	EXG/PAR64/WFL240V	6	PAR64	ExMogEndPr	C-7A	6	38000		73	36	57	21	3200	300	Wide Flood	63	49
		34812	GFA-Q1200 PAR64/5	6	PAR64	ExMogEndPr	C-7A	6	160000		22	36	13	24	3200	400	Stage/Studio	63	49
		34810	GFB-Q1200 PAR64/2	6	PAR64	ExMogEndPr	C-7A	6	450000		16	18	8	10	3200	400	Stage/Studio	63	49
		34808	GFC-Q1200 PAR64/1	6	PAR64	ExMogEndPr	C-7A	6	540000		14	16	8	10	3200	400	Stage/Studio	63	49

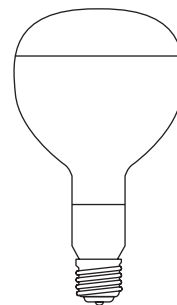
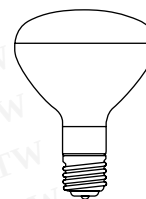
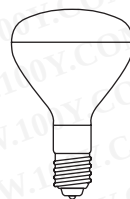
PAR64 - Discharge

FEATURES

- ConstantColor® CMH® Metal Halide (Warm), Multi-Vapor (SPL) and Compact Iodide Daylight color temperatures
- Excellent color rendition with CRI 80-90+
- CMH/CID operates on standard metal halide ballasts with 10-20% more output
- Over 1 million candela maximum beams available



Watts Volts or ANSI Ballast	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	Initial Lumens	MBCP	10% Spread H	10% Spread V	50% Spread H	50% Spread V	Color Temp.	CRI Index	Life (hrs)	Application	Footnotes	Figure Number
PAR64 – Discharge																			
150 M81, 102	16959	CMH150/PAR64/830/GX16d/MFL	6	PAR64	GX16d			47000		34	26	22	14	3000	80+	8000	Medium Flood	14, 18, 63	49
	16958	CMH150/PAR64/830/GX16d/SP	6	PAR64	GX16d			154000		18	18	9	9	3000	80+	8000	Narrow Spot	14, 18, 63	49
	16960	CMH150/PAR64/830/GX16d/WFL	6	PAR64	GX16d			16000		62	36	46	23	3000	80+	8000	Wide Flood	14, 18, 63	49
	16962	CMH150/PAR64/842/GX16d/MFL	6	PAR64	GX16d			47000		34	26	22	14	4200	90+	8000	Medium Flood	14, 18, 63	49
	16961	CMH150/PAR64/842/GX16d/SP	6	PAR64	GX16d			154000		18	18	9	9	4200	90+	8000	Narrow Spot	14, 18, 63	49
	16963	CMH150/PAR64/842/GX16d/WFL	6	PAR64	GX16d			16000		62	36	46	23	4200	90+	8000	Wide Flood	14, 18, 63	49
1000 77	30360	99-1225CID		PAR64	G38		6.87	850000				20	20	5500	85	1500		14, 23, 63	72
	30371	99-1425CID/HR		PAR64	G38		6.87	850000				20	20	5500	85	1000	Hot Restrike	14, 23, 63	72
	29333	SPL1000/PAR64/840	1	PAR64	G38		6.87	1350000				6	6	4000	80	3500	Narrow Spot	14, 19, 63	72
	29336	SPL1000/PAR64/HR	1	PAR64	G38		6.87	1350000				6	6	4000	80	3500	Narrow Spot, Hot restrike	14, 19, 63	72
1200 100	30372	99-1435CID/HR		PAR64	G38		6.87	820000				18	18	5500	85	1000	Hot Restrike	14, 24, 63	72



Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	Initial Lumens	MBCP	Life (hrs)	Application	Footnotes	Figure Number
R40														
300	120	21213	300R/FL	24	R40	Med	CC-2V	6.56	3700	2500	2000	Reflector Flood-I.F. Burn H only	26, 30	120
300	130	21215	300R/FL	24	R40	Med	CC-2V	6.56	3465	2500	2000	Reflector Flood-I.F. Burn H only	26, 30	120
266	120								2670		5400			
300	120	21229	300R/FL/1	24	R40	Med	CC-2V	6.75	3700	1900	2000	Reflector Flood-I.F., HRG	20, 26, 60	120
		21254	300R/3FL	24	R40	Mog	CC-2V	7.25	3750		2000	Reflector Flood-I.F.	20, 26, 30, 33, 60	121
	130	21256	300R/3FL	24	R40	Mog	CC-2V	7.25	3750		2000	Reflector Flood-I.F.	20, 26, 30, 33, 60	121
	250	21263	300R/3FL	24	R40	Mog	C-7A	7.25	3300		2000	Reflector Flood-I.F.	20, 26, 30, 33, 60	121
500	120	21734	500R/3FL	24	R40	Mog	CC-2V	7.25	6500		2000	Reflector Flood-I.F. BB, HRG	20, 26, 30, 33, 60	121
	130	21736	500R/3FL	24	R40	Mog	CC-2V	7.25	6500		2000	Reflector Flood-I.F. BB, HRG	20, 26, 30, 33, 60	121
R52														
500	130	21761	500R52	12	R52	Mog	C-7A	11.75	7600		2000	Reflector High Bay- Light I.F.	26, 30, 35, 60	122



Cold Temperature

FEATURES

- Available in T8, T10, and T12 versions
- Available in improved color vs standard WW and CW with SP and superior SPX versions
- Warm SP30/SPX30 to cooler SP35/SPX35 outdoor lighting (AT)
- Available in Starcoat®/Polylux technology, for improved output, lumen maintenance and superior color rendering (CRI)
- For severe or continued low temperatures (down to -20°F or -29°C) and/or high wind velocities use T10 or T10J (Jacketed) lamps for better light output than T12 or T12J
- See Section 1 for Cinema Fluorescent, Section 6 for CovRguard®, and Section 7 for Germicidal

APPLICATIONS

- Freezers
- Coolers
- Outdoor Lighting (AT)



Fig. 123



Fig. 124



Fig. 125

Bulb	Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Cold Temperature – T8 PolyLux															
T8	58	60	35444	F58W/T8/835PLYLX	25	Medium Bipin (G13)	5400	3500	85	15000	Starcoat®			171	123
			35445	F58W/T8/840PLYLX	25	Medium Bipin (G13)	5400	4000	85	15000	Starcoat®			171	123
	70	72	35579	F70W/T8/835PLYLX	25	Medium Bipin (G13)	6550	3500	85	15000	Starcoat®			171	123
			35580	F70W/T8/840PLYLX	25	Medium Bipin (G13)	6550	4000	85	15000	Starcoat®			171	123
Cold Temperature – Instant Start															
T12	75	96	47350	F96T12/CW-CT	15	Single Pin (Fa8)	5960	5490	4100	60	12000	Plastic jacket		45, 47, 53, 171	124
Cold Temperature – Freezer															
T8	58	60	16148	F58T8/835/ARCTIC	24	Medium Bipin (G13)	5800	3500	85	18000	Plastic jacket			171	123
			23752	F58T8/841/ARCTIC	24	Medium Bipin (G13)	5800	4100	85	18000	Plastic jacket			171	123
	70	72	16149	F70T8/835/ARCTIC	18	Medium Bipin (G13)	6300	3500	85	18000	Plastic jacket			171	123
			23754	F70T8/841/ARCTIC	18	Medium Bipin (G13)	6300	4100	85	18000	Plastic jacket			171	123
Cold Temperature – High Output (800mA) Recessed Double Contact – Plastic Jacketed															
T12	35	24	48097	F24T12/CW/HO-CT	12	R17d	1570	1300	4100	60	9000	Cold Temperatures		45, 47, 53, 171	125
	60	48	45976	F48T12/CW/HO-AT	12	R17d	3710	3220	4100	60	12000	All Temperatures. Jacket vent holes		40, 45, 47, 171	125
			48530	F48T12/SP35/HO-AT	12	R17d	4120	3710	3500	73	12000	All Temperatures. Jacket vent holes		40, 45, 47, 171	125
			47352	F48T12/SPX30/HO-CT	24	R17d	4210	3800	3000	82	12000	Cold Temperatures		45, 47, 53, 171	125
	75	60	47353	F60T12/CW/HO-CT	12	R17d	4990	4340	4100	60	12000	Cold Temperatures		45, 47, 53, 171	125
	85	72	46199	F72T12/CW/HO-AT	8	R17d	6150	5350	4100	60	12000	All Temperatures. Jacket vent holes		40, 45, 47, 171	125
			47346	F72T12/SP35/HO-CT	8	R17d	6450	5810	3500	73	12000	Cold Temperatures		45, 47, 53, 171	125
			46201	F72T12/SP41/HO-CT	8	R17d	6450	5810	4100	72	12000	Cold Temperatures		45, 47, 53, 171	125
			48095	F72T12/SPX35/HO-CT	8	R17d	6590	5930	3500	82	12000	Cold Temperatures		45, 47, 53, 171	125

Specialty Fluorescent SECTION 4



Fig. 125



Fig. 126

Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Cold Temperature – High Output (800mA) Recessed Double Contact – Plastic Jacketed (Continued)														
T12 110 96		45912	F96T12/CW/HO-AT	8	R17d	8630	7500	4100	60	12000		All Temperatures. Jacket vent holes	40, 45, 47, 171	125
		11918	F96T12/CW/HO/CT	15	R17d	8900	7740	4100	60	12000		Cold Temperatures	45, 47, 53, 171	125
		11919	F96T12/D/HO/CT	15	R17d	7600	6610	6500	75	12000		Cold Temperatures	45, 47, 53, 171	125
		45979	F96T12/SP35/HO-CT	8	R17d	8920	8030	3500	73	12000		Cold Temperatures	45, 47, 53, 171	125
		48096	F96T12/SPX35/HO-CT	8	R17d	9060	8160	3500	82	12000		Cold Temperatures	45, 47, 53, 171	125
Cold Temperature – Very High Output (1500mA) Recessed Double Contact														
T10 110 48		10742	F48T10/CW	24	R17d	6200		4100	60	9000		No Jacket. Best @ 10-40 deg F	39, 171	126
		46196	F48T10/CW/VHO-CT	12	R17d	6010		4100	60	9000		Plastic Jacket. Best @ sub zero	39, 49, 53, 171	126
		10743	F48T10/J/CW	12	R17d	6000		4100	60	9000		Glass Jacket. Best @ sub-zero	39, 171	126
135 60		39157	F60T10/CW	24	R17d	7000		4100	60	6000		No Jacket. Best @ 10-40 deg F	39, 171	126
		13002	F60T10/CW 6PK	6	R17d	7000		4100	60	6000		No Jacket. Best @ 10-40 deg F	39, 171	126
		46197	F60T10/CW/VHO-CT	12	R17d	6790		4100	60	6000		Plastic Jacket. Best @ sub zero	39, 49, 53, 171	126
		40441	F60T10/J/CW	12	R17d	8000		4100	60	6000		Glass Jacket. Best @ sub-zero	39, 171	126
		17135	F60T10/SP30	24	R17d	8500		3000	70	6000		No Jacket. Best @ 10-40 deg F	39, 171	126
160 72		13776	F72T10/CW 15PK	15	R17d	9700		4100	60	9000		No Jacket. Best @ 10-40 deg F	39, 171	126
		46198	F72T10/CW/VHO-CT	8	R17d	9400		4100	60	9000		Plastic Jacket. Best @ sub zero	39, 49, 53, 171	126
		10858	F72T10/J/CW	8	R17d	9600		4100	60	9000		Glass Jacket. Best @ sub-zero	39, 171	126
T12 110 48		34206	F48T12/CW/1500/0	24	R17d	7000		4100	60	10000		No Jacket. Best at 15-45 deg F	39, 171	125
		46195	F48T12/CW/VHO-CT	12	R17d	6790		4100	60	10000		Plastic Jacket. Best @ sub zero	39, 49, 53, 171	125
		41606	F48T12/J/CW1500/0	12	R17d	6800		4100	60	10000		Glass Jacket. Best @ -20 to 20 deg F	39, 171	125
170 72		13762	F72T12/CW/1500/0	15	R17d	10800		4100	60	10000		No Jacket. Best at 15-45 deg F	39, 171	125
		46200	F72T12/CW/VHO-CT	8	R17d	10470		4100	60	10000		Plastic Jacket. Best @ sub zero	39, 49, 53, 171	125
		41612	F72T12/J/CW1500/0	8	R17d	10500		4100	60	10000		Glass Jacket. Best @ -20 to 20 deg F	39, 171	125
220 96		13788	F96T12/CW/1500/0	15	R17d	14400		4100	60	10000		No Jacket. Best at 15-45 deg F	39, 171	125
		46202	F96T12/CW/VHO-CT	8	R17d	13960		4100	60	10000		Plastic Jacket. Best @ sub zero	39, 49, 53, 171	125
		41613	F96T12/J/CW1500/0	8	R17d	14000		4100	60	10000		Glass Jacket. Best @ -20 to 20 deg F	39, 171	125

Appliance

FEATURES

- Designed for intermittent burning service in appliances, ovens and dryers
- Rated at 3 hours per start; life and watts depend on the ballast

APPLICATIONS

- Ovens
- Washer/Dryers
- Exhaust Fans

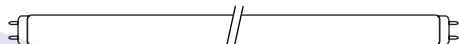


Fig. 123



Fig. 127

Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Appliance														
T8 19 26		10702 F26" T8/CW/4"	24 Medium BiPin (G13)			1275	1085	4100	60	7500	Cool White		171	123
		38199 F26" T8/CW/4 6PK	24 Medium BiPin (G13)			1275	1085	4100	60	7500	Cool White		171	123
28		17704 F28" T8/CW/4 6PK	24 Medium BiPin (G13)			1350	1145	4100	60	7500	Cool White		171	123
30		10349 F30" T8/CW/4"	24 Medium BiPin (G13)			1375	1170	4100	60	7500	Cool White		171	123
T12 21 30		10355 F30" T12/CW	24 Medium BiPin (G13)			1350	1220	4100	60	7500	Cool White		171	127
25 28		10282 F25T12CW/28 6PK	24 Medium BiPin (G13)			1550	1390	4100	60	7500	Cool White		171	127
		10286 F25T12/D/28	24 Medium BiPin (G13)			1450	1310	6500	75	7500	Daylight		171	127
33		38201 F25T12/CW/33 6PK	24 Medium BiPin (G13)			1860	1675	4100	60	7500	Cool White		171	127
		10299 F25T12/D/33	24 Medium BiPin (G13)			1600	1440	6500	75	7500	Daylight		171	127
		10293 F25T12/WW/33	24 Medium BiPin (G13)			1910	1720	3000	52	7500	Warm White		171	127

Blacklight/Blacklight Blue

FEATURES

- Blacklight (BL) lamps are commonly used in "bug zappers"
- Blacklight Blue (BLB) lamps are often used decoratively in entertainment lighting and theatrical applications
- These lamps are made with a special dark blue glass that filters most visible light

APPLICATIONS

- Detection (Food, Minerals)
- Inspection (Flaws, Leaks)
- Identification (Marker Powder/Ink)
- Reprographics
- Insect Traps
- Display and Entertainment



Fig. 123



Fig. 127



Fig. 291

Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Blacklight (350nm)														
T8 15 18		35884 F15T8/BL 6PK	24 Medium BiPin (G13)							7500			42, 175	123
		16941 F15WBL 350	25 Medium BiPin (G13)							7500			42, 175	123
		35884 F15WBL 365	6 Medium BiPin (G13)							7500			42, 175	123
T12 20 24		10244 F20T12/BL 6PK	24 Medium BiPin (G13)							9000			42, 175	127
40 22.5		40537 F40BL/U/3	12 Medium BiPin (G13)							14000			42, 175	291
48		10526 F40BL 6PK	24 Medium BiPin (G13)							20000			42, 175	127

Specialty Fluorescent

SECTION 4

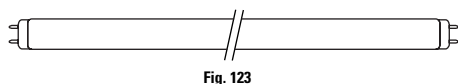


Fig. 123

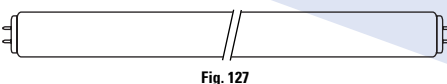


Fig. 127



Fig. 128

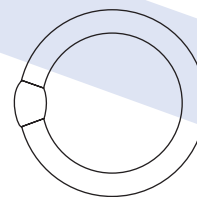


Fig. 129

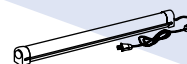


Fig. 130

Bulb	Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Blacklight Blue (Integral Dark Blue Filter)															
T5	4	6	10019 F4T5/BLB	24 Miniature BiPin (G5)							5000		Integral Dark Blue Filter	171	128
			39882 F4W/BLB	25 Miniature BiPin (G5)							5000		Integral Dark Blue Filter	171	128
	6	9	39883 F6W/BLB	25 Miniature BiPin (G5)							5000		Integral Dark Blue Filter	171	128
	8	12	10077 F8T5/BLB	24 Miniature BiPin (G5)							5000		Integral Dark Blue Filter	171	128
			39884 F8W/BLB	25 Miniature BiPin (G5)							5000		Integral Dark Blue Filter	171	128
T8	15	18	10172 F15T8/BLB	24 Medium BiPin (G13)							7500		Integral Dark Blue Filter	171	123
			35885 F15T8/BLB 6PK	24 Medium BiPin (G13)							7500		Integral Dark Blue Filter	171	123
T9	22	8.25	25665 FC8T9/BLB	6 4 Pin (G10q)							12000		Integral Dark Blue Filter. Circlite®	171	129
T12	20	24	34747 F20T12/BLB 6PK	24 Medium BiPin (G13)							9000		Integral Dark Blue Filter	171	127
			34747 F20W/BLB	6 Medium BiPin (G13)							9000		Integral Dark Blue Filter	171	127
	40	48	10531 F40BLB 6PK	24 Medium BiPin (G13)							20000		Integral Dark Blue Filter	171	127
			25618 F40W/BLB	6 Medium BiPin (G13)							20000		Integral Dark Blue Filter	171	127
	33	25	47912 FBS25/BLB/PP	6 Std Wall Plug							7500		Integral Dark Blue Filter. Bright Stik®		130

Colored Lamps

FEATURES

- Available in a variety of colors
- Most with covGuard® (CVG) protection
- Sleeve color matched to Rosco filters (i.e. Rosco Blue 65) except those using phosphor as noted

APPLICATIONS

- Decorative
- Architectural Lighting

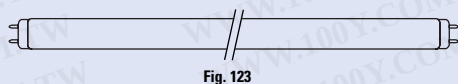


Fig. 123

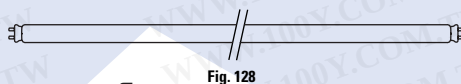


Fig. 128

Bulb	Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Colored Lamps															
T5	8	12	46720 F8T5/AMBER2/CVG	24 Miniature BiPin (G5)							5000		Amber. Preheat	173	128
			46714 F8T5/BLUE65/CVG	24 Miniature BiPin (G5)							5000		Blue. Preheat.	173	128
			46728 F8T5/GREEN89/CVG	24 Miniature BiPin (G5)							5000		Green. Preheat	173	128
			46717 F8T5/PINK34/CVG	24 Miniature BiPin (G5)							5000		Pink. Preheat.	173	128
			46723 F8T5/YELLOW14/CVG	24 Miniature BiPin (G5)							5000		Yellow. Preheat	173	128
T8	15	18	46721 F15T8/AMBER2/CVG	24 Medium BiPin (G13)							7500		Amber. Preheat	173	123
			46715 F15T8/BLUE65/CVG	24 Medium BiPin (G13)							7500		Blue. Preheat.	173	123
			46729 F15T8/GREEN89/CVG	24 Medium BiPin (G13)							7500		Green. Preheat	173	123
			46718 F15T8/PINK34/CVG	24 Medium BiPin (G13)							7500		Pink. Preheat.	173	123
			46725 F15T8/YELLOW14/CVG	24 Medium BiPin (G13)							7500		Yellow. Preheat	173	123
	17	24	48171 F17T8/A/20/CVG	24 Medium BiPin (G13)							20000		Amber	173	123
			48173 F17T8/B/80/CVG	24 Medium BiPin (G13)							20000		Blue	173	123
			48174 F17T8/G/90/CVG	24 Medium BiPin (G13)							20000		Green	173	123
			48172 F17T8/R/26/CVG	24 Medium BiPin (G13)							20000		Red	173	123



Fig. 123



Fig. 127

Fig. 123							Fig. 127								
Bulb	Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Colored Lamps (Continued)															
T8	25 36		48175	F25T8/A/20/CVG	24	Medium BiPin (G13)					20000	Amber		173	123
			48177	F25T8/B/80/CVG	24	Medium BiPin (G13)					20000	Blue		173	123
			48178	F25T8/G/90/CVG	24	Medium BiPin (G13)					20000	Green		173	123
			48176	F25T8/R/26/CVG	24	Medium BiPin (G13)					20000	Red		173	123
	32 48		48103	F32T8/B/65/CVG	36	Medium BiPin (G13)					20000	Blue		173	123
			15992	F32T8/B/65ECOCVG	36	Medium BiPin (G13)					20000	Blue. Ecolux®		173	123
			16808	F32T8/B/80/CVG	36	Medium BiPin (G13)					20000	Blue. Ecolux®		173	123
			48104	F32T8/G/89/CVG	36	Medium BiPin (G13)					20000	Green		173	123
			15993	F32T8/G/89ECOCVG	36	Medium BiPin (G13)					20000	Green. Ecolux®		173	123
			48102	F32T8/R/24/CVG	36	Medium BiPin (G13)					20000	Red		173	123
			15994	F32T8/R/24ECOCVG	36	Medium BiPin (G13)					20000	Red. Ecolux®		173	123
			T12	15 18		46722	F15T12/AMBER2/CVG	24	Medium BiPin (G13)				9000	Amber. Preheat	
	46716	F15T12/BLUE65/CVG				24	Medium BiPin (G13)				9000	Blue. Preheat.		173	127
46719	F15T12/PINK34/CVG	24				Medium BiPin (G13)				9000	Pink. Preheat.		173	127	
46726	F15T12/YELLOW14/CVG	24				Medium BiPin (G13)				9000	Yellow. Preheat		173	127	
20 24		10231		F20T12/B 6PK	24	Medium BiPin (G13)	450 330		9000	Phosphor Blue. Preheat.		171	127		
		48260	F20T12/B/65/CVG	24	Medium BiPin (G13)			9000	Blue. Preheat.		173	127			
		10233	F20T12/G 6PK	24	Medium BiPin (G13)	1575 975		9000	Phosphor Green. Preheat		171	127			
		48261	F20T12/G/89/CVG	24	Medium BiPin (G13)			9000	Green. Preheat		173	127			
		48259	F20T12/R/24/CVG	24	Medium BiPin (G13)			9000	Red. Preheat		173	127			
		40 48		10514	F40/B 6 PK	24	Medium BiPin (G13)	1200 720		20000	Phosphor Blue		171	127	
16817	F40B/CVG			30	Medium BiPin (G13)			20000	Phosphor Blue		173	127			
10517	F40/G 6 PK			24	Medium BiPin (G13)	4000 2000		20000	Phosphor Green		171	127			
48100	F40T12/B/65/CVG			30	Medium BiPin (G13)			20000	Blue		173	127			
48101	F40T12/G/89/CVG			30	Medium BiPin (G13)			20000	Green		173	127			
48099	F40T12/R/24/CVG			30	Medium BiPin (G13)			20000	Red		173	127			

Gold

FEATURES

- Effectively blocks all UV emissions below 520nm
- Available in both phosphor and covRguard® (CVG) versions
- Gold sleeved, blocks UV and deep blue emissions

APPLICATIONS

- Photo-sensitive Area
- Darkrooms
- Semi-conductor Assembly Processes



Fig. 123



Fig. 128



Fig. 158

Bulb	Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Gold															
T5	28	45.2	25768	F28T5/GO/CVG	40	Miniature BiPin (G5)	1986				20000	covRguard®		173	128
T8	17 24		25779	F17T8/GO/CVG	24	Medium BiPin (G13)	970				20000	covRguard®		173	123
	25 36		25783	F25T8/GO/CVG	24	Medium BiPin (G13)	1590				20000	covRguard®		173	123
	32 48		25784	F32T8/GO/CVG	36	Medium BiPin (G13)	2280				20000	covRguard®		173	123
	59 96		25810	F96T8/GO/CVG	24	Single Pin (Fa8)	4492				15000	covRguard®		173	158

Specialty Fluorescent

SECTION 4



Fig. 124



Fig. 125



Fig. 127

Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Gold (Continued)														
T12 40 48		25850 F40/G0/CVG		30	Medium BiPin (G13)	2510				20000	covRguard®		173	127
55 72		25852 F72T12/G0/CVG		15	Single Pin (Fa8)	4150				12000	covRguard®		173	124
75 96		25853 F96T12/G0/CVG		15	Single Pin (Fa8)	5640				12000	covRguard®		173	124
110 96		25854 F96T12/G0/H0/CVG		15	R17d	8010				12000	covRguard®		173	125

Plant and Aquarium/Terrarium

FEATURES

- In Linear T8, T12, and Biax® Compact Fluorescent
- Add brilliance and color to plants, aquariums and terrariums
- Designed for fresh water, salt water (seawater), either water, terrarium, or plant areas (wide spectrum)
- Each "system" has a different spectral distribution for plant/coral growth and appearance. See color temperature and CRI data.
- Also see Specialty Incandescent "Pet Lamps" Section 5

APPLICATIONS

- Aquarium (Home and Professional)
- Terrariums
- Pet Fish Tanks
- Plant Grow Lamps

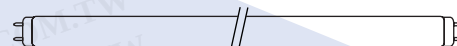


Fig. 123

Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Plant and Aquarium/Terrarium – Linear Fluorescent														
T8 14 15		41373 F14T8/AR/FR 6PK		24	Medium BiPin (G13)	360		4000	92	7500	Freshwater		174	123
		40903 F14T8/AR/FS 6PK		24	Medium BiPin (G13)	550		9325	64	7500	Fresh or Saltwater		174	123
		41375 F14T8/AR/SA 6PK		24	Medium BiPin (G13)	190		10000	62	7500	Saltwater		174	123
		16964 F14T8 F&SA		10	Medium BiPin (G13)	550		9325	67	7500	Fresh & Salt Aqua		174	123
		16974 F14T8 FA		10	Medium BiPin (G13)	360		4400	77	7500	Fresh Aqua		174	123
		41377 F14T8/SR 6PK		24	Medium BiPin (G13)	565		5000	90	7500	Terrarium		174	123
		16986 F14T8 SW		10	Medium BiPin (G13)	190		10000	54	7500	Salt Water Blue		174	123
	15 18	22907 F15T8/AR/FR 6PK		24	Medium BiPin (G13)	425		4000	92	7500	Freshwater		174	123
		22910 F15T8/AR/FS 6PK		24	Medium BiPin (G13)	675		9325	64	7500	Fresh or Saltwater		174	123
		22920 F15T8/AR/SA 6PK		24	Medium BiPin (G13)	210		1000	62	7500	Saltwater		174	123
		16965 F15T8 F&SA		10	Medium BiPin (G13)	700		10000	60	9000	Fresh & Salt Aqua		174	123
		16977 F15T8 FA		10	Medium BiPin (G13)	400		5000	70	9000	Fresh Aqua		174	123
		49892 F15T8/PL/AQ 6PK		24	Medium BiPin (G13)	510		3100	90	7500	Plant. Wide Spectrum		174	123
		17002 F15T8 REP		10	Medium BiPin (G13)	400		6400	82	7500	Reptile		174	123
		22904 F15T8/SR 6PK		24	Medium BiPin (G13)	620		5000	90	7500	Terrarium		174	123
		16987 F15T8 SW		10	Medium BiPin (G13)	210		-	-	9000	Salt Water Blue		174	123
	18 24	16966 F18T8 F&SA		10	Medium BiPin (G13)	950		10000	60	15000	Fresh & Salt Aqua		174	123
		16979 F18T8 FA		10	Medium BiPin (G13)	600		5000	70	9000	Fresh Aqua		174	123
		17003 F18T8 REP		10	Medium BiPin (G13)	550		6400	82	7500	Reptile		174	123
		16988 F18T8 SW		10	Medium BiPin (G13)	270		-	-	9000	Salt Water Blue		174	123
	25 30	16968 F25T8 F&SA		10	Medium BiPin (G13)	1350		10000	60	15000	Fresh & Salt Aqua		174	123
		16980 F25T8 FA		10	Medium BiPin (G13)	805		5000	70	9000	Fresh Aqua		174	123
		16991 F25T8 SW		10	Medium BiPin (G13)	430		-	-	9000	Salt Water Blue		174	123
30 36		41374 F30T8/AR/FR 6PK		24	Medium BiPin (G13)	630		4000	92	9000	Freshwater		174	123
		40904 F30T8/AR/FS 6PK		24	Medium BiPin (G13)	1400		9235	64	9000	Fresh or Saltwater		174	123
		41376 F30T8/AR/SA 6PK		24	Medium BiPin (G13)	315		10000	62	9000	Saltwater		174	123
		16969 F30T8 F&SA		10	Medium BiPin (G13)	1700		10000	60	15000	Fresh & Salt Aqua		174	123
		16981 F30T8 FA		10	Medium BiPin (G13)	1035		5000	70	9000	Fresh Aqua		174	123



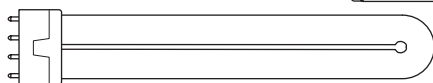


Fig. 74



Fig. 123



Fig. 127



Fig. 130

Bulb	Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Plant and Aquarium/Terrarium – Linear Fluorescent (Continued)															
T8	30 36		17004 F30T8 REP	10 Medium BiPin (G13)	1100		6400	82	7500	Reptile				174	123
			16992 F30T8 SW	10 Medium BiPin (G13)	540		-	-	9000	Salt Water Blue				174	123
			92882 F32T8/AR/FS	25 Medium BiPin (G13)			9235	64	20000	Fresh or Saltwater				174	123
	32 48		16970 F36T8 F&SA	10 Medium BiPin (G13)	2350		10000	60	15000	Fresh & Salt Aqua				174	123
			16982 F36T8 FA	10 Medium BiPin (G13)	1425		5000	70	9000	Fresh Aqua				174	123
			17006 F36T8 REP	10 Medium BiPin (G13)	1250		6400	82	7500	Reptile				174	123
			16995 F36T8 SW	10 Medium BiPin (G13)	700		-	-	9000	Salt Water Blue				174	123
	38 42		16971 F38T8 F&SA	10 Medium BiPin (G13)	2200		10000	60	15000	Fresh & Salt Aqua				174	123
			16984 F38T8 FA	10 Medium BiPin (G13)	1320		5000	70	9000	Fresh Aqua				174	123
			16999 F38T8 SW	10 Medium BiPin (G13)	650		-	-	9000	Salt Water Blue				174	123
58 60			16972 F58T8 F&SA	10 Medium BiPin (G13)	3760		10000	60	15000	Fresh & Salt Aqua				174	123
			16985 F58T8 FA	10 Medium BiPin (G13)	2225		5000	70	9000	Fresh Aqua				174	123
			17000 F58T8 SW	10 Medium BiPin (G13)	1100		-	-	9000	Salt Water Blue				174	123
			22908 F20T12/AR/FR 6PK	24 Medium BiPin (G13)	600		4000	92	9000	Freshwater				174	127
	30 36		22911 F20T12/AR/FS 6PK	24 Medium BiPin (G13)	950		9325	64	9000	Fresh or Saltwater				174	127
			22922 F20T12/AR/SA 6PK	24 Medium BiPin (G13)	270		1000	62	9000	Saltwater				174	127
			49891 F20T12/PL/AQ 6PK	24 Medium BiPin (G13)	750		3100	90	9000	Plant. Wide Spectrum				174	127
	40 48		22905 F20T12/SR 6PK	24 Medium BiPin (G13)	875		5000	90	9000	Terrarium				174	127
			41378 F30T12/SR 6PK	24 Medium BiPin (G13)	1100		5000	90	18000	Terrarium				174	127
			49893 F40PL/AQ 6PK	24 Medium BiPin (G13)	1900		3100	90	20000	Plant. Wide Spectrum				174	127
33 25			22909 F40T12/AR/FR 6PK	24 Medium BiPin (G13)	1425		4000	92	9000	Freshwater				174	127
			22914 F40T12/AR/FS 6PK	24 Medium BiPin (G13)	2350		9325	64	9000	Fresh or Saltwater				174	127
			22923 F40T12/AR/SA 6PK	24 Medium BiPin (G13)	700		1000	62	9000	Saltwater				174	127
			22906 F40T12/SR 6PK	24 Medium BiPin (G13)	2250		5000	90	20000	Terrarium				174	127
			12263 FBS25/GS/PP	6 Wall Plug	470		3050	90	7500	Plant. Wide Spectrum. Bright Stik®				174	130

Plant and Aquarium/Terrarium – Biax® Compact Fluorescent															
T5	36 16.5		17007 F36BX F&SA	10 2G11	2100		-	-	8000	Fresh & Salt Aqua				174, 184	74
			17010 F36BX FA	10 2G11	1250		5000	-	8000	Fresh Aqua				174, 184	74
			17012 F36BX SW	10 2G11	600		-	-	8000	Salt Water Blue				174, 184	74
			45851 F55BX/AR/FS 6PK	6 2G11			9325	64	10000	Fresh or Saltwater. Biax®				174	74
55	20.7		17008 F55BX F&SA	10 2G11	3300		-	-	8000	Fresh & Salt Aqua				174, 184	74
			17011 F55BX FA	10 2G11	1950		5000	-	8000	Fresh Aqua				174, 184	74
			17013 F55BX SW	10 2G11	950		-	-	8000	Salt Water Blue				174, 184	74

Diazo Reprographic 1500mA (Superblue)

FEATURES

- The Diazo lamp emits a blue light, peaking at approximately 417nm

APPLICATIONS

- Reprographic Equipment
- Blue Print Reproduction



Fig. 127



Fig. 131

Bulb	Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Diazo Reprographic 1500mA (Superblue)															
T12	120 54		40092 F54T12/SPB	24 Medium BiPin (G13)							2000		Useful life; burns hours longer.	37, 171	127
			39683 F59T12/SPB	24 Medium BiPin (G13)							2000		Useful life; burns hours longer.	37, 171	127
T17	180 54		26390 F54T17/SPB	12 Mogul BiPin (G20)							2000		Useful life; burns hours longer.	37, 171	131



FEATURES

- Appliance and indicators in various base styles
- Lumaline "linear" incandescent lamps
- Rough service lamps for commercial and industrial settings
- Extended service or long life lamps for home, apartment buildings, and commercial area lighting
- High wattage lamps for large areas
- Swimming pool lamps
- Pet lamps for home and zoo
- See Incandescents in Sections 3, 6, 7, 9, 10 for Directional Lighting, Safety, City and Airport Lighting, Heat Lamps, Railway, Mine and Marine

APPLICATIONS

- Appliance
- Indicators
- Decorative
- Commercial
- Swimming Pools
- Zoo
- Hobbies

Appliance and Indicators

FEATURES

- Popular, small low wattage lamps to illuminate small areas, or as indicator lamps



Fig. 132



Fig. 133



Fig. 134



Fig. 135



Fig. 136



Fig. 137

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Footnotes	Additional Information	Figure Number
Appliance and Indicators														
3	130	11098 3S6/5 24PK		24	S6	Cand	C-7A	1.37	1.87	11	3000		Clear	132
6	12	11316 6S6 24PK		24	S6	Cand	C-2V	1.37	1.87	50	1500		Clear	132
	24	11329 6S6		240	S6	Cand	C-2V	1.37	1.87	50	1500		Clear	132
	75	11357 6S6DC 24PK		24	S6	DC Bay	C-7A	1.43	1.81	45	1500		Clear	133
	120	11367 6S6 TRAY		240	S6	Cand	C-7A	1.37	1.87	41	1500		Clear. 12-Lamp Tray	132
		11577 6S6/3		240	S6	Cand	C-7A	1.37	1.87	23	5000		Clear-Signal Light	132
		11660 6S6/7 TRAY 24PK		24	S6	Inter	C-7A	1.06	1.81	41	1500		Clear. 12-Lamp Tray	134
		11592 6S6DC TRAY		240	S6	DC Bay	C-7A	1.43	1.81	41	1500		Clear. 12-Lamp Tray	133
	130	11369 6S6 TRAY		240	S6	Cand	C-7A	1.37	1.87	41	1500		Clear. 12-Lamp Tray	132
		11594 6S6/DC TRAY		240	S6	DC Bay	C-7A	1.43	1.81	41	1500		Clear. 12-Lamp Tray	133
	145	11372 6S6		240	S6	Cand	C-7A	1.37	1.87	41	1500		Clear	132
		11609 6S6DC 24PK		24	S6	DC Bay	C-7A	1.43	1.81	41	1500		Clear. 12-Lamp Tray	133
	155	11374 6S6		240	S6	Cand	C-7A	1.37	1.87	41	1500		Clear	132
	7.5	11847 7 1/2S TRAY		240	S11	Med	C-9		2.25	53	1400		Clear. 12-Lamp Tray	135
		41267 7 1/2S/CW CARD		240	S11	Med	C-9		2.25	39	1400 56		White	135
	130	11848 7 1/2S TRAY		240	S11	Med	C-9		2.25	53	1400		Clear. 12-Lamp Tray	135
		11922 7 1/2S/CW TRAY		240	S11	Med	C-9		2.25	39	1400		White-12-Lamp Tray	135
	10	12249 10S11/79		120	S11	Cand	C-7A	1.56	2.25	80	1000		Clear	136
		12188 10S11N/F		120	S11	Inter	C-7A	1.62	2.31	79	1000		Frost	137
	230	12041 10S6/10		24	S6	Cand	C-7A	1.37	1.87	66	1500		Clear	132
		12060 10S6/10DC 24PK		24	S6	DC Bay	C-7A	1.87	1.87	66	1500		Clear	133
	250	12050 10S6/10 24PK		24	S6	Cand	C-7A	1.37	1.87	66	1500		Clear	132
	15	13210 15S11/13		120	S11	Cand	C-7A	1.56	2.25	137	750		Clear	132
		13291 15S11/102		240	S11	Med	C-7A		2.25	120	400		Clear-Refrigerator, 12-Lamp Tray	135
	40	35156 40S11N/1 CARD		240	S11	Inter	C-9	1.62	2.31	440	500 57, 58		Clear-12-Card Pack	137
		15734 40S11N/1/F		120	S11	Inter	C-9	1.62	2.31	440	500 57		Frost	137

Specialty Incandescent SECTION 5

Lumaline

FEATURES

- "Linear" incandescent lamps with special bases
- For display cases, architectural lighting
- Not recommended for new applications

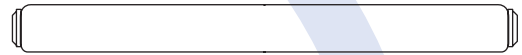


Fig. 138

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Footnotes	Additional Information	Figure Number
Lumaline														
30	120	15029 L30		24	T8	Disc	C-8	17.75	230	1500			Clear	138
		15071 L30/W		24	T8	Disc	C-8	17.75	210	1500			White	138
40	120	15804 L40		24	T8	Disc	C-8	11.75	325	1500			Clear	138
		15839 L40/W		12	T8	Disc	C-8	11.75	295	1500			White	138
60	120	17226 L60		24	T8	Disc	C-8	17.75	480	1500			Clear	138
		17266 L60/W		12	T8	Disc	C-8	17.75	450	1500			White	138

Rough Service

FEATURES

- Survivor™ bulbs have longer life, very long life when operated at 120V, special coil design to resist shock and vibration, and brass bases
- Survivor™ bulbs provide 3-4x life with 68%-75% of ordinary bulbs
- Rough service lamps tend to have "normal" life but they are built exclusively to resist mechanical shock and vibration

APPLICATIONS

- Commercial Hallways, Stairwells, Rooms
- Gyms, Storage and Security Areas



Fig. 139



Fig. 140



Fig. 209

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Footnotes	Additional Information	Figure Number
Rough Service														
40	120	31519 40A1/FR/RS/B22		20	A19	B22				300	1500		I.F. Rough Service	209
40	130	40323 40A/S-130V-24PK		24	A19	Med	C-9	3.12	4.43	330	3000	54, 60	Survivor™, LongLife, I.F., Vibration Resistant	139
36	120									245	5500			
40	240	91228 40A1/FR/RS/B22		20	A19	B22				250	3000		I.F. Rough Service	209
50	120	33495 50A/RS 24PK		24	A19	Med	C-17A2.56	3.87	5.25	490	1000	57, 59	I.F.-Rough Service	139
	250	16147 50A/RS		120	A19	Med	C-22	2.56	3.87	470	1000	57, 59	I.F.-Rough Service	139
60	120	40324 60A/S-120V-24PK		24	A19	Med	C-9	3.12	4.43	600	3000	60	Survivor™, LongLife, I.F., Vibration Resistant	139
		31535 60A1/FR/RS/B22		20	A19	B22				450	3000		I.F. Rough Service	209
		31546 60A1/FR/RS/E27		20	A19	E27				450	1500		I.F. Rough Service	139
60	130	40325 60A/S-130V-24PK		24	A19	Med	C-9	3.12	4.43	600	3000	54, 60	Survivor™, LongLife, I.F., Vibration Resistant	139
53	120									460	8300			
60	240	91229 60A1/FR/RS/E27		20	A19	E27				500	3000		I.F. Rough Service	139
75	120	44546 75A/RS 6PK		30	A21	Med	C-17	3.81	5.25	1000	57, 59		I.F. Rough Service	140
		18274 75A/RS 12PK-5		60	A21	Med	C-17	3.81	5.25	750	1000	57, 59	I.F. Rough Service	140
		46895 75A/RS/STG PQ1/6		30	A21	Med	C-17	3.81	5.25	1000	21, 60, 65		Rough Service, Saf-T-Gard®	140
75	130	17527 75A/RS 60PK		60	A21	Med	C-17	3.81	5.25	740	1000	57, 59	I.F. Rough Service	140
67	120									560	2600			
75	130	40328 75A/S-130V-24PK		24	A19	Med	C-9	3.12	4.43	815	3000	54, 60	Survivor™, LongLife, I.F., Vibration Resistant	139
67	120									790	8300			
100	120	18275 100A/RS 12PK-5		60	A21	Med	C-17	3.81	5.25	1160	1000	57, 59	I.F. Rough Service	140
		47261 100A/RS/STGPQ1/6		30	A21	Med	C-17	3.81	5.25	1230	1000	21, 60, 65	Rough Service - Saf-T-Gard®	140
		40329 100A/S-120V-24PK		24	A19	Med	C-9	3.12	4.43	1190	3000	60, 93	Survivor™, Long Life, I.F., Vibration Resistant	139
		31560 100A1/FR/RS/B22		20	A19	B22				840	3000		I.F. Rough Service	209
		31573 100A1/FR/RS/E27		20	A19	E27				840	3000		I.F. Rough Service	139



Fig. 139



Fig. 140

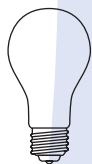


Fig. 141

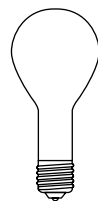


Fig. 142

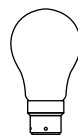


Fig. 209



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Footnotes	Additional Information	Figure Number
Rough Service (Continued)														
100 89	130 120	17522	100A/RS 60PK	60	A21	Med	C-17	3.81	5.25	1060 800	1000 2600	54, 57, 59	I.F.-Rough Service	140
100 89	130 120	40330	100A/S-130V-24PK	24	A19	Med	C-9	3.12	4.43	1170 880	3000 8300	54, 60, 93	Survivor™, LongLife, I.F., Vibration Resistant	139
100 89	130 120	33456	100A23/VS	24	A23	Med	C-9	4.43	5.93	1340 1020	1000 2600	54, 57, 59	I.F.-Vibration Service	141
100	240	92018	100A1/FR/RS/B22	20	A19	B22				880	3000		I.F. Rough Service	209
		91227	100A1/FR/RS/E27	20	A19	E27				880	3000		I.F. Rough Service	139
	250	17524	100A/RS 60PK	60	A21	Med	C-17	3.81	5.25	960	1000	54, 57, 59	I.F. Rough Service	140
150 133	130 120	19618	150/RS	60	PS25	Med	C-17	5.18	6.93	2160 1650	1000 2600	54, 57, 59	I.F.-Rough Service	142
150 133	130 120	33465	150/VS	24	PS25	Med	C-9	5.18	6.93	2270 1735	1000 2600	54, 57, 59	I.F.-Vibration Service	142
150 133	130 120	15818	150A/S	60	A21	Med	C-9	3.37	4.93	1925 1470	2000 5500	54, 60, 93	Survivor™, LongLife, I.F., Vibration Resistant	140
150 133	130 120	17625	150A21/RS	60	A21	Med	C-17	3.81	5.25	2065 1580	1000 2600	54, 57, 59	I.F.-Rough Service	140
200 177	130 120	33468	200PS30/23 24PK	24	PS30	Med	C-9	6	8.06	3240 2495	1000 2600	54, 57, 59	I.F.-Rough Service	142
200 177	130 120	20403	200PS30/24	60	PS30	Med	C-9	6	8.06	3240 2495	1000 2600	54, 57, 59	Clear-Rough Service	142

Extended Service – Long Life

FEATURES

- 130/120V lamp; lumen and life depicted at 130V/120V
- Life 3-6x conventional lamps on same circuitry



Fig. 140

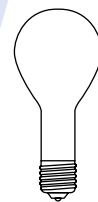


Fig. 142

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Footnotes	Additional Information	Figure Number
Extended Service – Long Life														
100	130	21315	100A21/99 60PK	60	A21	Med	CC-6	3.87	5.25	1420	2500	54, 60	Diffuse Coating	140
89	120									1080	6800			
135	130	13025	150A/135WMP/99	60	A21	Med	CC-8	4.06	5.37	2060	2500	54	Watt-Miser®, Diffuse Coating, Long Life	140
120	120									1580	6800			
150	130	19668	150/99CL	60	PS25	Med	C-9	5.18	6.93	2200	2500	54, 60	Clear-Extended Service	142
133	120									1680	6800			
150	130	19658	150/99/IF	60	PS25	Med	C-9	5.18	6.93	2200	2500	54, 60	I.F.-Extended Service	142
133	120									1680	6800			
150	130	25929	150A21/99/IF	60	A21	Med	CC-8	4.06	5.37	2310	900	54, 60	I.F.-Extended Service	140
133	120									1700	2500			
200	130	20354	200/99IF	60	PS30	Med	C-9	6	8.06	3000	2500	54, 60	I.F.-Extended Service	142
177	120									2310	6800			
200	130	25937	200A21/99/CL 130	60	A21	Med	CC-8	4.06	5.37	3250	2500	54	Clear-Extended Service	140
177	120									2600	4500			
200	130	25936	200A21/99/IF	60	A21	Med	CC-8	4.06	5.37	3250	2500	54	I.F.-Extended Service	140
177	120									2600	4500			

Specialty Incandescent SECTION 5

High Wattage Incandescent

FEATURES

- 500-1000 watt lamps
- Many 130V lamps can be operated on 120V circuits for 2x+ life (with lumen loss)

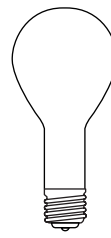


Fig. 144

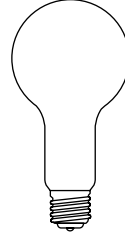


Fig. 145

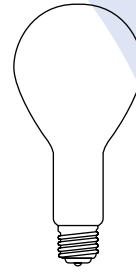


Fig. 146



Fig. 147



Fig. 148

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Footnotes	Additional Information	Figure Number
High Wattage Incandescent														
500	120	21530 500		24	PS35	Mog	CC-8	7	9.37	10850	1000	60	Clear	144
		21687 500PS40		24	PS40	Mog	C-9	7	9.75	9900	1000	60	Clear	145
	130	21532 500		24	PS35	Mog	CC-8	7	9.37	10850	1000	60	Clear	144
		21643 500/99		24	PS40	Mog	C-9	7	9.75	9070	2000	60	Clear-Extended Service	145
		21651 500/99IF		24	PS35	Mog	C-9	7	9.75	9070	2000	60	I.F.-Extended Service	144
		21581 500/IF		24	PS35	Mog	CC-8	7	9.37	10850	1000	60	Inside Frost	144
		21872 500T20/50		12	T20	Med BiPost	C-13	4	6.5	9800	1000	20, 30, 81, 84	I.F. HRG	147
750	130	22000 750		12	PS52	Mog	CC-8	9.5	13	17040	1000	60, 83	Clear	146
		22117 750T24		24	T24	Med BiPost	C-13	5.5	9.18	14800	1000	20, 30, 81, 84	Inside Frost, HRG	148
1000	120	22310 1000/IF		12	PS52	Mog	C-7A	9.5	13		1000	60, 83	I.F.	146
		22348 1000/SBIF		12	PS52	Mog	C-7A	9.5	13		1000	60, 83		146
		22479 1M/T24		24	T24	Med BiPost	C-13	5.5	9.18	21200	1000	20, 30, 81, 84	Inside Frost, HRG	148
	130	22260 1000		12	PS52	Mog	CC-8	9.5	13	23740	1000	60, 83	Clear	146
		22301 1000/99		12	PS52	Mog	C-7A	9.5	13	19800	2500	60, 83	Clear-Extended Service	146
	250	22280 1000		12	PS52	Mog	C-7A	9.5	13	17700	2000	60, 83	Clear	146
	277	22284 1000		12	PS52	Mog	C-7A	9.5	13	17700	2000	60, 83	Clear	146

Low and Extra Low Voltage GLS Lamps



Fig. 139



Fig. 209

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL	MOL	Lumens	Life (hrs)	Additional Information	Bulb Finish	Figure Number
Low and Extra Low Voltage GLS Lamps														
25	24	35178 24V25/CL/E27		100	A19	E27				300	1000		Clear	139
40	24	91879 24V40/CL/B22		100	A19	B22				570	1000		Clear	209
		91876 24V40/CL/E27		100	A19	E27				570	1000		Clear	139
		91874 24V40/FR/E27		100	A19	E27				570	1000		Frost	139
60	24	91878 24V60/CL/B22		100	A19	B22				900	1000		Clear	209
		91877 24V60/CL/E27		100	A19	E27				900	1000		Clear	139
		91875 24V60/FR/E27		100	A19	E27				900	1000		Frost	139
42		29051 42V60/FR/E27		100	A19	E27				840	1000		Frost	139
100	24	35174 24V100/CL/E27		100	A19	E27				1700	1000		Clear	139
		91873 24V100/FR/E27		100	A19	E27				1700	1000		Frost	139

Swimming Pool

FEATURES

- Common lamps used in underwater swimming pool illumination
- Must be used with GFI circuitry

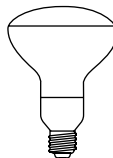
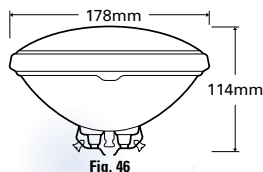


Fig. 149

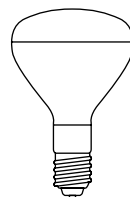


Fig. 150

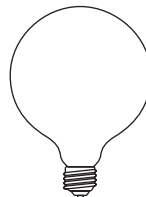


Fig. 151

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Footnotes	Additional Information	Figure Number
Swimming Pool														
100	12	39503	100R30/CL	24	R30	Med	C-6	5.37	1200	2000	57, 60, 93	Reflector-Clear		149
250	12	23423	21A/R40/FL	24	R40	Med	C-2V	6.68		1000	57, 58, 60, 69, 90	Reflector Flood-I.F. BDTH, HORIZ, HRG		150
300	12	23427	300PAR56/WFL	12	PAR56	Scrww Term	C-6	4.5	6000	1000	20, 93, 165	PAR-Wide Flood		46
		10200	300PAR56WFL12VPB	12	PAR56	Scrww Term	C-6	4.5		1000	20, 93, 165	PAR-Wide Flood		46
400	120	21363	400G/FL	60	G30	Med	C-5	3	5.12	6800	800	60, 79, 180	Clear-Flood, BDTH	151
		17542	400R40/FL	24	R40	Med	CC-2V	6.75	5000	2000	20, 60, 80, 90	Reflector Flood. HRG		150
500	120	48316	500R40/5FL/SLV	24	R40	Med	CC-2V	6.75		2000	20, 60, 80, 90	Silvered, BDTH		150

Pet Lamps

FEATURES

- Heat light (60A) and basking light (R20/30) for focused lighting
- Rare earth neodymium bulbs provide the natural warmth of daytime, while enhancing natural colors



Fig. 139

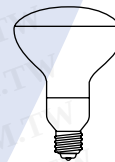


Fig. 149

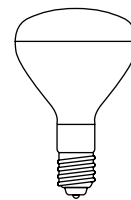


Fig. 150

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament	LCL (in)	MOL (in)	Lumens	Life (hrs)	Footnotes	Additional Information	Figure Number
Pet Lamps														
50	120	20812	50R20/NPET-6PK	30	R20	Med	C-9	2.44	3.94	2000	57, 59, 90	Neodymium Bulb		149
60	120	44818	60A/NPET PQ1/6	30	A19	Med	CC-8	3.13	4.44	1000	57, 59, 90	Neodymium Bulb		139
65	120	20813	65R30/NPET 6PK	6	R30	Med	CC-6	3.07	5.37	2000	57	Neodymium Bulb		150

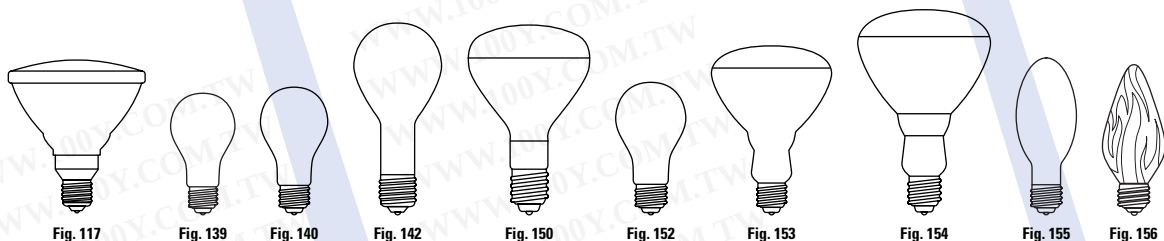


FEATURES

- Polycarbonate protective shield effectively contains shattered glass particles of fluorescent lamps if lamp is broken
- Incandescent protected coatings
- Protects people, food, etc. from broken glass and resists thermal shock breakage from inclement weather
- Available in many types and wattages, including Incandescent and Fluorescent T12, T8 with Starcoat®, and Ecolux® lamps
- UV blocking properties guard against fading and UV degradations
- Available in a variety of colors for decorative and architectural applications

APPLICATIONS

- Grocery
- Food Processing
- Semiconductor
- Hospitals
- Restaurants
- Sand Blasting
- Construction Sites
- Loading Docks
- Elevators
- Trouble Lights
- Metal Fabrication
- Stables, Farms



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	CBCP	Additional Information	Footnotes	Figure Number
Incandescent CovRguard®															
40	120	46887	40A15CF/STG CD2	30	A15	Med		2.37	3.50	400	1500		Soft white. Ceiling Fan	21, 59, 65	152
50	120	14727	50A/RS/CVG 24PK	24	A19	Med	C-17A	2.56	3.87	480	1000		Rough Service	21, 59, 60, 65	139
60	120	46888	60A15CF/STGPQ2/6	30	A15	Med	C-9	2.37	3.50	650	1500		Ceiling Fan	21, 59, 65	152
		14414	60A/CVG 24PK	24	A19	Med	CC-6	3.12	4.43	850	1000			21, 59, 60, 65	139
		46845	60A/W/STG PQ2/10	100	A19	Med	CC-6	3.12	4.43	812	1000		Soft White	21, 59, 65	139
65	120	46858	65R30/FL/CVG	30	BR30	Med	CC-6		5.37		2000			21, 65, 95	153
		47723	65R30FL/STGPQ1/6	30	BR30	Med	CC-6		5.37		2000		Indoor Flood	21, 65, 95	153
75	120	47263	75A/RS/CVG-6PK	30	A21	Med	C-17	3.81	5.25	740	1000		Rough Service	21, 59, 60, 65	140
		46895	75A/RS/STG PQ1/6	30	A21	Med	C-17	3.81	5.25		1000		Rough Service	21, 59, 60, 65	140
		47727	75E17/STG PQ1/6	30	E17	Med	CC-6		5.00		4000		Post light	21, 60	155
100	120	47262	100A/RS/CVG-6PK	30	A21	Med	C-17	3.81	5.25	1230	1000		Rough Service	21, 60, 65	140
		47261	100A/RS/STGPQ1/6	30	A21	Med	C-17	3.81	5.25	1230	1000		Rough Service	21, 60, 65	140
		46846	100A/W/STGPQ2/10	100	A19	Med	CC-8	3.12	4.43	1624	750		Soft White	21, 65	139
		47728	100F20/STG PQ1/6	30	F20	Med	CC-9		5.00		3000		Post light	21, 60, 65	156
120	130	46877	120R/40/FL/CVG	30	BR40	Med	CC-6		6.56	1550	1700	1200		21, 65, 95	154
		47725	120R40FL/STG PQ6	30	BR40	Med	CC-6		6.56	1550	1700	1200		21, 65, 95	154
150	120	26370	150PAR/FL/CVG	12	PAR38	Med Skirt	CC-6		5.31	1700	2000		Flood	21, 65, 173, 178, 179	117
		48037	150PAR/FL/STGPQ6	6	PAR38	Med Skirt	CC-6		5.31	1700	2000			21, 65, 173, 178, 179	117
		26371	150PAR/SP/CVG	12	PAR38	Med Skirt	CC-6		5.31	1700	2000		Spot	21, 65, 173, 178, 179	117
		14635	150PS25/CVG	60	PS25	Med	C-9		6.93	2630	1000			21, 60, 65, 179	142
		14716	150/RS/CVG	60	PS25	Med	C-17	5.18	6.93	2120	1000		Rough Service	21, 60, 65, 179	142
200	120	14636	200PS30/CVG	60	PS30	Med	C-9	6	8.06	3480	1000			21, 60, 65, 179	142
		14637	200PS30/RS/CVG	60	PS30	Med	C-9	6	8.06	3330	1000			21, 60, 65, 179	142
250	120	46881	250R40/1/CVG	30	R40	Med	C-9		6.56	2150	5000		Food Warming-Infrared	21, 57, 59, 65, 92, 93	150
		47724	250R40/1/STG	30	R40	Med	C-9		6.56	2150	5000		Food Warming-Infrared	21, 57, 59, 65, 92, 93	150

CovRguard® Lamps SECTION 6

Fluorescent covRguard®

FEATURES

- Starcoat® – more light over life-95% maintenance, enhanced color rendering (CRI), significant energy savings, long life
- Ecolux® (ECO) – with Starcoat®-Reduced mercury with Starcoat® advantage. TCLP compliant, lowering disposal costs where applicable.
- Ecolux®, Starcoat® XL and SXL – even longer life with the advantages of Ecolux® and Starcoat®
- Watt-Miser® (WM) – energy saving T12 with 12-20% savings vs. standard T12
- See Specialty Fluorescent for additional covRguard® types



Fig. 123



Fig. 128



Fig. 157



Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Fluorescent CovRguard® – T5 Preheat Lamps														
T5	4	6 41435	F4T5/CW/CVG	24	Miniature BiPin (G5)	130	95	4100	60	5000			45, 47, 173	128
	6	9 41106	F6T5/CW/CVG	24	Miniature BiPin (G5)	285	225	4100	60	5000			45, 47, 173	128
	8	12 41107	F8T5/CW/CVG	24	Miniature BiPin (G5)	385	310	4100	60	5000			45, 47, 173	128
	13	21 41108	F13T5/CW/CVG	24	Miniature BiPin (G5)	820	680	4100	60	5000			45, 47, 173	128
Fluorescent CovRguard® – T6 Instant Start Lamps														
T6	25	42 41140	F42T6/CW/CVG	24	Single Pin (Fa8)	1690	1530	4100	60	7500			45, 47, 173	157
		41142	F42T6/SP35/CVG	24	Single Pin (Fa8)	1770	1640	3500	73	7500			45, 47, 173	157
		41141	F42T6/WW/CVG	24	Single Pin (Fa8)	1770	1590	3000	52	7500	Warm White		45, 47, 173	157
40	64	46422	F64T6/CW/CVG	24	Single Pin (Fa8)	2710	2440	4100	60	7500			45, 47, 173	157
		41143	F64T6/SP35/CVG	24	Single Pin (Fa8)	2840	2630	3500	73	7500			45, 47, 173	157
Fluorescent CovRguard® – T8 Ecolux® with Starcoat®														
T8	17	24 15974	F17T8/SP35/ECO/CVG	24	Medium BiPin (G13)	1280	1220	3500	78	20000	Starcoat®		45, 47, 173	123
		15877	F17T8/SP41/ECO/CVG	24	Medium BiPin (G13)	1280	1220	4100	78	20000	Starcoat®		45, 47, 173	123
		15975	F17T8/SPX35/ECO/CVG	24	Medium BiPin (G13)	1310	1242	3500	86	20000	Starcoat®		45, 47, 173	123
		15976	F17T8/SPX41/ECO/CVG	24	Medium BiPin (G13)	1310	1242	4100	86	20000	Starcoat®		45, 47, 173	123
25	36	15978	F25T8/SP30/ECO/CVG	24	Medium BiPin (G13)	2020	1920	3000	78	20000	Starcoat®		45, 47, 173	123
		15981	F25T8/SP35/ECO/CVG	24	Medium BiPin (G13)	2020	1920	3500	78	20000	Starcoat®		45, 47, 173	123
		15984	F25T8/SP41/ECO/CVG	24	Medium BiPin (G13)	2020	1920	4100	78	20000	Starcoat®		45, 47, 173	123
		15989	F25T8/SPX30/ECO/CVG	24	Medium BiPin (G13)	2080	1970	3000	86	20000	Starcoat®		45, 47, 173	123
		15990	F25T8/SPX35/ECO/CVG	24	Medium BiPin (G13)	2080	1970	3500	86	20000	Starcoat®		45, 47, 173	123
		15991	F25T8/SPX41/ECO/CVG	24	Medium BiPin (G13)	2080	1970	4100	86	20000	Starcoat®		45, 47, 173	123
32	48	40803	F32T8/SP30/ECO/CVG	36	Medium BiPin (G13)	2715	2580	3000	78	20000	Starcoat®		45, 47, 173	123
		40804	F32T8/SP35/ECO/CVG	36	Medium BiPin (G13)	2715	2580	3500	78	20000	Starcoat®		45, 47, 173	123
		40812	F32T8/SP41/ECO/CVG	36	Medium BiPin (G13)	2715	2580	4100	78	20000	Starcoat®		45, 47, 173	123
		18366	F32T8/SP50/ECO/CVG	36	Medium BiPin (G13)	2665	2530	5000	78	20000	Starcoat®		45, 47, 173	123
		18368	F32T8/SP65/ECO/CVG	36	Medium BiPin (G13)	2620	2490	6500	78	20000	Starcoat®		45, 47, 173	123
		41125	F32T8/SPX30/ECO/CVG	36	Medium BiPin (G13)	2860	2710	3000	86	20000	Starcoat®		45, 47, 173	123
		41126	F32T8/SPX35/ECO/CVG	36	Medium BiPin (G13)	2860	2710	3500	86	20000	Starcoat®		45, 47, 173	123
		41127	F32T8/SPX41/ECO/CVG	36	Medium BiPin (G13)	2860	2710	4100	86	20000	Starcoat®		45, 47, 173	123
		15971	F32T8/SPX50/ECO/CVG	36	Medium BiPin (G13)	2715	2580	5000	86	20000	Starcoat®		45, 47, 173	123
Fluorescent CovRguard® – T8 Ecolux® XL Extra-life with Starcoat®														
T8	18	24 17203	F18W/T8/830 GE CVG XL-R ECO	25	Medium BiPin (G13)	1300		2950	85	15000	CVG/XLR 830			123
		17204	F18W/T8/835 GE CVG XL-R ECO	25	Medium BiPin (G13)	1300		3400	85	15000	CVG/XLR 835			123
		17205	F18W/T8/840 GE CVG XL-R ECO	25	Medium BiPin (G13)	1300		4000	85	15000	CVG/XLR 840			123
		93430	F18W/T8/860 GE CVG XL-R ECO	25	Medium BiPin (G13)	1250		6300	85	15000	CVG/XLR 860			123
32	48	15972	F32T8/XL/SPX30ECO/CVG	36	Medium BiPin (G13)	2860	2715	3000	86	20000	Starcoat®, Ecolux®		45, 47, 173	123
		15973	F32T8/XL/SPX35ECO/CVG	36	Medium BiPin (G13)	2860	2715	3500	86	20000	Starcoat®, Ecolux®		45, 47, 173	123
		18369	F32T8/XL/SPX41ECO/CVG	36	Medium BiPin (G13)	2860	2715	4100	86	20000	Starcoat®, Ecolux®		45, 47, 173	123
36	48	17208	F36W/T8/830 GE CVG XL-R ECO	25	Medium BiPin (G13)	3250		2950	85	15000	CVG/XLR 830			123
		17202	F36W/T8/835 GE CVG XL-R ECO	25	Medium BiPin (G13)	3250		3400	85	15000	CVG/XLR 835			123
		17209	F36W/T8/840 GE CVG XL-R ECO	25	Medium BiPin (G13)	3250		4000	85	15000	CVG/XLR 840			123
		93437	F36W/T8/860 GE CVG XL-R ECO	25	Medium BiPin (G13)	3200		6300	85	15000	CVG/XLR 860			123



Fig. 123



Fig. 159



Fig. 158

Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Fluorescent CovRguard® – T8 Ecolux® XL Extra-life with Starcoat® (Continued)														
T8 58 60	12403	F58W/T8/830/GE/CVG/XL-R ECO	25 Medium BiPin (G13)	5050		2950	85	15000		CVG/XLR 830. FEP coating				123
	12405	F58W/T8/835/GE/CVG/XL-R ECO	25 Medium BiPin (G13)	5050		3400	85	15000		CVG/XLR 835. FEP coating				123
	12407	F58W/T8/840/GE/CVG/XL-R ECO	25 Medium BiPin (G13)	5050		4000	85	15000		CVG/XLR 840. FEP coating				123
70 72	12421	F70W/T8/830/GE/CVG/XL-R ECO	25 Medium BiPin (G13)	6100		2950	85	15000		CVG/XLR 830. FEP coating				123
	12423	F70W/T8/835/GE/CVG/XL-R ECO	25 Medium BiPin (G13)	6100		3400	85	15000		CVG/XLR 835. FEP coating				123
	12424	F70W/T8/840/GE/CVG/XL-R ECO	25 Medium BiPin (G13)	6100		4000	85	15000		CVG/XLR 840. FEP coating				123
Fluorescent CovRguard® – T8 Ecolux® Super Long Life with Starcoat®														
T8 32 48	14560	F32T8/SXL/SP35/ECO/CVG	36 Medium BiPin (G13)	2765	2595	3500	82	30000		Starcoat®. Ecolux®			45, 47, 173	123
	14551	F32T8/SXL/SP41/ECO/CVG	36 Medium BiPin (G13)	2765	2595	4100	81	30000		Starcoat®. Ecolux®			45, 47, 173	123
Fluorescent CovRguard® – T8 Ecolux® Watt-Miser® with Starcoat®														
T8 32 48	40286	F32T8/SP30/IS/WM/ECO/CVG	36 Medium BiPin (G13)	2790	2620	3000	84	20000		Starcoat®. Ecolux®			36, 45, 47, 173	123
	40299	F32T8/SP35/IS/WM/ECO/CVG	36 Medium BiPin (G13)	2765	2595	3500	83	20000		Starcoat®. Ecolux®			36, 45, 47, 173	123
	40309	F32T8/SP41/IS/WM/ECO/CVG	36 Medium BiPin (G13)	2740	2570	4100	81	20000		Starcoat®. Ecolux®			36, 45, 47, 173	123
Fluorescent CovRguard® – T8 Ecolux® Watt-Miser® XL Extra-Life with Starcoat®														
T8 32 48	10023	F32T8/XL/SP30/WM/ECO	36 Medium BiPin (G13)	2740	2570	3000	84	24000		Starcoat®. Ecolux®			36, 45, 47, 173	123
	40297	F32T8/XL/SP35/WM/ECO	36 Medium BiPin (G13)	2715	2545	3500	83	24000		Starcoat®. Ecolux®			36, 45, 47, 173	123
	40310	F32T8/XL/SP41/WM/ECO	36 Medium BiPin (G13)	2690	2520	4100	81	24000		Starcoat®. Ecolux®			36, 45, 47, 173	123
Fluorescent CovRguard® – T8 Ecolux® High Lumen XL Extra-Life with Starcoat®														
T8 32 48	00267	F32T8/XL/SPX30/HL/ECO/CVG	36 Medium BiPin (G13)	3005	2825	4100	82	24000		Starcoat®. Ecolux®			45, 47, 173	123
	00268	F32T8/XL/SPX35/HL/ECO/CVG	36 Medium BiPin (G13)	3005	2825	3500	85	24000		Starcoat®. Ecolux®			45, 47, 173	123
	00269	F32T8/XL/SPX41/HL/ECO/CVG	36 Medium BiPin (G13)	3005	2825	3000	85	24000	0	Starcoat®. Ecolux®			45, 47, 173	123
Fluorescent CovRguard® – T8 with Starcoat®														
T8 40 60	41130	F40T8/SP35/CVG	24 Medium BiPin (G13)	3490	3140	3500	75	20000		Starcoat®			45, 47, 173	123
	41131	F40T8/SPX35/CVG	24 Medium BiPin (G13)	3610	3240	3500	84	20000		Starcoat®			45, 47, 173	123
	47351	F40T8/SPX41/CVG	24 Medium BiPin (G13)	3610	3250	4100	80	20000		Starcoat®			45, 47, 173	123
Fluorescent CovRguard® – T8 Instant Start with Starcoat®														
T8 35 72	41149	F72T8/CW/CVG	24 Single Pin (Fa8)	2910	2640	4100	60	7500					45, 47, 173	158
59 96	40094	F96T8/SP30/CVG	24 Single Pin (Fa8)	5620	5330	3000	75	15000		Starcoat®			45, 47, 173	158
	40095	F96T8/SP35/CVG	24 Single Pin (Fa8)	5620	5330	3500	75	15000		Starcoat®			45, 47, 173	158
	40096	F96T8/SP41/CVG	24 Single Pin (Fa8)	5620	5330	4100	75	15000		Starcoat®			45, 47, 173	158
	40099	F96T8/SPX30/CVG	24 Single Pin (Fa8)	5770	5480	3000	84	15000		Starcoat®			45, 47, 173	158
	40105	F96T8/SPX35/CVG	24 Single Pin (Fa8)	5770	5480	3500	84	15000		Starcoat®			45, 47, 173	158
	40106	F96T8/SPX41/CVG	24 Single Pin (Fa8)	5770	5480	4100	80	15000		Starcoat®			45, 47, 173	158
Fluorescent CovRguard® – T8 High Output Lamps with Starcoat®														
T8 86 96	40107	F96T8/SP35/HO/CVG	24 R17d	7760	6980	3500	75	18000		Starcoat®			45, 46, 47, 173	159
	40108	F96T8/SP41/HO/CVG	24 R17d	7760	6980	4100	75	18000		Starcoat®			45, 46, 47, 173	159
Fluorescent CovRguard® – T8 Preheat Lamps														
T8 13 12	41109	F13T8/CW/CVG	24 Medium BiPin (G13)	545	465	4100	60	7500					45, 47, 173	123
15 18	41110	F15T8/CW/CVG	24 Medium BiPin (G13)	800	700	4100	60	7500					45, 47, 173	123
	46627	F15T8/KB/CVG/UPC	24 Medium BiPin (G13)	910	825	3000	70	7500		Kitchen and Bath			45, 47, 174	123
	46216	F15T8/SP35/CVG	24 Medium BiPin (G13)	910	825	3500	75	7500					45, 47, 173	123
	41111	F15T8/SPX35/CVG	24 Medium BiPin (G13)	970	870	3500	82	7500					45, 47, 173	123
18 24	41117	F24T8/CW/4/CVG	6 Medium BiPin (G13)	1180	1000	4100	60	7500					45, 47, 173	123
19 28	41121	F28T8/CW/4/CVG	6 Medium BiPin (G13)	1300	1110	4100	60	7500					45, 47, 173	123
30 36	41122	F30T8/CW/CVG	24 Medium BiPin (G13)	2100	1920	4100	60	7500					45, 47, 173	123
	46206	F30T8/SPX30/CVG	24 Medium BiPin (G13)	2230	2070	3000	82	7500					45, 47, 173	123



CovRguard® Lamps

SECTION 6



Fig. 124



Fig. 127



Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Fluorescent CovRguard® – T12 Rapid Start														
T12 30	36	40126	F30T12/CW/RS/CVG	24	Medium BiPin (G13)	2130	1850	4100	60	18000			45, 47, 173	127
		46211	F30T12/SP35/CVG	24	Medium BiPin (G13)	2280	2050	3500	73	18000			45, 47, 173	127
		41123	F30T12/SPX30/RS/CVG	24	Medium BiPin (G13)	2300	2070	3000	82	18000			45, 47, 173	127
		41124	F30T12/SPX35/RS/CVG	24	Medium BiPin (G13)	2300	2070	3500	86	18000			45, 47, 173	127
40	48	41132	F40/C50/CVG	30	Medium BiPin (G13)	2180	1810	5000	90	20000		Chroma 50	45, 47, 173	127
		41133	F40/C75/CVG	30	Medium BiPin (G13)	1890	1630	7500	92	20000		Chroma 75	45, 47, 173	127
		40111	F40/CW/CVG	30	Medium BiPin (G13)	2950	2600	4100	60	20000			45, 47, 173	127
		41436	F40/CW/CVG 6PACK	6	Medium BiPin (G13)	2950	2600	4100	60	20000			45, 47, 173	127
		41964	F40/D/CVG	30	Medium BiPin (G13)	2470	2170	6250	75	20000		Daylight	45, 47, 173	127
		41965	F40/DX/CVG	30	Medium BiPin (G13)	2180	1850	6500	84	20000		Daylight Deluxe	45, 47, 173	127
		46623	F40/KB/CVG/UPC	24	Medium BiPin (G13)	3290	2990	3000	82	20000		Kitchen and Bath	45, 47, 174	127
		47343	F40/N/CVG	30	Medium BiPin (G13)	2030	1680	3700	90	20000		Natural	45, 47, 173	127
		46426	F40/SP65/CVG	30	Medium BiPin (G13)	2950	2690	6500	75	20000			45, 47, 173	127
		41135	F40/SPX30/CVG	30	Medium BiPin (G13)	3290	2990	3000	82	20000			45, 47, 173	127
		41136	F40/SPX35/CVG	30	Medium BiPin (G13)	3290	2990	3500	82	20000			45, 47, 173	127
		41137	F40/SPX41/CVG	30	Medium BiPin (G13)	3240	2950	4100	80	20000			45, 47, 173	127
		46212	F40T12/SP30/CVG	30	Medium BiPin (G13)	3150	2860	3000	70	20000			45, 47, 173	127
		46214	F40T12/SP35/CVG	30	Medium BiPin (G13)	3100	2820	3500	73	20000			45, 47, 173	127
Fluorescent CovRguard® – T12 Rapid Start Watt-Miser® Lamps														
T12 34	48	40109	F34/CW/RS/WM/CVG	30	Medium BiPin (G13)	2570	2210	4100	60	20000			45, 47, 173	127
		40806	F34/LW/RS/WM/CVG	30	Medium BiPin (G13)	2730	2350	4200	49	20000		Light White	45, 47, 173	127
		40112	F34/SP35/RS/WM/CVG	30	Medium BiPin (G13)	2660	2400	3500	73	20000			45, 47, 173	127
		40113	F34/SP41/RS/WM/CVG	30	Medium BiPin (G13)	2660	2400	4100	72	20000			45, 47, 173	127
		40114	F34/SPX41/RS/WM/CVG	30	Medium BiPin (G13)	2820	2530	4100	80	20000			45, 47, 173	127
		40110	F34/WW/RS/WM/CVG	30	Medium BiPin (G13)	2620	2250	3000	52	20000		Warm White	45, 47, 173	127
Fluorescent CovRguard® – Ecolux® Rapid Start Watt-Miser® Lamps														
T12 34	48	40805	F34/CW/RS/WM/ECO/CVG	30	Medium BiPin (G13)	2570	2210	4100	60	20000		Ecolux®	45, 47, 173	127
		41138	F34/SPX30/RS/WM/ECO/CVG	30	Medium BiPin (G13)	2810	2530	3000	82	20000		Ecolux®	45, 47, 173	127
		41139	F34/SPX35/RS/WM/ECO/CVG	30	Medium BiPin (G13)	2810	2530	3500	82	20000		Ecolux®	45, 47, 173	127
Fluorescent CovRguard® – Rapid Start Lamps Utility Shoplight														
T12 25	48	46625	F48"/25W/UTSL/CVG/UPC	30	Medium BiPin (G13)	1800	1620	4100	60	12000			45, 47, 173	127
Fluorescent CovRguard® – Instant Start														
T12 20	24	47342	F24T12/CW/CVG	24	Single Pin (Fa8)	870	785	4100	60	7500			45, 47, 173	124
40	48	40127	F48T12/CW/CVG	24	Single Pin (Fa8)	2780	2560	4100	60	9000			45, 47, 173	124
		48091	F48T12/SP35/CVG	24	Single Pin (Fa8)	2910	2730	4100	60	9000			45, 47, 173	124
		41144	F48T12/SPX35/CVG	24	Single Pin (Fa8)	2950	2780	3500	82	9000			45, 47, 173	124
50	60	41147	F60T12/CW/CVG	15	Single Pin (Fa8)	3490	3210	4100	60	12000			45, 47, 173	124
55	72	46213	F72T12/SP35/CVG	15	Single Pin (Fa8)	4550	4280	3500	73	12000			45, 47, 173	124
		41151	F72T12/SPX30/CVG	15	Single Pin (Fa8)	4650	4370	3000	82	12000			45, 47, 173	124
		41153	F72T12/SPX35/CVG	15	Single Pin (Fa8)	4650	4370	3500	82	12000	0		45, 47, 173	124
Fluorescent CovRguard® – Instant Start (Continued)														
T12 75	96	46208	F96T12/C50/CVG	15	Single Pin (Fa8)	4460	3920	5000	90	12000			45, 47, 173	124
		40117	F96T12/CW/CVG	15	Single Pin (Fa8)	5960	5480	4100	60	12000			45, 47, 173	124
		41973	F96T12/DX/CVG	15	Single Pin (Fa8)	4360	3920	6500	84	12000		Daylight Deluxe	45, 47, 173	124
		46215	F96T12/SP35/CVG	15	Single Pin (Fa8)	6300	5920	3500	73	12000			45, 47, 173	124
		41157	F96T12/SPX30/CVG	15	Single Pin (Fa8)	6590	6190	3000	82	12000			45, 47, 173	124
		41158	F96T12/SPX35/CVG	15	Single Pin (Fa8)	6590	6190	3500	82	12000			45, 47, 173	124
		41159	F96T12/SPX41/CVG	15	Single Pin (Fa8)	6590	6190	4100	80	12000			45, 47, 173	124
Fluorescent CovRguard® – Instant Start Watt-Miser® Energy Saving Lamps														
T12 58	96	45993	F96T12/SP35/WMP/CVG	15	Single Pin (Fa8)	5520	5190	3500	75	12000			36, 45, 47, 173	124
60	96	40115	F96T12/CW/WM/CVG	15	Single Pin (Fa8)	5330	4910	4100	60	12000			36, 45, 47, 173	124



Fig. 124



Fig. 127



Fig. 125

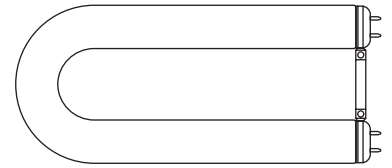


Fig. 160

Bulb Watts	MOL (in)	Order Code	Description	Case Qty.	Base	Lumens Initial	Lumens Mean	Color Temp.	CRI Index	Life (hrs)	CRI Flag	Additional Information	Footnotes	Figure Number
Fluorescent CovRguard® – Instant Start Watt-Miser® Energy Saving Lamps (Continued)														
T12 60	96	40124	F96T12/SP35/WM/CVG	15	Single Pin (Fa8)	5520	5200	3500	73	12000			36, 45, 47, 173	124
Fluorescent CovRguard® – Ecolux® Rapid Start Watt-Miser® Lamps (96")														
T12 58	96	45994	F96T12/SP35/WMP/ECOCVG	15	Single Pin (Fa8)	5520	5190	3500	75	12000		Ecolux®	36, 45, 47, 173	124
60	96	40807	F96T12/CW/WM/ECO/CVG	15	Single Pin (Fa8)	5330	4910	4100	60	12000		Ecolux®	36, 45, 47, 173	124
Fluorescent CovRguard® – Mod-U-Line® Watt-Miser® Energy Saving Lamps														
T8 32	22.5	23665	F32T8/SP30U6/CVG	12	Medium BiPin (G13)	2619	2488	3000	78	20000			36, 45, 47, 173	160
		23656	F32T8/SP35U6/CVG	12	Medium BiPin (G13)	2619	2488	3500	78	20000			36, 45, 47, 173	160
		23657	F32T8/SP41U6/CVG	12	Medium BiPin (G13)	2619	2488	4100	78	20000			36, 45, 47, 173	160
		23658	F32T8/SPX30U6/CVG	12	Medium BiPin (G13)	2716	2551	3000	86	20000			36, 45, 47, 173	160
		23659	F32T8/SPX35U6/CVG	12	Medium BiPin (G13)	2716	2551	3500	86	20000			36, 45, 47, 173	160
		23660	F32T8/SPX41U6/CVG	12	Medium BiPin (G13)	2716	2551	4100	86	20000			36, 45, 47, 173	160
T12 35	22.5	23664	F35CW/ECO/U6/CVG/UPC	12	Medium BiPin (G13)	2522	2169	4100	60	18000		Ecolux®	36, 45, 47, 173	160
40	22.5	23661	F40/SP30/U6/CVG	12	Medium BiPin (G13)	2959	2697	3000	70	14000			36, 45, 47, 173	160
		23662	F40/SP35/U6/CVG	12	Medium BiPin (G13)	2959	2697	3500	73	14000			36, 45, 47, 173	160
		23663	F40/SP41/U6/CVG	12	Medium BiPin (G13)	2959	2697	4100	72	14000			36, 45, 47, 173	160
Fluorescent CovRguard® – Preheat														
T12 15	18	41114	F15T12/CW/CVG	24	Medium BiPin (G13)	735	660	4100	60	9000			45, 47, 173	127
20	24	46377	F20T12/C50/CVG	24	Medium BiPin (G13)	845	765	5000	90	9000		Chroma 50	45, 47, 173	127
		40125	F20T12/CW/CVG	24	Medium BiPin (G13)	1160	1110	4100	60	9000			45, 47, 173	127
		41000	F20T12/CW/CVG/UPC	24	Medium BiPin (G13)	1160	1110	4100	60	9000			45, 47, 173	127
		46622	F20T12/KB/CVG/UPC	24	Medium BiPin (G13)	1230	1160	3000	70	9000		Kitchen and Bath	45, 47, 174	127
		46218	F20T12/SP35/CVG	24	Medium BiPin (G13)	1230	1160	3500	73	9000			45, 47, 173	127
		41116	F20T12/SPX35/CVG	24	Medium BiPin (G13)	1260	1180	3500	82	9000			45, 47, 173	127
25	33	41120	F25T12/WW/33/CVG	24	Medium BiPin (G13)	1850	1660	3000	52	7500		Warm White	45, 47, 173	127
Fluorescent CovRguard® – High Output Lamps Recessed Double Contact														
T12 35	24	48090	F24T12/CW/HO/CVG	24	R17d	1570	1300	4100	60	9000			45, 46, 47, 173	125
60	48	40129	F48T12/CW/HO/CVG	24	R17d	3930	3410	4100	60	12000			45, 46, 47, 173	125
		41969	F48T12/D/HO/CVG	24	R17d	3290	2870	6500	75	12000		Daylight	45, 46, 47, 173	125
		41146	F48T12/SPX35/HO/CVG	24	R17d	4220	3800	3500	82	12000			45, 46, 47, 173	125
75	60	41148	F60T12/CW/HO/CVG	15	R17d	4990	4340	4150	62	12000			45, 46, 47, 173	125
85	72	40811	F72T12/CW/HO/CVG	15	R17d	6150	5350	4100	60	12000			45, 46, 47, 173	125
		48094	F72T12/N/HO/CVG	10	R17d	4170	3500	3700	90	12000		Natural	45, 46, 47, 173	125
		46207	F72T12/SP35/HO/CVG	15	R17d	6450	5810	3500	73	12000			45, 46, 47, 173	125
		41152	F72T12/SPX30/HO/CVG	15	R17d	6590	5930	3000	82	12000			45, 46, 47, 173	125
		41154	F72T12/SPX35/HO/CVG	15	R17d	6590	5930	3500	82	12000			45, 46, 47, 173	125
100	84	41156	F84T12/CW/HO/CVG	15	R17d	7460	6490	4100	60	12000			45, 46, 47, 173	125
110	96	40808	F96T12/CW/HO/CVG	15	R17d	8630	7500	4100	60	12000			45, 46, 47, 173	125
		46424	F96T12/D/HO/CVG	15	R17d	7370	6410	6500	75	12000		Daylight	45, 46, 47, 173	125
		46430	F96T12/DX/HO/CVG	15	R17d	6400	5440	6500	84	12000		Daylight Deluxe	45, 46, 47, 173	125
		46210	F96T12/SP35/HO/CVG	15	R17d	8920	8030	3500	73	12000			45, 46, 47, 173	125
		45264	F96T12/SP65/HO/CVG	15	R17d	8630	7760	6500	75	12000			45, 46, 47, 173	125
		41160	F96T12/SPX30/HO/CVG	15	R17d	9070	8160	3000	82	12000			45, 46, 47, 173	125
		41161	F96T12/SPX35/HO/CVG	15	R17d	9070	8160	3500	82	12000			45, 46, 47, 173	125
		41162	F96T12/SPX41/HO/CVG	15	R17d	9070	8160	4100	80	12000			45, 46, 47, 173	125
Fluorescent CovRguard® – Watt-Miser® Energy Saving Lamps														
T12 95	96	40116	F96T12/CW/HO/WM/CVG	15	R17d	7760	6750	4100	60	12000			36, 45, 47, 173	125
		16821	F96T12/CW/HO/WM/ECO/CVG	15	R17d	7760	6285	4100	60	12000		Ecolux®	36, 45, 47, 173	125
		40118	F96T12/SP35/HO/WM/CVG	15	R17d	8090	7290	3500	73	12000			36, 45, 47, 173	125
		40123	F96T12/SP41/HO/WM/CVG	15	R17d	8090	7290	4100	72	12000			36, 45, 47, 173	125



Airport Lighting

FEATURES

- Series design lamps used in runways and taxiways, which are rated by amps
- Substitution of "standard" lamps in series circuits can lead to unsatisfactory performance and FAA non-conformance
- Many parallel devices use "standard" lamps; beacons use Q PAR lamps (see Directional Section)

APPLICATIONS

- Airport Runway/Taxiway
- Airport Edgelights, Centerline, Touchdown Zone, Turn-Off
- Civil and Military Airports

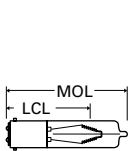


Fig. 34

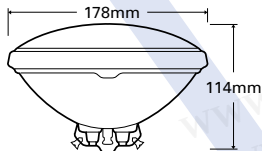


Fig. 46

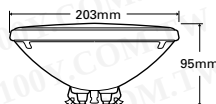


Fig. 48

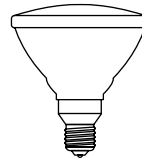


Fig. 117

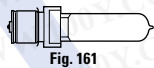


Fig. 161



Fig. 166



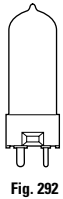
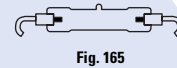
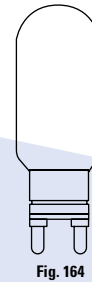
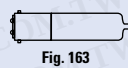
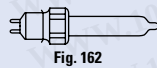
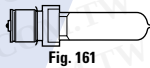
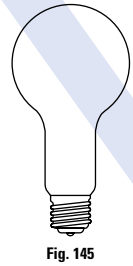
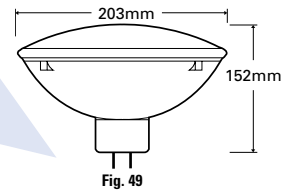
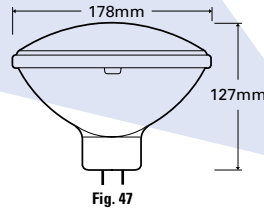
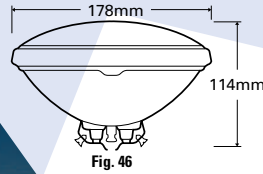
Fig. 290



Fig. 292



Watts	Volts/Amps (A)	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	MOL (mm)	Lumens	Color Temp.	CBCP	Life	Burn Position	Filament Dimension (in)	Additional Information	Footnotes	Figure Number
Airfield/Airport																			
30	6.6A	23294 6.6A/T10/1P	60 T10 P28s Med Pf	C-2V	1.50	3.93	400				1000	BD					Clear	161	
		11478 EXL	24 T3.5 GZ9.5 2-Pin	C-8	1.00	1.75	375	2900			1000	HD				.05 x .13		64	292
		23522 EZA	20 MR16 GX5.3 2-Pin	C-8		1.75	2900				1000	HD						64	290
32	6.6A	41783 EZA/4	20 MR16 Wire Term	C-8		1.75	2900	4500			1000	HD						64	
36	6.0A	35336 THE 436 6A 36W	10 MR11 Leads	CC-6															
40	120	15921 40T10P	60 T10 P28s Med Pf	CC-2V	1.50	3.93	400				1000	BD					Clear	161	
45	6.6A	23310 6.6A/PAR56/5	12 PAR56 Scrw Term	C-8		4.50	700				1000						Stippled cover	46	
		23295 6.6A/T10P	60 T10 P28s Med Pf	C-2V	1.50	3.93	675				1000	BD					Clear	161	
		15937 45PAR38/6.6	12 PAR38 E26 Med Skirt	C-6		5.31		1750			800						Flood	117	
		76663 AF6/2 6.6A 45W	100 Prefocus Mycalex Cap	Flat Grid		54	760				600						Order 10076663		
		11482 EXM	24 T3.5 GZ9.5 2-Pin	C-8	1.00	1.75	750	2950			1000	HD				.06 x .19		64	292
		23071 EZC	20 MR16 GX5.3 2-Pin	C-8		1.75	2950				1000	HD						64	290
		23847 Q6 6A/T2 1/2/1CL	12 T2.5 Special	C-8		1.75	44	710			1000						Clear	152	166
		41541 Q45T4/CL	12 T4 GY16 2-Pin PreFoc	C-6	1.54	2.50	835				500	BD					Clear	151	162
		14473 Q45T4/CL/DCR	12 T4 D.C.Prefocus	C-6	1.06	2.60	845	2850			500							34	
65	6.6A	32917 Q65T2 1/2/1CL	200 T2.5 Special	C-8			1200				1000							166	
100	6.6A	76664 AF6/5T 6.6A 100W	100 Prefocus Cap Mycalex	Flat Grid		60	2100				600						Order 12076664		
120	6	39395 120PAR	12 PAR64 Scrw Term	C-6		4.00	780	180000			3000						Transmissometer. VN spot	20	48
	6.6A	10099 EVV UNIT	24 T4 GZ9.5 2-Pin	C-6 Oval	1.54	2.50	3150	3200			500	BD				.25 x .12		64	292
150	6.6A	11427 EWR UNIT	24 T4 GZ9.5 2-Pin	C-6 Oval	1.54	2.50	4100	3200			500	BD				.25 x .16		64	292



Watts	Volts/Amps (A)	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	MOL (mm)	Lumens	Color Temp.	CBCP	Life	Burn Position	Filament Dimension (in)	Additional Information	Footnotes	Figure Number
Airfield/Airport (Continued)																			
200	6.6A	23298 6.6A/T14P		24	T14	P28s Med Pf	C-13	2.18	5.75		4900				BD		Clear		161
		76666 AF7/2 6.6A 200W		100		Prefocus Mycalex Cap	Flat Grid			54	4800			600			Order 16076666		
		15243 EZL UNIT		24	T4	GZ9.5 2-Pin	C-6 Oval	1.54	2.50		5000	3100		500	BD	.28 x .19		64	292
		38271 06.6A/PAR56/2		12	PAR56	GX16d Mog End Pr	CC-6		5.00	127			16000	1000	BDTH			154	47
		33279 06.6A/PAR56/3		12	PAR56	Scrw Term	CC-6		4.50	114			200000	1000	BDTH			154	46
		18309 06.6A/PAR56/4		12	PAR56	GX16d Mog End Pr	CC-6		5.00					600	BDTH		Prismatic Lens	154	47
		13224 06.6A/PAR 64/2P		6	PAR64	GX16d Mog End Pr	CC-6		4.50	114				2000				154	49
		23857 06.6A/T4/5CL		12	T4	Spec 1" Ribbon	CC-8		3.00	76	5000			500			Clear	152	165
		23860 06.6AT4/DCR		12	T4	Ba15d D C Bay	CC-6	1.06	2.50	64	5150			500			Clear, Ringed	153	163
		40702 0200T4/CL		12	T4	GY16 2-Pin PreFoc	CC-6	1.54	2.50		4500			500	BD		Clear	151	162
204	6.6A	23300 6.6A/T14/2P		24	T14	P28s Med Pf	C-13	2.18	5.75		4220			500	BD		Clear		161
300	6.6A	13223 06.6A/PAR 64/3P		6	PAR64	GX16d Mog End Pr	CC-6		4.50	114				2000	BDTH			154	49
	20A	32861 020A/PAR56/2		12	PAR56	Scrw Term	CC-6		4.50	114			200000	500	A			157	46
		15482 020A/PAR56/C		12	PAR56	GX16d Mog End Pr	CC-6		5.00	127				500	A			158	47
499	20A	23863 020A/PAR56/3		12	PAR56	Scrw Term	CC-6		4.50	114			330000	500	BDTH			154	46
500	20A	15485 020A/PAR56/1/C		12	PAR56	GX16d Mog End Pr	CC-6		5.00	127				500	A			155	47
		39071 0500T8/1CL		20	T8	Spec 1" Ribbon	CC-8	2.50	4.25		13400	3200		500	BH		Special bulb	156	165
620	120	21950 620PS40P		24	PS40	P40s Mog Pf	C-9	5.68	10.06		11200			3000			Clear		145
	130	21952 620PS40P		24	PS40	P40s Mog Pf	C-9	5.68	10.06		11200			3000			Clear		145
1000	120	22429 1M/T20BP		12	T20	G38 Mog BiPost	C-13	4.00	9.50		22000			500	BD		Clear-Beacon, HRG	20	164
1200	115	22524 1200T20		12	T20	G38 Mog BiPost	CC-8	4.00	9.50		29600			750	BD		Clear-Beacon, HRG	20, 30, 89	

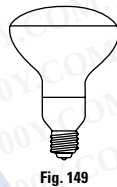
Sign

FEATURES

- Clear and colors, with long life, up to 8000 hrs
- Rugged filament construction to reduce premature failure from shock and vibration
- Brass base to minimize freezing in sockets
- In 130 volts; operate at 120V for additional 2x+ life (but 25% less output)

APPLICATIONS

- Marquee Lighting
- Scoreboards
- Time/Temperature Signs
- Message Centers



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	CBCP	Beam Spread	Life (hrs)	Burn Position	Additional Information	Footnotes	Figure Number
Sign																	
10	130	12185 10S11N		120	S11	Inter	C-7A	1.62	2.31	80			1000		Clear	60	137
11	130	12575 11S14		120	S14	Med	C-9	2.50	3.50	76			3000		Clear	60	167
		12589 11S14/IF		120	S14	Med	C-9	2.50	3.50	76			3000		I.F.	60	167
		12621 11S14/R		120	S14	Med	C-9	2.50	3.50				3000		Red	60	167
		12632 11S14/Y		120	S14	Med	C-9	2.50	3.50				3000		Yellow	60	167
15	130	19317 15A/GR/CL/8		120	A15	Med	C-9	2.37	3.50				8000		Clear Group Replacement		152
		16215 15A15/CL/BB		120	A15	Med	C-9	2.37	3.50	110			3000		Clear	60	152
		11137 15S14/GR/CL/8		120	S14	Med	C-9	2.50	3.50	90			8000		Clear Group Replacement	60	167
30	130	14129 30A15		120	A15	Med	C-9	2.37	3.50	215			5000		I.F. Changing Message Sign	60	152
		15291 30A15/CL		120	A15	Med	C-9	2.37	3.50	215			5000		Clear Changing Message Sign	60	152
		19358 30A15/8		120	A15	Med	C-9	2.37	3.50	180			8000		I.F.	60	152
		46849 30R20/6		30	R20	Med	C-9		3.93	150			6000	BDTH	Reflector Spot - Light I.F. - Flashing Message	60	149
33	130	42626 33A19/5		120	A19	Med	C-9		3.87	270			2500		Clear-Changing Message Sign. Group Replacement	60	139
50	130	46852 50R20/6		30	R20	Med	C-9		3.93	400 420 45			6000	BDTH	Reflector Spot - Light I.F. - Flashing Message Sign	57, 149	59, 90



Traffic Signals

FEATURES

- Rugged construction for shock and vibration resistance
- Long life, up to rated 8000 hours. Built in reflector disk in many types.
- Brass bases to prevent "freezing" in the socket for faster, safer replacement
- Built in fuse to protect other components from filament "arc-out." Built-in reflector disk to optimize output.
- Available in energy saving Krypton filled Watt-Miser®

APPLICATIONS

- Traffic Signals



Fig. 139



Fig. 140



Fig. 141



Fig. 142

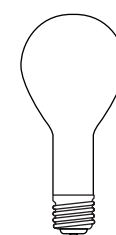


Fig. 144

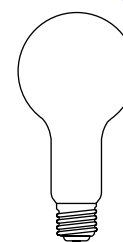


Fig. 145

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Burn Position	Additional Information	Footnotes Figure Number
Traffic Signals														
40	130	15554	40A/TS	120	A21	Med	C-9	2.43	4.37	380	2000	BDTH	Clear	60 140
54	120	17960	60A21/54WM/TS	120	A21	Med	C-11V	2.43	4.37	530	8000	BDTH	Watt-Miser®. Clear. Krypton	60 140
		130	17961 60A21/54WM/TS	120	A21	Med	C-11V	2.43	4.37	530	8000	BDTH	Watt-Miser®. Clear. Krypton	60 140
60	120	17968	69A21/60WM/TS	120	A21	Med	C-11V	2.43	4.37	610	8000	BDTH	Watt-Miser®. Clear. Krypton	60 140
		130	17969 69A21/60WM/TS	120	A21	Med	C-11V	2.43	4.37	610	8000	BDTH	Watt-Miser®. Clear. Krypton	60 140
67	120	38551	67A21/TS	120	A21	Med	C-9	2.43	4.37	635	8000	BDTH	Clear	60 140
		125	38552 67A21/TS	120	A21	Med	C-9	2.43	4.37	635	8000	BDTH	Clear	60 140
		130	38553 67A21/TS	120	A21	Med	C-9	2.43	4.37	635	8000	BDTH	Clear	60 140
69	120	17323	69A21/TS	120	A21	Med	C-9	2.43	4.37	675	8000	BDTH	Clear	60 140
		130	17325 69A21/TS	120	A21	Med	C-9	2.43	4.37	675	8000	BDTH	Clear	60 140
75	120	36473	75PAR46/TS	12	PAR46	3 Prong	CC-6		3.87	700	6000			20
90	125	17972	100A21/90WM/TS	120	A21	Med	C-11V	2.43	4.37	1040	8000	BDTH	Watt-Miser®. Clear. Krypton	60 140
100	130	18365	100A21/TS	120	A21	Med	C-9	2.43	4.37	1280	3000		Clear. Rated Watts: 98.	60 140
116	120	19008	116A21/TS	120	A21	Med	C-9	2.43	4.37	1280	8000	BDTH	Clear	60 140
		125	19009 116A21/TS	120	A21	Med	C-9	2.43	4.37	1280	8000	BDTH	Clear	60 140
		130	19010 116A21/TS	120	A21	Med	C-9	2.43	4.37	1280	8000	BDTH	Clear	60 140
135	120	17973	150A21/135WM/TS	120	A21	Med	C-11V	3.00	4.68	1750	7000	BDTH	Watt-Miser®. Clear. Krypton	60 140
		130	17974 150A21/135WM/TS	120	A21	Med	C-11V	3.00	4.68	1750	7000	BDTH	Watt-Miser®. Clear. Krypton	60 140
150	115	35327	150PAR46/TS	12	PAR46	3 Prong	CC-6		4.00	1750	6000	H		20
Lumen Rated Traffic Signal														
165	120	20094	1950L/P25/TS	60	P25	Med	C-9	3.00	4.75	1950	8000		Clear	60 142
		125	20096 1950L/P25/TS	60	P25	Med	C-9	3.00	4.75	1950	8000		Clear	60 142
		130	20097 1950L/P25/TS	60	P25	Med	C-9	3.00	4.75	1950	8000		Clear	60 142
High Volt Traffic Signal														
40	230	35218	40A1/CL/E27	100	A19	E27				230	3000			139
		91293	40A1/EXTR/CL/E27	100	A19	E27				230	3000			139
60	230	35239	60A1/CL/E27	100	A19	E27				380	3000			139
		91294	60A1/EXTR/CL/E27	100	A19	E27				380	3000			139
65	240	35240	65A1/CL/E27	100	A19	E27				400	3000			139
70	230	35239	70A1/CL/E27	100	A19	E27				420	3000			139
100	230	35246	100A1/CL/E27	15	A19	E27				830	3000			139
150	230	35245	150A1/CL/E27	15	A19	E27				1250	3000			139
Multiple Street Lighting														
105	125	42392	105A23/12	120	A23	Med	C-9	4.43	5.93	12000			Clear	60 141
189	130	19939	189PS25/64	60	PS25	Med	C-9	5.25	6.93	3000			Clear	60 142
205	125	42663	205PS25/12	60	PS25	Med	C-9	5.25	6.93	12000			Clear	60 142
295	125	20772	295PS35/58	24	PS35	Mog	C-9	7.00	9.37	3000			Clear	60 144
327	125	21307	327PS35	24	PS35	Mog	C-9	7.00	9.37	6000			Clear	60 144
405	120	21408	405PS40/54	24	PS40	Mog	C-9	7.00	9.75	6850	3000		Clear	60 145

SECTION 7 Airport, City, & Emergency Bldg

Emergency Building Lighting

FEATURES

- Low voltage, battery driven, low power consumption lighting for emergency exit signs
- In PAR36 sealed beams with flood lenses and small miniature lamps
- Sorted by watts and then volts

APPLICATIONS

- Emergency Building Lighting
- Lanterns

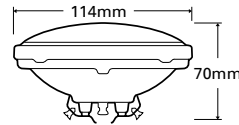


Fig. 42

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	MOL (in)	MBCP	10% Spread H	10% Spread V	Life (hrs)	Additional Information	Footnotes	Figure Number
Emergency Building Lighting – Sealed Beam															
6	6	44924 H7556	12 PAR36 Screw Terminals	C-6	2.75	400	30	20	50	77	42				
7.2	6	11421 7672-1	12 PAR36 Slip-on Terminals	C-6	2.75	350	30	20	50						
8	6	41865 7613	12 PAR36 Screw Terminals	C-6	2.75	400	30	20	50						
		45101 7613-1	12 PAR36 Slip-on Terminals	C-6	2.75	400	30	20	50						
		43564 H7551	12 PAR36 Screw Terminals	C-6	2.75	550	30	20	50	77	42				
12		44642 H7555	12 PAR36 Screw Terminals	C-6	2.75	550	30	20	50	77	42				
10	6	43567 H7552	12 PAR36 Screw Terminals	C-6	2.75	650	30	20	50	77	42				
12	6	43570 H7553	12 PAR36 Screw Terminals	C-6	2.75	850	30	20	50	77	42				
	6.4	39585 4042	12 PAR36 Screw Terminals	C-6	2.75	1100	45	20	150						
	12	40588 4044	12 PAR36 Screw Terminals	C-6	2.75	1100	50	25	150						
		10540 4044-1	12 PAR36 Slip-on Terminals	C-6	2.75	1100	50	25	150						
		12720 H7557	12 PAR36 Screw Terminals	C-6	2.75	850	30	20	50	77	42				
18	6.4	24339 4014	12 PAR36 Screw Terminals	C-6	2.75	1500	50	25	200						
20	6	43574 H7554 Bulk	60 PAR36 Screw Terminals	C-6	2.75	1400	30	20	50	77	42				
25	12.8	37046 4446	12 PAR36 Screw Terminals	C-6	2.75	400	80	80	300						



Fig. 168



Fig. 169



Fig. 170

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	MBCP	Amps	Life (hrs)	Additional Information	Footnotes	Figure Number
Emergency Building Lighting – Miniature															
3	6	44756 909	50 T-5 Wedge	C-2R	0.81	1.49	3	.62A	50						168
3.5	4	44769 914	50 T-5 Wedge	C-6	0.75	1.49	3.5	.90A	50						168
	6.15	15731 149	1000 T-3 ¼ Wedge	C-2R	0.56	1.06	3.5	.53A	15						169
5.4	6	16975 939	50 T-5 Wedge	C-2R	0.81	1.49	5.4	.90A	50						168
7.5	4	13483 926	50 T-5 Wedge	C-2R	0.81	1.49	7.5	1.80A	50						168
8	6	13485 927	50 T-5 Wedge	C-2R	0.81	1.49	8	1.20A	50						168
9	6	43760 784	10 T-2 ¼ G-4 Two Pin	C-6	0.77	1.00	9	1.00A	50	76, 120	170				
11	12	44771 915	50 T-5 Wedge	C-2R	0.81	1.49	11	.75A	50						168
12	6	44754 908	50 T-5 Wedge	C-2R	0.81	1.49	12	1.50A	50						168
13	6	43762 785	10 T-2 ¼ G-4 Two Pin	C-6	0.77	1.00	13	1.33A	50	76, 120	170				
	12	12723 774	10 T-2 ¼ G-4 Two Pin	C-6	0.77	1.00	13	.67A	50	76, 120	170				
15	6	23684 963	4000 T-5 Wedge	C-2R	0.81	1.49	15	2.00A	50						168
19	6	43764 786	10 T-2 ¼ G-4 Two Pin	C-6	0.77	1.00	19	2.00A	50	76, 120	170				
22	12	44500 783	10 T-2 ¼ G-4 Two Pin	C-6	0.77	1.00	22	1.00A	50	76, 120	170				

Lamp stocking color code: EU Only, EU and NA, NA Only



FEATURES

- Clear lamps with special UV transmitting glass
- Allows 253.7nm (UV-C) radiation from the mercury discharge to pass through the glass thus penetrating and inactivating the DNA of most micro-organisms
- Used in air, water, and surface purification applications
- Available in T5, T8 Linear and Compact Biax[®], with and without starters
- Stocked in North America and Europe

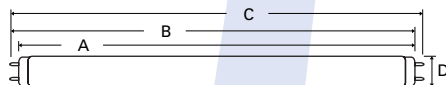


Fig. 171

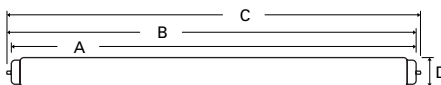


Fig. 172

Description	Max A (in)	Max A (mm)	Min B (in)	Min B (mm)	Max B (in)	Max B (mm)	Max C (in)	Max C (mm)	Max D (in)	Max D (mm)	Figure Number
LFL Lamps											
G4T5	5.4	136	5.53	140.5	5.63	143	5.91	150.1	0.63	16	171
G6T5	8.35	212.1	8.53	216.7	8.63	219.2	8.91	226.3	0.63	16	171
G8T5	11.35	288.3	11.53	292.9	11.63	295.4	11.91	302.5	0.63	16	171
G36T5	33.37	847.5	33.58	853	33.74	857	34.07	885.5	0.63	16	172
G64T5	61.30	1557	61.42	1560.1	61.25	1555.8	62.00	1574.8	0.63	16	172
G15T8	17.22	437.4	17.4	442	17.5	444.5	17.78	451.6	1.10	27.9	171
G25T8	17.22	437.4	17.4	442	17.5	444.5	17.78	451.6	1.10	27.9	171
G30T8	35.22	894.6	35.4	899.2	35.5	901.7	35.78	908.8	1.10	27.9	171
G55T8/HO	35.22	894.6	35.4	899.2	35.5	901.7	35.78	908.8	1.10	27.9	171

APPLICATIONS

- Air, Water, and Surface Sterilization
- Food Processing
- Pharmaceutical Industry
- Hospitals
- Photochemical Processing
- Waste Treatment

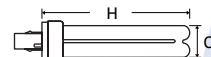


Fig. 173

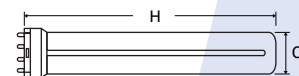
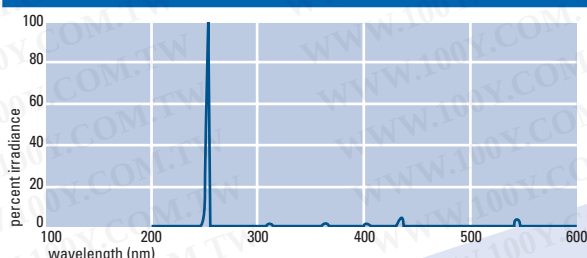


Fig. 174

Description	Max H (in)	Max H (mm)	Max C (in)	Max C (mm)	Glass OD (in)	Glass OD (mm)	Figure Number
CFL Lamps							
GBX5/UVC	3.4	85	1.3	33	0.7	18	173
GBX9/UVC	5.7	145	1.3	33	0.7	18	173
GBX11/UVC	8.5	215	1.3	33	0.7	18	173
GBX13/UVC	6.7	170	1.3	33	0.7	18	173
GBX18/UVC/2G11	8.8	225	1.7	44	0.9	24	174
GBX36/UVC/2G11	16.3	415	1.7	44	0.9	24	174
GBX55/UVC/2G11	21.1	535	1.7	44	0.9	24	174

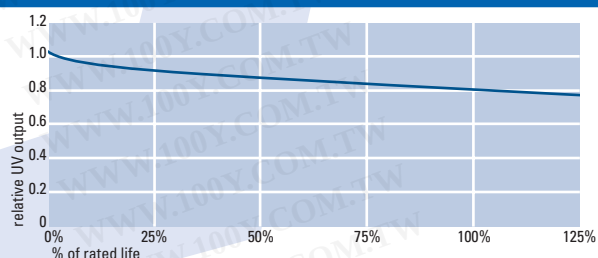
Bulb	Watts	MOL (in)	MOL (mm)	Order Code	Description	Case Qty.	Base	Volts	Lamp Current	UVC Output	Life (hrs)	Additional Information	Footnotes	Figure Number
Germicidal – Linear T5														
T5	4	5.9	150	15872 G4T5	24 G5 Miniature Bi-Pin	29	0.17	0.9	6000	Clear, Preheat, For Use With Starters	50, 176, 177	171		
	6	8.9	226	15873 G6T5	24 G5 Miniature Bi-Pin	42	0.16	1.7	6000	Clear, Preheat, For Use With Starters	50, 176, 177	171		
	8	11.9	302	11077 G8T5	24 G5 Miniature Bi-Pin	57	0.145	2.3	7500	Clear, Preheat, For Use With Starters	50, 176, 177	171		
	16			16494 G16T5	24 G5 Miniature Bi-Pin			3.2	7500	Clear, Preheat, For Use With Starters	50, 176, 177	171		
	39	34.1	886	15874 G36T5	24 Single-Pin (Fa8)	107	0.425	12	9000	Clear, Instant start	50, 176, 177	172		
	65	62.0	1575	15864 G64T5	24 Single-Pin (Fa8)	180	0.425	22	7500	Clear, Instant start	50, 176, 177	172		
Germicidal – Linear T8														
T8	15	17.8	452	11078 G15T8	24 G13 Medium Bi-Pin	55	0.305	4.8	8000	Clear, Preheat, For Use With Starters	50, 176, 177	171		
	25	17.8	452	11082 G25T8	24 G13 Medium Bi-Pin	46	0.58	6.9	8000	Clear, Preheat, For Use With Starters	50, 176, 177	171		
	30	35.8	909	11080 G30T8	24 G13 Medium Bi-Pin	99	0.355	12.4	8000	Clear, Preheat, For Use With Starters	50, 176, 177	171		
	55	35.8	909	15875 G55T8/HO	24 G13 Medium Bi-Pin	83	0.77	18	8000			171		
Germicidal – Biax®														
G23	5	4.2	108	16479 GBX5/UVC	100 G23 2-Pin	35	0.18	1.2	8000	Clear, Preheat, Internal Starter	50, 176, 177	173		
	9	6.6	167	15877 GBX9/UVC	100 G23 2-Pin	59	0.18	2.4	8000	Clear, Preheat, Internal Starter	50, 176, 177	173		
	11	9.3	237	15879 GBX11/UVC	100 G23 2-Pin	89	0.16	3.6	8000	Clear, Preheat, Internal Starter	50, 176, 177	173		
GX23	13	7.6	193	15881 GBX13/UVC	100 GX23 2-Pin	59	0.285	3.6	8000	Clear, Preheat, Internal Starter	50, 176, 177	173		
2G11	18	9.1	232	15882 GBX18/UVC/2G11	40 2G11 4-Pin	59	0.38	5.5	8000	Clear, Preheat, For Use With Starters	50, 176, 177	174		
	36	16.6	422	15883 GBX36/UVC/2G11	40 2G11 4-Pin	107	0.44	12	8000	Clear, Preheat, For Use With Starters	50, 176, 177	174		
	55	21.3	542	15885 GBX55/UVC/2G11	25 2G11 4-Pin	101	0.55	17	8000	Clear, Preheat, For Use With Starters	50, 176, 177	174		

Percent Irradiance



Lamp stocking color code: EU Only, EU and NA, NA Only

Relative UV Maintenance





Incandescent/Quartz Heat Lamps

FEATURES

- Near-infrared source, superior in efficiency to far-infrared such as nichrome wire or metal sheath systems
- Available in conventional incandescent sockets with built-in reflectors
- For industrial applications, highly efficient tubular quartz is widely used in ovens
- Radiating filament length provided for tubular quartz heat lamps

APPLICATIONS

- Product Heating
- Product Baking
- Product Drying
- Product Testing
- Area and Outdoor Heating
- Livestock Farming
- Indoor/Outdoor Spot Heating

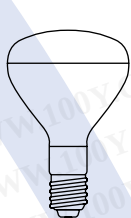


Fig. 150

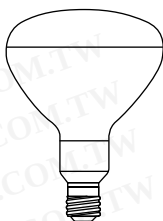


Fig. 175



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	Lumens	MOL (in)	Life (hrs)	Burn Position	Additional Information	Footnotes	Figure Number
R40 Incandescent Heat														
125	120	48069	125R40/1 6PK	30	R40	Med	C-9	6.56	5000			Clear Face	181	150
250	120	37770	250R40/1 6PK	30	R40	Med	C-9	2200	6.56	5000		Clear Face	181	150
		46881	250R40/1/CVG	30	R40	Med	C-9	2150	6.56	5000		Clear-covRguard®. Food Warming	181	150
		47724	250R40/1/STG	30	R40	Med	C-9	2150	6.56	5000		Clear-Saf-T-Gard®. Food Warming	181	150
		20724	250R40/4	24	R40	Med Skirt	C-9	7.43	5000			Industrial-Light I.F.	181	175
		37771	250R40/10 6PK	30	R40	Med	C-9		6.56	5000		Chill Chaser. Red, HRG	181	150
375	115	21331	375R40	24	R40	Med Skirt	C-9		7.37	5000	BU	Industrial-Light I.F.	181	175
		21334	375R40/1	24	R40	Med Skirt	C-9		7.5	5000	BU	Industrial-Clear Face	181	175
		21336	375R40/10	24	R40	Med Skirt	C-9		7.5	5000	BU	Industrial-Red Bowl	181	175

Incandescent/Quartz Heat

SECTION 9

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

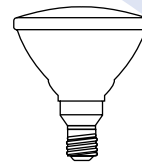


Fig. 116

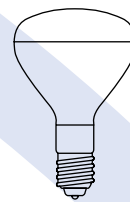


Fig. 150

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	Lumens	MOL (in)	Life (hrs)	Burn Position	Additional Information	Footnotes	Figure Number
High Volt Incandescent Heat														
100	240	92060	100PAR/IR/E27	10	PAR38	E27				5000				116
150	240	91541	150PAR/IR/E27	10	PAR38	E27				5000				116
		28720	150R/IR/CL/E27	9	R40	E27				5000		Clear Face		150
		91372	150R/IR/R/E27	10	R40	E27				5000		Red Face		150
		91288	150R/IR/SA/E27	10	R40	E27				5000		Satin Face		150
175	240	91542	175PAR/IR/E27	10	PAR38	E27				5000				116
250	240	28724	250R/IR/CL/E27	9	R40	E27				5000		Clear Face		150
		91391	250R/IR/R/E27	10	R40	E27				5000		Red Face		150
		91390	250R/IR/SA/E27	10	R40	E27				5000		Satin Face		150
275	240	32569	275R/IR/CL/E27	9	R40	E27				5000		Clear Face		150
		32296	275R/IR/SA/E27	9	R40	E27				5000		Satin Face		150

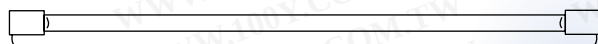


Fig. 176

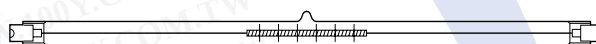


Fig. 177

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	Lighted Length (in)	MOL (in)	MOL (mm)	Life (hrs)	Color Temp.	Burn Position	Additional Information	Footnotes	Figure Number
Tubular Quartz Heat																
300	120	39019	QH300T3/CL	12	T3	Slv	C-8	4	8.5	215.0	5000	2400 H			159	176
375	120	21337	QH375T3/CL	12	T3	Slv	C-8	5	8.8	223.8	5000	2400 H			159	176
		38893	QH375T3/CL/7	12	T3	R7s	C-8	5	8.8	220.5	5000	2400 H			159	177
500	120	21788	QH500T3/CL	12	T3	Slv	C-8	5	8.8	223.8	5000	2400 H		Clear	159	176
		21787	QH500T3/CL/7	12	T3	R7s	C-8	5	8.8	220.5	5000	2400 H			159	177
1000	210	22355	QH1000T3/CL	12	T3	Slv	C-8	10	13.8	351.0	5000	2400 H			159	176
	240	22357	QH1000T3/CL	12	T3	Slv	C-8	10	13.8	351.0	5000	2400 H			159	176
		22358	QH1000T3/CL/1	12	T3	Slv	C-8	10	11.9	301.0	5000	2400 H		Clear	159	176
		22365	QH1000T3/2CL/HT	12	T3	Slv	C-8	10	13.8	351.0	5000	2400 H		Clear, High Temp, Constr.	159	176
1200	144	22531	QH1200T3/CL	12	T3	Slv	C-8	6	8.8	223.8	5000	2450 H		Clear	159	176
		22532	QH1200T3/CL/HT	12	T3	Slv	C-8	6	8.8	223.8	5000	2450 H		Clear, High Temp, Constr.	159	176
1600	210	22686	QH1600T3/CL	12	T3	Slv	C-8	16	19.8	503.0	5000	2350 H			159	176
		22699	QH1600T3/CL/7	12	T3	R7s	C-8	16	19.8	498.4	5000	2350 H			159	177
240		22688	QH1600T3/CL	12	T3	Slv	C-8	16	19.8	503.0	5000	2400 H		Clear	159	176
		22691	QH1600T3/CL/7	12	T3	R7s	C-8	16	19.8	498.4	5000	2400 H			159	177
277		22695	QH1600T3/CL	12	T3	Slv	C-8	16	19.8	503.0	5000	2400 H			159	176

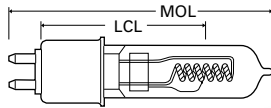


Fig. 8

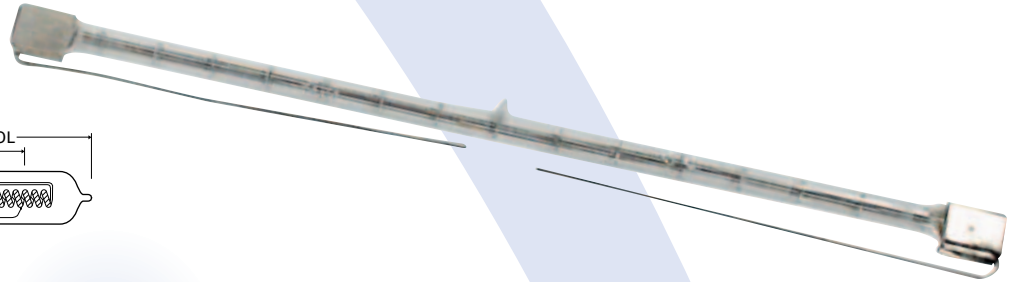


Fig. 176

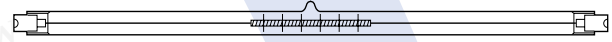


Fig. 177

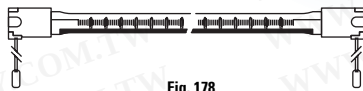


Fig. 178

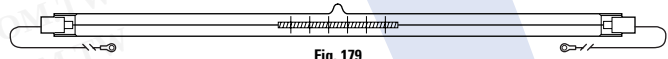


Fig. 179

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	Lighted Length (in)	MOL (in)	MOL (mm)	Life (hrs)	Color Temp.	Burn Position	Additional Information	Footnotes	Figure Number
Tubular Quartz Heat																
2000	225	22790	QH2M/T3/CL/HT	12	T3	Slv	C-8	10	13.8	350.8	5000	2450 H	Clear, High Temp, Constr.		159	176
	230	12716	QH2MT3/CL/HT/R	12	T3	Cer/Slv	C-8	11	13.8	352.5	5000	2450 H	Clear, High Temp Reflector		159	178
		18668	QH2MT3/CL/VB	12	T3	Lead	C-8	11	13.8	350.8	5000	2450 H	Clear		159	179
	240	14202	Q2MT3/CL	12	T3	Lead	C-8	10	13.8		5000	2450 H			159	179
		15551	QH2MT3/1CL/HT/VB	12	T3	Slv	C-8	10	11.9	303.0	5000	2450 A	Clear, High Temp, Constr.		159	176
		22789	QH2M/T3/1CL/HT	12	T3	Slv	C-8	10	11.9	303.0	5000	2450 H	Clear, High Temp, Constr.		159	176
2500	480	22838	QH2500T3/CL	12	T3	Slv	C-8	25	28.8	731.0	5000	2400 H	Clear		159	176
		22837	QH2500T3/CL/7	12	T3	R7s	C-8	25	28.8	727.0	5000	2400 H	Clear		159	177
		20718	QH2500T3/CL/VB	12	T3	Slv	C-8	25	28.8		5000	2400 H			159	176
3200	240	40489	QH3200T3/CL 240V	6	T3	Slv	C-8		41.8	1062.0	5000	2400 H	Clear		159	176
	277	40491	QH3200T3/CL 277V	6	T3	Slv	C-8		41.8	1062.0	5000	2400 H	Clear		159	176
3650	480	10872	QH3650T3/CL/5	6	T3	R7s	C-8	38	41.6	1057.0	5000	2500 H			160	177
3800	575	22875	QH3800T3/CL	6	T3	Slv	C-8	38	41.8	1062.0	5000	2500 H			160	176
		13648	QH3800T3/CL/1	6	T3	Slv	C-8	38	41.8		2000	2500 H			160	176
		22878	QH3800T3/CL/VB	6	T3	Slv	C-8	38	41.8	1062.0	5000	2500 A	Clear		160	176
5000	600	22900	QH5M/T3/1CL/HT	12	T3	Slv	C-8	25	28.8	731.8	5000	2500 H	Clear, High Temp, Constr.		159	176
6000	480	23843	Q6M/T3/CL/HT	12	T3	Wire Lead	C-8	10	11.9		100	3250 H	Clear, High Temp, Constr.		162	179
6600	480	13511	QH6600T3/CL	12	T3	Slv	C-8	10	11.9		150	H	Clear		162	176
Jacketed Tubular Quartz Heat																
500	235	20089	HH210	10		Special	C-6			218	5000		Clear Jacketed			178
		20090	HH599	10		Special	C-6			218	5000		Ruby Jacketed			178
1000	235	20091	HH450	10		Special	C-6			348	5000		Ruby Jacketed			178
1500	235	20092	HH451	10		Special	C-6			348	5000		Ruby Jacketed			178
2000	235	20093	HH804	10		Special	C-6			348	5000		Ruby Jacketed			178
Single-Ended Quartz Heat																
1000	120	37635	TPL1000	24	T-6	G9.5	C-8	19		100	450	3100 ANY	Thermal Processing		159	8
	240	17530	TPL1000	24	T-6	G9.5	C-8	19		105	450	3200 ANY	Thermal Processing		159	8



SECTION 10 Non-Automotive Transportation

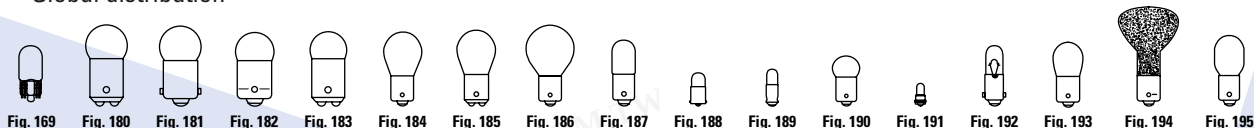
Aircraft

FEATURES

- Miniature and sealed beam for commercial, business, military and pleasure aircraft
- Identified by ANSI number code (Description)
- Incandescent, Halogen and Fluorescent lamps designed/ approved by aircraft manufacturers
- Global distribution

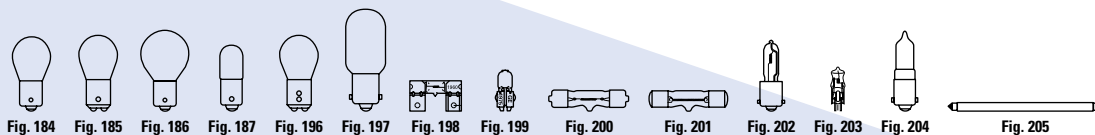
APPLICATIONS

- Landing Lights
- Taxiing
- Instrument
- Wing Tip Markers
- Indicators
- Emergency Exit
- Wing Inspection
- Logo Lighting
- Reading Lamps
- Interior Cabin



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	MSCP	AMPS	Life (hrs)	Additional Information	Footnotes	Figure Number
Aircraft – Miniature - Sorted by ANSI Lamp Description															
4.4	7	25643 64		50	G-6	D.C. Bayonet	C-2R	0.75	1.44	3	0.63	1000			180
6.6		6.525736 81		50	G-6	S.C. Bayonet	C-2R	0.75	1.44	6	1.02	500			181
4.8	28	26112 301		50	G-5	S.C. Bayonet	C-2F	0.69	1.25	3	0.17	500			182
4.8	28	26120 302		50	G-5	D.C. Bayonet	C-2F	0.69	1.25	3	0.17	500			183
8.4	28	26127 303		50	G-6	S.C. Bayonet	C-2F	0.75	1.44	6	0.3	500			181
8.4	28	26136 304		50	G-6	D.C. Bayonet	C-2F	0.75	1.44	6	0.3	500			180
14.3	28	26143 305		50	S-8	S.C. Bayonet	C-2V	1.12	2	15	0.51	300			184
14.3	28	26145 305AF		50	S-8	S.C. Bayonet	C-2V	—	2	—	0.51	300	All frosted		184
14.3	28	26152 306		50	S-8	D.C. Bayonet	C-2V	1.12	2	15	0.51	300			185
18.8	28	26157 307		50	S-8	S.C. Bayonet	C-2V	1.12	2	21	0.67	300			184
18.8	28	26161 307AF		50	S-8	S.C. Bayonet	C-2V	—	2	21	0.67	300	All frosted		184
18.8	28	26168 308		50	S-8	D.C. Bayonet	C-2V	1.12	2	21	0.67	300			185
18.8	28	26171 308AF		50	S-8	D.C. Bayonet	C-2V	—	2	—	0.67	300	All frosted		185
25.2	28	26175 309		10	S-11	S.C. Bayonet	C-2V	1.25	2.38	32	0.9	300			186
36.1	28	26191 311		10	S-11	S.C. Bayonet	C-2V	1.25	2.38	50	1.29	300			186
4.8	28	26212 313		50	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	3.5	0.17	500			187
25.2	28	26238 315		50	S-8	S.C. Bayonet	C-2V	1.12	2	32	0.9	300			184
4.2	6	26243 316		50	T-3 1/4	Miniature Bayonet	C-2R	0.62	1.19	3.4	0.7	500			187
1.1	28	28519 327		50	T-1 1/4	S.C. Midget Flanged	C-2F	0.38	0.63	0.34	0.04	4000		113	188
1.2	6	28546 328		50	T-1 1/4	S.C. Midget Flanged	C-2R	0.38	0.63	0.34	0.2	1000		99	188
1.1	14	28567 330		50	T-1 1/4	S.C. Midget Flanged	C-2F	0.38	0.63	0.5	0.08	1500			188
1.1	28	28588 334		50	T-1 1/4	Midget Grooved	C-2F	0.38	0.63	0.34	0.04	4000		113	189
4.8	28	26255 356		50	G-3 1/2	Miniature Bayonet	C-2F	0.5	0.94	3.5	0.17	500		103	190
2.8	28	38918 400		50	T-3 1/4	Wedge	C-2F	0.56	1.06	1.6	0.1	1000			169
4.8	28	39645 464		50	T-3 1/4	Wedge	C-2F	0.56	1.06	3	0.17	1500			169
0.3	5	28706 685 Bulk		1000	T-1	Sub-Midget Flanged	C-2R	0.19	0.38	0.05	0.06	40000		113	191
14.3	28	43132 705		50	S-8	S.C. Bayonet	CC-6	1.12	2	15	0.51	900			184
12.0	6	11014 767		20	T-2 1/4	Miniature Bayonet	C-6	0.56	1.13	19	2	50	Instrument	76	192
19.9	28	27032 1203		10	S-8	S.C. Bayonet	C-2V	1.25	2	21	0.71	400			184
15.7	28	12824 1308		50	B-6	S.C. Bayonet	CC-8	1.06	1.75	16	0.56	2000	Reading		193
14.6	28	27118 1309		50	B-6	S.C. Bayonet	2C-2R	1.06	1.75	15	0.52	300			193
2.5	2.532098	1315		50	G-5	S.C. Bayonet	C-6	0.69	1.25	1.75	1	20	Emergency Lighting	118	182
3.1	6	34265 1317		50	B-6	S.C. Bayonet	C-6	1.12	1.75	3.4	0.51	100	Emergency Lighting	118	193
20.0	13	27150 1383		10	R-12	S.C. Bayonet	C-8	—	2.63	—	—	300	Reading Lamp		194
20.0	28	27154 1385		10	R-12	S.C. Bayonet	CC-8	—	2.63	—	—	300	Reading Lamp		194
8.4	28	27392 1495		10	T-4 1/2	Miniature Bayonet	C-2F	0.62	1.38	6	0.3	500		103	195
8.4	28	44842 1495X		10	T-4 1/2	Miniature Bayonet	C-2F	0.62	1.38	6	0.3	500	Gas filled		195
17.1	28	40943 1591		10	S-8	S.C. Bayonet	C-2V	1.12	2	15	0.61	1000		102	184
17.1	28	40945 1591AF		50	S-8	S.C. Bayonet	C-2V	—	2	—	0.61	1000	All frosted	102	184

Non-Automotive Transportation SECTION 10



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	MSCP	AMPS	Life (hrs)	Additional Information	Footnotes	Figure Number
Aircraft – Miniature - Sorted by ANSI Lamp Description (Continued)															
28	28	27529 1662	10 S-8 D.C. Index	10	S-8	D.C. Index	CC-6	1.25	2	32	.93A	400		102, 104, 107	196
28	28						C-2V			6	.34A	1000			
22.4	28	27532 1665	50 S-8 S.C. Bayonet	50	S-8	S.C. Bayonet	C-2V	1.12	2	21	0.8	1000		102	184
22.4	28	27533 1665AF	50 S-8 S.C. Bayonet	50	S-8	S.C. Bayonet	C-2V	—	2	—	0.8	1000	All frosted	102	184
24.6	6	27548 1680	10 S-8 S.C. Bayonet	10	S-8	S.C. Bayonet	C-6	1.25	2	32	4.1	300			184
24.6	6	33995 1680X	10 S-8 S.C. Bayonet	10	S-8	S.C. Bayonet	C-6	1.25	2	32	4.1	300			184
28.6	28	27557 1683	50 S-8 S.C. Bayonet	50	S-8	S.C. Bayonet	2C-6	1.25	2	32	1.02	500	Series filament		184
17.1	28	27566 1691	50 S-8 S.C. Bayonet	50	S-8	S.C. Bayonet	2C-2R	1.12	2	15	0.61	1000	Series filament		184
17.1	28	27568 1691AF	50 S-8 S.C. Bayonet	50	S-8	S.C. Bayonet	2C-2R	—	2	—	0.61	1000	All frosted		184
17.1	28	27571 1692	10 S-8 D.C. Bayonet	10	S-8	D.C. Bayonet	2C-2R	1.12	2	15	0.61	1000	Marine		185
19.5	12.8	27630 1777	10 S-8 S.C. Bayonet	10	S-8	S.C. Bayonet	C-2R	1.12	2	26	1.52	400	Tail Light		184
4.1	24	27707 1818	50 T-3 ¼ Miniature Bayonet	50	T-3 ¼	Miniature Bayonet	C-2F	0.62	1.19	3.3	0.17	250		126	187
1.1	28	27711 1819	50 T-3 ¼ Miniature Bayonet	50	T-3 ¼	Miniature Bayonet	C-2F	0.62	1.19	0.34	0.04	2500	Indicator		187
2.8	28	27727 1820	50 T-3 ¼ Miniature Bayonet	50	T-3 ¼	Miniature Bayonet	C-2F	0.62	1.19	1.6	0.1	1000	Indicator		187
2.0	28	27776 1829	50 T-3 ¼ Miniature Bayonet	50	T-3 ¼	Miniature Bayonet	C-2F	0.62	1.19	1	0.07	1000	Indicator		187
0.6	28	27816 1843	50 T-3 ¼ Miniature Bayonet	50	T-3 ¼	Miniature Bayonet	C-2F	0.62	1.19	0.2	0.022	3000	Indicator	104	187
4.8	28	27862 1864	50 T-3 ¼ Miniature Bayonet	50	T-3 ¼	Miniature Bayonet	C-2F	0.62	1.19	3	0.17	1500			187
5.6	28	40383 1873	50 T-3 ¼ Miniature Bayonet	50	T-3 ¼	Miniature Bayonet	C-2F	0.62	1.19	3	0.2	7000			187
50.1	28	34021 1939X	10 T-7 S.C. Bayonet	10	T-7	S.C. Bayonet	C-2V	1.25	2.16	70	1.79	300	Marker	102, 103	197
50.0	14	28008 1940	10 T-7 S.C. Bayonet	10	T-7	S.C. Bayonet	C-8Z	1.25	2.16	75	3.57	300	Marker	103	197
50.0	14	45087 1944X	10 T-7 S.C. Bayonet	10	T-7	S.C. Bayonet	C-8Z	1.25	2.25	75	3.57	300	Silver Contact-Fil. Oriented	103	197
250.0	28	18617 1946	10 T-3 Two Pin with Leads	10	T-3	Two Pin with Leads	CC-6	0.87	1.46	660		50		74	
150.0	28	28011 1958	10 T-4 Tab	10	T-4	Tab	CC-8	0.75	2.25	250		300		74	198
25.0	28	28034 1968	10 T-3 Double Slide	10	T-3	Double Slide	C-2V	0.41	1.17	15		500	Gunsight	74, 102	199
100.0	28	28036 1970	10 T-3 Special Sleeve	10	T-3	Special Sleeve	CC-8	—	2.25	150		1000		102	200
100.0	28	41938 1970X	10 T-3 Special Sleeve	10	T-3	Special Sleeve	CC-8	—	2.25	140		1000		74, 102	200
100.0	10	38545 1978X	10 T-3 Special	10	T-3	Special	C-8	—	2.15	130		2000	Navigation	74	201
75.0	28	38627 1982	10 T-3 S.C. Bayonet	10	T-3	S.C. Bayonet	CC-8	1.06	1.88	110		1000	Navigation	74, 102	202
75.0	28	21061 1982SP	10 T-3 S.C. Bayonet	10	T-3	S.C. Bayonet	CC-6	1	1.97	107		2000		74	202
100.0	10	39718 1983	10 T-4 Two Pin	10	T-4	Two Pin	C-8	1.25	1.8	130		2000	Navigation	74	203
250.0	28	44717 1986	10 T-4 Wire Terminal	10	T-4	Wire Terminal	CC-6	1.03	2	600		100		74	
150.0	28	47695 1987	10 T-4 D.C. Bayonet	10	T-4	D.C. Bayonet	CC-6	1.18	2.44	240		700		74	
100.0	10	38535 1988	10 T-3 Special Wire Leads	10	T-3	Special Wire Leads	C-8	—	2.15	130		2000	Gunsight	74	
10.0	12	26697 2059	10 T-2 ½ Miniature Bayonet	10	T-2 ½	Miniature Bayonet	C-8	0.59	1.3	9.1	0.833	4000	Reading Lamp	74	204
10.0	12	26698 2059X	10 T-2 ½ Miniature Bayonet	10	T-2 ½	Miniature Bayonet	C-8	0.59	1.3	8	0.833	4000	Reading Lamp	74	204
18.0	28	34763 2232	50 S-8 S.C. Bayonet	50	S-8	S.C. Bayonet	CC-8	1.19	2	18	0.643	2000			184
18.0	28	26702 2232LL	50 S-8 S.C. Bayonet	50	S-8	S.C. Bayonet	CC-8	1.19	2	18	0.643	4000	Long Life		184
18.0	28	43134 2232SB	10 S-8 S.C. Bayonet	10	S-8	S.C. Bayonet	CC-8	1.19	2	—	0.643	2000	Reflectorized		184
21.4	28	36906 2233	10 S-8 S.C. Bayonet	10	S-8	S.C. Bayonet	CC-8	1.19	2	21	0.766	2000			184
200.0	28	19792 2556 BULK	100 T-3 Two Pin	100	T-3	Two Pin	CC-6	0.87	1.46	525		50		74	
250.0	28	19566 2586 BULK	100 T-4 Two Pin with Leads	100	T-4	Two Pin with Leads	CC-6	1.3	1.9	600		100		74	
36.1	28	36508 3011	10 S-11 S.C. Bayonet	10	S-11	S.C. Bayonet	C-2V	1.25	2.38	44	1.29	1000		102	186
100.0	10	14698 3078	10 T-3 Special	10	T-3	Special	C-8	—	2.15	95		4500	Navigation	74	201
4.0	A.C.	28154 5004CW	24 T-5 Miniature Pinless	24	T-5	Miniature Pinless		6	11.9			7500	Cool White	106, 127, 130	205
4.0	A.C.	28155 5004WW	24 T-5 Miniature Pinless	24	T-5	Miniature Pinless		6	11.1			7500	Warm White	106, 127, 130	205
8.0	A.C.	28160 5008CW	24 T-5 Miniature Pinless	24	T-5	Miniature Pinless		12	35.4			7500	Cool White	106, 127, 130	205
8.0	A.C.	28163 5008WW	24 T-5 Miniature Pinless	24	T-5	Miniature Pinless		12	34.6			7500	Warm White	106, 127, 130	205
13.0	A.C.	28168 5013CW	24 T-5 Miniature Pinless	24	T-5	Miniature Pinless		21	65.2			7500	Cool White	106, 127, 130	205

SECTION 10 Non-Automotive Transportation



Fig. 201

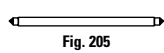


Fig. 205

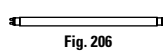


Fig. 206

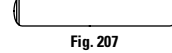


Fig. 207

Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	MSCP	AMPS	Life (hrs)	Additional Information	Footnotes	Figure Number
Aircraft – Miniature - Sorted by ANSI Lamp Description (Continued)															
13.0	A.C.	28169 5013WW	24 T-5	Miniature Pinless				21	62.8			7500	Warm White	106, 127, 130	205
4.0	A.C.	27367 5104CW	24 T-5	Miniature Bi-Pin				6	11.9			7500	Cool White	106, 127, 130	206
4.0	A.C.	28173 5104WW	24 T-5	Miniature Bi-Pin				6	11.1			7500	Warm White	106, 127, 130	206
6.0	A.C.	12774 5106CW	24 T-5	Miniature Bi-Pin				9	24.7			7500	Cool White	106, 127, 130	206
6.0	A.C.	33612 5106WW	24 T-5	Miniature Bi-Pin				9	23.9			7500	Warm White	106, 127, 130	206
8.0	A.C.	27466 5108CW	24 T-5	Miniature Bi-Pin				12	35.4			7500	Cool White	106, 127, 130	206
8.0	A.C.	28175 5108WW	24 T-5	Miniature Bi-Pin				12	34.6			7500	Warm White	106, 127, 130	206
13.0	A.C.	12775 5113CW	24 T-5	Miniature Bi-Pin				21	65.2			7500	Cool White	106, 127, 130	206
13.0	A.C.	28178 5113WW	24 T-5	Miniature Bi-Pin				21	62.8			7500	Warm White	106, 127, 130	206
50.0	28	26696 A-103	10 T-3	Special			CC-8	—	1.87	60		1000	Navigation	74	201
20.0	28	12571 ML20/OF-28	48 T-8	Disk			2C-8	—	5.75	—		500	Lumiline. Frosted	101	207

Aircraft Sealed Beam

FEATURES

- PAR36, 46, 56, 64 sizes
- Identified by ANSI description
- In Incandescent and Quartzline® Halogen (Q prefix)
- Sorted by PAR size

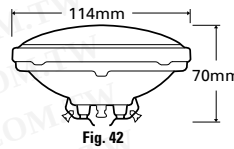


Fig. 42

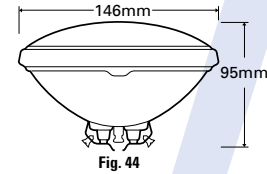
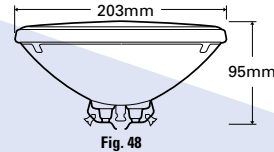
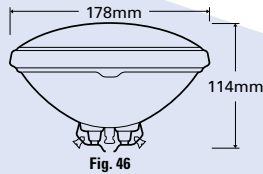
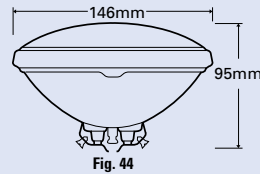


Fig. 44



Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	MBCP	10% Spread H	10% Spread V	Life (hrs)	Application	Footnotes	Figure Number
PAR36															
50	28.0	24873 4589	12 PAR36	Screw Terminals			CC-6	2.75	5000	Trapezoidal		400	Cockpit Flood, C.I.M.		42
		23509 4589-1 Bulk	60 PAR36	Slip-On Terminals			CC-6	2.75	5000	Trapezoidal		400	Cockpit Flood, C.I.M.		
		24887 4593	12 PAR36	Screw Terminals			CC-6	2.75	1500	80	30	400	In-Air Refueling		42
		24640 4505	12 PAR36	Screw Terminals			CC-6	2.75	45000	11	5	400	Navigation		42
100	13.0	22109 Q4509	12 PAR36	Screw Terminals			C-8	2.75	140000	7	7	100	Landing	71	42
		24650 4509	12 PAR36	Screw Terminals			C-6	2.75	110000	12	6	25	Landing Spotlight		42
		24892 4595	12 PAR36	Screw Terminals			C-6	2.75	60000	14	6	300	Navigation		42
	28.0	24966 4627	12 PAR36	Screw Terminals			CC-6	2.75	3000	80	30	300	Flood		42
		24882 4591	12 PAR36	Screw Terminals			CC-6	2.75	90000	12	6	25	Landing		42
		24891 4594	12 PAR36	Screw Terminals			CC-6	2.75	70000	13	7	300	Navigation		42
150	28.0	45427 4713	12 PAR36	Screw Terminals			2C-6	2.75	4200	50	65	300	Logo		42
		24964 4626	12 PAR36	Screw Terminals			CC-6	2.75	25000	40	9	300	Taxiing		42
250	13.0	25051 4313	12 PAR36	Screw Terminals			CC-6	2.75	140000	16	7	25	Landing	72	42
		34537 Q4631	12 PAR36	Screw Terminals			CC-6	2.75	80000	13	12	500	Landing, Wing Inspection	71	42
		39112 Q4632	12 PAR36	Screw Terminals			CC-6	2.75	75000	14	12	500	Logo	71	42
	28.0	24898 4596	12 PAR36	Screw Terminals			CC-8	2.75	150000	11	12	25	Landing	72	42
		24867 4587	12 PAR36	Screw Terminals			CC-8	2.75	40000	40	13	25	Taxiing	72	42
PAR46															
100	13.0	24742 4537	12 PAR46	Screw Terminals			C-6	3.13	200000	11	6	25	Landing		44
150	28.0	24828 4570	12 PAR46	Screw Terminals			CC-6	3.75	32000	50	9	300	Taxiing		44
250	13.0	24700 4522	12 PAR46	Screw Terminals			C-2	3.13	290000	12	10	25	Landing	115, 124	44
	28.0	24795 4551	12 PAR46	Screw Terminals			CC-6	3.75	75000	50	10	25	Taxiing	124	44
250	28.0	19628 4532	12 PAR46	Screw Terminals			CC8	3.75	75M	12	19	100			44
150	28.0						C2V		14500	16	19	100			
250	28.0	24799 4553	12 PAR46	Screw Terminals			CC-8	3.13	300000	11	12	25	Landing	124	44
		41452 Q5551	12 PAR46	Screw Terminals			CC-6	3.32	60000	48	12	100	Taxiing	71	44



Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	MBCP	10% Spread H	10% Spread V	Life (hrs)	Application	Footnotes	Figure Number
PAR46 (Continued)															
450	16.5	33284 4635	12 PAR46 Screw Terminals				C-8	3.75	325000	14	15	25	Landing	72	44
	28.0	24859 4580	12 PAR46 Screw Terminals				CC-8	3.75	400000	13	14	10	Landing	72	44
		24862 4581	12 PAR46 Screw Terminals				CC-8	3.13	400000	13	14	10	Landing	72	44
		24853 4582	12 PAR46 Screw Terminals				CC-8	3.75	20000	50	55	10	Helicopter Flood	72	44
		24802 4554	12 PAR46 Screw Terminals				CC-8	3.13	90000	50	16	25	Taxiing	72	44
		37706 04554	12 PAR46 Screw Terminals				CC-6	2.63	65000	50	11	100	Taxiing	71	44
		41097 04566	12 PAR46 Screw Terminals				CC-6	3.32	150000	16	12	1000	Logo Light	71	44
		37372 04597	12 PAR46 Screw Terminals				CC-6	3.32	16000	60	35	1000	Flood	71	44
		36271 04681	12 PAR46 Screw Terminals				CC-6	2.63	310000	15	9	50	Landing	71	44
PAR56															
450	28.0	24756 4541	12 PAR56 Screw Terminals				C-13	4.5	470000	15	11	25	Landing	72	46
PAR64															
250	28.0	40576 4552	12 PAR64 Screw Terminals				CC-8	3.75	500000	7	8	25	Landing	124	48
600	28.0	40578 4559	12 PAR64 Screw Terminals				CC-6	3.75	600000	11	12	25	Landing	124	48
		40579 04559	12 PAR64 Screw Terminals				CC-6	3.75	600000	12	8	100	Landing	71, 124	48
		42552 04559X	12 PAR64 Screw Terminals				CC-6	3.75	765000	11	7 1/2	100	Landing	71, 125	48
		40577 04629	12 PAR64 Screw Terminals				CC-6	4.81	20000	55	35	1000	Logo Light	71	48
		16784 05559	12 PAR64 Screw Terminals				CC-6	3.75	650000	11	7 1/2	200	Landing	71, 124	48
1000	28.0	40581 4557	12 PAR64 3 Screw Terminals				CC8	3.75	540M	11	15	25	Landing/	72, 124	
400	28.0						CC6		100M	25	11	100	Taxiing		
1000	28.0	16152 5557	12 PAR64 3 Screw Terminals				CC8	3.75	540M	11	15	50	Landing/	72, 124	
400	28.0						CC6		100M	25	11	100	Taxiing		
1000	115.0	40583 4555	12 PAR64 Screw Terminals				C-13	3.75	600000	20	11	25	Landing	72, 124	48

Specialty Sealed Beam

FEATURES

- Rectangular (140mm, 150mm, 165mm sizes) and round (PAR36, 46, 56) sizes
- Incandescent and Halogen (prefix H) technologies
- Clear and colored (suffix A, R, Y) lenses
- Sealed glass parts, which tolerate moisture, salt, time better than metal composite lamps
- Sorted by task, then bulb size, then watts

APPLICATIONS

- Heavy Truck Fog/Driving Lamps
- Military Vehicle Headlamps
- Forklift
- Construction/Industrial Equipment
- Fire, Ambulance, Police Vehicles
- Tractor, Combine Lighting

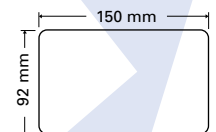


Fig. 114

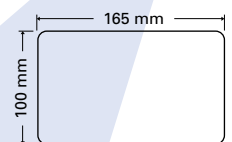


Fig. 115

Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	MBCP	10% Spread H	10% Spread V	Life (hrs)	Application	Footnotes	Figure Number
Truck/Bus Fog/Driving Lamps – 150mm															
37.5	12.8	16484 H9415	12 150mm 2 Right Angle Lugs				C-6	3	12000	45	5	200	Fog	77, 98	114
		17988 H9415A	12 150mm 2 Right Angle Lugs				C-6	3	–	45	5	200	Fog Amber	77, 98	114
50	12.8	16976 H9420	12 150mm 2 Right Angle Lugs				C-6	3	47000	15	5	200	Auto, Driving	77, 98	114
		16482 H9421	12 150mm 2 Right Angle Lugs				C-6	3	4000	45	8	200	Truck, Special Service	77, 98, 116	114
Truck/Bus Fog/Driving Lamps – 165mm															
50	12.8	45110 4912-1	12 165mm Slip-on Terminals				C-6	4.53	14000	40	7	300	Truck Fog	77	115
		13426 H7921-1 Bulk	16 165mm Slip-on Terminals				C-6	4.53	23900	35	5	200	Truck Special Service	77, 98, 116	115
100	13	45116 4921-1	12 165mm Slip-on Terminals				C-6	4.53	25000	40	7	300	Truck, Special Service	77, 116	115

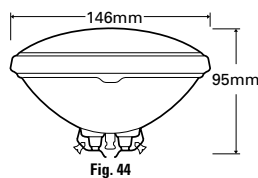
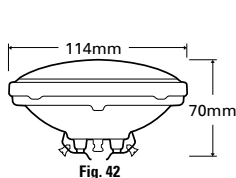


Slip-On Terminals



Right Angle Lugs

SECTION 10 Non-Automotive Transportation



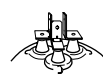
2 Contact Lugs



Screw Terminals



Combination



3 Contact Lugs



3 Screw Terminals

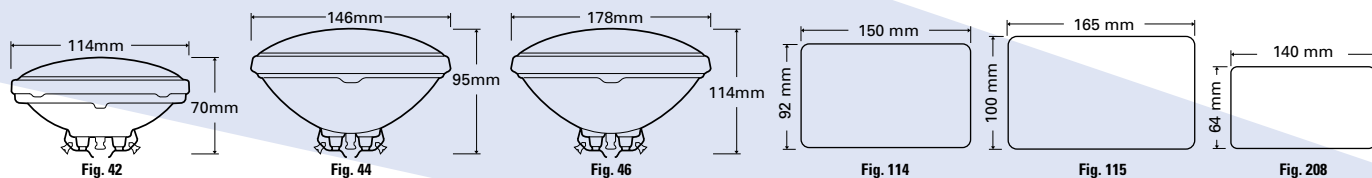


Slip-On Terminals

Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	MBCP	10% Spread H	10% Spread V	Life (hrs)	Application	Footnotes	Figure Number
Truck/Bus Fog/Driving Lamps – PAR36															
35	12.8	22982 4415	12 PAR36 Screw Terminals	C-6	2.75	9000	40	5	300	Fog					42
		24499 4415A	12 PAR36 Screw Terminals	C-6	2.75	7000	40	5	300	Fog, Yellow Lens					42
Truck/Bus Fog/Driving Lamps – PAR46															
35	12.8	24454 4412	12 PAR46 Screw Terminals	C-6	3.75	11000	40	7	300	Fog					44
		24460 4412A	12 PAR46 Screw Terminals	C-6	3.75	8800	40	7	300	Fog, Yellow					44
37.5	12.8	49695 H7612	12 PAR46 Screw Terminals	C-6	3.75	15000	40	7	450	Fog				77	44
40	12.8	24572 4434A	12 PAR46 Screw Terminals	C-6	3.75	1000	55	25	100	Bus Signal, Amber Lens					44
50	12.8	45058 H7621-1 Bulk	24 PAR46 Slip-on Terminals	C-6	3.75	20000	50	7	200	Truck Special Service				77, 98, 116	
100	13	24539 4421	12 PAR46 Slip-on Terminals	C-6	3.75	23000	50	7	300	Truck, Special				116	
Military, Forklift and Construction Equipment (CIM) – PAR36															
50	28.0	24981 4825R	12 PAR36 3 Screw Terminals	C-2V	2.75	200	-	-	200	C.I.M. Stop/Tail Red Lens					
18	28.0			C-2V		40			200						
50	28	12961 4402A	12 PAR36 Screw Terminals	C-6	2.75	1000	50	25	400	CIM Signal					42
		24627 4502	12 PAR36 Screw Terminals	C-6	2.75	10000	40	7	400	Headlamp, Military					42
60	28	44724 4752	12 PAR36 Screw Terminals	2C-6	2.75	2000	50	25	800	C.I.M. Flood					42
	36	39362 4350	12 PAR36 Slip-on Terminals	C-2V	2.75	2100	Trapezoidal		400	Electric Truck Work Light				104	
	80	39366 4340	12 PAR36 Slip-on Terminals	C-2V	2.75	2500	Trapezoidal		400	Electric Truck Work Light				104	
110	28.0	24980 4811	12 PAR36 3 Contact Lugs	CC6	3	SAE			400	Headlamp, Military					
55	28.0			CC6					400						
Military, Forklift and Construction Equipment (CIM) – PAR46															
40	12.5	24726 4531	12 PAR46 Screw Terminals	C-6	3.75	30000	20	5	400	Headlamp, Military					44
60	13	24613 4478	12 PAR46 2 Contact Lugs	2C-6	4	1600	56	32	800	C.I.M. Flood				98	
	28	25005 4578	12 PAR46 2 Contact Lugs	2C-6	4	1600	55	30	800	C.I.M. Flood					
		24995 4880	12 PAR46 2 Contact Lugs	2C-6	4	6000	-	-	800	C.I.M. Headlamp					
80	28.0	25009 4579	12 PAR46 3 Contact Lugs	CC6	4	24M	25	25	400	C.I.M. Headlamp					
60	28.0			CC6		11M	7	7	400						
150	28	24833 4572	12 PAR46 Screw Terminals	CC-6	3.75	4500	55	55	300	Flood, Military					44
		24830 4571	12 PAR46 Screw Terminals	CC-6	3.75	7000	80	25	300	Flood, Special Service					44
Military, Forklift and Construction Equipment (CIM) – PAR56															
50	28.0	24973 4800	12 PAR56 3 Contact Lugs	CC6	5	SAE			400	Headlamp, Military					
40	28.0			CC6					400						
Emergency Vehicle – PAR36															
18	12.8	24478 4414	12 PAR36 Screw Terminals	C-6	2.75	1500	50	25	300	Warning Signal, Garden					42
		24483 4414A	12 PAR36 Screw Terminals	C-6	2.75		50	25	300	Warning, Garden, Amber Lens					42
		24487 4414R	12 PAR36 Screw Terminals	C-6	2.75	275	50	25	300	Warning, Garden, Red Lens					42
		39987 7414Y	12 PAR36 Screw Terminals	C-6	2.75	1000	50	25	300	Signal, Light Yellow Lens					42
30	12.8	24506 4416A	12 PAR36 Screw Terminals	C-6	2.75	26000	11	4	300	Signal, Yellow Lens Cover					42
		24513 4416R	12 PAR36 Screw Terminals	C-6	2.75	4000	11	4	300	Signal, Red Lens Cover					42
35	12.8	40190 7400	12 PAR36 Slip-on Terminals	C-6	2.75	33000	12	5	300	Signal, Rotating Beacon					42
		42385 7400-1 Bulk	60 PAR36 Screw Terminals	C-6	2.75	33000	12	5	300	Signal, Rotating Beacon					42
37.5	12.8	42841 H7600	12 PAR36 Screw Terminals	C-6	2.75	60000	9	4 ½	300	Signal, Rotating Beacon				77	42
100	13	11524 4509Y	12 PAR36 Screw Terminals	C-6	2.75	-	12	6	25	Special Service					42
Emergency Vehicle – PAR46															
35	12.8	24582 4436	12 PAR46 Screw Terminals	C-6	3.75	60000	10	4	300	Signal					44
80	14	19632 4636-3	12 PAR46 Combination	C-6	3.75	90000	9	7 ½	200	Signal					
138	26	24721 4530	12 PAR46 Screw Terminals	4CC-8	3.75	100000	11	11	50	Signal, Flashing					44



Non-Automotive Transportation SECTION 10



Combination



2 Contact Lugs



3 Contact Lugs



Screw Terminals



3 Screw Terminals



Slip-On Terminals



3 Slip-On Terminals

Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	MBCP	10% Spread H	10% Spread V	Life (hrs)	Application	Footnotes	Figure Number
Emergency Vehicle – PAR56															
170	26	25153 6045	12 PAR56 Screw Terminals	CC-6	4.5	230000	9	8	100	Signal					46
Tractor – 140mm															
37.5	12.8	18350 H4360 Bulk	48 140mm 2 Right Angle Lugs	C-6	3	2000	Trapezoidal	320	Tractor					77, 98	208
		41453 H5360 Bulk	48 140mm 2 Right Angle Lugs	C-6	3	2000	Trapezoidal	900	Tractor Work Light					98	208
Tractor – 150mm															
50	12.8	15769 H9406	12 150mm 2 Right Angle Lugs	C-6	3	1350	70	30	400	Tractor, Flood, Halogen				77, 98	114
		15771 H9411	12 150mm 2 Right Angle Lugs	C-6	3	5400	Trapezoidal	400	Tractor, Trapezoidal					77, 98	114
		15772 H9414 Bulk	48 150mm 2 Right Angle Lugs	C-6	3	2700	45	20	400	Tractor Medium Flood				71	114
Tractor – 165mm															
50	12.8	45113 4913-1 Bulk	16 165mm Slip-On Terminals	C-6	4.53	1350	80	20	400	Farm Tractor, Flood				77	115
65	12.8	23250 H7913HIR Bulk	16 165mm 2 Contact Lugs	C-8	4.8	4000	70	20	800	Farm Tractor, Flood Infrared				105	115
Tractor – PAR36															
25	6.4	24654 4510	12 PAR36 Screw Terminals	C-6	2.75	800	80	20	300	Tractor Flood, Emergency				98	42
30	6.2	24663 4511	12 PAR36 Screw Terminals	C-6	2.75	2300	Trapezoidal	300	Tractor					98	42
35	12.8	24430 4406	12 PAR36 Screw Terminals	C-6	2.75	600	80	30	300	Tractor, Flood				98	42
		24439 4410	12 PAR36 Screw Terminals	C-6	2.75	600	80	30	300	Backup Lamp, Tractor Flood				98	42
		24448 4411	12 PAR36 Screw Terminals	C-6	2.75	3000	Trapezoidal	300	Tractor					98	42
		37889 4411-1	12 PAR36 Slip-on Terminals	C-6	2.75	3000	Trapezoidal	300	Tractor					98	
		48032 4411-3 Bulk	60 PAR36 Combination	C-6	2.75	3000	Trapezoidal	300	Tractor					98	
		24542 4422	12 PAR36 Screw Terminals	C-6	2.75	600	75° Cone	300	Tractor					98	42
40	12.8	39932 4440X	12 PAR36 3 Contact Lugs	C-6	3	6000	40	7	320	Tractor				98	
40	12.8			C-6		4500	33	9	320						
40	12.8	39748 4440X-1	12 PAR36 3 Slip-On Terminals	C-6	2.75	6000	40	7	320	Tractor				98	
40	12.8			C-6		4500	33	9	320						
40	12.8	40176 4460X	12 PAR36 3 Screw Terminals	C-6	2.75	6500	22	10	320	Tractor				105	
40	12.8			C-6		5000	22	13	320						
40	12.8	17674 H4460X Bulk	60 PAR36 3 Screw Terminals	C-6	2.75	11000	22	10	320	Tractor				77	
40	12.8			C-6		8500	22	13	320						
50	12.8	14616 H7606	6 PAR36 Screw Terminals	C-6	2.75	1000	80	30	400	Tractor, Flood				77, 98	42
		14618 H7610	6 PAR36 Screw Terminals	C-6	2.75	5200	Trapezoidal	400	Tractor					77, 98	42
60	12.8	24592 4461	12 PAR36 Screw Terminals	C-6	2.75	6000	Trapezoidal	300	Tractor					77, 98	42
		24596 4466	12 PAR36 Screw Terminals	C-6	2.75	1000	80	30	300	Tractor					42
65	12.8	17672 H7607 Bulk	60 PAR36 Screw Terminals	C-6	2.75	1500	Non-symmetrical	600	Tractor Flood					77, 98	42
Tractor – PAR46															
25	6.4	24327 4013	12 PAR46 Screw Terminals	C-6	3.75	800	80	20	300	Tractor, Flood					44
30	6.2	24369 4019	12 PAR46 Screw Terminals	C-6	3.75	1200	Trapezoidal	300	Tractor					98	44
35	12.8	22981 4413	12 PAR46 Screw Terminals	C-6	3.75	1100	80	20	300	Tractor, Flood				77, 98	44
		24531 4419	12 PAR46 Screw Terminals	C-6	3.75	1600	Trapezoidal	300	Tractor					98	44
50	12.8	14617 H7609	6 PAR46 Screw Terminals	C-6	3.75	2200	80	20	400	Tractor Flood				77, 98	44
		14619 H7619	6 PAR46 Screw Terminals	C-6	3.75	6000	Trapezoidal	400	Tractor					77, 98	44

SECTION 10 Non-Automotive Transportation

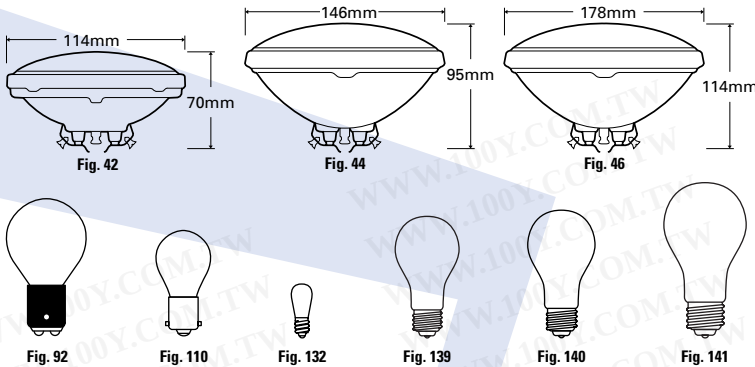
Railway

FEATURES

- Railway signals have low voltage compact filaments and base systems which insure accurate filament positioning
- Reliable sealed PAR lamps are used for locomotive headlamps
- Variety of clear, frosted (IF), and vibration resistant (RS) lamps for steam (34V) and electric/diesel (75V) locomotives

APPLICATIONS

- Railroad Signals
- Locomotives
- Street Cars
- Cab Indicators
- Cab Lighting
- Locomotive Markers



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	MBCP	Life	Additional Information	Footnotes	Figure Number
Railway															
5	34	11182 5S14		120	S14	Med	C-9	2.48	3.5			1000			167
6	30	11331 6S6 24PK		24	S6	Cand	C-2V	1.37	1.87	50		1500	Clear		132
	32	43397 6S6 BB		24	S6	Cand	C-2V	1.37	1.87	50		1500	Clear	60	132
13.5	10	12649 13/3 1/2 S11/95		120	S11	SC Bay	CC-6 C-12	1.25	2.37	180		1000	Clear, Signal, Filament in Multiple	131	110
15	34	12784 15A		120	A15	Med	C-9	2.37	3.56	180		1000	IF	60, 69	152
	75	13188 15S11/3DC		120	S11	DC Bay	C-9	1.25	2.37	138		1000	Clear		92
	34	42590 15S14/FBB		120	S14	Med	C-9	2.5	3.5	144		1000	Frost	60	167
18	10	13659 18/3 1/2S11SC		120	S11	SC Bay	CC-6	1.25	2.37	300		1000	Clear, Signal, Filament in Multiple	131	110
		13655 18S11/1SC		120	S11	SC Bay	CC-6	1.25	2.37	200		2000	Clear- Signal Light	131	110
20	10	19549 20S11/1SC		120	S11	SC Bay	CC-6	1.25	2.37			3000	Signal		110
21.5	10	13644 18/3 5A15/5		120	A15	2-Lug Slv	CC-6	2.21	3.75	235		1500	Clear- Signal, Filament in Multiple	131, 133	209
25	10	14575 25S11/4SC		120	S11	SC Bay	CC-6	1.25	2.37	360		1000	Clear	131	
	34	13784 25A		120	A19	Med	C-9	2.56	3.87	390		1000	IF	69	139
	75	13744 25A15/RS		120	A15	Med	C-9	2.5	3.46	250		1000	IF, RS	69	152
30	75	15012 30S11DC		120	S11	DC Bay	C-7A	1.25	2.37	350		500	Clear-Train Marker Control, BDTH	134	92
		17948 30S11DC/RS		120	S11	DC Bay	C-9	1.25	2.37	300		2000	Clear, RS		92
40	70	72961 40A21/CL		120	A21	Med	C-9	2.9	4.25	510		200		60	140
50	30	16385 50A21		120	A21	Med	C-9	3.43	4.87	805		1000	IF	69	140
	34	16390 50A21		120	A21	Med	C-9	3.43	4.87	805		1000	IF	69	140
	75	16201 50A19/RS/SH		120	A19	Med	C-9	2.5	3.87	545		1000	IF, RS	58, 61, 69	139
60	38	17210 60PAR/1 12PK		12	PAR46	Scrw Term	CC-2V		4.37		30000	800		20, 136	44
		17212 60PAR/2/R		12	PAR46	Scrw Term	CC-2V		3.75			800	Red Lens-Train Warning	20, 136	44
		17207 60PAR 12PK		12	PAR46	Scrw Term	CC-2V		3.75		30000	800		20, 136	44
88	75	39817 88PAR36/FL		12	PAR36	Scrw Term	CC-6		2.75	810		1500	Projector-Train Warning	20	42
100	12	18512 100A23		120	A23	Med	C-6	4.43	5.93	1750		1000	IF	69	141
	34	17904 100A		120	A23	Med	C-9	4.43	5.93	2160		1000	IF	69	141
200	30	20122 200PAR		12	PAR56	Scrw Term	CC-8		4.5	230000		350	Locomotive Headlight	20, 137	46
350	75	19866 350PAR56/SP		12	PAR56	Scrw Term	CC-8		4.5	6200		500	Ditch Light-Locomotive	20, 23, 139	46

Mining Lamps

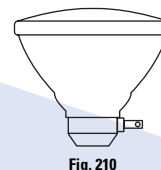
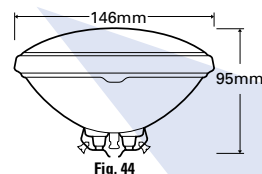


FEATURES

- Designed to last longer than standard lamps, lowering maintenance costs
- Built to withstand shock and vibration for longer effective life with special supported filaments
- For incandescent non-PAR lamps use "Rough Service" lamps in Specialty Incandescent section

APPLICATIONS

- Underground Lighting
- Mining Equipment
(see also CIM Sealed Beams)



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	MOL (in)	Lumens	MBCP	Beam Spread	Life	Color Temp.	Additional Information	Footnotes	Figure Number
Mining Lamps																
65	120	12846	75PAR/3FL/65WM	12	PAR38	Med Sid Pr	CC-6	4.3	675	1750	30	2000	2675	Compact Flood	20, 182	210
		12847	75PAR/3SP/65WM	12	PAR38	Med Sid Pr	CC-6	4.3	675	5900	14	2000	2675	Compact Spot	20, 182	210
75	120	17682	75PAR/3FL/MINE	12	PAR38	Med Sid Pr	CC-6	4.3	765	1750	33	2000	2725	Flood	20, 182	210
		17664	75PAR/3SP/MINE	12	PAR38	Med Sid Pr	CC-6	4.3	765			2000	2725	Spot	20, 182	210
100	12	18822	100PAR38/FL	12	PAR38	Med Sid Pr	C-6	4.3	1400	2200	60	1000		Flood	20, 60, 182	210
120	120	12808	150PAR/3FL/120WM	12	PAR38	Med Sid Pr	CC-6	4.3	1370	3600	30	2000	2725	Watt-Miser®, Flood	20, 182	210
		12810	150PAR/3SP/120WM	12	PAR38	Med Sid Pr	CC-6	4.3	1370	9200	18	2000	2725	Watt-Miser®, Spot	20, 182	210
150	32	19512	150PAR46/1	12	PAR46	Scrw Term	CC-8	3.75	1950	100000		800		Mine Locomotive Headlight	20, 182	44
120		19503	150PAR/3FL/MINE	12	PAR38	Med Sid Pr	CC-6	4.3	1740	3100	36	2000	2775	Flood	20, 144, 182	210
		19487	150PAR/3SP-MINE	12	PAR38	Med Sid Pr	CC-6	4.3	1740	12000	16	2000		Spot	20, 144, 182	210
125		19517	150PAR46	12	PAR46	Scrw Term	C-13	3.75	1250			1000		Mine Locomotive Headlight	20, 182	44
130		19505	150PAR/3FL/MINE	12	PAR38	Med Sid Pr	CC-6	4.3	1740	3100	36	2000		Flood	20, 144, 182	210
		19489	150PAR/3SP/MINE	12	PAR38	Med Sid Pr	CC-6	4.3	1740	12000	16	2000		Spot	20, 144, 182	210

SECTION 10 Non-Automotive Transportation

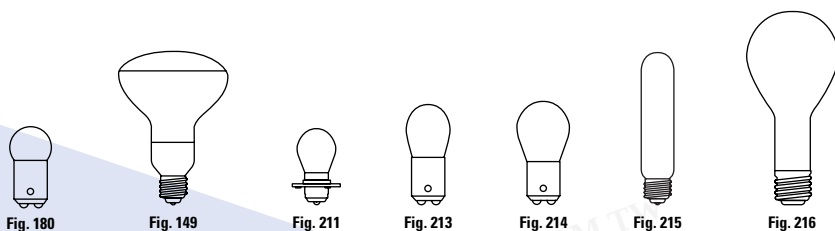
Marine/Boats

FEATURES

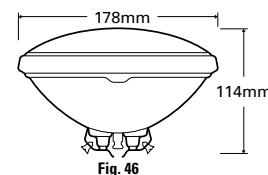
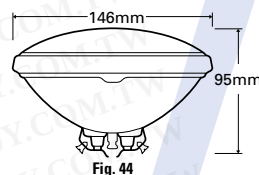
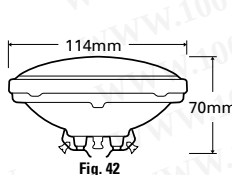
- Marine signal and running lights, spotlamps and searchlights
- Generally dual contact, brass bases for corrosive atmosphere

APPLICATIONS

- Boats
- Ships



Watts	Volts	Order Code	Description	Case Qty.	Bulb	Base	Filament Type	LCL (in)	MOL (in)	Lumens	Life (hrs)	Additional Information	Footnotes	Figure Number
Marine/Boats – Miniature and Incandescent														
12		23478 .55A/S8		100	S8	SC Pf	C-8	1.12	2		500	Clear- Signal. Spiral lead	147	211
12		23501 .77A/S8		100	S8	SC Pf	C-8	1.12	2		500	Clear- Signal. Spiral lead	147	211
5.4	34	27044 1224		50	G-6	D.C. Bayonet	C-2F	0.69	1.44	48	500	.16A	126	180
6.6	6.5	25751 82		50	G-6	D.C. Bayonet	C-2R	0.75	1.44	75	500	1.02A		180
7.5	13	25794 90		50	G-6	D.C. Bayonet	C-2R	0.75	1.44	75	750	.58A		180
8	13.5	25692 68		50	G-6	D.C. Bayonet	C-2R	0.81	1.44	50	5000	.59A	98	180
10.4	28	26567 624		50	G-6	D.C. Bayonet	2C-2V	0.75	1.44	75	1000	.37A		180
12	12.8	26726 1004		50	B-6	D.C. Bayonet	C-6	1.06	1.75	188	200	.94A		213
13.3	12.8	25829 94		50	S-8	D.C. Bayonet	C-6	1.12	2	188	700	1.04A		214
28.5	28	27504 1638		50	S-8	D.C. Bayonet	2C-6	1.25	2	402	500	1.02A		214
50	115	16726 50/50T12		24	T12	3C Med	C-5 C-9	3	5.31	400	750	Clear-2-filament Running Light	60	215
		120 16535 50/50P25/28		60	P25	3C Mog	C-5 C-9	3.31	5.06	400	750	Clear-2-filament Running Light	146	216
110	120	46859 110R30/FL/RS/1		30	R30	Med	C-17		5.375	1080	2000	Reflector Flood. I.F. Rough Service	60, 178, 149	183



Watts	Volts	Order Code	Description	Case Qty.	Bulb Size	Base	Filament Type	MOL (in)	MBCP	10% Spread H	10% Spread V	Life (hrs)	Additional Information	Footnotes	Figure Number
Marine/Boats – Sealed Beams															
100	12	24768 4545	12 PAR56	Screw Terminals	C-6	4.5	225000	9	5	100	Searchlight				46
	12.5	24764 4543	12 PAR56	Screw Terminals	C-6	4.5	250000	9	5	50	Spotlamp				46
	13	41503 4509X	12 PAR36	Screw Terminals	C-6	2.75	110000	12	6	25	Spotlamp				42
		24690 4519	12 PAR36	Screw Terminals	C-6	2.75	30000	40	7	25					42
		39022 4537X	12 PAR46	Screw Terminals	C-6	3.13	200000	11	6	25	Spotlamp				44



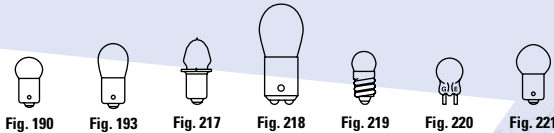
Miniature Low Voltage Indicators and Illuminators

FEATURES

- Low voltage lighting offers increased strength in shock and vibration
- Compact lamps in both Incandescent and Halogen
- Safer low voltage illumination
- Sorted by bulb shape, base

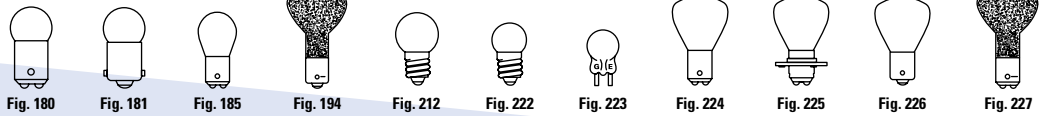
APPLICATIONS

- Battery/Transformer Devices (Except Aircraft and Auto)
- Flashlights and Lanterns
- Medical, Microscopes, Other Instruments
- Emergency Lighting
- Telephone and Other Indicator Lights
- European "H" Halogen Lamps
- Coin Machines, Strip Lighting, Pinball, Toys
- Garden Lighting



Order Code	GE Lamp	Case Qty. BP/* Unit	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL	MOL	Life (hrs)	Footnotes	Figure Number
B-3 1/2 Bulbs – S.C. Miniature Flanged														
22961	KPR102	48*	Flashlight – 2D Krypton	2.4	.70A	1.3	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	15 118		217
23151	KPR104	48*	Flashlight – 2D Krypton	2.2	.47A	0.47	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	15 118		217
23153	KPR113	48*	Flashlight – 4D Krypton	4.8	.75A	4.1	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	20 118		217
23154	KPR118	48*	Flashlight – 6D Krypton	7.2	.55A	5.2	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	15 118		217
25181	PR2	50	Flashlight – 2D Cells	2.38	.50A	0.8	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	15 118		217
25193	PR3	50	Flashlight – 3D Cells	3.57	.50A	1.5	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	15 118		217
12677	PR4	48*	Flashlight – 2C Cells	2.33	.27A	0.4	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	10 118		217
25222	PR6	50	Flashlight – 2D Cells	2.47	.30A	0.45	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	30 118		217
25235	PR7	50	Flashlight – 3D Cells	3.7	.30A	0.9	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	30 118		217
25252	PR12	50	Flashlight – 5D Cells	5.95	.50A	3.1	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	15 118		217
25262	PR13	50	Lantern – 4F Cells	4.75	.50A	2.2	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	15 118		217
25289	PR18	50	Flashlight – 6D Cells	7.2	.55A	5.5	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	3 103, 118		217
B-6 Bulbs – D.C. Bayonet														
25988	210	50	Instrument	6.5	1.78A	15	B-6	D.C. Bayonet	C-6	1.06	1.75	100		218
26726	1004	50	Auto Interior and Marine	12.8	.94A	15	B-6	D.C. Bayonet	C-6	1.06	1.75	200		218
B-6 Bulbs – S.C. Bayonet														
36147	105	50	Auto Interior – Heavy Duty	12.8	1.00A	12	B-6	S.C. Bayonet	C-6	1.06	1.75	500		193
26709	1003	50	Auto Interior	12.8	.94A	15	B-6	S.C. Bayonet	C-6	1.06	1.75	200		193
G-3 1/2 Bulbs – Miniature Bayonet														
25529	51	50	Indicator	7.5	.22A	1	G-3 1/2	Miniature Bayonet	C-2R	0.5	0.94	1000		190
25550	53	50	Auto and Indicator	14.4	.12A	1	G-3 1/2	Miniature Bayonet	C-2V	0.5	0.94	1000		190
44719	265	50	Indicator	28	.08A	0.75	G-3 1/2	Miniature Bayonet	C-2F	0.5	0.94	5000		190
27207	1445	50	Auto / Toy Train Ratings	14.4	.135A	0.7	G-3 1/2	Miniature Bayonet	C-2V	0.5	0.94	2000 102		190
27263	1450	50	Indicator	24	.035A	0.23	G-3 1/2	Miniature Bayonet	C-2F	0.5	0.94	3000		190
G-3 1/2 Bulbs – Miniature Screw														
25331	13	50	Flashlight – 3D Cells	3.7	.30A	0.98	G-3 1/2	Miniature Screw	C-2R	0.72	0.94	15 118		219
25354	14	50	Flashlight – 2D Cells	2.47	.30A	0.5	G-3 1/2	Miniature Screw	C-2R	0.72	0.94	15 118		219
27252	1449	50	Toy Train	14	.20A	2	G-3 1/2	Miniature Screw	C-2V	0.72	0.94	250 102		219
G-3 1/2 Bulbs – Miniature Two Pin														
25312	10	50	Indicator	2.5	.50A	0.5	G-3 1/2	Miniature Two Pin	C-6	0.62	0.94	3000 110		220
25319	12	50	Radio	6.3	.15A	0.35	G-3 1/2	Miniature Two Pin	C-6	0.62	0.94	5000 108, 110		220
25377	19	50	Toy Train	14.4	.10A	0.9	G-3 1/2	Miniature Two Pin	C-6	0.62	0.94	1000 110		220
G-4 1/2 Bulbs – Miniature Bayonet														
25576	55	50	Instrument	7	.41A	2	G-4 1/2	Miniature Bayonet	C-2R	0.56	1.07	500		221
25591	57	50	Auto and Instrument	14	.24A	2	G-4 1/2	Miniature Bayonet	C-2V	0.56	1.07	500		221
32688	293	50	Auto and Radio	14	.33A	2	G-4 1/2	Miniature Bayonet	C-2F	0.56	1.07	7500		221
26441	456	50	Instrument	28	.17A	2	G-4 1/2	Miniature Bayonet	C-2F	0.56	1.07	5000		221
27945	1895	50	Auto, Truck Marker	14	.27A	2	G-4 1/2	Miniature Bayonet	C-2F	0.56	1.07	2000		221

Miniature Low Voltage SECTION 11



Order Code	GE Lamp	Case Qty. BP/Unit	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL	MOL	Life (hrs)	Footnotes	Figure Number
G-4 ½ Bulbs – Miniature Screw														
25388	27	50	Hand Lantern – 4F Cells	4.9	.30A	1.4	G-4 ½	Miniature Screw	C-2R	0.72	1.07	30 118		222
26095	258	50	Toy Train, Flasher Lamp	14	.27A	1.6	G-4 ½	Miniature Screw	C-2R	0.81	1.07	500 97, 111		222
26354	425	50	Hand Lantern – 4F Cells	5	.50A	2.3	G-4 ½	Miniature Screw	C-2R	0.72	1.07	15 118		222
26460	502	50	Hand Lantern – 4F Cells	5.1	.15A	0.6	G-4 ½	Miniature Screw	C-2R	0.72	1.07	100 118		222
26549	605	50	Flashlight – 5D Cells	6.15	.50A	3.4	G-4 ½	Miniature Screw	C-2R	0.72	1.07	15 118		222
G-4 ½ Bulbs – Miniature Two Pin														
25371	15	50	Indicator	7	.40A	2	G-4 ½	Miniature Two Pin	C-6	0.69	1.07	500 110		223
G-4 ½ Bulbs – Miniature Screw														
26485	509K	50	Indicator	24	.18A	2.8	G-6	Candelabra Screw	C-2R	0.75	1.47	1000 73		212
G-6 Bulbs – D.C. Bayonet														
25692	68	50	Auto and Marine	13.5	.59A	4	G-6	D.C. Bayonet	C-2R	0.81	1.44	5000 98		180
25751	82	50	Auto and Marine	6.5	1.02A	6	G-6	D.C. Bayonet	C-2R	0.75	1.44	500		180
25794	90	50	Auto and Marine	13	.58A	6	G-6	D.C. Bayonet	C-2R	0.75	1.44	750		180
26567	624	50	Marine	28	.37A	6	G-6	D.C. Bayonet	2C-2V	0.75	1.44	1000		180
27044	1224	50	Marine	34	.16A	3.8	G-6	D.C. Bayonet	C-2F	0.69	1.44	500 126		180
27097	1252	50	Instrument, filaments in series	28	.23A	3	G-6	D.C. Bayonet	2C-2V	0.75	1.44	2000		180
G-6 Bulbs – Miniature Screw														
25927	157	50	Medical	5.8	1.10A	8.1	G-6	Miniature Screw	C-2R	1	1.22	50 121		212
G-6 Bulbs – S.C. Bayonet														
25652	67	50	Auto	13.5	.59A	4	G-6	S.C. Bayonet	C-2R	0.81	1.44	5000 98		181
25778	89	50	Auto	13	.58A	6	G-6	S.C. Bayonet	C-2R	0.75	1.44	750		181
25836	97	50	Auto – Heavy Duty	13.5	.69A	4	G-6	S.C. Bayonet	C-2V	0.81	1.44	5000 98		181
16287	98	50	Auto, Heavy Duty	13	.62A	6	G-6	S.C. Bayonet	C-2V	0.75	1.44	800		181
26570	631	50	Auto	14	.63A	6	G-6	S.C. Bayonet	2C-2R	0.75	1.44	1000		181
26561	623	50	Instrument	28	.37A	6	G-6	S.C. Bayonet	2C-2V	0.75	1.44	1000		181
26955	1155	50	Auto, Truck Marker	13.5	.59A	4	G-6	S.C. Bayonet	2C-2R	0.81	1.44	5000 98		181
27092	1251	50	Instrument, filaments in series	28	.23A	3	G-6	S.C. Bayonet	2C-2V	0.75	1.44	2000		181
RP-11 Bulbs – D.C. Bayonet														
27026	1196	10	Auto	12.5	3.00A	50	RP-11	D.C. Bayonet	C-2R	1.25	2.25	300 75		224
32147	1062	10	Special Service	40	.92A	50	RP-11	D.C. Bayonet	C-5	1.25	2.25	100 75		224
RP-11 Bulbs – D.C. Prefocus														
28100	2331	10	Instrument	5.9 6.2	4.66A 4.49A	32 32	RP-11	D.C. Pf. (S)	C-6	1.18	2.25	400 75 400		225
RP-11 Bulbs – S.C. Bayonet														
26885	1133	10	Instrument	6.2	3.91A	32	RP-11	S.C. Bayonet	C-2R	1.25	2.25	200 75		226
27021	1195	50	Auto – Nickel-plated base	12.5	3.00A	50	RP-11	S.C. Bayonet	C-2R	1.25	2.25	300 75		226
R-12 Bulbs – D.C. Bayonet														
27159	1388	10	Special Telephone Trouble	24	20W	–	R-12	D.C. Bayonet	CC-8	–	2.63	500		227
R-12 Bulbs – S.C. Bayonet														
27150	1383	10	Auto, Reading Light	13	20W	–	R-12	S.C. Bayonet	C-8	–	2.63	300		194
27154	1385	10	Special Reading Light	28	20W	–	R-12	S.C. Bayonet	CC-8	–	2.63	300		194
S-8 Bulbs – D.C. Bayonet														
25772	88	10	Indicator	6.8	1.91A	15	S-8	D.C. Bayonet	C-6	1.12	2	300		185
25829	94	50	Auto and Marine	12.8	1.04A	15	S-8	D.C. Bayonet	C-6	1.12	2	700		185
26854	1076	50	Auto	12.8	1.80A	32	S-8	D.C. Bayonet	C-6	1.25	2	200		185
26917	1142	50	Auto	12.8	1.44A	21	S-8	D.C. Bayonet	C-6	1.25	2	1000		185
26945	1152	10	Special Service	12.8	1.34A	21	S-8	D.C. Bayonet	C-2R	1.25	2	500		185

SECTION 11 Miniature Low Voltage



Fig. 185



Fig. 196



Fig. 228



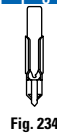
Fig. 229



Fig. 230

Order Code	GE Lamp	Case Qty. BP/*Unit	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL	MOL	Life (hrs)	Footnotes	Figure Number
S-8 Bulbs – D.C. Bayonet (Continued)														
27004	1176	10	Auto Stop, Tail, Signal	12.8 14.0	1.3A .59A	21 6	S-8	D.C. Bayonet	C-6 C-6	1.25	2	300 1500		185
39904	1229	10	Emergency Lighting	40	.38A	15	S-8	D.C. Bayonet	C-2V	1.12	2	400		185
27382	1493	10	Instrument, Microscope	6.5	2.75A	23	S-8	D.C. Bayonet	C-6	1.12	2	100 100		185
27439	1594	10	Instrument, Microscope	6	5.00A	36	S-8	D.C. Bayonet	C-6	1.25	2	250		185
27461	1612	10	Instrument	5.4	1.90A	10	S-8	D.C. Bayonet	C-6	1.25	2	1000 126		185
27504	1638	50	Marine	28	1.02A	32	S-8	D.C. Bayonet	2C-6	1.25	2	500		185
S-8 Bulbs – D.C. Index														
37983	198	50	Truck Stop, Signal	12.8 14.0	2.25A .59A	32 3	S-8	D.C. Index	C-6	1.25	2	1200 117, 126 5000		196
26775	1034	50	Auto Stop Tail Signal	12.8 14.0	1.80A .59A	32	S-8	D.C. Index	C-6	1.25	2	200 5000		196
12297	1154	48*	Auto Stop, Tail, Signal	7 7	2.63A .75A	21 3	S-8	D.C. Index	C-6	1.25	2	200 1000		196
26969	1157	50	Auto Stop, Signal	12.8 14.0	2.10A .59A	32 3	S-8	D.C. Index	C-6 C-6	1.25	2	1200 5000		196
26975	1157NA	50	Auto Stop, Signal. Amber	12.8 14.0	2.10A .59A	24 2.2	S-8	D.C. Index	C-6 C-6	1.25	2	1200 5000		196
44760	2057	50	Auto Stop, Signal	12.8 14.0	2.10A .48A	32 2	S-8	D.C. Index	C-6 C-6	1.25	2	1200 5000		196
44763	2057NA	50	Auto Stop, Signal. Amber	12.8 14.0	2.10A .48A	24 1.5	S-8	D.C. Index	C-6 C-6	1.25	2	1200 5000		196
16291	2357	50	Auto Stop, Signal	12.8 14.0	2.20A .59A	40 3	S-8	D.C. Index	C-6 C-6	1.25	2	400 5000		196
15698	2357NA	50	Auto Stop, Signal. Amber	12.8 14.0	2.20A .59A	30 2.2	S-8	D.C. Index	C-6 C-6	1.25	2	400 5000		196
S-8 Bulbs – D.C. Prefocus (A)														
28310	1460	10	Medical	6.5	2.75A	23	S-8	D.C. Pf. (A)	C-6	1.25	2	100 100		228
37342	1460X	10	Microscope Illuminator	6.5	2.75A	23	S-8	D.C. Pf. (A)	C-6	1.25	2	100 100		228
27488	1630	10	Instrument, Microscope	6.5	2.75A	23	S-8	D.C. Pf. (A)	C-6	1	2	100 100		228
27491	1631X	10	Instrument, Colorimeter	6.5	2.75A	23	S-8	D.C. Pf. (A)	C-6	1	2	100 100		228
27496	1634	10	Instrument, Microscope	20	1.00A	24	S-8	D.C. Pf. (A)	CC-6	1.25	2	200		228
S-8 Bulbs – D.C. Prefocus (S)														
37169	1096	10	Instrument, Microscope	6	4.50A	30	S-8	D.C. Pf. (S)	C-2R	1	2	500		228
27305	1468	10	Medical Instrument	6	4.50A	30	S-8	D.C. Pf. (S)	C-2R	1.25	2	500		228
S-8 Bulbs – Plastic Wedge														
18389	3057	50	Auto Stop, Signal	12.8 14.0	2.10A .48A	32 2	S-8	Plastic Wedge	C-6 C-6	1.1	2.09	1200 5000		229
18391	3057NA	50	Auto Stop, Signal. Amber	12.8 14.0	2.10A .48A	24 1.5	S-8	Plastic Wedge	C-6 C-6	1.1	2.09	1200 5000		229
21863	3156	50	Auto Stop	12.8	2.10A	32	S-8	Plastic Wedge	C-6	1.1	2.09	1200		230
17172	3157	50	Auto Stop, Signal	12.8 14.0	2.10A .59A	32 3	S-8	Plastic Wedge	C-6 C-6	1.1	2.09	1200 5000		229
17173	3157NA	50	Auto Stop, Signal. Amber	12.8 14.0	2.10A .59A	24 2.2	S-8	Plastic Wedge	C-6 C-6	1.1	2.09	1200 5000		229
22525	3357/3457	50	Auto Stop, Signal	12.8 14.0	2.10A .59A	40 3	S-8	Plastic Wedge	C-6 C-6	1.1	2.09	400 5000		229
22526	3457NA	50	Auto Stop, Signal. 3457NA Sub	12.8 14.0	2.10A .59A	30 2.2	S-8	Plastic Wedge	C-6 C-6	1.1	2.09	400 5000		229

Miniature Low Voltage SECTION 11



Order Code	GE Lamp	Case Qty. BP/*Unit	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL	MOL	Life (hrs)	Footnotes	Figure Number
S-8 Bulbs – S.C. Bayonet														
25811	93	50	Auto	12.8	1.04A	15	S-8	S.C. Bayonet	C-6	1.12	2	700		184
37985	199	50	Truck Signal	12.8	2.25A	32	S-8	S.C. Bayonet	C-6	1.25	2	1200	117	184
26838	1073	50	Auto Signal	12.8	1.80A	32	S-8	S.C. Bayonet	C-6	1.25	2	200		184
26872	1129	10	Special Service	6.4	2.63A	21	S-8	S.C. Bayonet	C-6	1.25	2	200		184
26903	1141	50	Auto	12.8	1.44A	21	S-8	S.C. Bayonet	C-6	1.25	2	1000		184
26960	1156	50	Auto Stop	12.8	2.10A	32	S-8	S.C. Bayonet	C-6	1.25	2	1200		184
20248	1156NA	50	Auto Stop. Amber	12.8	2.10A	24	S-8	S.C. Bayonet	C-6	1.25	2	1200		184
22523	1295NA	10	Auto Signal	12.5	3.00A	37	S-8	S.C. Bayonet	C-2R	1.25	2	200		184
27472	1619	10	Instrument	6.7	1.90A	15	S-8	S.C. Bayonet	C-6	1.12	2	500		184
18047	2396	10	Auto Stop	12.8	2.23A	40	S-8	S.C. Bayonet	C-6	1.25	2	400		184
40778	P21W 24V	10	Bus Stop-European (ECE)	28	1.00A	36.6	S-8	S.C. Bayonet	C-6	1.25	2	150		184
S-8 Bulbs – S.C. Prefocused (B)														
27431	1561	10	Instrument, Colorimeter	6.3	4.00A	24	S-11	S.C. Pf. (B)	C-8Z	0.88	2.38	1500		231
T-1 ¾ Bulbs – Bi-Pin M-23														
28926	7387	50	Indicator	28	.04A	0.3	T-1 ¾	Bi-Pin M-23	C-2F	0.5	0.61	7000	113	232
T-1 ¾ Bulbs – Midget Grooved														
28662	386	50	Indicator	14	.08A	0.3	T-1 ¾	Midget Grooved	C-2F	0.38	0.63	40000	113	189
28672	388	50	Indicator	28	.04A	0.3	T-1 ¾	Midget Grooved	C-2F	0.38	0.63	7000	113	189
T-1 ¾ Bulbs – S.C. Midget Flanged														
28653	381	50	Indicator	6.3	.20A	0.4	T-1 ¾	S.C. Midget Flanged	C-2F	0.38	0.63	20000	113	188
28657	382	50	Indicator	14	.08A	0.3	T-1 ¾	S.C. Midget Flanged	C-2F	0.38	0.63	40000	113	188
28660	385	50	Indicator	28	.04A	0.15	T-1 ¾	S.C. Midget Flanged	C-2F	0.44	0.81	10000	112, 113	188
28664	387	50	Indicator	28	.04A	0.3	T-1 ¾	S.C. Midget Flanged	C-2F	0.38	0.63	7000	113	188
T-1 ¾ Bulbs – Wedge														
39220	37	50	Auto	14	.09A	0.5	T-1 ¾	Wedge	C-2F	0.4	0.8	2500		233
43606	70	50	Auto	14	.15A	1.5	T-1 ¾	Wedge	C-2F	0.4	0.8	100	103	233
39218	73	50	Indicator	14	.08A	0.3	T-1 ¾	Wedge	C-2F	0.4	0.8	15000	113	233
38457	74	50	Auto	14	.10A	0.7	T-1 ¾	Wedge	C-2F	0.4	0.8	1000		233
40969	85	50	Indicator	28	.04A	0.3	T-1 ¾	Wedge	C-2F	0.4	0.8	7000	113	233
40967	86	50	Indicator	6.3	.20A	0.4	T-1 ¾	Wedge	C-2F	0.4	0.8	20000	113, 123	233
T-2 Bulbs – Telephone Slide #3														
29001	TEL/24E2	50	Telephone	24	.035A	600	T-2	Tel. Slide #3	C-2F		1.69	7000	114	234
29041	TEL/48C2	50	Telephone	48	.035A	750	T-2	Tel. Slide #3	C-2F		1.69	5000	114	234
T-2 Bulbs – Telephone Slide #5														
12756	TEL/6PSB	50	Indicator	6	.14A	550	T-2	Tel. Slide #5	C-2V		1.11	20000	114	235
12760	TEL/12PSB	50	Indicator	12	.17A	2000	T-2	Tel. Slide #5	C-2F		1.11	12000	114	235
12071	TEL/24PSB	50	Indicator	24	.073A	3000	T-2	Tel. Slide #5	C-2F		1.11	10000	114	235
12072	TEL/28PSB	50	Indicator	28	.04A	1600	T-2	Tel. Slide #5	C-2F		1.11	5000	114	235
12075	TEL/48PSB	50	Indicator	48	.05A	1800	T-2	Tel. Slide #5	C-7A		1.11	10000	114	235
12077	TEL/60PSB	50	Indicator	60	.05A	1800	T-2	Tel. Slide #5	C-7A		1.11	7,500	114	235
12080	TEL/120PSB	50	Indicator	120	.025A	1000	T-2	Tel. Slide #5	CC-7A		1.11	7,500	114	235
T-2 ¼ Bulbs – G-4 Two Pin														
12723	774	10	Emergency Lighting	12	.67A	13	T-2 ¼	G-4 Two Pin	C-6	0.77	1	50	76, 120	170
47618	777	500	Flashlight, Halogen	4	1.20A	5.5	T-2 ¼	G-4 Two Pin	C-6	0.77	1	275	76, 120	170
44500	783	10	Emergency Lighting	12	1.00A	22	T-2 ¼	G-4 Two Pin	C-6	0.77	1	50	76, 120	170
43760	784	10	Emergency Lighting	6	1.00A	9	T-2 ¼	G-4 Two Pin	C-6	0.77	1	50	76, 120	170
43762	785	10	Emergency Lighting	6	1.33A	13	T-2 ¼	G-4 Two Pin	C-6	0.77	1	50	76, 120	170
43764	786	10	Emergency Lighting	6	2.00A	19	T-2 ¼	G-4 Two Pin	C-6	0.77	1	50	76, 120	170
43115	787	10	Instrument	6	1.67A	16	T-2 ¼	G-4 Two Pin	C-6	0.77	1	100	76, 120	170
43117	788	10	Instrument	6	3.33A	32	T-2 ¼	G-4 Two Pin	C-6	0.77	1	100	76, 120	170
18167	882X	10	Auto Inst.	12.8	.35A	3.8	T-2 ¼	G-4 Two Pin	C-6	0.77	1	2000	76, 120	170
15246	891	10	Auto High Mounted Stop	12.8	.63A	11	T-2 ¼	G-4 Two Pin	C-6	0.77	1	500	76, 120	170

SECTION 11 Miniature Low Voltage



Fig. 187



Fig. 236



Fig. 237



Fig. 238



Fig. 239



Fig. 240



Fig. 241



Fig. 242



Fig. 243



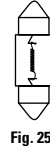
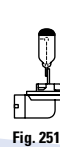
Fig. 248



Fig. 293

Order Code	GE Lamp	Case Qty. BP/*Unit	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL	MOL	Life (hrs)	Footnotes	Figure Number
T-2 1/4 Bulbs – Socket														
13158	882	10	Auto Inst.	12.8	.35A	3.8	T-2 1/4	Socket	C-6	0.37	1.18	2000	76	236
T-2 1/4 Bulbs – Wedge														
19280	2040	10	Auto Light Bar	12.8	.625A	10.5	T-2 1/4	Wedge	C-6	0.4	1.25	500	76	237
T-2 1/2 Bulbs – Miniature Bayonet														
12761	TEL/28MB	50	Indicator	28	.04A	0.29	T-2 1/2	Miniature Bayonet	C-2F	–	1.19	5000		293
12076	TEL/60MB	50	Indicator	60	.05A	0.73	T-2 1/2	Miniature Bayonet	C-7A	–	1.19	7500		293
12078	TEL/120MB	50	Indicator	120	.025A	0.36	T-2 1/2	Miniature Bayonet	CC-7A	–	1.19	7500		293
T-2 3/4 Bulbs – G-4 Two Pin														
11250	773	10	Special Service	12	.67A	10	T-2 3/4	G-4 Two Pin	C-6	0.77	1.05	1000	76, 120	239
49718	778	10	Instrument	6	3.33A	32	T-2 3/4	G-4 Two Pin	C-6	0.77	1.05	100	76, 120	239
18344	780	10	Strip Light	12	10W	12	T-2 3/4	G-4 Two Pin	C-6	0.77	1.05	2000	76, 120	239
44840	782	10	Special Service	12	1.66A	25	T-2 3/4	G-4 Two Pin	C-6	0.77	1.05	2000	76, 120	239
43119	789	10	Instrument	12	1.17A	22	T-2 3/4	G-4 Two Pin	C-6	0.77	1.05	200	76, 120	239
43121	790	10	Instrument	14	1.79A	42	T-2 3/4	G-4 Two Pin	C-6	0.77	1.05	200	76, 120	239
43123	791	10	Instrument	14	2.50A	61	T-2 3/4	G-4 Two Pin	C-6	0.77	1.05	200	76, 120	239
TL-2 3/4 Bulbs – G-4 Two Pin														
43805	2604X	10	Instrument – Lens end	5	2.00A		TL-2 3/4	G-4 Two Pin	C-6	–	1.18	5000	76, 120, 122	238
T-3 Bulbs – Miniature Cap														
39224	211-2	50	Auto	12.8	.97A	12	T-3	Miniature Cap	C-8	–	1.72	1000		240
23220	212-2	48*	Auto	13.5	.74A	6	T-3	Miniature Cap	C-8	–	1.72	2000	98	240
39356	214-2	50	Auto	13.5	.52A	4	T-3	Miniature Cap	C-8	–	1.72	1000	98	240
T-3 Bulbs – Rigid Loop														
39746	561	50	Auto	12.8	.97A	12	T-3	Rigid Loop	C-8	–	1.72	1000		241
T-3 Bulbs – Wire Terminal														
39641	1962B	10	Special Service	8.5	62W	110	T-3	Wire Terminal	C-6	0.285	1.14	50	74	242
12859	1962BG	100	Aircraft	8.5	62W	110	T-3	Wire Terminals	C-6	0.285	1.14	50	74	
37947	1962DX	100	Special Service	8.5	62W	80	T-3	Wire Terminals	C-6	0.285	1.14	150	74	242
44152	1962DZ	10	Special Service	8.5	62W	80	T-3	Wire Terminals	C-6	0.285	1.14	150	74	242
13667	1962TY	10	Medical	8.5	62W	110	T-3	Wire Terminals	C-6	0.285	1.14	50	74	242
32780	1974	10	Instrument	6	20W	10	T-3	Wire Terminals	C-6	0.285	1.14	10000	74	242
21494	2074	10	Instrument	7	25W	24	T-3	Wire Terminals	C-6	0.285	1.14	2700	74	242
TL-3 Bulbs – Miniature Screw														
25848	112	50	Flashlight – 1AA, C or D	1.2	.22A	–	TL-3	Miniature Screw	S-2	–	0.93	5	118	243
26008	222	50	Flashlight – AA cells	2.25	.25A	–	TL-3	Miniature Screw	C-2R	–	0.93	5	118	243
26063	243	50	Flashlight – 2 C cells	2.33	.27A	–	TL-3	Miniature Screw	C-2R	–	0.93	10	118	243
T-3 1/4 Bulbs – Axial														
16481	892	10	Auto, Signal	12.8	1.25A	28	T-3 1/4	Axial	C-6	1	2.68	300	76	248
T-3 1/4 Bulbs – Axial Prefocus														
25639	887	540	Tractor Work Light	12.8	3.90A	95	T-3 1/4	Axial Prefocus	C-6	1.25	2.68	400	76, 98	248
T-3 1/4 Bulbs – Miniature Bayonet														
25442	43	50	Indicator	2.5	.50A	0.5	T-3 1/4	Miniature Bayonet	C-2R	0.78	1.19	3000		187
25450	44	50	Indicator, Radio, and TV	6.3	.25A	0.9	T-3 1/4	Miniature Bayonet	C-2R	0.78	1.19	3000		187
25485	47	50	Radio, TV, and Indicator	6.3	.15A	0.52	T-3 1/4	Miniature Bayonet	C-2R	0.78	1.19	3000		187
42758	267	50	Indicator – Flasher Lamp	6.3	.15A	0.33	T-3 1/4	Miniature Bayonet	C-2R	0.62	1.19	5000	97, 111	187
26591	755	50	Indicator	6.3	.15A	0.33	T-3 1/4	Miniature Bayonet	C-2R	0.78	1.19	20000		187
26593	756	50	Indicator	14	.08A	0.31	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	15000		187
26599	757	50	Indicator	28	.08A	0.62	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	15000	113	187
27179	1408	50	Signal	10	.13A	0.85	T-3 1/4	Miniature Bayonet	C-2V	0.62	1.19	250	102	187
27667	1813	50	Radio	14.4	.10A	0.86	T-3 1/4	Miniature Bayonet	C-2V	0.62	1.19	1000	102	187
27677	1815	50	Indicator	14	.20A	1.4	T-3 1/4	Miniature Bayonet	C-2F	0.75	1.19	3000		187

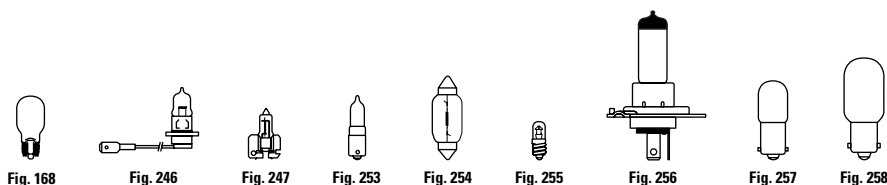
Miniature Low Voltage SECTION 11



Order Code	GE Lamp	Case Qty. BP/*Unit	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL	MOL	Life (hrs)	Footnotes	Figure Number
T-3 1/4 Bulbs – Miniature Bayonet (Continued)														
27688	1816	50	Aircraft and Auto	13	.33A	3	T-3 1/4	Miniature Bayonet	C-2V	0.62	1.19	1000	102	187
27749	1822	50	Indicator	36	.10A	2.1	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	1000		187
27772	1828	50	Indicator	37.5	.05A	0.65	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	3000		187
27804	1835	50	Indicator	55	.05A	1.1	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	5000		187
27819	1847	50	Radio, TV	6.3	.15A	0.38	T-3 1/4	Miniature Bayonet	C-2R	0.78	1.19	5000	108	187
27833	1850	50	Signal	5	.09A	0.25	T-3 1/4	Miniature Bayonet	C-2R	0.62	1.19	1,500	118	187
27868	1866	50	Radio	6.3	.25A	0.65	T-3 1/4	Miniature Bayonet	C-2R	0.78	1.19	5000	108	187
27907	1889	50	Auto – Heavy Duty	14	.27A	2	T-3 1/4	Miniature Bayonet	C-2F	0.56	1.19	2000		187
27917	1891	50	Auto, Radio and Indicator	14	.24A	2	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	500		187
27927	1892	50	Auto and Indicator	14.4	.12A	0.75	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	1000		187
27935	1893	50	Auto – Heavy Duty	14	.33A	2	T-3 1/4	Miniature Bayonet	C-2F	0.62	1.19	7500		187
12064	B1A	10	Neon Glow (NE-51)	120	1/2W		T-3 1/4	Miniature Bayonet			1.19	15000	128	187
12065	B2A	10	Neon Glow (NE-51H)	120	1/2W		T-3 1/4	Miniature Bayonet			1.19	25000	128	187
T-3 1/4 Bulbs – Miniature Screw														
27356	1487	50	Indicator	14	.20A	1.4	T-3 1/4	Miniature Screw	C-2F	0.94	1.19	3000		249
T-3 1/4 Bulbs – Printed Circuit Socket														
27222	PC168	10	Auto Instrument	14	.35A	3	T-3 1/4	Printed Circuit Socket	C-2F	0.45	1.11	1500		250
72221	PC194	10	Auto Inst. & Ind., H.D.	14	.27A	2	T-3 1/4	Printed Circuit Socket	C-2F	0.45	1.11	2500		250
T-3 1/4 Bulbs – Right Angle Prefocus														
40848	862	10	Tractor	12.8	2.93A	60	T-3 1/4	Rt Angle Prefocus	C-6	1.25	2.68	1900	76	251
25703	888	540	Tractor Work Light	12.8	3.90A	95	T-3 1/4	Rt Angle Prefocus	C-6	1.25	2.68	400	76, 98	251
20238	894	10	Tractor	12.8	2.93A	75	T-3 1/4	Rt Angle Prefocus	C-6	1.25	2.68	200	76, 98	251
26345	894X	540	Tractor	12.8	2.93A	75	T-3 1/4	Rt Angle Prefocus	C-6	1.25	2.68	200	76, 98	251
T-3 1/4 Bulbs – SV8.5MM														
12084	DE3175	50	Dome & Courtesy	13	.77A	9.55	T-3 1/4	SV8.5MM			1.25	400		252
T-3 1/4 Bulbs – Wedge														
25916	147	50	Indicator	7	.43A	2	T-3 1/4	Wedge	C-2R	0.56	1.06	1500		169
15731	149	1000	Emergency Lighting	6.15	.53A	3.5	T-3 1/4	Wedge	C-2R	0.56	1.06	15		169
25931	158	50	Auto, Instrument	14	.24A	2	T-3 1/4	Wedge	C-2V	0.56	1.06	500		169
25956	161	50	Auto, Instrument	14	.19A	1	T-3 1/4	Wedge	C-2F	0.56	1.06	4000		169
25962	168	50	Auto Instrument	14	.35A	3	T-3 1/4	Wedge	C-2F	0.56	1.06	1500		169
19553	193	50	Heavy Duty Truck	14	.33A	2	T-3 1/4	Wedge	C-2F	0.56	1.06	15000		169
25965	194	50	Auto, Instrument	14	.27A	2	T-3 1/4	Wedge	C-2F	0.56	1.06	2500		169
44859	194NA	50	Auto Sidemarkers. Amber	14	.27A	1.5	T-3 1/4	Wedge	C-2F	–	1.06	2500		169
26099	259	50	Radio, TV, and Indicator	6.3	.25A	0.65	T-3 1/4	Wedge	C-2R	0.65	1.06	5000	108, 126	169
44773	555	50	Coin, Novelty	6.3	.25A	0.9	T-3 1/4	Wedge	C-2R	0.65	1.06	3000		169
18442	590	50	Strip Lighting (Xenon)	13.5	.37A	4	T-3 1/4	Wedge	C-2V	0.5	1.06	2000		169
25199	591	50	Strip Lighting (Xenon)	14	.24A	2	T-3 1/4	Wedge	C-2V	0.5	1.06	3000		169
38866	656	50	Indicator	28	.06A	0.62	T-3 1/4	Wedge	C-2F	0.56	1.06	2500		169
38196	657	50	Indicator	28	.08A	0.62	T-3 1/4	Wedge	C-2F	0.56	1.06	15000	113	169
39999	658	50	Indicator	14	.08A	0.31	T-3 1/4	Wedge	C-2F	0.56	1.06	15000		169
TL-3 1/4 Bulbs – Wedge														
38269	558	50	Auto Lens end	13	.33A	–	TL-3 1/4	Wedge	C-2V	–	1.06	500	109	244
T-3 1/2 Bulbs – P14.5S														
27328	H1-55	10	Auto ECE. GE50310/1	13.2	62W	123	T-3 1/2	P14.5S	C-8	1.08	2.66	225	129	245
27569	H1-70/28V	10	Auto. ECE. GE50320/1	28	80W	151	T-3 1/2	P14.5S	C-8	1.08	2.46	600	129	245
27329	H1-100	10	Off Road Auxiliary. GE52140	13.2	100W	219	T-3 1/2	P14.5S	C-8	1.08	2.66	100	129	245



SECTION 11 Miniature Low Voltage



Order Code	GE Lamp	Case Qty. BP/* Unit	Primary Application	Volts	Amps or Watts	MSCP	Bulb	Base	Filament Design	LCL	MOL	Life (hrs)	Footnotes	Figure Number
T-3 1/2 Bulbs – PK22S														
23442	H3-35	400	C.I.M. GE50390	13.2	40W	60	T-3 1/2	PK22S	C-6	0.71	1.65	200 129		246
27331	H3-55	10	Auto ECE. GE50340	13.2	62W	115	T-3 1/2	PK22S	C-6	0.71	1.65	225 129		246
23445	H3-55HD	400	C.I.M. GE50340HD	13.2	62W	111	T-3 1/2	PK22S	C-6	0.71	1.65	600 129		246
23428	H3-65/28V	400	C.I.M. GE52590HD	28	66W	102	T-3 1/2	PK22S	C-6	0.71	1.65	1000 129		246
27332	H3-70/28V	10	C.I.M. GE50350	28	75W	135	T-3 1/2	PK22S	CC-6	0.71	1.65	225 129		246
12341	H3-100	48*	Off Road Auxiliary. GE52130	13.2	92W	187	T-3 1/2	PK22S	C-6	0.71	1.65	100 129		246
T-3 1/2 Bulbs – X511														
27330	H2-55	10	Auto. GE50410	13.2	62W	143	T-3 1/2	X511	C-8	0.48	1.22	225 129		247
T-4 Bulbs – S.C. Bayonet														
20469	795	10	Signal	12.8	50W	108	T-4	S.C. Bayonet	C-6	1.25	2.5	200 76, 98		253
T-4 Bulbs – SC8.5MM														
12085	DE3425	10	Dome & Courtesy	13	.77A	9.55	T-4	SV8.5MM			1.5	400		254
T-4 1/2 Bulbs – Candelabra Screw														
31675	B7A	10	Neon Glow (NE-45)	120	1/4W		T-4 1/2	Candelabra Screw			1.53	7500 128		255
T-5 Bulbs – P43T-38														
27334	H4-60/55	10	Auto. GE50440	13.2	71W	138	T-5	P43T-38	C-8	1.12	3.62	225 76		256
				13.2	66W	8			C-8			900		
27342	H4-75/70/28V	10	Bus GE50450	28.0	80W	151	T-5	P43T-38	C-8	1.14	3.62	150 129		256
				28.0	73W	95			C-8			300		
T-5 Bulbs – S.C. Bayonet														
27193	1434	10	Instrument, Photocell exciter	3.7	2.75A	11	T-5	S.C. Bayonet	C-6	1.12	1.75	100		257
27889	1876	10	Photoelectric Scanner	3.5	2.50A	6.5	T-5	S.C. Bayonet	C-6	1.12	1.75	2000		257
T-5 Bulbs – Wedge														
14273	901	48*	Garden & Security	12.8	.31A	2.9	T-5	Wedge	C-2R	0.81	1.49	500		168
40675	901A	30*	Garden & Security. Amber	12.8	.31A	-	T-5	Wedge	C-2R	0.81	1.49	500		168
40462	904	50	Auto – Heavy Duty	13.5	.69A	4	T-5	Wedge	C-2F	0.81	1.49	5000 98		168
40289	906	50	Auto – Heavy Duty	13	.69A	6	T-5	Wedge	C-2F	0.81	1.49	1000		168
44754	908	50	Emergency Lighting	6	1.50A	12	T-5	Wedge	C-2R	0.81	1.49	50		168
44756	909	50	Emergency Lighting	6	.62A	3	T-5	Wedge	C-2R	0.81	1.49	50		168
40504	912	50	Auto – Heavy Duty	12.8	1.00A	12	T-5	Wedge	C-2R	0.81	1.49	1000		168
44769	914	50	Emergency Lighting	4	.90A	3.5	T-5	Wedge	C-6	0.75	1.49	50		168
44771	915	50	Emergency Lighting	12	.75A	11	T-5	Wedge	C-2R	0.81	1.49	50		168
21860	916NA	50	Auto, Side Marker. Amber	13	.54A	1.5	T-5	Wedge	C-2F	0.81	1.49	10000		168
16860	917	1000	Home Appliance	12	1.2	10	T-5	Wedge	C-2F	0.81	1.49	1200		168
17837	918	50	Garden & Security	12.8	.56A	6.5	T-5	Wedge	C-2R	0.81	1.49	500		168
43374	921	50	Auto – Heavy Duty	12.8	1.40A	21	T-5	Wedge	C-2R	0.81	1.49	500 119		168
13274	922	50	Auto – Heavy Duty	12.8	.98A	15	T-5	Wedge	C-2R	0.81	1.49	200		168
40180	923	30*	Garden & Security	12.8	.91A	12.5	T-5	Wedge	C-2R	0.81	1.49	500		168
13483	926	50	Emergency Lighting	4	1.80A	7.5	T-5	Wedge	C-2R	0.81	1.49	50		168
13485	927	50	Emergency Lighting	6	1.20A	8	T-5	Wedge	C-2R	0.81	1.49	50		168
16975	939	50	Emergency Lighting	6	.90A	5.4	T-5	Wedge	C-2R	0.81	1.49	50		168
23684	963	4000	Emergency Lighting	6	2.00A	15	T-5	Wedge	C-2R	0.81	1.49	50		168
T-7 Bulbs – S.C. Bayonet														
45087	1944X	10	Special Service - silver contact	14	3.57A	75	T-7	S.C. Bayonet	C-8Z	1.25	2.25	300 108		258



INCANDESCENT/MINIATURE LAMP LIGHT, LIFE AND VOLTAGE

Chart 1 – Typical Characteristic Curves

Approximate light output varies as the 3.6 power of voltage and life varies inversely as the 12th power of voltage

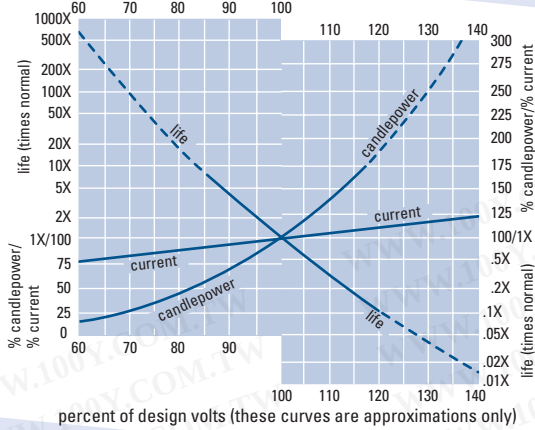


Table 1

Underrated Bulb Voltages (100%<)				Overrated Bulb Voltages (100%>)			
Volts %	Amps %	MSCP %	Life %	Volts %	Amps %	MSCP %	Life %
99	99.4	96.5	112.8	101	100.5	103.5	88.7
98	98.9	93.2	127.4	102	101.1	107.2	78.8
97	98.3	89.9	144.1	103	101.6	110.9	70.1
96	97.8	86.7	163.2	104	102.2	114.7	62.5
95	97.2	83.6	185.1	105	102.7	118.6	55.7
90	94.4	69.2	354.1	110	105.4	139.6	31.9
85	91.4	56.6	703.0	115	108.0	163.1	18.7
80	88.5	45.8	1455.2	120	110.5	189.3	11.2
75	85.4	36.5	3156.9	125	113.1	218.4	6.9
70	82.2	28.7	7224.8	130	115.5	250.5	4.3

Chart 2 – Composite Inrush Current vs. Time with Design Volts Applied for Typical Miniature Lamps

Inrush current can be 12 times normal current, normally not reached due to the impedance in the circuit

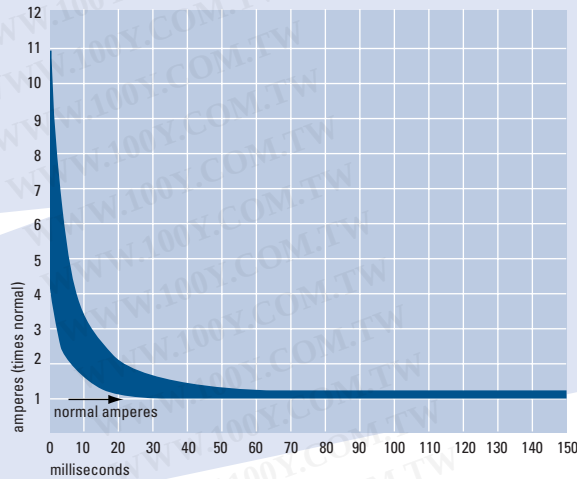
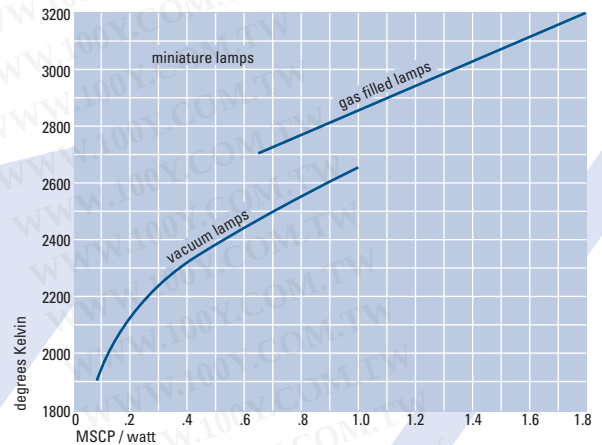


Chart 3 – Approx. Color Temperature vs. Efficiency (Mean Spherical Candlepower Per Watt)

Color Temperature can be estimated based on the following relationship (MSCP x 12.57 = Lumens)



Terminology and Abbreviations

10% Spread V/H and 50% Spread V/H – Approximate Beam Spread: For reflector type lamps. The total angle of the directed beam degrees to where the intensity of the beam falls to 50% or 10% the maximum value.

Additional Information: Typical application and/or other important information.

ANSI Code: These are 3-letter codes assigned by the American National Standard Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers.

Base or Cap: The type of base.

Bulb: Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Burning Position: For safe effective operation, see chart below.

Case Qty.: Number of product units packed in a case.

CIE Color: An x, y coordinate on a CIE color chart.

Color Rendering Index (CRI or R_a): An indication of the ability of the lamp to render object colors in a normal natural way. The higher the number (0-100), the better the color appearance.

Color Temperature - Kelvins (K): “Warmth” or “Coolness” of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light.

 **CRI Flag:** Indicates that this is a lamp with high color rendering, which helps objects and person illuminated to appear more true to life.

Description: The lamp’s identification code.

Figure Number: Representative outline, not to scale.

Filament Type: Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil. Number represent the type of filament-support arrangement.

Footnotes: See Footnote and Caution/Warnings on lamp.

LCL: Distance between the center of the filament and the Light Center Length reference plane in inches or millimeters.

LIF Code: These are assigned by the Lighting Federation of London, UK. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application.

Life – Hours: Life (as defined by FTC Lamp Label Rules) is rated life in hours.

Lumens: Light output (as defined by FTC Lamp Label Rules) is rated average lumens.

MBCP/CBCP: For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

MOL: Maximum Overall Length in inches or millimeters.

MSCP ($x4\pi$ =lumens): Approximate output expressed as initial mean spherical candlepower (4π =12.57).

Order Code: It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Volts: Lamp data is based on operation at rated voltage.

Watts: Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000.

Description Terminology**Discharge**

CSR Metal Halide are daylight (6000K) color with CRI greater than 90. Many with hot restrike (HR) and dimmable with stable color temperature. Use with electronic or AC magnetic ballast/igniter control gear.

ConstantColor® CMH® have CR greater than 80 with color uniformity between lamps and over lamp life.

CSS Compact Source Specials are for disco and fiber optic application

CSD are compact source lamps with very high color temperature and long life.

CID Compact Iodide Daylight have color temperatures of daylight (5500K) while CSI compact source iodide lamps have a warmer color (4000K) that can be blended with tungsten lamps.

MVR is Multi-Vapor® Metal Halide along with SPL lamps is suitable for sportslighting.

Fluorescent

Fluorescent lamps start with “F” (G for Germicidal), then generally wattage (sometimes MOL), tube diameter in 1/8 inch (T8 is tubular 1 inch diameter). Letters following generally describe finish, color, and application. There is no industry standard nomenclature.

Cinema Fluorescent lamps come in warm (3200K) and daylight (5500K) colors with and without covRguard® (CVG) shatter protection. There are Compact Biax® (BX) lamps available.

Incandescent and Quartz Halogen

In the description code, Q1000 or Q1M signifies a **quartz halogen** lamp of 1000 watts, then bulb shape and size is given in 1/8 inch increments. T3 is tubular 3/8 inch.

Miniature (low voltage) generally has a 2-4 digit numerical ANSI code. For sealed beam lamp starting with an H or Q means the lamp is Halogen. The numeric code has no relationship to performance.

For **Photo and Stage Studio** lamps a 3-letter ANSI code is used which insures interchangeability between manufacturers. It has no relationship to performance.

Incandescent lamps generally have wattage, bulb shape/size (in 1/8 inches) then further descriptors such as frosted or clear (IF or CL) or a pack quantity. Sometimes RS (Rough Service), CVG (covRguard®) or “/” numbers just signify variances.

There is no “standard” system.

Burn Positions

H4: Operate only horizontally within 4 degrees.

H15: Operate horizontally ± 15 degrees.

H45: Operate horizontally ± 45 degrees.

HBU: Horizontal -15 degrees to base up.

ANYCH: Base any position, but with filament coil axis horizontal.

BD: Base down.

BD30: Within 30° of vertical base-down.

BU30: Within 30° of vertical base-up.

BD45: Within 45° of vertical base-down.

BDBU: Within 60° of vertical base-down or base-up.

BDTH: Base down to horizontal.

BDTHCH: Base down to horizontal with filament coil axis horizontal.

- 1 Filament with low noise construction.
 - 3 Red-enhanced dichroic filter.
 - 4 Ceramic base is slightly larger than other lamps in table 2, thus may not fit in some leaf-spring type lampholders.
 - 5 Proximity Reflector.
 - 6 Opaque Ceramic top on bulb. Proximity Reflector.
 - 7 Pinned base to insure correct application.
 - 8 Light Balancing(LB) index: mired shift value limit is ± 5 . Color compensating(CC) filter value limit $\pm 5m$. CC filter density: (+) magenta, (-) green. The LB and CC limits are specified to eliminate the need to add external color adjusting filters in cinemagraphic lighting.
 - 9 Ultraviolet absorbing bulb.
 - 10 Black Top (opaque).
 - 11 Gold Top (opaque).
 - 12 Collector grid. Gold Top (opaque).
 - 13 Dichroic reflector.
 - 14 Enclosed fixture only, per UL Standard 1572. In accordance to Federal Regulations (21CFR 1040.30) the following notice applies: **"R WARNING:** This lamp can cause serious skin burn and eye inflammation if the outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available."
 - 15 Apparent lighted length slightly longer than similar clear lamp.
 - 16 Filament offset $\frac{3}{16}$ " from base axis.
 - 17 Approximate beam spread to $\frac{1}{2}$ center-beam intensity.
 - 18 Available late 2003.
 - 19 Should not be operated for periods of less than three minutes.
 - 20 Lamp is made of heat resistant glass (HRG).
 - 21
 - 22 Because of possible overheating, this lamp is not recommended for use without forced cooling in fixtures having deep-bowl, close-fitting reflectors with lamp axis is crosswise to the reflector axis.
- 23**
- ▲ WARNING**
- Risk of electrical shock**
- Turn power off before inspection, installation or removal.
- Risk of fire**
- Keep combustible materials away from lamp.
- Unexpected rupture may cause injury, fire, or property damage**
- Avoid direct water/liquid contact.
 - Use in enclosed fixtures rated for this product.
- 24 For use with heat-resistant connector supported by bulb rim or metal shell of base.
- 26**
- ▲ WARNING**
- Risk of fire**
- Keep combustible materials away from lamp.
 - Use in enclosed fixtures rated for this product.
- Unexpected rupture may cause injury, fire, or property damage**
- Avoid direct water/liquid contact.
- 27 Has blackening collector grid on only one side of filament. In burning positions other than base down, lamp should be installed so that grid is above filament.

30 Collector grid.

31 GE lamp is 240 volt; 250 volt is specified for Colortran.

33 Light output is maintained best when burned within 45 degrees of vertically base up.

35 Burn within 25 degrees of vertically base up.

36 Watt-Miser®, Watt-Miser® Plus, F28T8/UMX and Energy Efficient (/EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F40 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps are intended for use only with instant start ballasts. F28T8/UMX lamps are designed for use on UltraMax™ ballasts.

37 Reprographic Peak Emission 417nm. 2000 hours useful life; burning hours longer.

38 F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.

39 Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.

40 Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).

41 Performance data based on engineering estimates.

42 **CAUTION:** Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.

43 **WARNING:** Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.

44 Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.

45 Lumen rating based on approximate 3% reduction in light output with covRguard® sleeving.

46 Do not use covRguard® HO lamps in watertight or airtight fixtures.

47 Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.

48 Life rating is based on 12 hrs. per start.

49 Lumen rating based on approximate 3% reduction in light output with jacket.

50 Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.

51 Silica coated.

52 Rough Service. 6 filament supports.

53 Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).

54 Ratings at 120 volts.

54 Burn BDTH but avoid horizontal burning with support spine beneath filament to prevent premature arcing.
- 94 — APPENDIX

56

▲ WARNING**Risk of fire**

- Keep away from bed coverings, drapes, and other combustible materials.

57

▲ WARNING**Unexpected rupture may cause injury, fire, or property damage**

- Avoid direct water/liquid contact.

58

▲ WARNING**Risk of fire**

- Use in a high intensity fixture rated for this product.

59

▲ WARNING**Risk of fire**

- Keep combustible materials away from lamp.

60 Lamp base is a brass base (BB).

62 Exposed Unshielded Stage and Studio Lamps**▲ WARNING****Risk of electrical shock**

- Turn power off before inspection, installation or removal.

Risk of fire

- Keep combustible materials away from lamp.
- Use in enclosed fixture rated for this product.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp.
- Do not touch glass with bare hands.
- Use in enclosed fixtures rated for this product.
- Do not use lamp if outer glass is scratched or broken.
- Operate lamp only in specified position.
- Do not exceed 110% of rated voltage.

▲ CAUTION**Risk of burn**

- Allow lamp/fixture to cool before handling.
- Turn power off before installing lamp.

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken.
- Dispose of lamp in a closed container.
- Wear safety glasses and gloves when handling lamp.

Lamp emits UV radiation which may cause eye/skin irritation. RG-2.

- Limit unshielded exposure to less than 15 minutes per day.

63 PAR Lamps and Glass Covered Stage and Studio Lamps**▲ WARNING****Risk of electrical shock**

- Turn power off before inspection, installation or removal.

Risk of fire

- Keep combustible materials away from lamp.
- Use in enclosed fixture rated for this product.

A damaged lamp emits UV radiation which may cause

- Eye/skin injury.
- Turn power off if glass is broken. Remove and dispose of lamp.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage.
- Avoid direct water/liquid contact.
- Use in enclosed fixtures rated for this product.
- Do not use lamp if outer glass is scratched or broken.

▲ CAUTION**Risk of burn**

- Allow lamp/fixture to cool before handling.
- Turn power off before installing lamp.

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken.
- Dispose of lamp in a closed container.

64

▲ WARNING**Risk of electrical shock**

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible material away from lamp.
- Use in enclosed fixtures rated for this product.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage.
- Avoid direct water/liquid contact.
- Use in enclosed fixtures rated for this product.
- Do not use lamp if outer glass is scratched or broken.

▲ CAUTION**Risk of burn**

- Allow lamp/fixture to cool before handling.
- Turn off power before installing lamp.

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken.
- Dispose of lamp in enclosed container.

65 Will operate in any burning position, but fixed-socket usage other than base up or continuous burning in any position in ambient temperatures above 150 degrees F (66 degrees C), may result in some loss of protective coating. Reflectors and accessories may raise bulb temperature and cause some loss of protective coating.

68 Not recommended for horizontal burning.

69

▲ WARNING**Unexpected rupture may cause injury, fire, or property damage**

- Do not exceed rated voltage.

70 Observe operating and exposure limitations stated on packaging material, fixture and/or instruction booklet enclosed.

71

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp.
- Use in fixture rated for this product.

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixture rated for this product.
- Do not use lamp if outer glass is scratched or broken.

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling.

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken.
- Dispose of lamp in a closed container.

72

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp.
- Use in fixture rated for this product.

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid contact with glass during operation.
- Avoid direct water/liquid contact.

73

▲ WARNING

Lamp may shatter if used in wrong circuit

- Do not use in 110-120 Volt household circuit.

74

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp.
- Use in fixture rated for this product.

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp.
- Do not exceed rated voltage.
- Do not touch glass with bare hands.
- Do not use lamp if outer glass is scratched or broken.
- Dispose of lamp in a closed container.
- Do not turn on lamp until fully installed.
- Keep away from children.
- Use protective screen when handling.

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling.

FOR BEST PERFORMANCE

- Limit seal temperature to 350°C.
- Maintain 250°C minimum bulb wall temperature.
- Remove fingerprints from bulb with grease-free solvent.
- Operate at design voltage.

75

▲ CAUTION

Lamp may shatter and cause injury if broken

- Do not Use excessive force when installing lamp.

76

▲ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp.
- Do not exceed rated voltage.
- Avoid direct water/liquid contact.
- Use in enclosed fixture rated for this product.
- Do not use lamp if outer glass is scratched or broken.
- Dispose of lamp in a closed container.
- Do not turn on lamp until fully installed.
- Keep away from children.
- Use protective screen when handling.

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling.

77

▲ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken.
- Dispose of lamp in a closed container.

79 Burn base down to horizontal.

80

▲ WARNING

Unexpected rupture may cause injury, fire, or property damage

- Avoid direct water/liquid contact.
- Use in enclosed fixtures rated for this product.

81 Operate base up, within 30 degrees of vertical.

83

▲ WARNING

Unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken.
- Avoid direct water/liquid contact.

84

▲ CAUTION

Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp.

85 The bulb, although made of heat-resistant glass, may break if moisture falls on it.

86 **Warning** - temperatures sufficient to cause burns may occur. Do not touch bulb during operation. Allow at least 5 minutes for bulb to cool before touching. Keep bulb out of reach of children and pets. To avoid risk of fire, do not use this bulb in enclosed fixtures or with lamp shades. Keep paper or other flammable or heat sensitive materials at least 12 inches away from the bulb. Do not use in paper lined sockets.

89 Indicates total count of 3-lamp packs in shipping units. Multiply by 3 to determine actual quantity of lamps.

90 Should not be used in equipment where the base temperature will exceed 500 degrees F (260 degrees C).

SPECIALTY Footnotes and Safety Notices

- 91** Do not allow the bulb to be dragged across or to strike a hard surface since this action may cause minute cracks. Do not place lamp directly over the exposed person unless a protective screen or mesh is between lamp and user.
- 92** Design life in excess of 5000 hours. Actual life depends on service conditions.

93

▲ WARNING

Risk of fire

- Use in fixture rated for this product.

- 94** May not give satisfactory performance if any accessory equipment is attached to or touches the glass bulb.
- 95** Burning position - base up.
- 97** Useful hours.
- 98** At 14 volts.
- 99** At 5 volts.
- 100** Vertical.
- 101** Average overall length.
- 102** Filament supported.
- 103** This lamp may not be suitable for some uses because of its excessive wattage requirements for the bulb size.
- 104** This lamp may not be suitable for some uses because of its limited mechanical strength.
- 105** Life at 7 volts.
- 106** Designed and rated for operation in supplementary cathode preheat circuits.
- 107** Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.
- 108** Life at 6.6 volts.
- 109** Uses lens-end TL3 ¼ bulb. Provides 7,000 to 11,000 foot-candles in a ¼" diameter spot at ⅛" from end of bulb.
- 110** Not recommended for new OEM applications - suggested for new design are wedge base.
- 111** These lamps produce a random flashing indication only. The majority should flash between 40-160 flashes per minute at normal room temperature, some will be outside this range. As ambient temperature and/or input voltage changes, the flash rate may vary considerably. At rated voltage and room temperature most lamps will flash within 60 seconds.
- 112** ANSI specifies .38" LCL and .63" MOL.
- 113** Life shown is AC voltage only. DC life will be approx. 50% of AC.
- 114** Light output is approx. end foot candles, not spherical MSCP.
- 115** Filament segments parallel.
- 116** Special fixture required for highway use.
- 117** To be used with variable load flasher in applications where bulb outage indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
- 118** Life tests are performed on DC voltage only.
- 119** To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
- 120** .028" metal pins spaced 44mm (.157") apart. GE's two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.

- 121** LCL measured to top of filament.

- 122** Output is minimum ¼" spot at .100" from bulb top.

- 123** Subminiature wedge base lamps under 12 volts have copper-clad outer lead wires to decrease contact resistance at the expense of corrosion resistance in severe environments.

- 124** Life Test Conditions: Cycled 5 minutes on, 5 off.

- 125** Life Test Conditions: Cycled 20 minutes on, 20 off.

- 126** Differs from ANSI.

- 127** Life based on three hours of burning per start. MSCP at 100 Hrs. Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary equipment specially designed to produce proper electrical values according to established specifications. For total load, add auxiliary watts to lamp watts.

- 128** Life to approximately 50% of initial output. Values shown apply to use on AC unless otherwise shown. Life on DC is approximately 60% of AC values when DC current is equal to R.M.S. (Root Mean Square) AC value. When equal DC and R.M.S. AC voltages and equal resistances are utilized, life will be approximately the same.

129

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp.
- Use in fixture rated for this product.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp.
- Do not exceed rated voltage.
- Do not touch glass with bare hands.
- Do not use lamp if outer glass is scratched or broken.
- Dispose of lamp in a closed container.
- Do not turn on lamp until fully installed.
- Keep away from children.
- Use protective screen when handling.

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling.

FOR BEST PERFORMANCE

- Limit seal temperature to 350°C.
- Maintain 250°C minimum bulb wall temperature.
- Remove fingerprints from bulb with grease-free solvent.
- Operate at design voltage.

130

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal.

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp.
- Do not use excessive force when installing lamp.

- 131** Light center length and A.A. tolerance: ¼ in.

- 133** Single contact medium bayonet base without pins, with a lug focusing sleeve as indicated.

- 134** Burn base down to horizontal.

- 136** Burning position - plane through lamp axis and base terminals is horizontal.

137 Burning position-horizontal.

144 Operating position horizontal with locating lug up or down and with lamp supported by bulb rim.

146 Burning position-base down only.

147 The plane containing the base axis and the major locking eyelet (the eyelet that is equidistant from the other two eyelets) is at right angles to the plane of the filament or lead wires. Distance from bottom base contact to bottom of the collar is .4.

148 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 2a, 2b, 4f, 4g, 7a, 9b, 10c.

149 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c.

150 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 1a, 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c.

151 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 2a, 2j, 8a, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c.

152 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 2a, 2j, 8a, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c.

153 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 2a, 2j, 8a, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c.

154 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 2a, 2j, 4b, 4c, 4d, 4f, 4g, 7a, 9b, 10c.

155 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 2a, 2j, 4c, 4f, 4g, 7a, 9b, 10c.

156 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c.

157 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 2a, 2j, 4b, 4c, 4f, 4g, 7a, 9b, 10c.

158 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 2a, 2j, 4c, 4f, 4g, 7a, 9b, 10c.

159 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c.

160 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 1a, 2a, 2b, 3a, 4f, 5a, 5b, 9a, 9d, 10c.

162 See note 163 for specific warning/cautions/actions applicable to this lamp. Lines: 1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c.

163

▲ 1 WARNING

Risk of electric shock.

- a. Turn power off before inspection, installation or removal.

▲ 2 WARNING

Risk of fire.

- a. Keep combustible materials away from lamp.
- b. Use in fixture rated for this product.
- j. Use in enclosed fixture rated for this product.
- k. Fire Hazard! Do not use in torchieres or other indoor residential fixtures.

▲ 3 WARNING

Lamp emits IR radiation which may cause injury.

- a. Avoid exposure of eyes and skin to unshielded lamp.

▲ 4 WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage.

- a. Use eye protection when handling lamp.
- b. Avoid direct water/liquid contact.
- c. Use in enclosed fixture rated for this product.
- d. Operate lamp only in specified position.
- e. Do not touch glass with bare hands.
- f. Do not use lamp if outer glass is scratched or broken.
- g. Do not exceed 110% of rated voltage.
- h. Do not use where directly exposed to water or outdoors without an enclosed fixture.

▲ 7 WARNING

A damaged lamp emits UV radiation which may cause eye/skin injury

- a. Turn power off if glass bulb is broken. Remove and dispose of lamp.

▲ 8 WARNING

Lamp emits UV radiation which may cause eye/skin injury.

- a. Avoid exposure of eyes and skin to unshielded lamp.

▲ 9 CAUTION

Risk of burn

- a. Allow lamp to cool before handling.
- b. Allow lamp/fixture to cool before handling.
- d. Turn power off before installing lamp.

▲ 10 CAUTION

Lamp may shatter and cause injury if broken

- b. Dispose of lamp in a closed container.
- c. Do not use lamp if outer glass is scratched or broken.

▲ 11 CAUTION

Lamp emits UV radiation which may cause eye/skin irritation.

- a. Minimize exposure.

164 Life estimated.

165 It is recommended that a full ring connector be used to connect wiring to lamp.

171

▲ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal.

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp.
- Do not use excessive force when installing lamp.

173

▲ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal.

174

▲ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal.
- Avoid direct water/liquid contact.

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp.
- Do not use excessive force when installing lamp.

175

▲ WARNING**Risk of electrical shock**

- Turn power off before inspection, installation or removal.

▲ CAUTION**Lamp emits UV radiation which may cause eye/skin irritation. RG-1.**

- Minimize exposure.

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp.
- Do not use excessive force when installing lamp.

176

▲ WARNING**Risk of electric shock**

- Turn power off before inspection, installation or removal.

Lamp emits UV radiation which may cause eye/skin irritation. RG-3.

- Avoid exposure of eyes and skin to unshielded lamp.

▲ CAUTION**Lamp may shatter and cause injury if broken**

- Wear safety glasses and gloves when handling lamp.
- Do not use excessive force when installing lamp.

177 UV output and rated life based on preliminary data.

178

▲ WARNING**Risk of fire**

- Keep combustible materials away from lamp.

179

▲ WARNING**Risk of fire**

- Use in fixture rated for this product.

180 See note 163 for specific warning/cautions applicable to this lamp.

Lines: 2a, 2b, 4b.

181

▲ WARNING**Risk of fire**

- Keep combustible materials away from lamp.
- Use in fixture rated for this product.

Lamp emits IR radiation which may cause eye injury

- Do not use on infant, disabled, sleeping, or unconscious person/ animal unable to avoid potential injury.

Unexpected rupture may cause injury, fire, or property damage.

- Avoid direct water/liquid contact.

Risk of burn

- Do not touch operating lamp.

182

▲ WARNING**Risk of electrical shock**

- Turn power off before inspection, installation or removal.

Risk of fire

- Keep combustible materials away from lamp.
- Use in fixture rated for this product.

183

▲ WARNING**Unexpected rupture may cause injury, fire, or property damage**

- Avoid direct water, liquid contact or metal contact.

184 Only available on request.

185 See note 163 for specific warning/cautions/actions applicable to this lamp.

Lines: 2a, 2b, 4b, 4c, 4d, 4e, 4f, 9a, 9b, 9d, 10b, 10c.

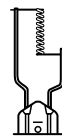
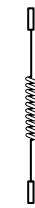
Filament Configurations



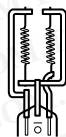
C-2R

C-2V
CC-2VC-6
CC-6C-6
Oval

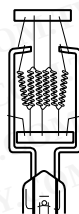
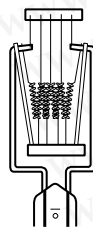
C-7A

C-8
CC-8

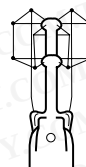
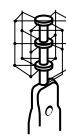
CC-8

2C-8
2CC-8

C-9

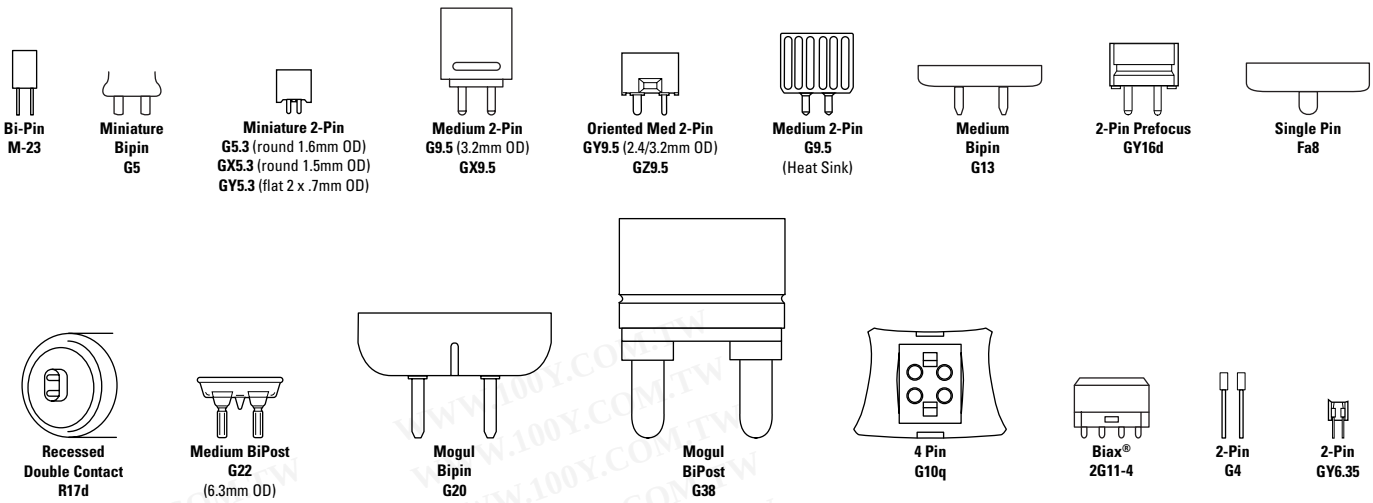
C-13
CC-13

C-13D

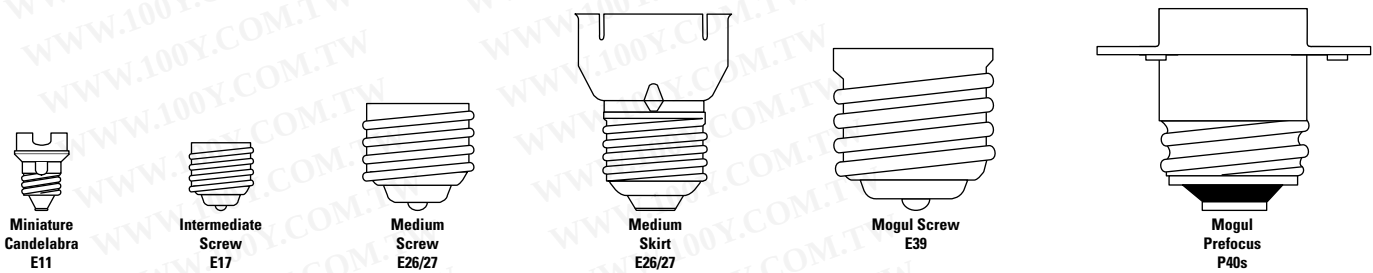
C-17
C-17A

C-22

Bases with Pins

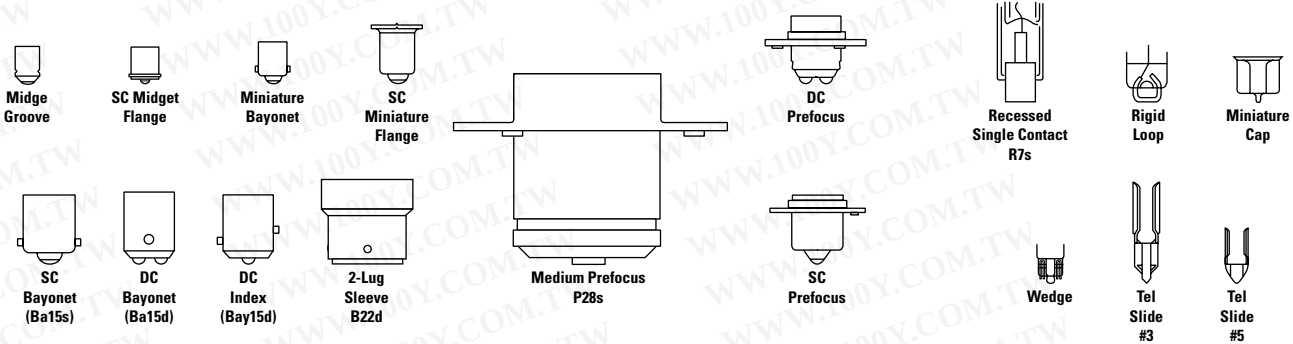


Screw Bases

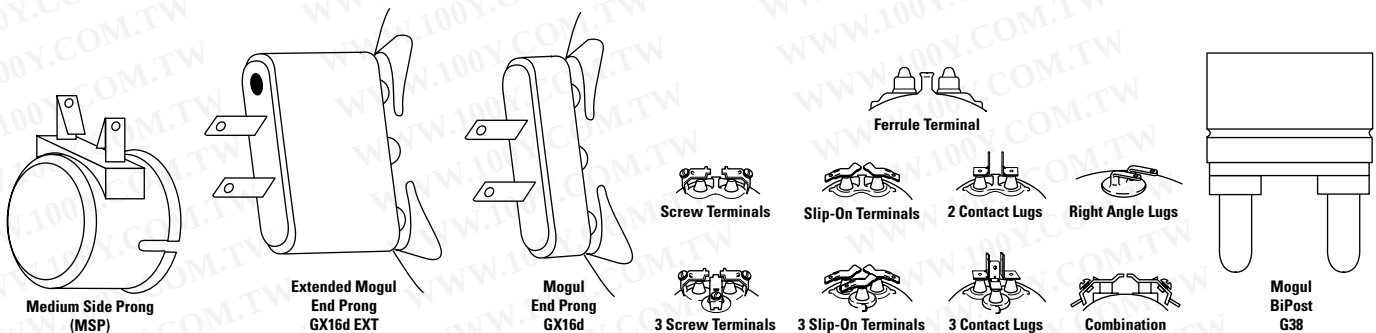


Bayonet and Flange Bases

Other Bases



Sealed Beam and Reflector Bases



General conditions of sale

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2008

Stage/Studio Lamp Catalog

For your best lighting performance.

Cinema Fluorescent

CSR/CSD Metal Halide

ConstantColor® CMH®

Quartzline® Halogen



SHOWBIZ®

for stage, studio, film and event lighting



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IMPORTANT

Additional information is constantly being uncovered through research and testing, which may modify the data. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and do not represent or warrant the suitability of a lamp for particular applications or use in particular equipment, nor are our representatives authorized to make such representations or give such warranties. Applications and conditions of use are varied, and beyond our control. We cannot possibly have the same knowledge the purchaser has with respect to the design of his equipment and the conditions of its use. It is up to the purchaser to determine the suitability of a lamp for

his intended application and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such changes will improve its products.

CAUTION NOTICES

Certain precautions should be observed in the handling and use of GE Stage/Studio Lamps to provide optimum performance and safety. Please comply with the warning and caution notices, footnotes and burning position limitations noted by lamp.

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INTRODUCTION

This catalog lists and gives essential technical data for all presently available General Electric lamps that are frequently used in lighting for: theatrical performances; television, motion picture and video productions; and professional photography.

Lamp listings are grouped into tables, each containing a closely related "family" of lamps with similar configuration. In many tables, the lamps are interchangeable (subject to limitations noted). This provides a self-contained guide for selecting alternative lamps. The following paragraphs explain the use of the tables.

Lamp Identification and Ordering Codes

Many GE lamps used in stage/studio applications are "coded."

ANSI Codes are 3-letter codes assigned by the American National Standards Institute. They provide a system

for assuring mechanical and electrical interchangeability among similarly coded lamps of various manufacturers. The letters have no rational meaning other than to identify the lamp dimensional, electrical and photometric characteristics that are on file with ANSI. GE uses the assigned ANSI 3-letter Codes as Order Codes for Photo Lamps. Some GE lamps have a multiple code (examples: BFL/BFK, DYS/DYV/BHC). The first code is the official ANSI code, but the lamp also meets or exceeds the described characteristics for the other code(s), and may be used to replace lamps of either code.

LIF Codes are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps. Prefix codes are:

A Designed for projectors, some used in raylight reflectors, martin moving mirror effects

CP Designed for use with tungsten balanced film stock at 3200K, single-ended lamp for use in Fresnel/ellipsoidal luminaires

P1 Use with 3200K film stock, open face luminaires and video sun guns

P2 Use with 3400K film stock

T Designed for theaters. Color temperature generally around 3000K.

Miniature Lamp Codes consist of numbers, also assigned by ANSI, to identify low voltage lamps from all manufacturers for interchangeability. GE uses these numerical codes as GE Description. In some instances, the GE Miniature Lamp Code includes the prefix H or Q, indicating a lamp with a halogen or quartz filament tube.

Discharge and Fluorescent Lamps

GE High Intensity Discharge lamps have brand name codes. The following describes the optimized characteristics:

CSR Metal Halide are daylight (6000K) color with CR greater than 90. Many with hot restrike (HR) and

dimable with stable color temperature. Use with electronic or AC magnetic ballast/ignitor control gear.

ConstantColor® CMH® have CR greater than 80 with color uniformity between lamps and over lamp life.

CSS compact source specials are for disco and fiber optic application.

CSD are compact source lamps with very high color temperature and long life.

CID compact iodide daylight have color temperatures of daylight (5500K) while **CSI** compact source iodide lamps have a warmer color (4000K) that can be blended with tungsten lamps.

MVR is Multi-Vapor® Metal Halide and along with **SPL** lamps are suitable for sportslighting.

Cinema Fluorescent lamps come in warm(3200K) and daylight (5500K) colors with and without **CovRguard® (CVG)** shatter protection. There are compact **Biax® (BX)** lamps available.

INTRODUCTION (continued)

Voltage

Quartzline® halogen and incandescent lamps can be operated on AC or DC circuits. Fluorescent and metal halide lamps are for AC only, with suitable auxiliary ballasts.

Ordering Lamps

Order lamps using the codes in the GE Product Ordering Code column. Add the GE Description, plus lamp voltage (essential for lamps available in more than one voltage) to help assure getting the exact lamp required. However, if a lamp is listed with blue text in the catalog it is not stocked in North America, so procurement must be through an international distributor or your GE sales representative.

Lamp Indexes

There are indexes starting on page 13 with the 3-letter ANSI or LIF code where available. All incandescent and

halogen lamps are indexed by wattage on page 15-19. PAR reflector (by size), fluorescent and metal halide lamps are indexed by table on page 12, along with halogen lamps by base.

Lamp Tables

Each of the 46 lamp tables contains a “family” of lamps with similar configuration. Tables 1-29 each contain Quartzline® lamps having the same base and (in most cases) the same light source location. Therefore, all the lamps within each table are generally interchangeable. Tables 30-46 are various discharge lamp systems which require ballasts that may preclude interchange.

When selecting an alternative lamp from within a particular table, note any limitations to be considered as stated in the table. Filament forms may vary among lamps in some tables. Use of a different filament form may effect the light

output. Reflector lamps have differences in voltage and lamp bases as well as the usual concern for excess heat when a higher wattage lamp is substituted.

Footnotes

Throughout the lamp tables, the footnote column contains important information and safety notes. The footnotes and safety notices appear on pages 8-11.

Lamps Base Designations

Each lamp table includes the name of the base used on the lamps therein, including its letter/number ANSI/IEC designation, where applicable. Lamp bases are pictured on page 20-22.

Recommended Operating Position

Limitations on lamp operating position are shown either in the table heading or in a column within the table, in which case the following abbreviations are used:

H4 operate only horizontally within 4 degrees
H15 operate horizontally ± 15 degrees
H45 operate horizontally ± 45 degrees
HBU horizontal -15 degrees to base up
ANYCH base any position, but with filament coil axis horizontal
BD base down
BU30 within 30° of vertical base-up
BD45 within 45° of vertical base-down
BDTH base down to horizontal
BDTHCH base down to horizontal with filament coil axis horizontal

Fluorescent lamps are all **"ANY"** position

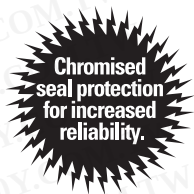
Low-Noise Construction

Many Quartzline® Stage/Studio lamps, have special "low-noise" construction - to minimize generation of audible noise when operated on AC circuits. Such lamps are identified in the tables with a footnote (1). Lamps, sockets, wiring, etc. tend to generate audible noise when used on dimmers that distort the normal AC sine wave. "Low-noise"

INTRODUCTION (continued)

lamps, therefore, often prove especially useful on wave-distorting dimmers such as SCR, Thyatron, or “mag-amp” types. No noise is generated on “flat-wave” DC circuits.

Chromised Seal Protection



Quartzline® Stage/Studio and selected CSR lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500° C (vs. traditional 350° C), which increases life and reliability. Look for this seal on the package coming soon.

Other GE Publications

All the lamps in this consolidated Stage/Studio Lamp Catalog come from the GE catalogs listed below. They contain data for other lamps that may be of interest for stage/studio applications.

Specialty Catalog (PC 29119)
Lamp Products Catalog (PC 25265)

FOOTNOTES

- (1) Filament with low noise construction
- (3) Beam spread to 50% peak candlepower. Two numbers are horizontal by vertical.
- (4) Ceramic part of lamp base is slightly larger than other lamps in table 2, thus may not fit in some leaf-spring type lampholders
- (5) Beam spread to 10% peak candlepower. Two numbers are horizontal by vertical.

- (6) Candlepower is the intensity (candelas) generally at the center or maximum intensity of the beam
- (7) Pinned base to insure correct application
- (8) Light Balancing (LB) index: mired shift value limit is ± 5 . Color compensating (CC) filter value limit $\pm 5m$. CC filter density: (+) magenta, (-) green. The LB and CC limits are specified to eliminate the need to add external color adjusting filters in cinematographic lighting.
- (9) Cinema32 lamps are 3200K (tungsten), chromaticity $x=.415$ $y=.377$, CRI 95, Gold bases
- (10) Cinema55 lamps are 5500K (daylight), chromaticity $x=.325$ $y=.321$, CRI 96, Blue bases
- (11) Biax Cinema32 are 3200K, chromaticity $x=.415$ $y=.380$, CRI 86
- (12) Filament shield masks direct light
- (13) Biax Cinema56 are 5600K, chromaticity $x=.330$ $y=.335$, CRI 86
- (14) Enclosed fixture only, per UL Standard 1572. In accordance to Federal Regulations (21 CFR 1040.30) the following notice applies:
WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamp that will automatically extinguish when the outer envelope is broken or punctured are commercially available.
- (15) Apparent lighted length slightly longer than similar clear lamp
- (16) Life dependent on service conditions. For use only in equipment specially designed to maintain bulb and base temperature within safe limits.
- (19) Requires non-ANSI ballast. Narrow 6 degree spot with 1,350,000 CBCP.
- (20) Top end of bulb is opaque-coated to absorb upward light
- (21) Blue glass bulb. Color temperature may vary amongst lamps.
- (22) Because of possible overheating, this lamp is not recommended for use without forced cooling in fixtures having deep-bowl, close-fitting reflectors with lamp axis crosswise to the reflector axis.
- (23) 850,000 CBCP with 8 degrees to 50% CBCP
- (24) 820,000 CBCP with 9 degrees to 50% CBCP
- (27) Has blackening collector grid on only one side of filament. In burning positions other than base down, lamp should be installed so that grid is above filament.
- (31) GE lamp is 240 volt; 250 volt is specified for Colortran.
- (51) Silica coated
- (52) Rough service. 6 filament supports.
- (55) Burn BDTH, but avoid horizontal burning with support spine beneath filament to prevent premature arcing

SAFETY NOTES

62 Exposed Unshielded Stage and Studio Lamps

⚠ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

62 Exposed Unshielded Stage and Studio Lamps (continued)

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

Lamp emits UV radiation which may cause eye/skin irritation. RG-2

- Limit unshielded exposure to less than 15 minutes per day

63 PAR Lamps and Glass Covered Stage and Studio Lamp

⚠ WARNING

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass is broken. Remove and dispose of lamp.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

63 PAR Lamps and Glass Covered Stage and Studio Lamp (continued)

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken

CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

64 High Wattage Incandescent PAR Lamps

WARNING

Risk of electrical shock

- Turn power off before inspection, installation, or removal

Risk of fire

- Keep combustible materials away from lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product

171 Linear Fluorescent

WARNING

Risk of electrical shock

- Turn power off before inspection, installation, or removal

CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

307 Low Wattage Halogen PAR Lamps

WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in closed container

INDEX BY TABLE, TECHNOLOGY AND LAMP BASE

Technology and Base Type	Table No.	Page No.	Technology and Base Type	Table No.	Page No.	Technology and Base Type	Table No.	Page No.
Halogen, Double-Ended, Compact Coil (CC-8)			Halogen, Single-Ended (continued)			Discharge-CSR (daylight) Metal Halide		
R7s with 3 1/8" MOL	1	23	GY38 Mogul Bi-Post (38mm apart)	16	37	Single-Ended Cold Start	30	59
R7s with 3 3/4" MOL	2	23	GX38Q High Volt 2 Filament	17	38	Single-Ended Short Arc	31	59
R7s with 5 5/8" MOL	3	24	E11 Miniature Candelabra Screw	18	39	Single-Ended Hot Restrike	32	59
Halogen, Double-Ended, C-8 coil			E26 Medium Screw	19	40	Double-Ended Hot Restrike	33	60
R7s with 4 11/16" MOL	4	25	E39 Mogul Screw	20	41	Single-Ended Hot Restrike UV Control	34	61
R7s with 6 9/16" MOL	5	26	BA15d Double Contact Bayonet	21	41	Discharge-ConstantColor CMH		
R7s with 7 7/16" MOL	6	27	P28s Medium Prefocus	22	43	PAR56 Reflector	38	62
Halogen, Single-Ended			P28s with CC-8 Coil	23	44	PAR64 Reflector	39	63
G5.3 Miniature 2-pin (5.3mm apart)	7	27	P40s Mogul Prefocus	24	45	Discharge-CSI, CID, MVR/SPL		
G9.5 Medium 2-pin (9.5mm apart)	8	27	Halogen and Incandescent Reflector Lamp Systems			Double-Ended	40	64
G9.5/Heat Sink (Metal 2-pin)	9	29	MR16 (2" reflector)	25	46	Single-Ended	41	64
GX9.5 Prefocus Med 2-pin	10	31	PAR36 (4.5" reflector)	26	47	PAR64 Reflector	42	65
GY9.5 Oriented 2-pin (2 OD pins)	11	32	PAR46 (5.75" reflector)	27	49	Fluorescent Cinema Lighting		
GZ9.5 Oriented 2-pin (2 OD pins)	12	33	PAR56 (7" reflector)	28	50	Standard Cinema T8	43	70
GY16 2-pin prefocus (16mm apart)	13	34	PAR64 (8" reflector)	29	51	Standard Cinema T12	44	70
G22 Medium Bi-post (22mm apart)	14	34				CovRguard™ Cinema	45	71
G38 Mogul Bi-post	15	35				Biax®	46	71

INDEX: ANSI CODE

ANSI Code	Table No.	ANSI Code	Table No.	ANSI Code	Table No.	ANSI Code	Table No.	ANSI Code	Table No.	ANSI Code	Table No.	ANSI Code	Table No.	ANSI Code	Table No.	ANSI Code	Table No.
BAH	19	CBX	21	DXW	2	EGM	23	EME	4	EXG	29	FEL	8	FKH	14	FVB	10
BBA	19	CDJ	21	DXX	1	EGN	14	EMF	4	EXV	25	FEP	8	FKJ	14	FVL	7
BCA	19	CEB	21	DYH	7	EGR	14	ENH	25	EXX	25	FER	3	FKK	15	FVM	7
BCM	16	CXZ	15	DYR	12	EGT	14	ESL	18	EYH	7	FEV	21	FKN	22	FWR	10
BLC	21	CYV	15	DYS	12	EHC	8	ESM	18	EZK	25	FEX	3	FKR	8	FWS	10
BLX	21	CYX	15	DZA	7	EHD	8	ESN	18	FAD	1	FEY	3	FKW	11	FWT	10
BRH	2	DKX	20	EBV	19	EHF	8	ESP	21	FAY	26	FFM	1	FLK	8	GCS	11
BTL	22	DKZ	20	EBW	19	EHG	8	ESR	21	FBE	26	FFN	29	FMR	11	GCT	11
BTM	22	DPY	15	ECA	19	EHM	4	ESS	21	FBG	7	FFP	29	FRE	11	GCV	11
BTN	22	DRB	22	ECT	19	EHP	1	ETB	21	FBO	26	FFR	29	FRG	11	GCW	11
BTP	22	DRS	22	EFM	25	EHR	1	ETC	21	FBX	1	FFS	29	FRH	11	GFA	29
BTR	22	DSE	20	EFN	25	EHT	18	ETD	21	FBY	2	FFT	5	FRJ	11	GFB	29
BVT	24	DSF	20	EFP	25	EHZ	4	ETF	21	FCB	2	FGM	29	FRK	11	GFC	29
BVV	24	DTA	24	EFR	25	EJD	4	ETG	18	FCL	4	FGN	29	FRL	11	GKV	8
BVW	24	DTY	15	EGC	23	EJG	4	ETH	18	FCM	4	FGT	5	FRM	11	GLA	8
BWA	15	DVS	4	EGE	23	EKB	11	EVR	18	FCW	26	FHM	4	FSK	11	GLC	8
BWF	20	DVY	7	EGF	23	EKD	10	EWE	23	FCX	26	FKB	22	FSL	11	GLD	8
BWM	8	DWE	26	EGG	23	EKM	6	EXC	29	FDB	5	FKD	22	FTL	13	GLE	8
BWN	8	DWT	3	EGJ	23	ELC	25	EXD	29	FDF	4	FKE	23	FTM	13		
CAX	21	DWZ	1	EGK	23	EMD	4	EXE	29	FDN	4	FKF	22	FVA	10		

[illegible]

INDEX: WATTAGE

GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table
25 Watts		35 Watts (continued)		55 Watts		85 Watts (continued)		110 Watts	
25PAR36	23	F20T12/CINEMA32/HO/CVG	44	F55BX/CINEMA32	45	F72T12/CINEMA55/HO/CVG	44	F96T12/CINEMA32/HO	43
25PAR36/VWFL	26	F20T12/CINEMA55/HO	43	F55BX/CINEMA56	45	100 Watts		F96T12/CINEMA32/HO/CVG	44
25PAR36NSP	26	F20T12/CINEMA55/HO/CVG	44	F55BX/CINPLUS/32	45	4509	26	F96T12/CINEMA55/HO	43
25PAR36WFL	26	37.5 Watts		F55BX/CINPLUS/56	45	4543	28	F96T12/CINEMA55/HO/CVG	44
25PAR46	27	H7616	26	F48T8/CINEMA32	43	4545	28	120 Watts	
30 Watts		50 Watts		F48T8/CINEMA55	43	4591	26	120PAR	29
4405	26	4505	26	F48T8/CINEMA32/CVG	43	4594	26	120PAR56/MFL	28
4435	27	50PAR26/H/SP8	26	F48T8/CINEMA55/CVG	43	4595	26	120PAR56/VNSP	28
4515	26	50PAR36/H/FL30	26	60 Watts		4509X	26	120PAR56/WFL	28
4535	27	50PAR36/H/SP5	26	F40T12/CINEMA32/HO	43	CDJ	21	125 Watts	
BLC	21	50PAR36NSP	26	F40T12/CINEMA32/HO/CVG	44	CEB	21	CSR125/SE/HR	32
DZA	7	50PAR36VNSP	26	F40T12/CINEMA55/HO	43	EPF	25	140 Watts	
H4405	26	50PAR36VWFL	26	F40T12/CINEMA55/HO/CVG	44	EXV	25	CSS150/850/GY9.5	41
H4515	26	50PAR36WFL	26	75 Watts		FVM	7	150 Watts	
35 Watts		50PAR36WFL/4	26	CBX/CBS	21	Q100CL/DC	21	150PAR46/1	27
4436	27	BLX	21	EFN	25	Q100CL/DC/2V	21	150PAR46/3MFL	27
35PAR36/H/FL30	26	CAX	21	85 Watts		Q100CL/MC	18	CMH150/PAR56/830/GX16d/SP	38
35PAR36/H/SP5	26	EFM	25	F72T12/CINEMA32/HO	43	Q100CL/MC/2V	18	CMH150/PAR56/830/GX16d/MFL	38
35PAR36/H/SP8	26	H7604	26	F72T12/CINEMA32/HO/CVG	44	Q100DC	21	CMH150/PAR56/830/GX16d/WFL	38
F20T12/CINEMA32/HO	43	H7635	27	F72T12/CINEMA55/HO	43	Q100MC	18		

INDEX: WATTAGE

GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table
150 Watts (continued)		200 Watts		250 Watts (continued)		300 Watts (continued)		420 Watts	
CMH150/PAR56/942/GH16d/SP	38	200PAR	28	CSD250/2/SE	30	FSL	11	EKB-Q420/4CL/2PP	11
CMH150/PAR56/942/GH16d/MFL	38	200PAR46/3MFL	27	ECA	19	Q300T3	4	FFM	1
CMH150/PAR56/942/GH16d/WFL	38	200PAR46/3NSP	27	ELC	25	Q300T3/CL	4	450 Watts	
CMH150/PAR64/830/GX16d/MFL	39	200PAR56/MFL	28	ELC/500	25	Q300T4/CL	1	4541	28
CMH150/PAR64/830/GX16d/SP	39	99-0211CID/HR	41	ENH	25	350 Watts		500 Watts	
CMH150/PAR64/830/GX16d/WFL	39	CSR200/DE	33	EXX	25	FDF/HIR-Q350T2/4CL	4	500PAR64/MFL	29
CMH150/PAR64/842/GX16d/MFL	39	CSR200/SE/HR	32	EYH/FKT	7	Q350T3/CL/HIR	4	500PAR64/NSP	29
CMH150/PAR64/842/GX16d/SP	39	FEV-Q200/4CL/DC	21	Q250CL/DC	21	375 Watts		500PAR64/WFL	29
CMH150/PAR64/842/GX16d/WFL	39	FVL	7	Q250CL/MC	18	DWZ(30V)	1	BTL-Q500T6/CL/P	22
EFR	25	235 Watts		Q250DC	21	HPL375/C	9	BTM-Q500T6/4CL/2P	22
EZK	25	Q235T4/3	12	Q250MC	18	HPL375/LL/C	9	EBV (#2)	19
Q150CL/DC	21	240 Watts		300 Watts		400 Watts		EBW (#B2)	19
Q150CL/DC/2V	21	240PAR56/MFL	28	300PAR/WFL	28	400G/FL	19	ECT	19
Q150CL/MC	18	240PAR56/VNSP	28	300PAR56/MFL	28	99-0201CSI	41	EGC-Q500/5CL/P	23
Q150DC	21	240PAR56/WFL	28	300PAR56/NSP	28	CSR400/S/DE	33	EGE-Q500CL/P	23
Q150MC	18	250 Watts		300PAR56/WFL	28	CSR400/S/DE/90	33	EGN-Q500T8	14
		4552	29	BAH	19	CSR400/SE/HR	32	EHC-Q500/5CL	8
		4553	27	FKW-Q300T8	11	CSR400/SE/HR/75	32	EHD-Q500CL/TP	8
		BBA (#1)	19	FSK	11	Q400CL/MC	18		
		BCA (#B1)	19			Q400MC	18		

GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table
500 Watts (continued)		500 Watts (continued)		600 Watts		650 Watts (continued)		675 Watts	
EVR-Q500CL/MC	18	T28	22	4559	29	FAY-Q650PAR36/3D	26	FFT/HIR-Q675T3/4	5
FBG/FBD	7	T28	22	DYH	7	FBE-Q650PAR36/5D	26	700 Watts	
FDF-Q500T3/4CL	4	550 Watts		DYS/DYV/BHC	12	FBO-Q650PAR36/5	26	CSR700/2/SE	30
FDN-Q500T3/4	4	HPL550/C	9	FCB	2	FBX-Q650T4/4	1	CSR700/SA	31
FKF	22	575 Watts		FMR-Q600T5	11	FCM/HIR	4	CSR700/S/DE	33
FRG-Q500T8	11	99-0415CID	41	GKV	8	FCW-Q650PAR36/6	26	CSR700/S/DE/75	33
FRH	11	CSR575/2/SE	30	GKV-Q575T6/4CL	8	FCX-Q650PAR36/7	26	CSR700/SA/72	31
FRJ	11	CSR575/2/T/SE	30	GKV/LL	8	FKB	22	750 Watts	
GCV	11	CSR575/DE	33	Q4559	29	FKH	14	BTN-Q750T7/CL/2P	22
GCW	11	CSR575/S/DE/70	33	Q4559X	29	FKR	8	BTP-Q750T7/4CL/2P	22
Q500CL/DC	21	CSR575/SS/DE/75	33	625 Watts		FRE	11	BWM-Q750T7/4CL/TP	8
Q500DC	21	CSR575/SE/HR	32	Q625T3/4CLP2/10	6	FRK-Q650T8	11	EGF-Q750/4CL/P	23
Q500PAR50WFL	28	CSR575/SE/HR/UV-C	34	650 Watts		FRL	11	EGG-Q750CL/P	23
Q500PAR56MFL	28	CSS575/855/GY9.5	41	CP23	10	FRM	11	EGR-Q750T7/4CL	14
Q500PAR56NSP	28	FLK-Q575T6	8	CP51	22	GCS	11	EHF-Q750/4CL	8
Q500PAR64/MFL	29	FLK/LL-Q575T6	8	DVY	7	GCT	11	ENG-Q750CL/TP	8
Q500PAR64/NSP	29	GLA-Q575T6/4CL	8	DWE-Q650PAR36/1	26	T12	10	EJG-Q750T3/4CL	4
Q500PAR64/VNSP	29	GLC-Q575T6/5CL	8	DYR	12	T13	22	EMD-Q750T3/4	4
Q500T3/CL	4	HPL575	9	EKD-Q650/3CL/2PP	10			GLD-Q750T6/4CL	8
Q500T3/CL/6	4	HPL575-X LL	9	FAD-Q650T4/4CL	1			GLE-Q750T6/4CL	8
T17	22	HPL575/C	9						
		HPL575/LL/C	9						

INDEX: WATTAGE

GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table
750 Watts (continued)		1000 Watts (continued)		1000 Watts (continued)		1000 Watts (continued)		1200 Watts	
HPL750	9	BVT-Q1000T7/CL/MP	24	EWE	23	FKE	23	99-1435CID/HR	42
HPL750/XLL/C	9	BVV-Q1000T7/4CL/MP	24	EXC-Q1MPAR64CP60	29	FKJ	14	CP90	10
HPL750/C	9	BWN-Q1000T7/4CL/TP	8	EXD-Q1MPAR64CP61	29	FKJ	14	CP93	14
HPL750/LL/C	9	CP24	10	EXE-Q1MPAR64CP62	29	FKN	22	CSR1200/2/SE	30
800 Watts		CP95	29	EXG/PAR64/WFL	29	FVA	10	CSR1200/DE	33
CSR800/SE/HR	32	CYV-Q1000T7/4CL/BP	15	FBY-Q1000T5/4	2	FVB	10	CSR1200/SE/HR	32
CSR800/SE/HR/UV-C	34	DKZ/DSE-Q1000PS52/4	20	FCM-Q1000T3/4CL	4	FWP	10	CSR1200/SE/HR/UV-C	34
DXX	1	DRB	22	FEL-Q1000/4CL	8	FWR	10	CSR1200/S/DE	33
EME-Q800T3/P2/11	4	DRC	22	FEP-Q1MT6/4CL	8	Q1000PAR64MFL	29	CSR1200/S/DE/72	33
EMF-Q800T3/P2/11	4	DRS	22	FER-Q1000T6/4CL	3	Q1000PAR64NSP	29	CSR1200/SA	31
HX800	8	DSE-Q1000	20	FFN-Q1000PAR64/1	29	Q1000PAR64WFL	29	FWS	10
1000 Watts		DWT-Q1000T6/CL	3	FFP-Q1000PAR64/2	29	Q1000T8/CL	10	FWT	10
99-0221CSI	41	DXW-Q1000T5/4CL	2	FFR-Q1000PAR64/5	29	SPL1000/PAR64/840	42	GFA-Q1200PAR64/5	29
99-0222CID	41	EGJ-Q1000/4/CL/P	23	FFS-Q1000PAR64/6	29	SPL1000/PAR64/HR	42	GFB-Q1200PAR64/2	29
99-1225CID	42	EGK-Q1000/4/P	23	FFT-Q1000T3/1CL	5	T11	10	GFC-Q1200PAR64/1	29
99-1425CID/HR	42	EGM-Q1000CL/P	23	FGM-Q1000PAR64/3D	29	T14	22	OC1200	14
BRH	2	EGT-Q1000T7/4CL	14	FGN-Q1000PAR64/7D	29	T16	24	T29	10
BTR-Q1000T7/4CL/2P	22	EJD-Q1000T3/3CL (185V)	4	FHM-Q1000/T3/4	4				
		EKM-Q1MT3/4CLP2/7	6	FKD	22				

GE Description	Table	GE Description	Table	GE Description	Table	GE Description	Table
1250 Watts		2000 Watts		2000 Watts (continued)		10000 Watts	
CP105-1250/650	17	BVW-Q2000T10/4CL/MP	24	CSR2500/DE	33	CP83	15
CP30-1250/1250	17	BWA-Q2000/4CL/BP	15	CSR2500/SE/HR	32	DTY-Q10M/T24/4CL	15
CP58-1250/2500	17	BWF-Q2000/4CL	20	CSR2500/SE/HR/UV-C	34	12000 Watts	
Q1250T3/P2/12	6	CP53	24	3000 Watts		CSR12000/DE	33
1500 Watts		CP59	20	HX48	15	CSR12000/SE/HR	32
CXZ-Q1500T10/4CL	15	CP79	13	4000 Watts		Q12MT26/4CL	16
DKX/DSF-Q1500PS52/4	20	CP92	14	CSR4000/DE	33	Q12MT26/4CL	16
DSF-Q1500	20	CSR2000/SA	31	CSR4000/SE/HR	32	Q12MT26/4CL	16
DTA-Q1500T8/4CL	24	CYX-Q2000T10/4CL	15	CSR4000/SE/HR/UV-C	34	18000 Watts	
FDB-Q1500T4/4CL	5	FEX-Q2MT8/4CL	3	5000 Watts		CSR18000/DE	33
FGT-Q1500T4/4	5	FEY-Q2000T8/4CL	3	CP29	15	CSR18000/S/DE	33
MVR1500/HBU	41	FKK	15	DPY-Q5000T20/4CL	15	CSR18000/SE/HR	32
MVR1500/U/SPORTS	41	FTL	13	HX5000	15	20000 Watts	
SPL1500/L/H/652	40	FTM	13	HX5000/240	15	BCM-Q20MT32/4CL	16
1650 Watts		MQI12000/T9/40	41	6000 Watts		BCM-Q20MT32/4CL	16
MVR1650/HOR	41	2500 Watts		CSR6000/DE	33	BCM-Q20MT32/4CL	16
		99-0431CID/HR	41	CSR6000/SE/HR	32	24000 Watts	
		CP32-2500/2500	17	CSR6000/SE/HR/UV-C	34	Q24MT32/4CL	16
		CP91	14			Q24MT32/4CL	16
		CP94	15				

LAMP BASE DRAWINGS

(dimensions in mm)

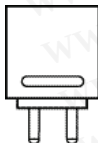


Miniature 2-Pin

G5.3 (round 1.6mm OD)

GX5.3 (round 1.5mm OD)

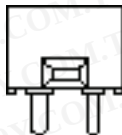
GY5.3 (flat 2 x .7mm)



Medium 2-Pin

G9.5 (round 3.2mm OD)

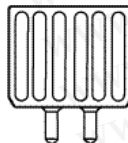
GX9.5 (Prefocused)



Oriented Med 2-Pin

GY9.5 (2.4/3.2mm OD)

GZ9.5



Medium 2-Pin

G9.5/Heat sink

(metal base)

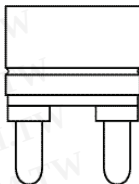


GY16d



Medium BiPost

G22 (6.35mm OD)



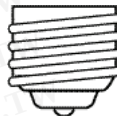
Mogul BiPost

G38 (11.1mm OD)



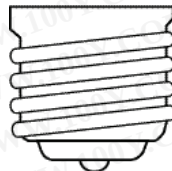
Miniature Candelabra

E11 (10.7mm screw)



Medium Screw

E26 (26mm screw)

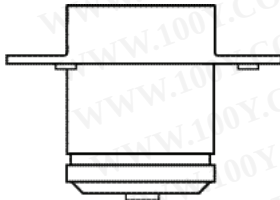


Mogul Screw

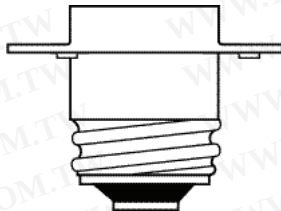
E39 (39.3mm screw)



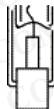
Double Contact Bayonet
BA15d (15mm diameter)



Medium Prefocus
P28s (27.5mm OD)



Mogul Prefocus
P40s (39.4mm OD)



Recessed Contact
R7s (7mm OD)

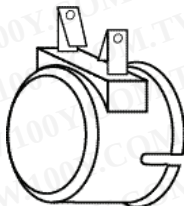
PAR LAMP BASE DRAWINGS



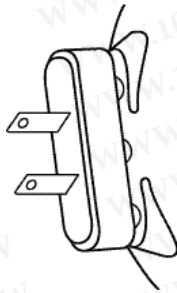
Screw Terminal



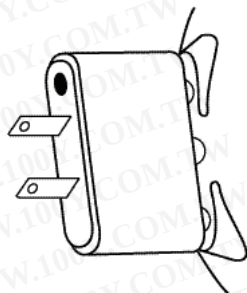
Ferrule



**Medium Side Prong
(MSP)**



**Mogul End Prong
(MEP or GX16d)**



**Extended MEP
(EMEP or GX16d)**

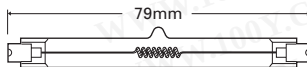


Fig. 1

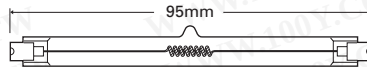


Fig. 2

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 1: Halogen, Double-Ended, Compact Coil (CC-8), R7s Base, 79mm (3¹/₈") MOL																	
300	T-4	Q300T4/CL	62	EHP		43705	6	79	120	2900	2000	5650	CC-8	18		Any	1
375	T-4	DWZ(30V)	62	DWZ		29578	24	79	30	3000	1000	7500	CC-8	10		Any	1
420	T-4	FFM	62	FFM		30276	24	79	120	3200	75	11000	CC-8	13		Any	1
650	T-4	FAD-Q650T4/4CL	62	FAD	P2/6	30325	24	79	120	3200	100	16500	CC-8	17		Any	1
		FBX-Q650T4/4	15, 62	FBX	P2/6	30343	24	79	120	3200	100	16500	CC-8		Frosted	Any	1
800	T-4	DXX	62	DXX	P2/13	36952	24	79	230	3200	75	21400	CC-8	24		Any	1
		DXX	62	DXX	P2/13	36953	24	79	240	3200	75	21400	CC-8	24		Any	1
Table 2: Halogen, Double-Ended, Compact Coil (CC-8), R7s Base, 95mm (3³/₄") MOL																	
600	T-4	FCB	4, 62	FCB	A1/228	29598	24	95	120	3250	75	17000	CC-8	17		Any	2
1000	T-5	DXW-Q1000T5/4CL	27, 62	DXW		30157	24	95	120	3200	150	28000	CC-8	22		Any	2

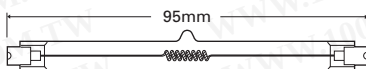


Fig. 2

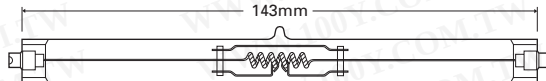


Fig. 3

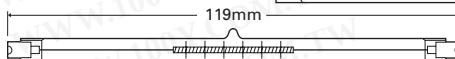


Fig. 4

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 2: Halogen, Double-Ended, Compact Coil (CC-8), R7s Base, 95mm (3³/₄") MOL																	
1000	T-5	FBY-Q1000T5/4	15, 62	FBY		30374	24	95	120	3200	150	26000	CC-8		Frosted	Any	2
		BRH	62	BRH		29604	24	95	120	3350	75	30000	CC-8	19		Any	2
Table 3: Halogen, Double-Ended, Compact Coil (CC-8), R7s Base, 143mm (5⁵/₈") MOL																	
1000	T-6	DWT-Q1000T6/CL	62	DWT		23800	6	143	120	3000	2000	23400	CC-8	25		Any	3
		FER-Q1000T6/4CL	62	FER		33760	6	143	120	3200	500	27500	CC-8	19		Any	3
2000	T-10	FEX-Q2MT8/4CL	62	FEX	P2/27	35338	12	143	230	3200	300	50000	CC-8	37		H4	3
		FEX-Q2MT8/4CL	62	FEX	P2/27	35339	12	143	240	3200	300	50000	CC-8	37		H4	3
		FEY-Q2000T8/4CL	62	FEY	P2/27	39790	12	143	120	3200	400	57000	CC-8	25		H4	3

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 4: Halogen, Double-Ended, C-8, R7s Base, 119mm (4^{11/16}") MOL																	
300	T-3	Q300T3/CL	62	EHM		43703	6	119	120	2950	2000	5950	C-8	59		H4	4
		Q300T3	15, 62	EHZ		43704	6	119	120	2950	2000	5900	C-8		Frosted	H4	4
350	T-2	FDF/HIR-Q350T2/4CL	62			20881	6	119	120	3200	400	13250	C-8	60		H4	4
	T-3	Q350T3/CL/HIR	62			13894	6	119	120	3000	2000	10000	C-8	56		H4	4
500	T-3	Q500T3/CL	62	DVS		23733	12	119	130	3000	2000	10550	C-8	62		H4	4
		Q500T3/CL	62	FCL		23731	12	119	120	3000	2000	11100	C-8	57		H4	4
		Q500T3/CL/6	62			23744	12	119	120	2950	1500	10950	C-8	60		H4	4
		FDF-Q500T3/4CL	62	FDF	P2/30	23735	12	119	120	3200	400	13250	C-8	60		H4	4
		FDN-Q500T3/4	15, 62	FDN	P2/31	23734	12	119	120	3200	400	12800	C-8		Frosted	H4	4
650	T-3	FCM/HIR-Q650T3/4	52, 62	FCM	—	13895	6	119	120	3275	400	25200	C-8	60		H4	4
750	T-3	EJG-Q750T3/4CL	62	EJG	—	23756	12	119	120	3200	400	20600	C-8	62		H4	4
		EMD-Q750T3/4	15, 62	EMD	—	23755	12	119	120	3200	400	19500	C-8		Frosted	H4	4
800	T-3	EME-Q800T3/P2/11	62	EME	P2/11	23760	12	119	240	3200	150	22000	C-8	64		H4	4
		EMF-Q800T3/P2/11	62	EMF	P2/11	23761	12	119	240	3200	150	21400	C-8		Frosted	H4	4

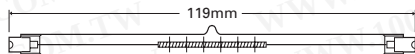


Fig. 4



Fig. 5

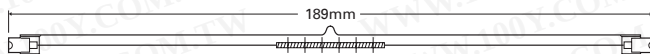


Fig. 6

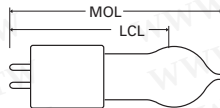


Fig. 7

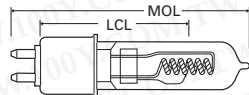


Fig. 8

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 4: Halogen, Double-Ended, C-8, R7s Base, 119mm (4^{11/16}") MOL (continued)																	
1000	T-3	FCM-Q1000T3/4CL	62	FCM	P2/28	23797	12	119	120	3200	400	28000	C-8	60	Frosted	H4	4
		FHM-Q1000/T3/4	15, 31, 62	FHM	P2/29	23792	12	119	120	3200	400	27300	C-8			H4	4
		EJD-Q1000T3/3CL (185V)	52, 62	EJD	—	23788	12	119	185	3350	100	33600	C-8	68		H4	4

Table 5: Halogen, Double-Ended, C-8, R7s Base, 167mm (6^{9/16}") MOL																	
675	T-3	FFT/HIR-Q675T3/4	52, 62	—	—	20884	6	167	120	3250	400	26400	C-8	67		H4	5
1000	T-3	FFT-Q1000T3/1CL	62	FFT	—	33280	12	167	120	3200	400	26400	C-8	67		H4	5
1500	T-4	FDB-Q1500T4/4CL	62	FDB	—	23841	12	167	120	3200	400	41250	C-8	62		H4	5
		FGT-Q1500T4/4	15, 62	FGT	—	41229	12	167	120	3200	400	40200	C-8		Frosted	H4	5

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	MOL (mm)	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	Lighted Length (mm)	Bulb Finish	Burning Position	Fig. No.
Table 6: Halogen, Double-Ended, C-8, R7s Base, 189mm (7⁷/₁₆") MOL																	
625	T-3	Q625T3/4CLP2/10	62		P2/10	19697	12	189	230	3200	300	16900	C-8	107		H4	6
		Q625T3/4CLP2/10	62		P2/10	19698	12	189	240	3200	300	16900	C-8	107		H4	6
1000	T-3	EKM-Q1MT3/4CLP2/7	62	EKM	P2/7	20249	12	189	230	3200	300	28000	C-8	115		H4	6
		EKM-Q1MT3/4CLP2/7	62	EKM	P2/7	20253	12	189	240	3200	300	28000	C-8	115		H4	6
1250	T-3	Q1250T3/P2/12	62		P2/12	19695	12	189	230	3200	300	35000	C-8	112		H4	6
		Q1250T3/P2/12	62		P2/12	19696	12	189	240	3200	300	35000	C-8	112		H4	6

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 7: Halogen, Single-Ended, G5.3 Miniature 2-Pin (5.3mm apart)																		
30	T-3.5	DZA	62	DZA	—	37346	24	G5.3	10.8	3100	400	530	C-6	27	51	BDTHCH		
105	T4	FVM	62	FVM		19678	24	G5.3	120	3200	250	2200	CC-8	32	60	Any		7
200	T4	FVL	62	FVL		19679	24	G5.3	120	3200	200	5200	CC-8	32	60	Any		7
250	G-6	EYH/FKT	62	EYH	—	13617	24	G5.3	120	3000	200	6000	CC-6	36	64	BDTHCH		7
500	G-6	FBG/FBD	62	FBG	—	33663	24	G5.3	120	3200	50	13200	CC-6	44	76	ANYCH		7
600	G-7	DYH	62	DYH	—	30364	24	G5.3	120	3200	75	17000	CC-6	36	64	ANYCH		7
650	G-6	DVY	62	DVY	—	30304	24	G5.3	120	3300	25	20000	CC-6	36	64	BDTHCH		7

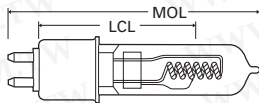


Fig. 8

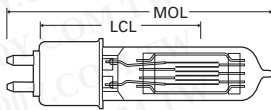


Fig. 9

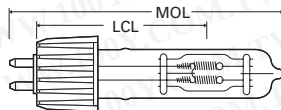


Fig. 10

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 8: Halogen, Single-Ended, G9.5 Medium 2-Pin (9.5mm apart)																		
500	T-6	EHD-Q500CL/TP	62	EHD		39768	24	G9.5	120	2900	2000	10000	CC-8	60	105	Any		8
		EHC-Q500/5CL	62	EHC		39789	24	G9.5	120	3150	500	12700	CC-8	60	105	Any		8
575	T-6	FLK-Q575T6	62	FLK		11450	24	G9.5	115	3200	300	16500	CC-8	60	105	Any		8
		FLK/LL-Q575T6	62	—	—	39730	24	G9.5	115	3100	1500	12800	CC-8	60	105	Any		8
		GLA-Q575T6/4CL	62	GLA	—	93428	24	G9.5	115	3050	1500	13000	C-13D	60	105	Any		9
		GLC-Q575T6/5CL	62	GLC	—	93429	24	G9.5	115	3200	300	14500	C-13D	60	105	Any		9
600	T-6	GKV-Q575T6/4CL	62	GKV		39739	24	G9.5	230	3200	250	14000	C-13D	60	105	Any		9
		GKV	62	GKV		39750	24	G9.5	240	3200	250	14000	C-13D	60	105	Any		9
		GKV/LL	62	GKV		39751	24	G9.5	230	3000	1500	11000	C-13D	60	105	Any		9
		GKV/LL	62	GKV		39752	24	G9.5	240	3000	1500	11000	C-13D	60	105	Any		9
650	T-6	FKR	62	FKR		39734	24	G9.5	230	3100	300	15000	C-13D	60	105	Any		9
		FKR	62	FKR		39735	24	G9.5	240	3100	300	15000	C-13D	60	105	Any		9
750	T-6	EHG-Q750CL/TP	62	EHG	—	39770	24	G9.5	120	3000	2000	15000	CC-8	60	105	Any		8
		EHF-Q750/4CL	62	EHF	—	39771	24	G9.5	120	3200	300	20000	CC-8	60	105	Any		8

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 8: Halogen, Single-Ended, G9.5 Medium 2-Pin (9.5mm apart) (continued)																		
750	T-6	GLD-Q750T6/4CL	62	GLD	—	92771	24	G9.5	115	3200	300	19000	C-13D	60	105	Any		9
		GLE-Q750T6/4CL	62	GLE	—	92773	24	G9.5	115	3050	1500	17400	C-13D	60	105	Any		9
	T-7	BWM-Q750T7/ 4CL/TP	1, 62	BWM	—	39680	6	G9.5	120	3200	200	21000	C-13D	60	114	BDTH		9
800	T-6	HX800	62		HX800	39753	24	G9.5	230	3200	250	20000	C-13D	60	105	Any		9
		HX800	62		HX800	39754	24	G9.5	240	3200	250	20000	C-13D	60	105	Any		9
1000	T-6	FEL-Q1000/4CL	62,22	FEL	CP77	39769	24	G9.5	120	3200	300	27500	CC-8	60	105	Any		8
		FEP-Q1MT6/4CL	62	FEP	CP77	39738	24	G9.5	230	3200	300	25000	CC-8	60	105	Any		8
		FEP-Q1MT6/4CL	62	FEP	CP77	39736	24	G9.5	240	3200	300	25000	CC-8	60	105	Any		8
	T-7	BWN-Q1000T7/ 4CL/TP	62,1	BWN	—	39792	24	G9.5	120	3200	250	28500	C-13D	60	114	BDTH		9

Table 9: Halogen, Single-Ended, G9.5/Heat Sink (Metal 2-Pin)																		
375	T-6	HPL375/C	18, 62			17608	12	G9.5/HS	115	3250	300	10540	4-C8	60	106	Any		10
		HPL375/LL	18, 62			18189	12	G9.5/HS	115	3050	1000	8000	4-C8	60	106	Any		10
550	T-6	HPL550/C 77V	18, 62			17607	12	G9.5/ HS	77	3250	300	16170	4-C8	60	106	Any		10

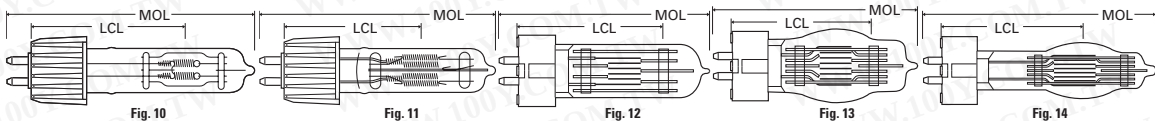


Fig. 10

Fig. 11

Fig. 12

Fig. 13

Fig. 14

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 9: Halogen, Single-Ended, G9.5/Heat Sink (Metal 2-Pin) (continued)																		
575	T-6	HPL575/C 115V	62	—	—	92431	12	G9.5/HS	115	3200	300	16500	4-C8	60	106	Any		10
		HPL575/C 120V	62	—	—	92433	12	G9.5/HS	120	3200	300	16520	4-C8	60	106	Any		10
		HPL575/LL/C 115V	62	—	—	92434	12	G9.5/HS	115	3050	2000	12360	4-C8	60	106	Any		10
		HPL575/LL/C 120V	62	—	—	92435	12	G9.5/HS	120	3050	2000	12360	4-C8	60	106	Any		10
		HPL575	62	—	—	37128	12	G9.5/HS	230	3200	300	14900	6-C8	60	106	Any		11
		HPL575	62	—	—	37131	12	G9.5/HS	240	3200	300	14900	6-C8	60	106	Any		11
		HPL575-X LL	62	—	—	37817	12	G9.5/HS	230	3050	1500	11780	6-C8	60	106	Any		11
		HPL575-X LL	62	—	—	37818	12	G9.5/HS	240	3050	1500	11780	6-C8	60	106	Any		11
750	T-6	HPL750/C 115V	7, 62	—	—	92432	12	G9.5/HS	115	3200	300	22000	4-C8	60	106	Any		10
		HPL750/LL/C	7, 62	—	—	92770	12	G9.5/HS	115	3050	2000	16400	4-C8	60	106	Any		10
		HPL750	7, 62	—	—	37824	12	G9.5/HS	230	3200	300	19750	6-C8	60	106	Any		11
		HPL750	7, 62	—	—	37826	12	G9.5/HS	240	3200	300	19750	6-C8	60	106	Any		11
		HPL750-XLL-C	7, 62	—	—	92768	12	G9.5/HS	230	3050	1500	15600	6-C8	60	106	Any		11
		HPL750-XLL-C	7, 62	—	—	92769	12	G9.5/HS	240	3050	1500	15600	6-C8	60	106	Any		11

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 10: Halogen, Single-Ended, GX9.5 Prefocus Med 2-Pin																		
650	G-6 T-8	EKD-Q650/3CL/2PP	62	EKD	—	34328	24	GX9.5	120	3300	25	20000	CC-6	37	64	BDTHCH		
		T12	62		T12	39661	12	GX9.5	230	3000	750	13500	C-13	55	110	BDTH		12
		T12	62		T12	39663	12	GX9.5	240	3000	750	13500	C-13	55	110	BDTH		12
		CP23	62		CP23	39654	12	GX9.5	230	3200	100	16900	C-13	55	110	BDTH		12
		CP23	62		CP23	39660	12	GX9.5	240	3200	100	16900	C-13	55	110	BDTH		12
1000	G-11	CP24	62		CP24	39651	12	GX9.5	230	3200	200	26000	C-13	55	110	BDTH		13
		CP24	62		CP24	39653	12	GX9.5	240	3200	200	26000	C-13	55	110	BDTH		13
		Q1000T8/CL	62		T11	29331	24	GX9.5	120	3050	750	23500	C-13	55	110	BDTH		13
		T11	62		T11	39656	12	GX9.5	230	3050	750	23000	C-13	55	110	BDTH		13
		T11	62		T11	39659	12	GX9.5	240	3050	750	23000	C-13	55	110	BDTH		13
	T-11	FWP	62	FWP	T19	39657	12	GX9.5	230	3050	750	21000	C-13D	55	110	BDTH		12
		FWR	62	FWR	T19	39658	12	GX9.5	240	3050	750	21000	C-13D	55	110	BDTH		12
		FVA	62	FVA	CP70	39241	12	GX9.5	230	3200	200	25000	C-13D	55	110	BDTH		12
		FVB	62	FVB	CP70	39242	12	GX9.5	240	3200	200	25000	C-13D	55	110	BDTH		12
1200	G-11	T29	62		T29	39647	12	GX9.5	120	3050	400	30500	C-13D	67	125	BDTH		14
		FWS	62	FWS	T29	39723	12	GX9.5	230	3050	400	29000	C-13D	67	125	BDTH		14
		FWT	62	FWT	T29	39667	12	GX9.5	240	3050	400	29000	C-13D	67	125	BDTH		14

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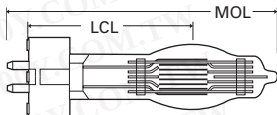


Fig. 14

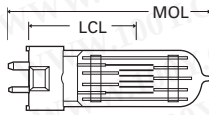


Fig. 15

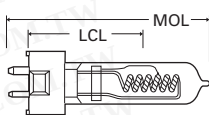


Fig. 16

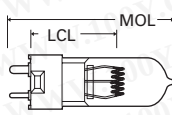


Fig. 17

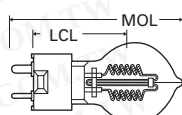


Fig. 18

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 10: Halogen, Single-Ended, GX9.5 Prefocus Med 2-Pin (continued)																		
1200	G-11	CP90	62		CP90	39724	12	GX9.5	230	3200	200	33000	C-13D	67	125	BDTH		14
		CP90	62		CP90	39725	12	GX9.5	240	3200	200	33000	C-13D	67	125	BDTH		14

Table 11: Halogen, Single-Ended, GY9.5 Oriented 2-Pin (2 OD Pins)																		
300	T-8	FKW-Q300T8	62	FKW	CP81	39781	24	GY9.5	120	3200	50	6900	C-13	46	90	BDTH		15
		FSL	62	FSL	CP81	39780	24	GY9.5	230	3200	150	6900	C-13	46	90	BDTH		15
		FSK	62	FSK	CP81	39779	24	GY9.5	240	3200	150	6900	C-13	46	90	BDTH		15
420	G-7	EKB-Q420/4CL/2PP	62	EKB	—	33934	24	GY9.5	120	3200	75	11000	CC-6	37	64	ANYCH		17
500	T-8	FRG-Q500T8	62	FRG	CP82	39623	24	GY9.5	120	3200	150	13000	C-13	46	90	BDTH		15
		FRH	62	FRH	CP82	39624	24	GY9.5	230	3200	150	12500	C-13	46	90	BDTH		15
		FRJ	62	FRJ	CP82	39628	24	GY9.5	240	3200	150	12500	C-13	46	90	BDTH		15
		GCV	62	GCV	T18	39717	24	GY9.5	230	3050	400	11000	C-13	46	90	BDTH		15

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 11: Halogen, Single-Ended, GY9.5 Oriented 2-Pin (2 OD Pins) (continued)																		
500	T-8	GCW	62	GCW	T18	39629	24	GY9.5	240	3050	400	11000	C-13	46	90	BDTH		15
		GCV	62	GCV	T25	39455	24	GY9.5	230	3000	360	11000	C-13D	46	90	BDTH		15
		GCW	62	GCW	T25	39262	24	GY9.5	240	3000	360	11000	C-13D	46	90	BDTH		15
600	T-5	FMR-Q600T5	62	FMR	—	30475	24	GY9.5	120	3050	2000	12600	CC-8	51	85	BDTHCH		16
650	T-8	GCT	62	GCT	T27	39456	24	GY9.5	230	3050	400	14500	C-13D	46	90	BDTH		15
		GCS	62	GCS	T27	39457	24	GY9.5	240	3050	400	14500	C-13D	46	90	BDTH		15
		FRE	62	FRE	T26	39630	24	GY9.5	120	3100	500	15500	C-13	46	90	BDTH		15
		GCT	62	GCT	T26	39635	24	GY9.5	230	3100	400	15500	C-13	46	90	BDTH		15
		GCS	62	GCS	T26	39636	24	GY9.5	240	3100	400	15500	C-13	46	90	BDTH		15
		FRK-Q650T8	62	FRK	CP89	39637	24	GY9.5	120	3200	200	16900	C-13	46	90	BDTH		15
		FRL	62	FRL	CP89	39640	24	GY9.5	230	3200	150	16250	C-13	46	90	BDTH		15
		FRM	62	FRM	CP89	39642	24	GY9.5	240	3200	150	16250	C-13	46	90	BDTH		15
Table 12: Halogen, Single-Ended, GZ9.5 Oriented 2-Pin (2 OD Pins)																		
235	T-4	Q235T4/3	62	—	—	11548	12	GZ9.5	33	3125	150	6000	CC-6	39	64	BDTHCH	Frosted	
600	G-7	DYS/DYV/BHC	62	DYS	A1/264	32955	24	GZ9.5	120	3200	75	17000	CC-6	37	64	BDTHCH		17
650	G-7	DYR	62	DYR	A1/233	26896	24	GZ9.5	220	3200	50	16500	2CC-8	37	64	Any		18
		DYR	62	DYR	A1/233	26895	24	GZ9.5	240	3200	50	16500	2CC-8	37	64	Any		18

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

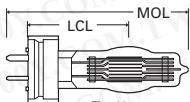


Fig. 19

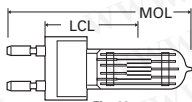


Fig. 20

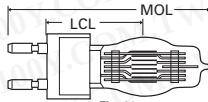


Fig. 21

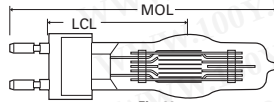


Fig. 22

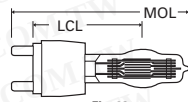


Fig. 23

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 13: Halogen, Single-Ended, GY16 2-Pin Prefocus (16mm Apart)																		
2000	G-13	FTM	62	FTM	CP43	20309	12	GY16	230	3200	400	54000	C-13	70	145	BDTH		19
		FTL	62	FTL	CP43	20310	12	GY16	240	3200	400	54000	C-13	70	145	BDTH		19
		CP79	62		CP79	90360	12	GY16	120	3200	350	54000	C-13D	70	145	BDTH		19
		CP79	62		CP79	30497	12	GY16	230	3200	350	54000	C-13D	70	145	BDTH		19
		CP79	62		CP79	30498	12	GY16	240	3200	350	54000	C-13D	70	145	BDTH		19

Table 14: Halogen, Single-Ended, G22 Medium Bi-post (22mm Apart)																		
500	T-8	EGN-Q500T8	62	EGN	—	30373	12	G22	120	3200	150	13000	C-13	64	140	BDTH		20
650	T-8	FKH	62	FKH	CP39	20320	12	G22	230	3200	100	16900	C-13	64	140	BDTH		20
		FKH	62	FKH	CP39	20321	12	G22	240	3200	100	16900	C-13	64	140	BDTH		20
750	T-7	EGR-Q750T7/4CL	1, 62	EGR	—	39190	12	G22	120	3200	200	21000	C-13D	64	127	BDTH		20

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 14: Halogen, Single-Ended, G22 Medium Bi-post (22mm Apart) (continued)																		
1000	T-7	EGT-Q1000T7/4CL	1, 62	EGT	—	39191	12	G22	120	3200	250	28500	C-13D	64	127	BDTH		20
	T-8	FKJ	62	FKJ	CP40	39655	12	G22	230	3200	200	26000	C-13	64	140	BDTH		20
		FKJ	62	FKJ	CP40	20286	12	G22	240	3200	200	26000	C-13	64	140	BDTH		20
1200	T-8	OC1200	62			91580	12	G22	80	3300	300	37500	C-13D	64	140	BDTH		20
	G-11	CP93	62		CP93	30384	12	G22	240	3200	200	33000	C-13D	64	140	BDTH		21
2000	G-13	CP92	62		CP92	30391	12	G22	120	3200	400	55000	C-13D	90	175	BDTH		22
		CP92	62		CP92	30394	12	G22	230	3200	400	52000	C-13D	90	175	BDTH		22
		CP92	62		CP92	30397	12	G22	240	3200	400	52000	C-13D	90	175	BDTH		22
2500	G-13	CP91	62		CP91	30415	12	G22	230	3200	400	67500	C-13D	90	175	BDTH		22
		CP91	62		CP91	30423	12	G22	240	3200	400	67500	C-13D	90	175	BDTH		22

Table 15: Halogen, Single-Ended, G38 Mogul Bi-post																		
1000	T-7	CYV-Q1000T7/4CL/BP	1, 62	CYV	—	42697	6	G38	120	3200	200	28500	C-13D	127	203	BDTH		23
1500	T-10	CXZ-Q1500T10/4CL	1, 62	CXZ	—	37564	6	G38	120	3200	400	44500	C-13	127	216	BDTH		23
2000	T-10	CYX-Q2000T10/4CL	1, 62	CYX	—	36636	6	G38	120	3200	350	59000	C-13	127	216	BDTH		23
	G-10	FKK	62	FKK	CP41	31844	12	G38	230	3200	400	54000	C-13	127	216	BDTH		23

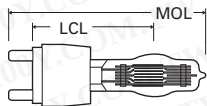


Fig. 23

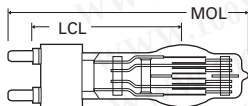


Fig. 24

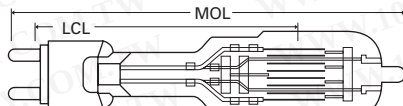


Fig. 25

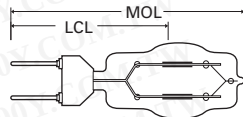


Fig. 28

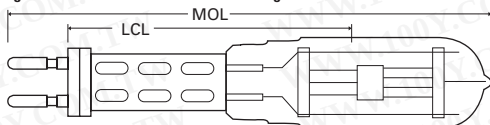


Fig. 26

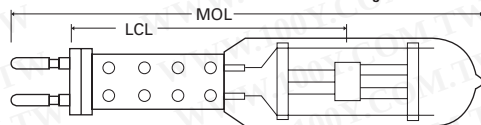


Fig. 27

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
2000	G-10	FKK	62	FKK	CP41	31849	12	G38	240	3200	400	54000	C-13	127	216	BDTH		23
	T-8	BWA-Q2000/4CL/BP	1, 55, 62	BWA	—	39587	6	G38	120	3200	500	54000	CC-8	127	210	BDTH		23
2500	G-13	CP94	62		CP94	30500	12	G38	240	3200	400	67500	C-13D	127	210	BDTH		23
3000	G-15	HX48	62		HX48	30503	12	G38	230	3200	400	82000	C-13	127	210	BD45		23
		HX48	62		HX48	30504	12	G38	240	3200	400	82000	C-13	127	210	BD45		23
5000	T-20	DPY-Q5000T20/4CL	1, 62	DPY	CP29	41736	6	G38	120	3200	500	143000	C-13	165	279	BD45		24
	G-20	CP29	62		CP29	30505	12	G38	230	3200	500	135000	C-13	165	279	BDTH		24

Table 15: Halogen, Single-Ended, G38 Mogul Bi-post (continued)

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 15: Halogen, Single-Ended, G38 Mogul Bi-post (continued)																		
5000	G-20	CP29	62		CP29	30506	12	G38	240	3200	500	135000	C-13	165	279	BDTH		24
	T20	HX5000	62			22959	6	G38	120	3200	250	147000	Axial	165	280	Any		24
		HX5000/240	62			71379	6	G38	240	3200	250	133000	Axial	165	270	Any		24
10000	T-24	DTY-Q10M/T24/4CL	1, 62	DTY	—	24886	4	G38	120	3200	300	290000	C-13	254	400	BD45		25
	T-27	CP83	62		CP83	12036	1	G38	230	3200	500	280000	C-13	254	405	BDTH		25
		CP83	62		CP83	12037	1	G38	240	3200	500	280000	C-13	254	405	BDTH		25

Table 16: Halogen, Single-Ended, GX38 Mogul Bi-post (38mm Apart)																		
12000	T-26	Q12MT26/4CL	62	—	—	48770	1	GX38	120	3400	150	420000	C-13	254	410	BD45		26
		Q12MT26/4CL	62	—	—	48771	1	GX38	230	3400	130	420000	C-13	254	410	BD45		26
		Q12MT26/4CL	62	—	—	48779	1	GX38	240	3400	130	420000	C-13	254	410	BD45		26
20000	T-32	BCM-Q20MT32/4CL	62	BCM	—	48772	1	GX38	208	3200	400	580000	C-13	354	560	BD45		27
		BCM-Q20MT32/4CL	62	BCM	—	48773	1	GX38	230	3200	400	580000	C-13	354	560	BD45		27
		BCM-Q20MT32/4CL	62	BCM	—	48774	1	GX38	240	3200	400	580000	C-13	354	560	BD45		27
24000	T-32	Q24MT32/4CL	62	—	—	48776	1	GX38	230	3400	150	800000	C-13	354	560	BD45		27
		Q24MT32/4CL	62	—	—	48777	1	GX38	240	3400	150	800000	C-13	354	560	BD45		27

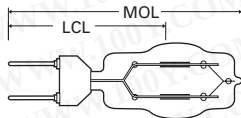


Fig. 28

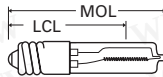


Fig. 29

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 17: Halogen, Single-Ended, GX38Q, High Volt, 2 Filament																		
1250	G-18	CP105-1250/650	62		CP105	34056	12	GX38q	230	3050	250	27M 13M	2C-13	143	220	BD45		28
		CP105-1250/650	62		CP105	34024	12	GX38q	240	3050	250	27M 13M	2C-13	143	220	BD45		28
		CP30-1250/1250	62		CP30	30513	12	GX38q	230	3200	300	27M 56M	2C-13	143	220	BD45		28
		CP30-1250/1250	62		CP30	30514	12	GX38q	240	3200	300	27M 56M	2C-13	143	220	BD45		28
	G-22	CP58-1250/2500	62		CP58	30517	12	GX38q	240	3200	300	27M 91M	2C-13	143	220	BD45		28

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 17: Halogen, Single-Ended, GX38Q, High Volt, 2 Filament (continued)																		
2500	G-22	CP32-2500/2500	62		CP32	30518	12	GX38q	230	3200	300	59M 127M	2C-13	143	220	BD45		28
		CP32-2500/2500	62		CP32	30519	12	GX38q	240	3200	300	59M 127M	2C-13	143	220	BD45		28

Table 18: Halogen, Single-Ended, E11 Miniature Candelabra Screw																		
100	T-4	Q100CL/MC/2V	62	ESN	—	44385	6	E11	120	2950	750	1800	CC-2V	35	71	Any		29
		Q100CL/MC	62	—	—	15507	6	E11	120	2950	2000	1600	CC-8	35	71	Any		29
		Q100MC	62	—	—	16452	6	E11	120	2950	2000	1550	CC-8	35	71	Any	Frosted	29
150	T-4	Q150CL/MC	62	ETG	—	43694	6	E11	120	2950	2000	2800	CC-8	35	76	Any		29
		Q150MC	62	ETH	—	44654	6	E11	120	2950	2000	2700	CC-8	35	76	Any	Frosted	29
250	T-4	Q250CL/MC	62	—	—	43700	6	E11	130	2950	2000	5000	CC-8	41	80	Any		29
		Q250CL/MC	62	EHT	—	43699	6	E11	120	2950	2000	5000	CC-8	41	80	Any		29
		Q250MC	62	—	—	43696	6	E11	130	2950	2000	4850	CC-8	41	80	Any	Frosted	29
		Q250MC	62	ESM	—	43695	6	E11	120	2950	2000	4850	CC-8	41	80	Any	Frosted	29
400	T-4	Q400CL/MC	62	—	—	43707	6	E11	120	2950	2000	8250	CC-8	51	92	Any		29
		Q400MC	62	—	—	43706	6	E11	120	2950	2000	7850	CC-8	51	92	Any	Frosted	29

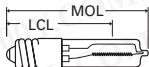


Fig. 29



Fig. 30

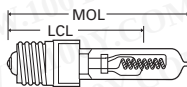


Fig. 31



Fig. 32



Fig. 33

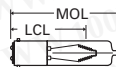


Fig. 34

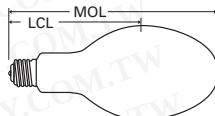


Fig. 77

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 18: Halogen, Single-Ended, E11 Miniature Candelabra Screw (continued)																		
500	T-4	EVR-Q500CL/MC	16, 62	EVR	—	47950	6	E11	120	2950	2000	10450	CC-8	51	92	Any		29
Table 19: Incandescent, Single-Ended, E26 Medium Screw																		
250	A-21	BBA (#1)	21	BBA	—	40563	24	E26	120	3400	3	8000	C-9		125	Any	Frosted	30
		BCA (#B1)		BCA	—	40564	24	E26	120	4800	3	5000	C-9		125	Any	Frosted	30
	A-23	ECA		ECA	—	40565	24	E26	120	3200	20	6500	C-9		152	Any	Frosted	30
300	A-21	BAH		BAH	—	40886	24	E26	115	3200	20	9000	C-9		125	Any	Frosted	30
400	G-30	400G/FL		—	—	21363	60	E26	120		800	6800	C-5		130	BDTH	Frosted	30
500	PS-25	EBV (#2)	21	EBV	—	40566	24	E26	120	3400	6	17000	C-9	133	176	Any	Frosted	30
		EBW (#B2)		EBW	—	40567	24	E26	120	4800	6	10500	C-9	133	176	Any	Frosted	30
		ECT		ECT	—	40568	24	E26	120	3200	60	13650	C-9	133	176	Any	Frosted	30

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 20: Halogen, Single-Ended, E39 Mogul Screw																		
1000	PS-52	DKZ/DSE-Q1000 PS52/4	1, 51, 62	DKZ	—	39582	12	E39	120	3200	750	28000	CC-8	241	330	Any	Frosted	30
	E37	DSE-Q1000	1, 62	DSE		19926	10	E39	120	3200	750	28000	CC-8	241	330	Any	Frosted	31
1500	PS-52	DKX/DSF-Q1500 PS52/4	1, 51, 62	DKX	—	40357	12	E39	120	3200	1000	41000	C-8	241	330	Any	Frosted	30
	E37	DSF-Q1500	1, 62	DSF		19927	10	E39	120	3200	1000	41000	C-8	241	330	Any	Frosted	31
2000	T-8	BWF-Q2000/4CL	62	BWF	—	37086	6	E39	120	3200	500	54000	CC-8	133	191	Any		31
	T-10	CP59	62	CP59		29426	12	E39	240	3200	300	50000	CC-8	133	191	Any		31
Table 21: Halogen/Incandescent, Single-Ended, BA15d Double Contact Bayonet																		
30	S-11	BLC		BLC	—	29140	120	BA15d	120	2775	50	400	CC-2V	35	60	Any		32
50	S-11	BLX		BLX	—	29156	120	BA15d	120	2850	50	780	CC-2V	44	60	BDTH		32
	T-8	CAX		CAX	—	29171	24	BA15d	120	2875	50	775	CC-2V	35	79	BD30		33
75	T-8	CBX/CBS	20	CBX	—	29208	24	BA15d	120	2925	50	1200	CC-13	35	79	BD30		33
100	T-8	CDJ		CDJ	—	29266	24	BA15d	120	2975	50	2000	CC-2V	35	79	BD30		33
		CEB		CEB	—	29244	24	BA15d	120	2975	50	1850	CC-13	35	79	BD30		33
	T-4	Q100CL/DC/2V	62	ESR	—	44386	6	BA15d	120	2950	750	1800	CC-2V	35	62	Any		34

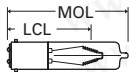


Fig. 34



Fig. 35

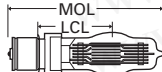


Fig. 36

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 21: Halogen/Incandescent, Single-Ended, BA15d Double Contact Bayonet (continued)																		
100	T-4	Q100CL/DC	62	—	—	15508	6	BA15d	120	2950	2000	1600	CC-8	35	62	Any		34
		Q100DC	62	—	—	16451	6	BA15d	120	2950	2000	1550	CC-8	35	62	Any	Frosted	34
150	T-4	Q150CL/DC/2V	62	ESP	—	44384	6	BA15d	120	2950	1000	2800	CC-2V	35	62	Any		34
		Q150CL/DC	62	ETC	—	43693	6	BA15d	120	2950	2000	2800	CC-8	35	62	Any		34
		Q150DC	62	ETF	—	44653	6	BA15d	120	2950	2000	2700	CC-8	35	62	Any	Frosted	34
200	T-4	FEV-Q200/4CL/DC	62	FEV	—	14119	6	BA15d	120	3200	50	5500	CC-2V	35	62	Any		34
250	T-4	Q250CL/DC	62	ESS	—	43697	6	BA15d	120	2950	2000	5000	CC-8	41	76	Any		34
		Q250CL/DC	62	—	—	43698	6	BA15d	130	2950	2000	5000	CC-8	41	76	Any		34
		Q250DC	62	ETB	—	43701	6	BA15d	120	2950	2000	4850	CC-8	41	76	Any	Frosted	34
		Q250DC	62	—	—	43702	6	BA15d	130	2950	2000	4850	CC-8	41	76	Any	Frosted	34
500	T-4	Q500CL/DC	62	—	—	43710	6	BA15d	120	2950	2000	10450	CC-8	54	87	Any		34
		Q500DC	62	—	—	43709	6	BA15d	120	2950	2000	10100	CC-8	54	87	Any	Frosted	34

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 22: Halogen/Incandescent, Single-Ended, P28s Medium Prefocus																		
500	T-6	BTL-Q500T6/CL/P	62	BTL	T17	11966	12	P28s	120	3000	500	11000	C-13	55	133	BDTH		35
		BTM-Q500T6/ 4CL/2P	62	BTM	—	16465	12	P28s	120	3200	150	13000	C-13	55	130	BDTH		35
		FKF	62	FKF	T17	30535	12	P28s	230	2950	750	9500	C-13	55	130	BDTH		35
		T17	62		T17	30536	12	P28s	240	2950	750	9500	C-13	55	130	BDTH		35
		T28	62		T28	39731	12	P28s	230	3000	300	11000	C-13	55	130	BDTH		35
		T28	62		T28	39733	12	P28s	240	3000	300	11000	C-13	55	130	BDTH		35
650	T-8	FKB	62	FKB	T13	30541	12	P28s	230	3000	750	13500	C-13	55	130	BDTH		35
		T13	62		T13	30542	12	P28s	240	3000	750	13500	C-13	55	130	BDTH		35
		CP51	62		CP51	20324	12	P28s	240	3200	200	16900	C-13	55	130	BDTH		35
750	T-7	BTN-Q750T7/CL/2P	1, 62	BTN	—	11953	12	P28s	120	3050	500	17600	C-13D	55	121	BD30		35
		BTP-Q750T7/4CL/2P	1, 62	BTP	—	11954	12	P28s	120	3200	200	21000	C-13D	55	121	BD30		35
1000	T-7	BTR-Q1000T7/ 4CL/2P	1, 62	BTR	—	11955	12	P28s	120	3200	250	28500	C-13D	55	121	BD30		35
	G-11	FKD	62	FKD	T14	20385	12	P28s	230	3050	750	23000	C-13D	55	130	BDTH		36
		T14	62		T14	20388	12	P28s	240	3050	750	23000	C-13D	55	130	BDTH		36

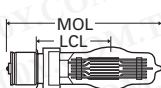


Fig. 36

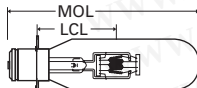


Fig. 37

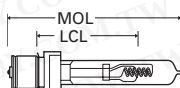


Fig. 38

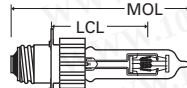


Fig. 39

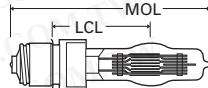


Fig. 40

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila-ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
1000	G-11	FKN	62	FKN	CP52	30546	12	P28s	240	3200	200	26000	C-13D	55	121	BDTH		36
	T-20	DRS		DRS	A1/58	29947	24	P28s	120	3325	25	28500	C-13D	55	146	BD30		37
		DRB		DRB	—	29968	24	P28s	120	3350	25	32000	C-13	55	146	BD30		37

Table 22: Halogen/Incandescent, Single-Ended, P28s Medium Prefocus (continued)

Table 23: Halogen, Single-Ended, P28s with CC-8 Coil																		
500	T-4	EGE-Q500CL/P	62	EGE	—	39135	12	P28s	120	2950	2000	10450	CC-8	89	152	Any		38
		EGC-Q500/5CL/P	62	EGC	—	39134	12	P28s	120	3150	500	12700	CC-8	89	152	Any		38
750	T-6	EGG-Q750CL/P	62	EGG	—	39137	12	P28s	120	3000	2000	15750	CC-8	89	152	Any		38
		EGF-Q750/4CL/P	62	EGF	—	39136	12	P28s	120	3200	300	20400	CC-8	89	152	Any		38
1000	T-6	EGJ-Q1000/4/CL/P	62	EGJ	—	38853	12	P28s	120	3200	300	27500	CC-8	89	152	Any		38
		EGK-Q1000/4/P	62	EGK	—	38852	12	P28s	120	3200	300	26500	CC-8	89	152	Any	Frosted	38
		EGM-Q1000CL/P	62	EGM	—	39138	12	P28s	120	3000	2000	21500	CC-8	89	152	Any		38

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Product Order Code	Std. Pack Qty.	Base Type	Design Volts	Design Color Temp (K)	Rated Life (hrs)	Initial Design Lumens	Fila- ment Type	LCL (mm)	MOL (mm)	Burning Position	Bulb Finish	Fig. No.
Table 23: Halogen, Single-Ended, P28s with CC-8 Coil (continued)																		
1000	T-6	EWE	62	EWE	—	30534	12	P28s	240	3200	250	26500	CC-8	89	152	BDTH		38
	G-11	FKE	62	FKE	T15	30532	12	P28s	240	3050	750	23000	C-13	89	160	BDTH		36
Table 24: Halogen, Single-Ended, P40 Mogul Prefocus																		
1000	T-7	BVT-Q1000T7/ CL/MP	1, 62	BVT	—	12554	6	P40s	120	3050	500	24500	C-13D	100	184	BDTH		39
		BVV-Q1000T7/ 4CL/MP	1, 62	BVV	—	12553	6	P40s	120	3200	200	28500	C-13D	100	184	BDTH		39
	G-11	T16	62		T16	30521	12	P40s	240	3050	750	23000	C-13	87	180	BDTH		40
1500	T-8	DTA-Q1500T8/4CL	62	DTA	—	30522	6	P40s	120	3200	300	41000	C-13D	87	200	BDTH		39
2000	T-10	BVW-Q2000T10/ 4CL/MP	62	BVW	CP53	12555	6	P40s	120	3200	350	59000	C-13	100	215	BDTH		39
	G-13	CP53	62		CP53	20311	12	P40s	230	3200	400	54000	C-13	87	200	BDTH		40
		CP53	62		CP53	20312	12	P40s	240	3200	400	54000	C-13	87	200	BDTH		40

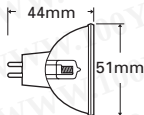


Fig. 41

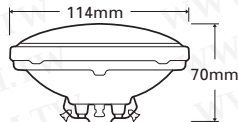


Fig. 42

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 25: MR16 (2" Reflector)																
50	EFM BULK 50PK	63	EFM		8	21276	50	GX5.3	3300	50					Any	41
75	EFN	63	EFN		12	21277	50	GX5.3	3350	50					Any	41
100	EFP BULK 50PK	63	EFP		12	21278	50	GX5.3	3350	50					Any	41
	EXV	63	EXV		12	12003	20	GX5.3	3350	50				3100	Any	41
150	EFR	63	EFR		15	21279	50	GX5.3	3350	50					Any	41
	EZK	63	EZK	—	120	15477	20	GY5.3	3200	200				3600	Any	41
250	ENH	63	ENH	—	120	38686	20	GY5.3	3250	175				11700	BDTH	41
	EXX	63	EXX	—	120	11750	20	GY5.3	3300	25				6750	Any	41
	ELC	63	ELC		24	37462	20	G5.3	3400	50					Any	41
	ELC/500	18, 63	ELC		24	15377	20	G5.3	3350	500					Any	41

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 26: PAR36 (4.5" Reflector)																
25	25PAR36	12			5.5	14553	12	Scr. Term.	3000	1000	VNSP		5	19700	Any	42
	25PAR36NSP	12	—	—	12	14554	12	Scr. Term.		2000	NSP		9	2600	Any	42
	25PAR36WFL	12	—	—	12	14555	12	Scr. Term.		2000	WFL	49 X 41	37 X 26	360	Any	42
	25PAR36/VWFL	12	—	—	12	14556	12	Scr. Term.		2000	VWFL		55	160	Any	42
30	H4515	12, 307	—	—	6.4	15133	12	Scr. Term.		100	VNSP	5.5 X 4		67000	Any	42
	4515	12	—	—	6.4	24673	12	Scr. Term.		100	VNSP	5 X 5		55000	Any	42
	4405	12	—	—	12.8	24425	12	Scr. Term.		100	VNSP	6 X 5		50000	Any	42
	H4405	12, 307	—	—	12.8	15129	12	Scr. Term.		100	VNSP	7 X 4		66000	Any	42
35	35PAR36/H/SP5	307	—	—	12	19873	12	Scr. Term.	3050	4000	VNSP		5	25000	Any	42
	35PAR36/H/FL30	307	—	—	12	19877	12	Scr. Term.	3050	4000	WFL		30	900	Any	42
	35PAR36/H/SP8	307	—	—	12	19876	12	Scr. Term.	3050	4000	NSP		8	20000	Any	42
37.5	H7616	307	—	—	12.8	42838	12	Scr. Term.		300	VNSP	7 X 4		70000	Any	42
50	50PAR36/H/SP8	307	—	—	12	19879	12	Scr. Term.	3050	4000	NSP		8	30000	Any	42
	50PAR36/H/SP5	307	—	—	12	19878	12	Scr. Term.	3050	4000	VNSP		5	35000	Any	42
	50PAR36/H/FL30	307	—	—	12	19880	12	Scr. Term.	3050	4000	WFL		30	1300	Any	42
	50PAR36VNSP	12	—	—	12	12892	12	Scr. Term.		2000	VNSP		6	19000	Any	42
	50PAR36NSP	12	—	—	12	16540	12	Scr. Term.		2000	NSP		10	11000	Any	42

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

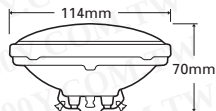


Fig. 42

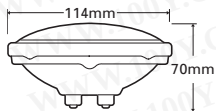


Fig. 43

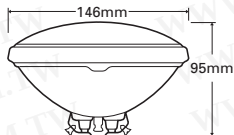


Fig. 44

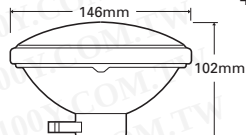


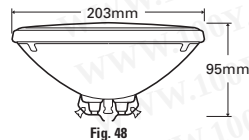
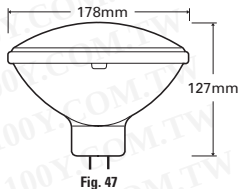
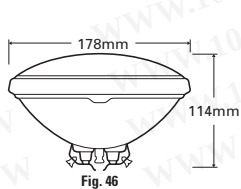
Fig. 45

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 26: PAR36 (4.5" Reflector) (continued)																
50	50PAR36WFL	12	—	—	12	16541	12	Scr. Term.		2000	WFL	48 X 41	36 X 28	900	Any	42
	50PAR36WFL/4	12	—	—	12	11468	12	Scr. Term.		4000	WFL	48 X 41	36 X 28	720	Any	42
	50PAR36VWFL		—	—	12	16542	12	Scr. Term.		2000	VWFL		55	600	Any	42
	H7604	307	—	—	12.8	43576	12	Scr. Term.		100	VNSP	7 X 5		100000	Any	42
	4505		—	—	28	24640	12	Scr. Term.		400	VNSP	11 X 5		45000	Any	42
100	4509		—	—	13	24650	12	Scr. Term.		25	VNSP	12 X 6		110000	Any	42
	4509X	12	—	—	13	41503	12	Scr. Term.		25	VNSP	12 X 6		110000	Any	42
	4595		—	—	28	24892	12	Scr. Term.		300	VNSP	14 X 6		60000	Any	42
	4591		—	—	28	24882	12	Scr. Term.		25	VNSP	12 X 6		90000	Any	42
	4594		—	—	28	24891	12	Scr. Term.		300	VNSP	13 X 7		70000	Any	42
650	DWE-Q650PAR36/1	63	DWE	—	120	41667	12	Scr. Term.	3200	100	MFL		40 X 30	24000	H15	42
	FAY-Q650PAR36/3D	63	FAY	—	120	41668	12	Ferrule	5000	30	SP		25 X 15	36000	H15	43

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 26: PAR36 (4.5" Reflector) (continued)																
650	FBE-Q650PAR36/5D	63	FBE	—	120	41669	12	Scr. Term.	5000	30	SP		25 X 15	36000	H15	42
	FBO-Q650PAR36/5	63	FBO	—	120	41671	12	Scr. Term.	3400	30	SP		25 X 15	67000	H15	42
	FCW-Q650PAR36/6	63	FCW	—	120	41672	12	Ferrule	3200	100	FL		60 X 55	9000	H15	43
	FCX-Q650PAR36/7	63	FCX	—	120	41673	12	Ferrule	3200	100	MFL		40 X 30	24000	H15	43

Table 27: PAR46 (5.75" Reflector)																
25	25PAR46	12	—	—	5.5	14562	12	Scr. Term.		1000	VNSP	5.5 X 4.5		55000	Any	44
30	4535	12	—	—	6.4	24735	12	Scr. Term.		100	VNSP	5.5 X 4		95000	Any	44
	4435	12	—	—	12.8	24577	12	Scr. Term.		100	VNSP	5 X 5		75000	Any	44
35	4436		—	—	12.8	24582	12	Scr. Term.		300	VNSP	10 X 4		60000	Any	44
50	H7635	307	—	—	12.8	43591	12	Scr. Term.		100	VNSP	6.5 X 4		160000	Any	44
150	150PAR46/1	64	—	—	32	19512	12	Scr. Term.		800	VNSP	9 X 9		100000	Any	44
	150PAR46/3MFL	64	—	—	125	41968	12	MSP	2750	2000	MFL	39 X 25	26 X 13	8000	Any	45
200	200PAR46/3NSP	64	—	—	120	20115	12	MSP	2750	2000	NSP	23 X 19	12 X 8	31000	Any	45
	200PAR46/3NSP	64	—	—	130	20117	12	MSP	2750	2000	NSP	23 X 19	12 X 8	31000	Any	45
	200PAR46/3MFL	64	—	—	120	20138	12	MSP	2750	2000	MFL	40 X 24	27 X 13	11500	Any	45
	200PAR46/3MFL	64	—	—	130	20140	12	MSP	2750	2000	MFL	40 X 24	12 X 13	11500	Any	45
250	4553		—	—	28	24799	12	Scr. Term.		25	VNSP	11 X 12		300000	Any	44

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY



Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 28: PAR56 (7" Reflector)																
100	4545		—	—	12	24768	12	Scr. Term.		100	VNSP	9 X 5		225000	Any	46
	4543		—	—	12.5	24764	12	Scr. Term.		50	VNSP	9 X 5		225000	Any	46
120	120PAR56/VNSP	64	—	—	12	19023	12	Scr. Term.		2000	VNSP	15 X 10	8 X 6	60000	Any	46
	120PAR56/MFL	64	—	—	12	19024	12	Scr. Term.		2000	MFL	29 X 15	18 X 9	19000	Any	46
	120PAR56/WFL	64	—	—	12	19025	12	Scr. Term.		2000	WFL	50 X 25	35 X 18	5625	Any	46
200	200PAR		—	—	30	20122	12	Scr. Term.		350	VNSP	9 X 9		230000	Any	46
	200PAR56/MFL	64	—	—	120	49889	12	MEP	2750	2000	MFL	34 X 22	22 X 13	15000	Any	47
240	240PAR56/VNSP		—	—	12	20575	12	Scr. Term.		2000	VNSP	17 X 10	9 X 6	140000	Any	46
	240PAR56/MFL		—	—	12	20576	12	Scr. Term.		2000	MFL	28 X 15	19 X 8	46000	Any	46
	240PAR56/WFL		—	—	12	20577	12	Scr. Term.		2000	WFL	50 x 27	35 x 18	13000	Any	46

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 28: PAR56 (7" Reflector) (continued)																
300	300PAR56/NSP	64	—	—	120	20803	12	MEP	2750	2000	NSP	20 X 14	10 X 8	68000	Any	47
	300PAR56/MFL	64	—	—	120	20836	12	MEP	2750	2000	MFL	34 X 19	23 X 11	24000	Any	47
	300PAR56/WFL	64	—	—	120	20849	12	MEP	2750	2000	WFL	57 X 27	37 X 18	11000	Any	47
	300PAR/WFL	64	—	—	130	20851	12	MEP	2750	2000	WFL	57 X 27	37 X 18	11000	Any	47
	300PAR/NSP	64	—	—	230	20853	12	MEP		2000	NSP			40000	Any	47
	300PAR/MFL	64			230	20852	12	MEP		2000	MFL			30000	Any	47
	300PAR/WFL	64			230	20854	12	MEP		2000	WFL			10000	Any	47
	300PAR/MFL	64			240	18677	12	MEP		2000	MFL			30000	Any	47
	300PAR/NSP	64			240	18676	12	MEP		2000	NSP			40000	Any	47
	300PAR/WFL	64			240	18678	12	MEP		2000	WFL			10000	Any	47
450	4541		—	—	28	24756	12	Scr. Term.		25	NSP	15 X 11		470000	Any	46
500	Q500PAR56NSP	63	—	—	120	43494	6	MEP	2950	4000	NSP	32 X 15	13 X 8	96000	Any	47
	Q500PAR56MFL	63	—	—	120	43495	6	MEP	2950	4000	MFL	42 X 20	26 X 10	43000	Any	47
	Q500PAR50WFL	63	—	—	120	43496	6	MEP	2950	4000	WFL	66 X 34	44 X 20	19000	Any	47
Table 29: PAR64 (8" Reflector)																
120	120PAR	12	—	—	6	39395	12	Scr. Term.		3000	VNSP	9 X 5		180000	Any	48
250	4552		—	—	28	40576	12	Scr. Term.		25	VNSP	8 X 7		50000	Any	48

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

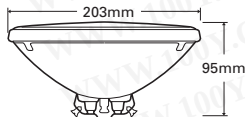


Fig. 48

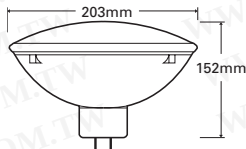


Fig. 49

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 29: PAR64 (8" Reflector) (continued)																
600	4559		—	—	28	40578	12	Scr. Term.		25	VNSP	11 X 12		600000	Any	48
	Q4559	63	—	—	28	40579	12	Scr. Term.		100	VNSP	12 X 8		600000	Any	48
	Q4559X	63	—	—	28	42552	12	Scr. Term.		100	VNSP	11 X 7.5		765000	Any	48
500	500PAR64/NSP	64	—	—	120	39406	12	EMEP	2800	2000	NSP	19 X 14	12 X 7	110000	Any	49
	500PAR64/MFL	64	—	—	120	39409	12	EMEP	2800	2000	MFL	35 X 19	23 X 11	37000	Any	49
	500PAR64/WFL	64	—	—	120	39412	12	EMEP	2800	2000	WFL	55 X 32	42 X 20	13000	Any	49
	500/PAR64/MFL	64	—	—	230	39411	12	EMEP	2700	2000	WFL	32 X 19	21 X 10		Any	49
	500/PAR64/WFL	64	—	—	230	39414	12	EMEP	2700	2000	WFL	55 X 32	42 X 20		Any	49
	Q500PAR64/VNSP	63		CP86	230	25492	6	EMEP	3200	300	VNSP	16 X 13	10 X 7	240000	Any	49
	Q500PAR64/VNSP	63		CP86	240	25493	6	EMEP	3200	300	VNSP	16 X 13	10 X 7	240000	Any	49
	Q500PAR64/NSP	63		CP87	230	25504	6	EMEP	3200	300	NSP	19 X 16	11 X 9	140000	Any	49

Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 29: PAR64 (8" Reflector) (continued)																
500	Q500PAR64/NSP	63		CP87	240	25507	6	EMEP	3200	300	NSP	19 X 16	11 X 9	140000	Any	49
	Q500PAR64/MFL	63		CP88	230	25513	6	EMEP	3200	300	MFL	32 X 19	21 X 10	65000	Any	49
	Q500PAR64/MFL	63		CP88	240	25520	6	EMEP	3200	300	MFL	32 X 19	21 X 10	65000	Any	49
1000	Q1000PAR64NSP	63	—	—	120	43497	6	EMEP	3000	4000	NSP	31 X 14	15 X 8	200000	Any	49
	Q1000PAR64MFL	63	—	—	120	43498	6	EMEP	3000	4000	MFL	45 X 22	28 X 12	80000	Any	49
	Q1000PAR64WFL	63	—	—	120	43499	6	EMEP	3000	4000	WFL	72 X 45	48 X 24	33000	Any	49
	FFN-Q1000PAR64/1	63	FFN		120	13233	6	EMEP	3200	800	VNSP	24 X 10	12 X 6	400000	Any	49
	FFP-Q1000PAR64/2	63	FFP		120	13229	6	EMEP	3200	800	NSP	26 X 14	14 X 7	330000	Any	49
	FFR-Q1000PAR64/5	63	FFR		120	13228	6	EMEP	3200	800	MFL	44 X 21	28 X 12	125000	Any	49
	FFS-Q1000PAR64/6	63	FFS		120	13227	6	EMEP	3200	800	WFL	71 X 45	48 X 24	40000	Any	49
	FGM-Q1000PAR64/3D	63	FGM		120	13226	6	EMEP	5200	200	NSP	24 X 12	13 X 6	200000	Any	49
	FGN-Q1000PAR64/7D	63	FGN		120	13225	6	EMEP	5200	200	MFL	43 X 20	27 X 11	70000	Any	49
	EXC-Q1MPAR64CP60	63	EXC	CP60	230	93409	6	EMEP	3200	300	VNSP	20 X 17	12 X 9	352000	Any	49
	EXC-Q1MPAR64CP60	63	EXC	CP60	240	10925	6	EMEP	3200	300	VNSP	20 X 17	12 X 9	352000	Any	49
	EXD-Q1MPAR64CP61	63	EXD	CP61	230	10928	6	EMEP	3200	300	NSP	22 X 20	14 X 10	297000	Any	49
	EXD-Q1MPAR64CP61	63	EXD	CP61	240	10929	6	EMEP	3200	300	NSP	22 X 20	14 X 10	297000	Any	49
	EXE-Q1MPAR64CP62	63	EXE	CP62	230	10930	6	EMEP	3200	300	MFL	38 X 20	24 X 11	138000	Any	49

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

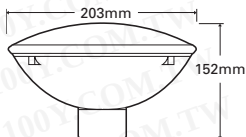
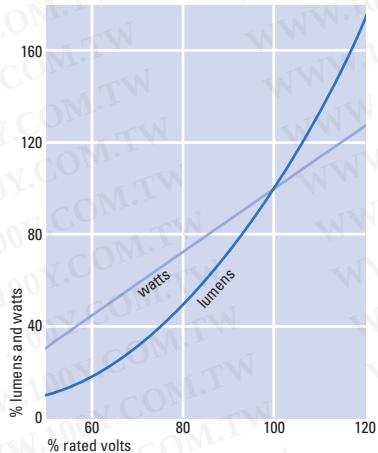


Fig. 49

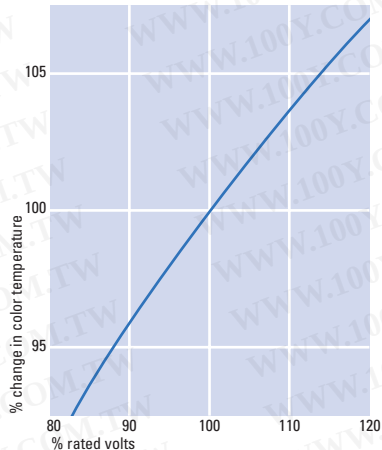
Watts	GE Description	Footnotes/ Safety Notices	ANSI Code	LIF Code	Volts	Product Order Code	Std. Pack Qty.	Base	Design Color Temp (K)	Rated Life (hrs)	Beam Descr.	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Approx. CP ⁶	Burning Position	Fig. No.
Table 29: PAR64 (8" Reflector) (continued)																
1000	EXE-Q1MPAR64CP62	63	EXE	CP62	240	10931	6	EMEP	3200	300	MFL	38 X 20	24 X 11	138000	Any	49
	EXG/PAR64/WFL	63	EXG		230	35482	6	EMEP	3200	300	WFL	73 X 36	57 X 21	38000	Any	49
	EXG/PAR64/WFL	63	EXG		240	35483	6	EMEP	3200	300	WFL	73 X 36	57 X 21	38000	Any	49
	CP95	63		CP95	230	30277	6	EMEP	3200	300		125 X 95	70 X 70	15000	Any	49
	CP95	63		CP95	240	30278	6	EMEP	3200	300		125 X 95	70 X 70	15000	Any	49
1200	GFC-Q1200PAR64/1	63	GFC	—	120	34808	6	EMEP	3200	400	VNSP	14 x 16	8 x 10	540000	Any	49
	GFB-Q1200PAR64/2	63	GFB	—	120	34810	6	EMEP	3200	400	NSP	16 X 18	8 X 10	450000	Any	49
	GFA-Q1200PAR64/5	63	GFA	—	120	34812	6	EMEP	3200	400	MFL	22 X 36	13 X 24	160000	Any	49

QUARTZLINE® HALOGEN LAMP PERFORMANCE

Variation of Light Output and Wattage with Applied Voltage for a Typical Studio Lamp

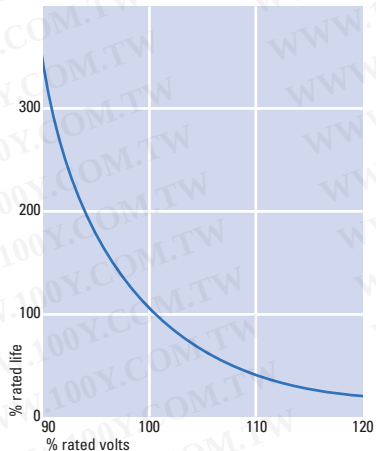


Color Temperature Variation with Voltage for a Typical Studio Lamp



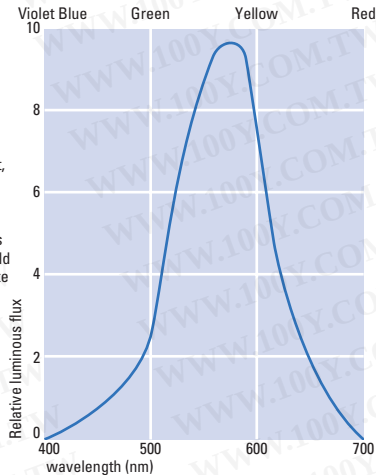
QUARTZLINE® HALOGEN LAMP PERFORMANCE (CONTINUED)

Typical Life Variation Against Operation Voltage



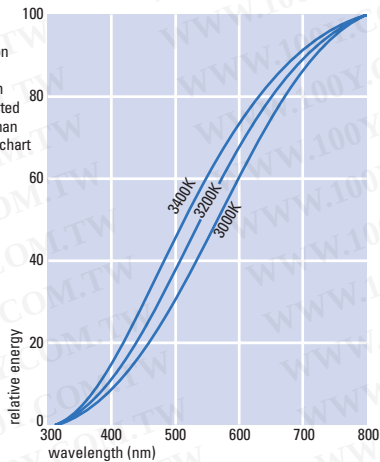
Spectral Distribution of Luminous Flux (Lumens) for Typical Theater and Studio Lamp

Calculations of lamp life achievement taken from this graph should be considered strictly theoretical as the life factor is considerably influenced by frequency of switching, environment, vibration, handling, cleaning, etc. This graph is based on the average achievement of numerous lamp tests, and thus should be used as an approximate guide to performance.



Total Spectral Energy Distribution of Typical Studio Lamp

Spectral energy distribution can be shown in absolute terms whereas radiation in terms of visible light is related to the response of the human eye. (Spectral distribution chart on previous page).



Operating Temperature of Tungsten Halogen Studio Lamps

The following maximum and minimum temperatures are suggested for optimum life. Operation outside these figures will not necessarily cause immediate failure but will affect life adversely to an increasing extent.

Seal: 500°C Maximum

Above this figure the sealing foil oxidises at a rate increasing with temperature and is frequently the cause of short life due to seal failure.

Bulb: 250° – 800°C

Outside this range the halogen cycle becomes less efficient and blackening may occur. Temperatures above 1200°C will cause the bulb to soften.

Pins: 350°C Maximum

Above this figure the plating on the pins may lose adhesion and the contact will deteriorate. Such

QUARTZLINE® HALOGEN LAMP PERFORMANCE (CONTINUED)

deterioration may form local hot spots which rapidly worsen and may result in arcing and irreparable damage to both lamp and holder. Should signs of this be evident on removal of a failed lamp, it is important

that a good contact is restored by replacing the lampholder before the next lamp is fitted. Otherwise the new lamp will rapidly fail in a similar manner.

Turn On Time of Studio Lamps

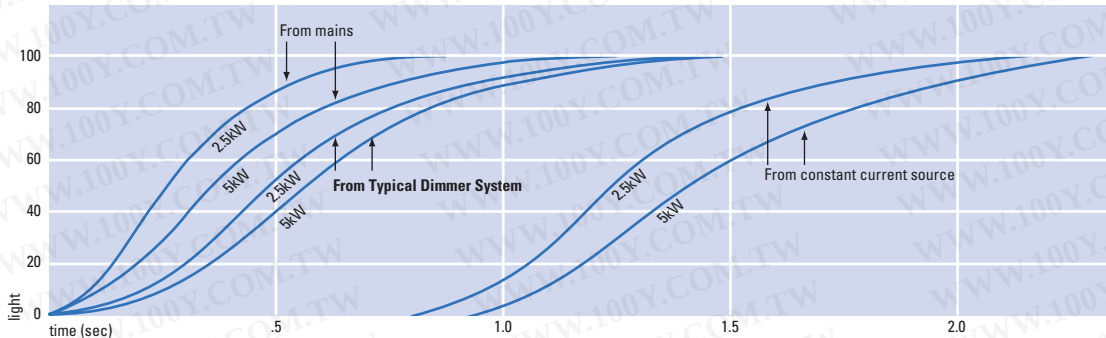




Fig. 50



Fig. 51



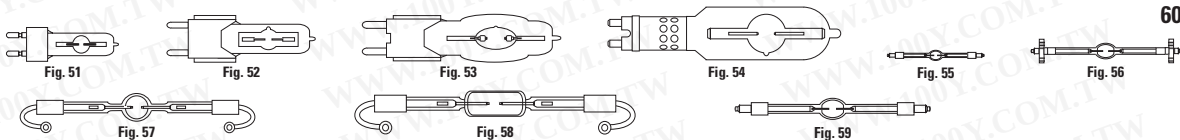
Fig. 75



Fig. 76

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Std. Pack Qty.	Base	Volts	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	CIE Color x y	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 30: Discharge-CSR/CSD (Daylight) Metal Halide, Single-Ended Cold Start																	
250	T7	CSD250/2/SE	14, 63	27817	10	GY9.5	94	18000	9000	60+	.287 .296	5.5	3000	55	108	Any	50
575	T9	CSR575/2/T/SE	14, 63	49492	10	GX9.5	97	42000	7200	65+	.301 .302	7	1000	65	125	Any	50
		CSR575/2/SE	14, 63	15378	10	GX9.5	97	46000	7200	65+	.302 .320	7	1000	65	125	Any	50
700	T9	CSR700/2/SE	14, 63	49491	10	G22	70	55000	7200	70+	.312 .325	7.5	1000	75	155	Any	51
1200	T12	CSR1200/2/SE	14, 63	49490	6	G22	100	110000	7200	75+	.305 .315	10	800	85	175	Any	51
Table 31: Discharge-CSR (Daylight) Metal Halide, Single-Ended Short Arc																	
700	G7	CSR700/SA	14, 63	15380	10	GY9.5	70	58000	5600	70+	.330 .342	4.3	500	39	85	Any	75
		CSR700/SA/72	14, 63	45234	10	GY9.5	70	58000	7200	70+	.330 .342	4.3	500	39	85	Any	75
1200	G9	CSR1200/SA	14, 18, 63	21849	6	GY22	100	96000	5800	75+	.326 .330	7.5	750	59	135	Any	76
1800	G9	CSR2000/SA	14, 18, 63	21801	6	GY22	100	155000	6000	75+	.323 .329	7.5	750	59	135	Any	76
Table 32: Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike																	
125	T5	CSR125/SE/HR	14, 63	48461	10	GZX9.5	80	9400	5600	90+	.323 .328	4	200	39	75	Any	50
200	T6	CSR200/SE/HR	14, 63	48462	10	GZY9.5	70	15000	5600	90+	.323 .328	5	200	39	80	Any	50
400	T7	CSR400/SE/HR/75	14, 63	45238	10	GZZ9.5	70	28000	7500	70+	.323 .320	5	1500	60	110	Any	50
		CSR400/SE/HR	14, 18, 63	21853	10	GZZ9.5	70	32000	6000	85+	.323 .320	6.5	750	60	110	Any	50

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY



Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Std. Pack Qty.	Base	Volts	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	CIE Color x y	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 32: Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike (continued)																	
575	T9.5	CSR575/SE/HR	14, 63	48463	10	G22	95	48000	6000	90+	.323 .328	7	750	70	145	Any	51
1200	T13	CSR1200/SE/HR	14, 63	48464	6	G38	100	110000	6000	90+	.323 .328	10	750	107	200	Any	52
2500	T19.5	CSR2500/SE/HR	14, 63	48465	6	G38	115	220000	6000	90+	.323 .328	14	500	127	240	Any	53
4000	T24	CSR4000/SE/HR	14, 63	48466	6	G38	200	380000	6000	90+	.323 .328	24	500	142	260	Any	53
6000	T26.5	CSR6000/SE/HR	14, 63	48467	6	G38	130	540000	6000	90+	.323 .328	26	300	210	360	Any	54
12000	T32	CSR12000/SE/HR	14, 63	48468	4	G38	160	1100000	6000	90+	.323 .328	28	250	255	450	Any	54
18000	T32	CSR18000/SE/HR	14, 63	22496	1	G51	225	1650000	6000	90+	.325 .327	35	250	260	460	Any	

Table 33: Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike																	
200	T4.5	CSR200/DE	14, 63	48450	10	X515	80	16000	6000	90+	.323 .325	8	300		75	H15	55
400	T6.5	CSR400/S/DE/70	14, 63	22478	10	SFc 10-4 SI/M4	49	26000	7000	65+	.305 .323	3	750		138	Any	56
		CSR400/S/DE/90	14, 63	45232	10	SFc 10-4 SI/M4	49	26000	9000	65+	.305 .323	3	750		138	Any	56
575	T6.5	CSR575/DE	14, 63	48451	10	SFc 10-4 AI/M4	95	49000	6000	90+	.323 .325	7	750		138	Any	56
		CSR575/S/DE/70	14, 63	70979	10	SFc 10-4 SI/M4	95	40000	7000	75+	.307 .309	7	750		138	Any	56
		CSR575/SS/DE/75	14, 63	45231	10	SFc 10-4 SI/M4	100	44000	7500	70+	.297 .312	5	500		92	Any	56

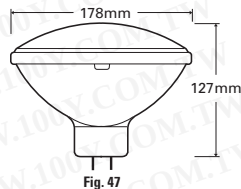
Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Std. Pack Qty.	Base	Volts	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	CIE Color x y	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 33: Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike (continued)																	
700	T6.5	CSR700/S/DE/60	14, 63	22493	10	SFc 10-4 SI/M4	70	59000	6000	75+	.322 .332	4	750		138	Any	56
		CSR700/S/DE/75	14, 63	41357	10	SFc 10-4 SI/M4	70	59000	7500	75+	.322 .332	4	750		138	Any	56
1200	T6.5	CSR1200/S/DE/60	14, 63	22494	10	SFc 10-4 SI/M4	100	110000	6000	90+	.323 .325	7	500		138	Any	56
		CSR1200/S/DE/72	14, 63	41361	10	SFc 10-4 SI/M4	100	110000	7200	75+	.323 .328	7	750		138	Any	56
	T8.5	CSR1200/DE	14, 63	48453	6	SFc 15.5-6 SI/M6	100	110000	6000	85+	.323 .325	10	750		220	H15	56
2500	T9.5	CSR2500/DE	14, 63	48454	6	Sfa21-12	115	240000	6000	90+	.323 .325	14	500		355	Any	59
4000	T12	CSR4000/DE	14, 63	48455	6	Sfa21-12	200	410000	6000	90+	.323 .325	34	500		405	H15	59
6000	T16	CSR6000/DE	14, 63	48456	6	25x51 Cyl 165mm	125	570000	6000	90+	.323 .325	22	300		450	H15	57
12000	T22.5	CSR12000/DE	14, 63	48457	4	30x70 Cyl 165mm	160	1100000	6000	90+	.323 .325	32	300		470	H15	57
18000	T28	CSR18000/DE	14, 63	48459	4	30x70 Cyl 165mm	225	1650000	6000	90+	.323 .325	45	300		500	H15	58
		CSR18000/S/DE	14, 63	48460	4	30x70 Cyl 165mm	225	1650000	6000	90+	.323 .325	45	300		470	H15	58

Table 34*: CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV-Control

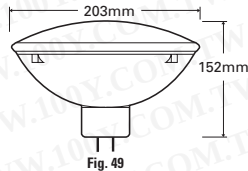
575	T9.5	CSR575/SE/HR/UV-C	14, 63	40460	10	G22	95	49000	5600	80+	.330 .325	7	750	70	145	Any	51
800	T9.5	CSR800/SE/HR/UV-C	14, 63	22495	10	G22	95	64000	5600	90+	.325 .327	7	1000	70	145	Any	51
1200	T13	CSR1200/SE/HR/UV-C	14, 63	27764	6	G38	100	110000	5600	90+	.333 .333	10	750	107	200	Any	52
2500	T19.5	CSR2500/SE/HR/UV-C	14, 63	40482	6	G38	115	220000	5600	90+	.330 .325	14	500	127	240	Any	53
4000	T24	CSR4000/SE/HR/UV-C	14, 63	27765	6	G38	200	380000	5600	90+	.330 .325	24	500	142	260	Any	53
6000	T26.5	CSR6000/SE/HR/UV-C	14, 63	40492	6	G38	130	540000	5600	90+	.333 .333	26	300	210	360	Any	54

Lamp stocking color code: EUROPE ONLY, EUROPE and NORTH AMERICA, NORTH AMERICA ONLY

* See Spectral Distribution Chart - Page 66



Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Std. Pack Qty.	Base	Ballast Type ANSI	Approx. CP ⁶	Design Color Temp (K)	Color CRI Index	Beam Descr.	Design Life (hrs)	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Burn Position	Fig. No.
Table 38: Discharge-ConstantColor[®] CMH[®] Ceramic Metal Halide, PAR56 Reflector																
150	PAR56	CMH150/PAR56/830/Gx16d/SP	14, 18, 63	22693	6	Gx16d	M81,102,142	80000	3000	80+	SP	5000	68 X 63	14 X 19	Any	47
		CMH150/PAR56/830/Gx16d/MFL	14, 18, 63	22694	6	Gx16d	M81,102,142	60000	3000	80+	MFL	5000	74 X 65	19 X 22	Any	47
		CMH150/PAR56/830/Gx16d/WFL	14, 18, 63	22696	6	Gx16d	M81,102,142	50000	3000	80+	WFL	5000	81 X 67	29 X 23	Any	47
		CMH150/PAR56/942/Gx16d/SP	14, 18, 63	22697	6	Gx16d	M81,102,142	80000	4200	90+	SP	5000	68 X 63	14 X 19	Any	47
		CMH150/PAR56/942/Gx16d/MFL	14, 18, 63	22700	6	Gx16d	M81,102,142	60000	4200	90+	MFL	5000	74 X 65	19 X 22	Any	47
		CMH150/PAR56/942/Gx16d/WFL	14, 18, 63	22702	6	Gx16d	M81,102,142	50000	4200	90+	WFL	5000	81 X 67	29 X 23	Any	47



Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Std. Pack Qty.	Base	Ballast Type ANSI	Approx. CP ⁶	Design Color Temp (K)	Color CRI Index	Beam Descr.	Rated Life (hrs)	Beam Spread ⁵ (degrees)	Beam Angle ³ (degrees)	Burn Position	Fig. No.
Table 39: Discharge-ConstantColor[®] CMH[®] Ceramic Metal Halide, PAR64 Reflector																
150	PAR64	CMH150/PAR64/830/Gx16d/SP	14, 18, 63	16958	6	Gx16d	M81,102,142	154000	3000	80+	SP	8000	18 X 18	9 X 9	Any	49
		CMH150/PAR64/830/Gx16d/MFL	14, 18, 63	16959	6	Gx16d	M81,102,142	47000	3000	80+	MFL	8000	34 X 26	22 X 14	Any	49
		CMH150/PAR64/830/Gx16d/WFL	14, 18, 63	16960	6	Gx16d	M81,102,142	16000	3000	80+	WFL	8000	62 X 36	46 X 23	Any	49
		CMH150/PAR64/942/Gx16d/SP	14, 18, 63	16961	6	Gx16d	M81,102,142	154000	4200	90+	SP	8000	18 X 18	9 X 9	Any	49
		CMH150/PAR64/942/Gx16d/MFL	14, 18, 63	16962	6	Gx16d	M81,102,142	47000	4200	90+	MFL	8000	34 X 26	22 X 14	Any	49
		CMH150/PAR64/942/Gx16d/WFL	14, 18, 63	16963	6	Gx16d	M81,102,142	16000	4200	90+	WFL	8000	62 X 36	46 X 23	Any	49

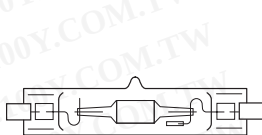


Fig. 64



Fig. 65

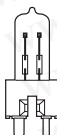


Fig. 66

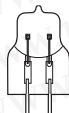


Fig. 67



Fig. 68



Fig. 69

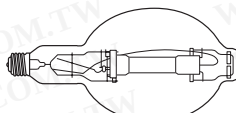


Fig. 70



Fig. 71

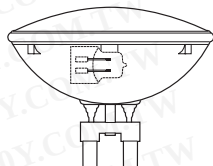


Fig. 72

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Std. Pack Qty.	Base	Volts or ANSI ballast	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
1500	T-7	SPL1500/H/652	14, 63	16920	1	Rx7s	Special	120000	5200	80		6000	127	257	H4	64

Table 40: Discharge-CSI, CID, MVR/SPL, Double-Ended

140	T-7	CSS150/CAP/50	14, 63	34813	10	GY9.5	85	10000	5000	80	6	1000	30	48	BDTH	65
200	T-5	99-0211CID	14, 63	30560	1	Special	70	14000	5500	85	5.5	150	36	57	BDTH	66
400	T-6	99-0201CSI	14, 63	30555	1	Special	100	32000	4000	80	9	500	25	55	BDTH	67
575	T-7	99-0415CID	14, 63	30563	1	G22	95	40250	5500	85	9	500	52	94	BDTH	68
		CSS575/855/GY9.5	14, 63	34822	10	GY9.5	95	40250	5500	85	9	500	52	94	BDTH	69
1000	T-10	99-0221CSI	14, 63	30558	1	G22	77	90000	4000	80	14	500	64	115	BDTH	68
		99-0222CID	14, 63	30561	1	G22	77	70000	5500	85	15	500	64	115	BDTH	68

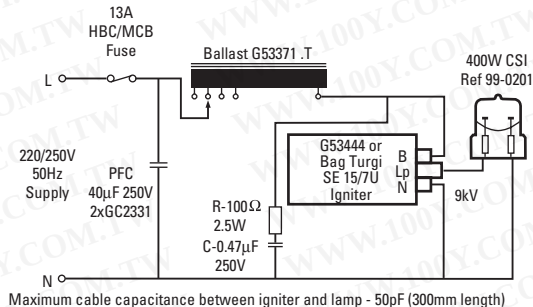
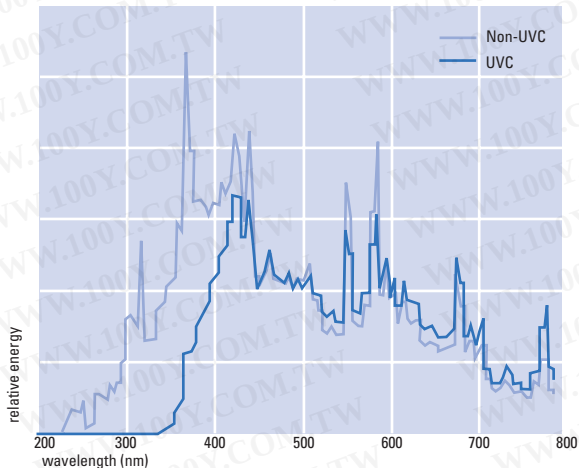
Table 41: Discharge-CSI, CID, MVR/SPL, Single-Ended

Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Std. Pack Qty.	Base	Volts or ANSI ballast	Initial Design Lumens	Design Color Temp (K)	Color CRI Index	Arc Length (mm)	Rated Life (hrs)	LCL (mm)	MOL (mm)	Burn Position	Fig. No.
Table 41: Discharge-CSI, CID, MVR/SPL, Single-Ended (continued)																
1500	BT56	MVR1500/U/SPORTS	14, 63	47326	6	E39	M48	178000	4000	65		3000	241	390	Any	70
		MVR1500/HBU	14, 63	37405	6	E39	M48	165000	3900	65		3000	241	390	HBU	70
1650	BT56	MVR1650/HOR	14, 63	25532	6	E39p	M112	177000	3200	65		3000	241	390	H15	70
2000	T-9	MQI/2000/T9/40	14, 63	12275	10	Special	M134	200000	4000	65		4000	109	254	H15	
2500	G-13	99-0431CID/HR	14, 63	30567	1	G38	100	200000	5500	85	18	350	127	175	BDTH	71

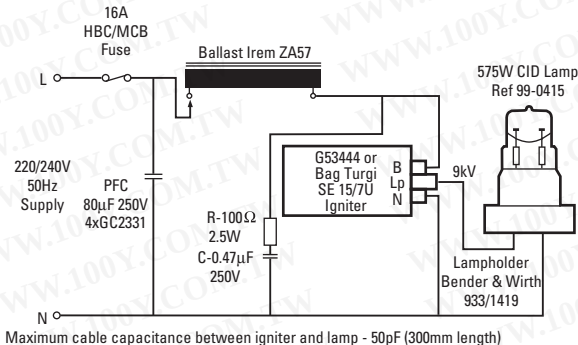
Watts	Bulb OD	GE Description	Footnotes/ Safety Notices	Product Code	Std. Pack Qty.	Base	Volts or ANSI ballast	Approx CP ⁶	Design Color Temp (K)	Color CRI Index	Arc Length (mm)	Rated Life (hrs)	Beam Spread ⁵ (degree)	MOL (mm)	Burn Position	Fig. No.
Table 42: Discharge-CSI, CID, MVR/SPL, PAR64 Reflector																
1000	PAR64	SPL1000/PAR64/840	14, 19, 63	29333	1	G38	77	1350000	4000	80		3500		175	Any	72
		SPL1000/PAR64/HR	14, 19, 63	29336	1	G38	77	1350000	4000	80		3500		175	Any	72
		99-1225CID	14, 23, 63	30360	1	G38	77	850000	5500	85	15	1500	20	175	Any	72
		99-1425CID/HR	14, 23, 63	30371	1	G38	77	850000	5500	85	15	1000	20	175	Any	72
1200	PAR64	99-1435CID/HR	14, 24, 63	30372	1	G38	100	820000	5500	85	18	1000	18	175	Any	72

DISCHARGE LAMP WIRING DIAGRAMS

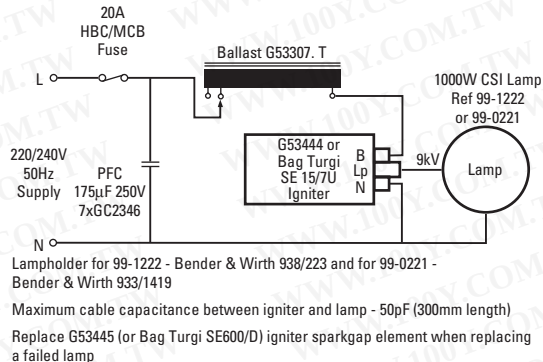
400 Watt CSI Lamp Circuit Diagram



575 Watt CID Lamp Circuit Diagram

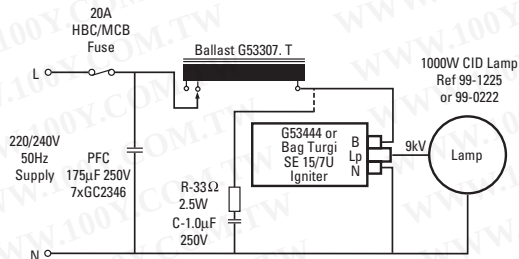


1000 Watt CSI Lamp Circuit Diagram



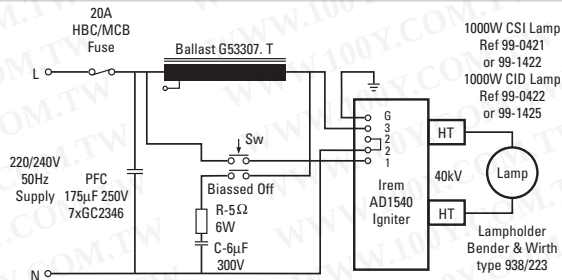
DISCHARGE LAMP WIRING DIAGRAMS (CONTINUED)

1000 Watt CID Lamp Circuit Diagram



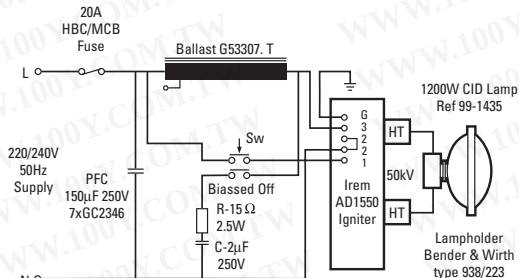
Lampholder for 99-1222 - Bender & Wirth 938/223 and for 99-0222 - Bender & Wirth 933/1419
 R/C components necessary ONLY when used on a 220V rate supply
 Maximum cable capacitance between igniter and lamp - 50pF (300mm length)
 Replace G53445 (or Bag Turgi SE600/D) igniter sparkgap element when replacing a failed lamp

1000 Watt CSI/CID Hot-Restart Lamp Circuit Diagram



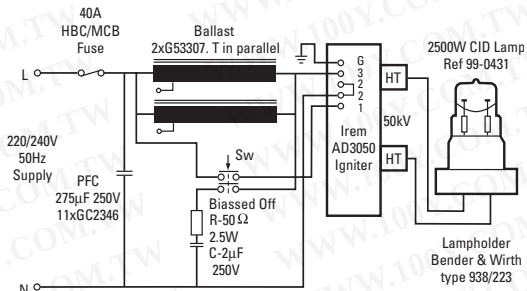
Sw - Normally open contacts - Manual switch or 2 second ON timer
 Maximum cable capacitance between igniter and lamp - 30pF (200mm length)

1200 Watt CID Hot-Restart Lamp Circuit Diagram



Sw - Normally open contacts - Manual switch or 2 second ON timer
Maximum cable capacitance between igniter and lamp - 30pF (200mm length)

2500 Watt CID Hot-Restart Lamp Circuit Diagram



Sw - Normally open contacts - Manual switch or 2 second ON timer
Maximum cable capacitance between igniter and lamp - 30pF (200mm length)



Fig. 73

Watts	Bulb OD	GE Description	Footnote/ Safety Notices	Product Code	Std. Pack Qty.	Base	Initial Lumens	Mean Lumens	Rated Life (hrs)	MOL (mm)	Fig. No.
Table 43: Fluorescent Cinema Lighting, T8 High Output											
55	T8	F48T8/CINEMA32	8, 171	81205	24	G-13 Med BiPin	2750	2200	2000	1219	73
		F48T8/CINEMA55	8, 171	81206	24	G-13 Med BiPin	2750	2200	2000	1219	73
		F48T8/CINEMA32/CVG	8, 171	81207	24	G-13 Med BiPin	2750	2200	2000	1219	73
		F48T8/CINEMA55/CVG	8, 171	81208	24	G-13 Med BiPin	2750	2200	2000	1219	73
Table 44: Fluorescent Cinema Lighting, Standard Cinema											
35	T12	F20T12/CINEMA32/HO	8, 9, 171	15712	24	G-13 Med BiPin	1130	800	2000	610	73
		F20T12/CINEMA55/HO	8, 10, 171	15713	24	G-13 Med BiPin	1100	770	2000	610	73
60	T12	F40T12/CINEMA32/HO	8, 9, 171	15716	30	G-13 Med BiPin	2900	2030	2000	1219	73
		F40T12/CINEMA55/HO	8, 10, 171	15717	30	G-13 Med BiPin	2820	1974	2000	1219	73
85	T12	F72T12/CINEMA32/HO	8, 9, 171	15718	15	G-13 Med BiPin	4150	2905	2000	1829	73
		F72T12/CINEMA55/HO	8, 10, 171	15719	15	G-13 Med BiPin	4050	2835	2000	1829	73
110	T12	F96T12/CINEMA32/HO	8, 9, 171	15720	15	G-13 Med BiPin	5800	4060	2000	2438	73
		F96T12/CINEMA55/HO	8, 10, 171	15721	15	G-13 Med BiPin	5650	3955	2000	2438	73



Fig. 73

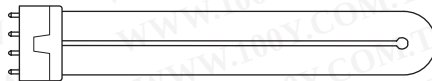


Fig. 74

Watts	Bulb OD	GE Description	Footnote/ Safety Notices	Product Code	Std. Pack Qty.	Base	Initial Lumens	Mean Lumens	Rated Life (hrs)	MOL (mm)	Fig. No.
Table 45: Fluorescent Cinema Lighting, CovRguard® Cinema											
35	T12	F20T12/CINEMA32/HO/CVG	8, 9, 171	15775	24	G-13 Med BiPin	1130	800	2000	610	73
		F20T12/CINEMA55/HO/CVG	8, 10, 171	15776	24	G-13 Med BiPin	1100	770	2000	610	73
60	T12	F40T12/CINEMA32/HO/CVG	8, 9, 171	15782	30	G-13 Med BiPin	2900	2030	2000	1219	73
		F40T12/CINEMA55/HO/CVG	8, 10, 171	15783	30	G-13 Med BiPin	2820	1974	2000	1219	73
85	T12	F72T12/CINEMA32/HO/CVG	8, 9, 171	15785	15	G-13 Med BiPin	4150	2905	2000	1829	73
		F72T12/CINEMA55/HO/CVG	8, 10, 171	15786	15	G-13 Med BiPin	4050	2835	2000	1829	73
110	T12	F96T12/CINEMA32/HO/CVG	8, 9, 171	15794	15	G-13 Med BiPin	5800	4060	2000	2438	73
		F96T12/CINEMA55/HO/CVG	8, 10, 171	15798	15	G-13 Med BiPin	5650	3955	2000	2438	73

Table 46: Fluorescent Cinema Lighting, Biax®											
55	T5	F55BX/STUDIOBIAX32	11	41869	10	2G11-4 PIN	4100	3485	8000	536	74
		F55BX/STUDIOBIAX56	13	41873	10	2G11-4 PIN	4100	3485	8000	536	74
		F55BX/CINPLUS/32	11	41903	10	2G11-4 PIN	2400	2040	2000	536	74
		F55BX/CINPLUS/55	13	41911	10	2G11-4 PIN	2400	2040	2000	536	74

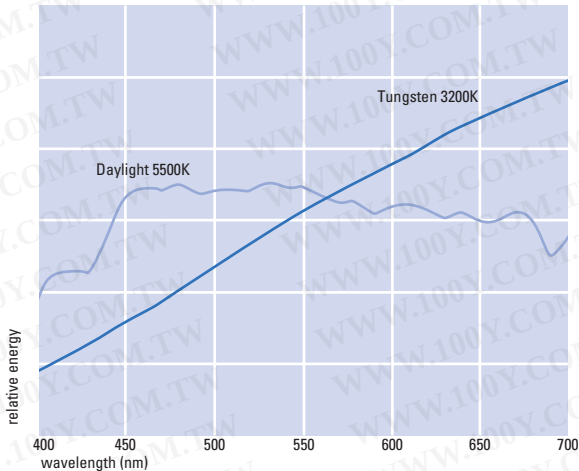
GE CINEMA FLUORESCENT LAMPS

GE Cinema Lamps Provide Predictable Color for Standard Film Processing

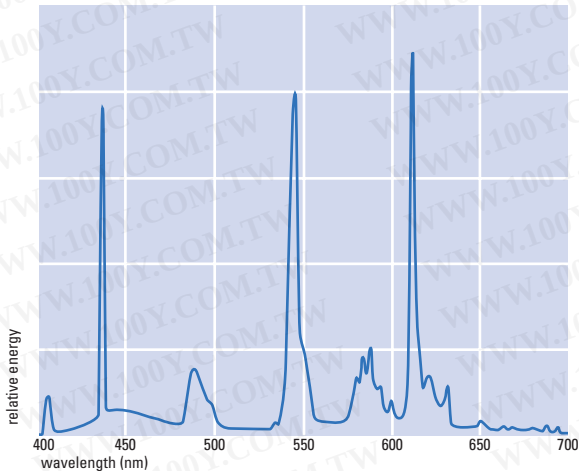
In the entertainment industry the use of color film has always been based on incandescent or Tungsten lighting. These standards were established before fluorescent lighting was invented in 1939. With the introduction of fluorescent lighting it was soon discovered that cool white fluorescent and triphosphor lamps did not work well with film. Extensive filtering was required resulting in loss of light and added cost and labor.

Now Cinema lamps require phosphore blends which better match Daylighting and Tungsten Spectral Power Distribution (SPD) in order to provide predictable color for standard film processing — without the need for expensive filtering on the set.

SPD for Tungsten 3200K and Daylight 5500K



SP41 Spectral Power Distribution



Standard SP41 Spectral Power Distribution

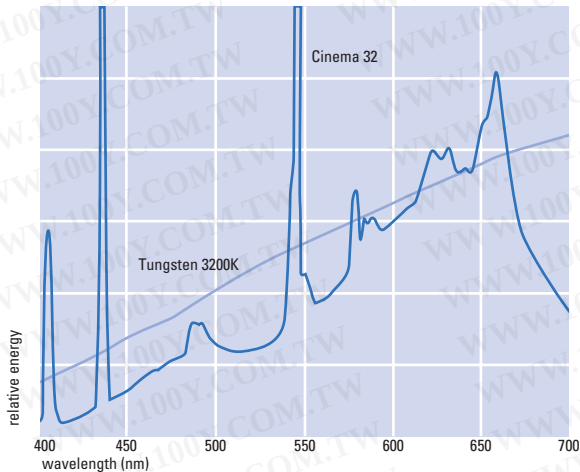
Typical modern triphosphor fluorescent lamp spectra optimized for eye response, especially green for lumens.

Matching Phosphor Blends to Film Light Reference Sources

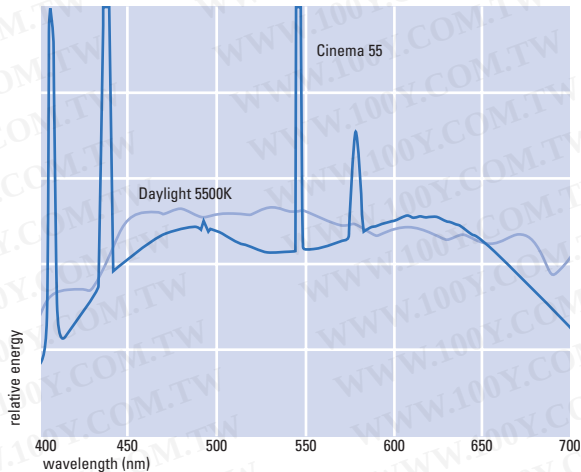
GE Cinema design uses full spectrum phosphor blends for Cinematography lamps. Color is matched for Tungsten 3200K and Daylight 5500K spectra. Final matching is done using Minolta Ilf meter as a gage for determining filtering needs which become the effective color specification limits.

GE CINEMA FLUORESCENT LAMPS (CONTINUED)

Cinema 32 vs Tungsten 3200K



Cinema 55 vs. 5500K Daylight



A Full Range of Operating Currents and Dimming Conditions Can Be Used Without Requiring Added Filtration

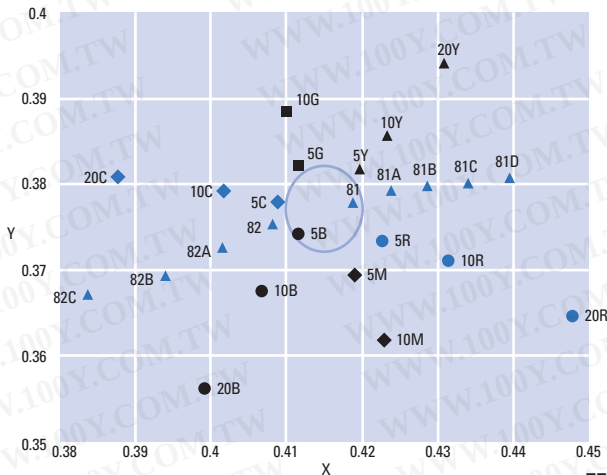
GE Cinema lamps are designed to minimize the need to add filters for color correction.

X, Y Chromaticity Plots for Daylight 5500K (Chart 2) and Tungsten 3200K (Chart 1) Light Sources

Kodak Wratten filter values, and corresponding color shift are also indicated. Color specification limits are best represented by circles rather than MacAdam Ellipses for the Cinema lamp products due to the differences between eye and film color sensitivity.

Chart 1: Tungsten 3200K Color Shift with Wratten Filters

Color Specification for Cinema 32



GE CINEMA FLUORESCENT LAMPS (CONTINUED)

Chart 2: Daylight Color Shift
with Wratten Filters

Color Specification for Cinema 55

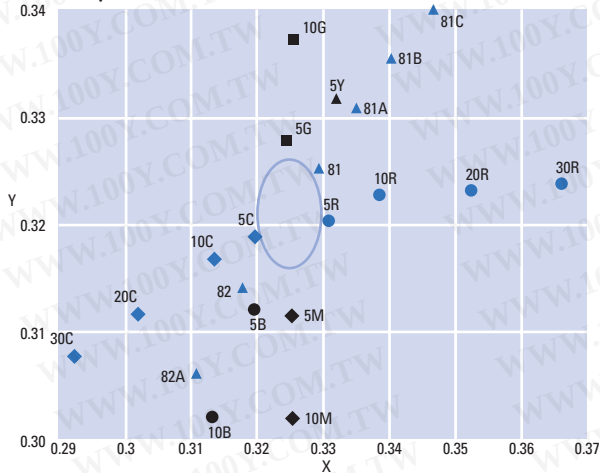
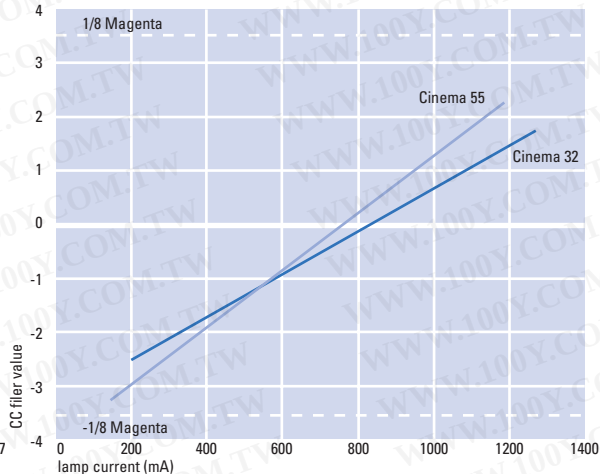


Chart 3: Color vs. Lamp Current
for F40T12 Cinema Lamps



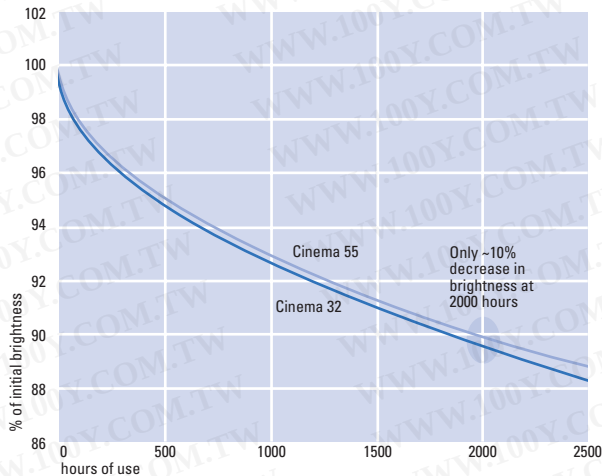
Color vs. Lamp Current for F40T12 Cinema Lamps (Chart 3)

- Cinema lamp color shift with lamp operating current.
- All readings made using Minolta Illf color meter.
- Lamp stabilized for 20 minutes at each current level before measuring color.

Lamp Brightness Decreases with Lamp Age (Chart 4)

- Cinema lamps maintain 90% of initial brightness up to 2000 hours of use.
- Color drift during this time period is minimal for both colors.
- Cinema lamps exhibit good brightness stability and minimal color change with use.

**Chart 4: Lamp Brightness Decreases
with Lamp Age**



GE CINEMA FLUORESCENT LAMPS (CONTINUED)

Usage Guidelines

Warm Up Time

Allow at least ½ hour stabilization time before checking color of GE Cinema lamps. This applies to new and used lamps. Color will drift (mostly the mired shift, or LB value) during the warm up period.

Breakage During Set-up and Transport

Specify covRguard® safety coated lamps when lamps will be moved and transported during use. The covRguard® design minimizes breakage and contains the lamp components if breakage occurs – minimizing set clean-up issues.

Ballast Compatibility

Assure that the correct type of ballast is used with Cinema lamps. High current ballast such as provided with Kino Flo fixtures require HO lamp types. If brightness control through dimming is desired, be sure to specify ballasts designed for dimmability.

Fixture Compatibility

GE recommends the F40/HO and F20/HO versions to be used in high current cinematography fixtures such as those manufactured by Kino Flo. The standard F40 and F20 Cinema lamps are recommended for ANSI approved general lighting fixtures.

FILTERS

Selected Manufacturers of Filters for Color Correction of Light Sources

Selected filter products (see websites for additional information:
www.rosco.com, www.leefilters.com, www.gamonline.com

Kelvin Temperature Compensation

AMBER TO REDUCE KELVIN

Rosco

Balance 5500K	Product No.	Mired Shift	Tran (%)
To 3200K	3401	+131	58
2900K	3407(CTO)	+167	47
3200K	3411 (3/4CTO)	+131	58
3800K	3408 (1/2CTO)	+81	73
4500K	3409 (1/4CTO)	+42	81
4900K	3410 (1/8CTO)	+20	92
2000K	3420 (2X CTO)	+320	23

Lee

Balance 6500K	Product No.	Mired Shift	Tran (%)
To 3200K	204 (CTO)	+159	55.4
3600K	285 (3/4CTO)	+124	61.3
3800K	205 (1/2CTO)	+109	70.8
4600K	206 (1/4CTO)	+64	79.1
5550K	223 (1/8CTO)	+26	85.2

Gam

Product No.
1543
1546
1549
1552
1555
1540

FILTERS (CONTINUED)

Kelvin Temperature Compensation (continued)

STRAW TO REDUCE KELVIN

Rosco

	Balance 5500K	Product No.	Mired Shift	Tran (%)
To	2900K	3441 (full CTS)	+131	47
	3800K	3408 (1/2 CTS)	+81	73
	4500K	3409 (1/4 CTS)	+42	81
	4900K	3410 (1/8 CTS)	+20	92

Lee

	Balance 6500K	Product No.	Mired Shift	Tran (%)
To	3200K	441 (full CTS)	+160	57.3
	4300K	442 (1/2 CTS)	+81	71.2
	5100K	443 (1/4 CTS)	+42	79.8
	5700K	444 (1/8 CTS)	+20	83.1

Gam

Product No.

Filters will reduce the color temperature of any source. Both 5500K and 6500K are used for reference.

BLUE TO INCREASE KELVIN

Rosco

Balance 3200K	Product No.	Mired Shift	Tran (%)
To 5500K	3202 (full CTB)	-131	36
4700K	3203 (3/4 CTB)	-100	41
4100K	3204 (1/2 CTB)	-68	52
3800K	3206 (1/3 CTB)	-49	64
3500K	3208 (1/4 CTB)	-30	74
3300K	3216 (1/8 CTB)	-12	81
10000K	3220 (2X CTB)	-260	10

Lee

Balance 3200K	Product No.	Mired Shift	Tran (%)
To 5700K	201 (full CTB)	-137	34
5000K	281 (3/4 CTB)	-112	45.5
4300K	202 (1/2 CTB)	-78	54.9
3600K	203 (1/4 CTB)	-35	69.2
3400K	218 (1/8 CTB)	-18	81.3
app 26000K	200 (2X CTB)	-274	16.2

Gam

Product No.

1523

1526

1529

1532

1535

1520

Color Compensation (CC)

INCREASE GREEN/REDUCE MAGENTA

Rosco

Product No.	CC Value	Tran %
Plus Green 3304	30G	76
1/2 Plus Green 3315	15G	90
1/4 Plus Green 3316	7.5G	92
1/8 Plus Green 3317	3.5G	93

Lee

Product No.	CC Value	Tran %
244	30G	74.2
245	15G	81.7
246	7.5G	84.6
278		87.7

Gam

Product No.

1585

1587

1588

1589

FILTERS (CONTINUED)

Color Compensation (CC) (continued)

REDUCE GREEN/INCREASE MAGENTA

Rosco				Lee			Gam	
	Product No.	CC Value	Tran %		Product No.	CC Value	Tran %	Product No.
Minus Green	3308	30M	55		247	30M	57.8	1580
1/2 Minus Green	3313	15M	71		248	15M	72	1582
1/4 Minus Green	3314	7.5M	81		249	7.5M	82.4	1583
1/8 Minus Green	3318	3.5M	88		279		86.5	1584

FILTER TUNGSTEN TO MATCH FLUORESCENT (BY INDUSTRY NAME)*

Industry Name	Approx. K	Rosco	Lee
Cool White/Daylight	5700	60C (#4360)	241 (with FL-B or FL-D)
White	4300		242 (with FL-B or FL-D)
Warm White	3600	30C+15C (#4330+4315)	243 (with FL-B or FL-D)

FILTER FLUORESCENT/DISCHARGE TO TUNGSTEN OR DAYLIGHT FILM*

Rosco

Source	To Tungsten	To Daylight
Cool White	60R (4660)	30M (4730)
Warm White	30R+15R (4360+4615)	30B (4230)
Multi-Vapor	60R+15Y (4660+4515)	15R+15M (4615+4715)
HMI		3107
CID		
CSI		
White Flame Arc	3106	

Lee

To Tungsten
236
237
238
232

* Discharge lamps are diverse in performance, so the above is a very limited list of examples. Contact the filter manufacturer for additional information and recommendations.

TEMPERATURE RATING OF CONDUCTOR

Allowable Ampacities of Insulated Conductors Rated 0 – 2000 Volts, 60°C – 90°C (140°F – 194°F),
Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried),
Based on Ambient Temperature of 30° C (86°F).

Copper

60°C (140°F) Types: TW, UF

75°C (167°F) Types: RHW, THHW, THW, THWN, USE, XHHW, ZW

90°C (194°F) Types: FEP, FEPB, MI, RHH, RHW-2, SA, SIS, TBS, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
18	—	—	14
16	—	—	18
14	20	20	25
12	25	25	30
10	30	35	40
8	40	50	55
6	55	65	75
4	70	85	95
3	85	100	110
2	95	115	130
1	110	130	150

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
1/0	125	150	170
2/0	145	175	195
3/0	165	200	225
4/0	195	230	260
250	215	255	290
300	240	285	320
350	260	310	350
400	280	335	380
500	320	380	430
600	355	420	475
700	385	460	520

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
750	400	475	535
800	410	490	555
900	435	520	585
1000	455	545	615
1250	495	590	665
1500	520	625	705
1750	545	650	735
2000	560	665	750

Aluminum or Copper-Clad Aluminum

60°C (140°F) Types: TW, UF

75°C (167°F) Types: RHW, THHW, THW, THWN, USE, XHHW

90°C (194°F) Types: RHH, RHW-2, SA, SIS, TBS, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
12	20	20	25
10	25	30	35
8	30	40	45
6	40	50	60
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	190	230	255
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	310	375	420
750	320	385	435

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
800	330	395	450
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630

Allowable Ampacities of Single-Insulated Conductors Rated 0 – 2000 Volts in Free Air, Based on Ambient Air Temperature of 30°C (86°F)

Copper

60°C (140°F) Types: TW, UF

75°C (167°F) Types: RHW, THHW, THW, THWN, USE, XHHW, ZW

90°C (194°F) Types: FEP, FEPB, MI, RHH, RHW-2, SA, SIS, TBS, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
18	—	—	18
16	—	—	24
14	25	30	35
12	30	35	40
10	40	50	55
8	60	70	80
6	80	95	105
4	105	125	140
3	120	145	165
2	140	170	190
1	165	195	220

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
1/0	195	230	260
2/0	225	265	300
3/0	260	310	350
4/0	300	360	405
250	340	405	455
300	375	445	505
350	420	505	570
400	455	545	615
500	515	620	700

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
600	575	690	780
700	630	755	855
750	655	785	885
800	680	815	920
900	730	870	985
1000	780	935	1055
1250	890	1065	1200
1500	980	1175	1325
1750	1070	1280	1445
2000	1155	1385	1560

Aluminum or Copper-Clad Aluminum

60°C (140°F) Types: TW, UF

75°C (167°F) Types: RHW, THHW, THW, THWN, USE, XHHW

90°C (194°F) Types: RHH, RHW-2, SA, SIS, TBS, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
12	25	30	35
10	35	40	40
8	45	55	60
6	60	75	80
4	80	100	110
3	95	115	130
2	110	135	150
1	130	155	175

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
1/0	150	180	205
2/0	175	210	235
3/0	200	240	275
4/0	235	280	315
250	265	315	355
300	290	350	395
350	330	395	445
400	355	425	480
500	405	485	545

Size AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)
600	455	540	615
700	500	595	675
750	515	620	700
800	535	645	725
900	580	700	785
1000	625	750	845
1250	710	855	960
1500	795	950	1075
1750	875	1050	1185
2000	960	1150	1335

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and Sealed Beam
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GE Lighting



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The Quality Vision

It is the goal of GE lighting to be the world leader in quality - without exception. We can attain this goal by manufacturing and delivering products and services that faithfully conform to our specifications and satisfy the needs and expectations of our customers. Accordingly, we commit ourselves to expect, achieve and accept only those things that are done with excellence.

INTRODUCTION

GE sealed beam and miniature lamps are designed for those applications requiring specific size, long life, and a competitive cost. These lamps are available with a wide variety of filament constructions, bases and wire terminal leads. Most are designed for operation on low-voltage power sources such as battery-generator systems, dry cell or storage batteries, or transformers. Manufacturers and designers of equipment requiring lamps should select lamps of established design whenever possible for maximum economy as well as ease of replacement through regular trade channels.

Finding a lamp

In this catalog, lamps are listed two ways for quick reference. The index lists lamps numerically on pages 5-18. The final section, pages 23-49, groups lamps alphabetically "B" to "T", by bulb size. Lamps are listed in ascending order of design volts within the particular group.

Ordering

Use the order code located in the left columns of the index on pages 5-18 or 23-49. Be sure to order from the correct quantity column, i.e. blister pack, unit pack, bulk pack. Miniature unit packs come in quantities of 10-50 lamps. Sealed beam unit package quantities are 6-12. Bulk standard package quantity is provided to simplify ordering. See Sales Offices for specific information.

Formulas

The following are commonly used formulas to assist any calculations you may need. For further information, contact your GE Lamp Representative.

- Watts = Volts x Amps
- Lumens = 12.57 x Mean Spherical Candlepower
- Hot Resistance (Ohms) = Volts/Amps
- Kelvin = Celsius + 273
- Footcandles = Candlepower/Distance squared (miniature lamps only)

Abbreviations

The abbreviations used in this catalog include:

A Amperes	Flg. Flanged	Sc. Screw
ANSI American National Standards Institute	HID High Intensity Discharge	S.C. Single Contact
Bay. Bayonet	HIR Halogen Infrared	Spec. Special
C.I.M. Construction & Industrial Machinery	LCL Light Center Length	Tel. Telephone
C.P. Candlepower	Min. Miniature	Term. Terminals
Cand. Candelabra	MOL Maximum Overall Length	V Volts
D.C. Double Contact	MSCP Mean Spherical Candlepower	W Watts
ECE European Common Market (European Motor Vehicle Standards)	Nom. Nominal	
	PAR Parabolic Aluminized Reflector	
	Pf. Prefocus	
	SAE Society of Automotive Engineers (US Motor Vehicle Standards)	

GE Miniature Lamp Prefixes

DE Double Ended	PR Prefocus Base (E.G., "Flashlight Lamp")
H Halogen	Q Quartz Halogen
K Krypton Gas	SE Single Ended
PC Printed Circuit Application	W,T,R,C,P European Designation

GE Miniature Lamp Suffixes

A Amber	NA Natural Amber (automotive lighting)
AF All Frost (on outside)	PSB Pilot Indicator/Short Base
AS10 Ages and Selected (for candlepower)	R Red
B Blue	SB Silver Bowl (all or some portion of bulb is silver)
C1 Refers to a range of current on telephone lamps (A1, B1, D1, E1, etc. used also)	TY Letters after a quartz halogen lamp mean a deviation from the standard lamp - usually refers to the electrical terminals
CW Cool White (aircraft lighting)	U Lead wires up or no base, e.g., unbased sealed beam lamp
D Lead Wires Down	WW Warm White (aircraft lighting)
E Extended Lead Wires	X Indicates some arbitrary deviation from the normal product
E-1 Different lead wire material (NI plated)	Y Yellow
G Green	-1 Slip on terminals
HD Heavy Duty	-2 Represents various deviations
HIR Halogen Infrared	-3 Represents deviations (e.g. combination terminal)
HO High Output	W European Designation (Watts)
K Unique Base	
KR Krypton Fill	
L, XL, LL Long Life	
MB Miniature Bayonet	

Important Notice

This catalog contains accumulated data to March 2003. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. Accordingly, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For the latest lamp design data and information, contact your GE Lamp Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular application or use in any particular equipment, nor are our representatives authorized to make any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products, and to introduce new lamps or discontinue existing ones without notice.

Glossary of Headings

The following glossary of terms can help you when checking lamp specifications and when ordering products.

Approximate Total Spread to 10% Maximum Candlepower: Beam size expressed in degrees vertical and horizontal.

Atmosphere: Indicates whether the lamp is gas filled or vacuum. Gas filled lamps are more efficient than vacuum lamps.

Average Cold Resistance: The average resistance of an unburned lamp.

Base: Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. (Complete diagrams of miniature bases are located on page 22. Sealed beam base diagrams can be found on page 43.)

Bulb: The prefix letter refers to the bulb shape, and the number is the approximate diameter in eighths of an inch. For example T-2 means approximately $\frac{2}{8}$ " inch or $\frac{1}{4}$ " diameter.

Circuit Volts AC or DC: The operational voltage range.

Design End Foot Candles: The measure of the portion of the total light output of a T-2 lamp that passes through a .250" orifice placed at the end of the lamp.

Design Volts: Voltage at which the lamp is designed to provide the amperes, candlepower and laboratory life characteristics.

Design Watts or Amps: The power consumption (watts) or current rating (amps) at the design voltage. In the case of dual-filament lamps, the values for each filament are given.

Figure Number: Corresponds to the lamp drawing. The drawing shows the correct bulb and base; but not the filament, for the lamp listed.

Filament Designation: Filaments may be straight wire (S), a coil (C) or a coiled coil (CC). The number denotes the arrangement of the filament on the supports. Complete diagrams of miniature filaments are located on page 22. Sealed beam filament diagrams can be found on page 43.

Initial Maximum Beam Candlepower: The maximum light intensity at a point in the beam.

Lamp Number: In nearly all cases lamps are marked with a General Electric Trade Number recorded with the American National Standards Institute. See glossary of prefixes and suffixes on page 2.

Light Center Length: Indicates the location of the filament with reference to the lamp base. The LCL is measured from the geometric center of the light source to a particular point of the base. This point is shown on the lamp drawing.

Line Number: Line number on specified page where the lamp can be found.

Maximum Overall Length: The dimension which includes the bulb and base is designated as the overall length of the lamp. In the case of wire terminal lamps, this dimension applies only to the glass portion.

Mean Spherical Candlepower: Initial mean spherical candlepower at the design voltage. Mean spherical candlepower is the generally accepted method of rating the total light output of miniature lamps. To convert this rating to lumens, multiply it by 12.57 (4 pi).

Nominal Current: This is the average expected current.

Nominal Watts: This is the average expected watts.

Order code: Use this code when ordering to ensure that you receive the exact product you require.

Page Number: Page number on which further specifications/illustrations can be found.

Primary Application: Current major uses of lamp. Lamps may be and are used in many other applications where their designs will permit. This column also lists any unique features of the lamp.

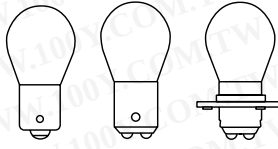
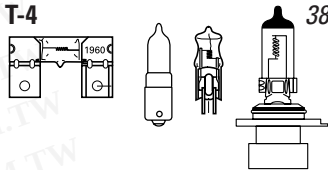
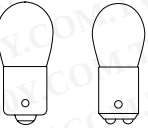
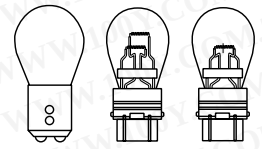
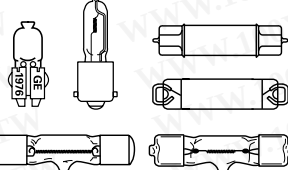
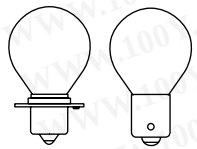
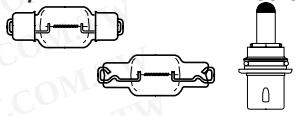
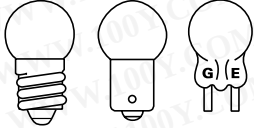
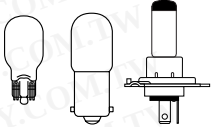
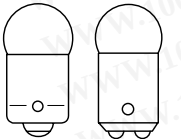
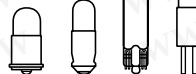
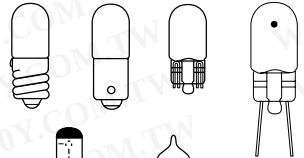
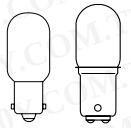
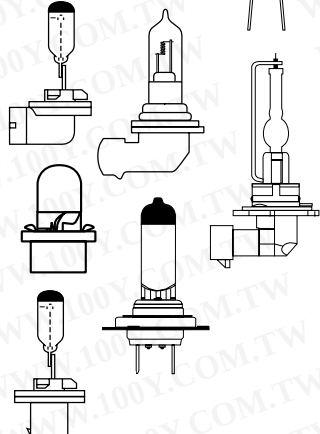
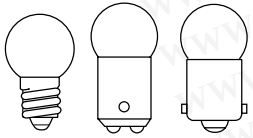
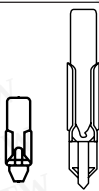
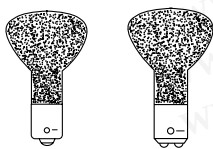
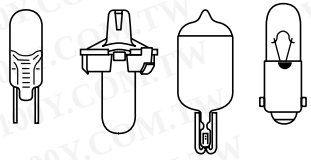
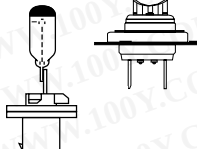
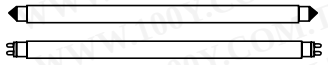
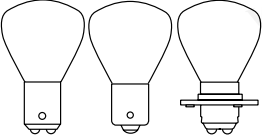
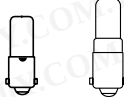
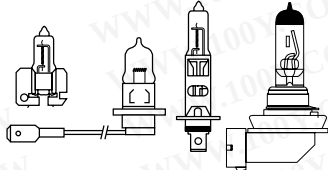
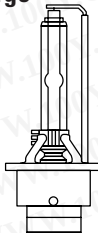
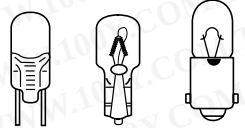
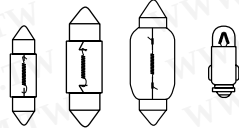
Rated Average Lab Life: Rated average life is that obtained in closely controlled laboratory testing of lamps at their design voltage. It is not necessarily the same as service life; shocks, vibration, voltage fluctuations, temperature, and other environmental influences may result in a shorter service life.

SAE Specifications: Specifications for headlamps (forward lighting) can be found in a SAE Ground Vehicle Lighting Standards Manual SAE HS-34. There are numerous test points in the beam patterns for headlamps in conjunction with minimum and maximum photometry values. Space does not permit these many test points to be included in the light distribution column. Please contact your GE Representative for more detailed information.

Series Resistance: In order to properly control the neon glow lamp current, a ballast resistor must be used. Lamps having screw bases have the necessary resistor built-in. Those having bayonet bases do not have a built in resistor. The tables show the value of the external resistor to be used for normal operation at indicated circuit volts, or the value of the built-in resistor where applicable.

LAMP LOCATOR

The lamps listed here are not to scale. To determine the diameter of a bulb in inches, multiply the bulb number by one-eighth. For example T-2 means approximately $\frac{2}{8}$ " or $\frac{1}{4}$ " diameter.

Bulb	Page	Bulb	Page	Bulb	Page	Bulb	Page
B-3$\frac{1}{2}$	23	S-8	26-30	TL-2$\frac{3}{4}$	33	T-4	38
							
B-6	23			T-3	33-34	T-4$\frac{1}{2}$	38
							
G-3$\frac{1}{2}$	23-24	S-11	30			T-4$\frac{3}{4}$	38-39
							
G-4$\frac{1}{2}$	24	T-1	31	TL-3	34	T-5	39-40
							
G-5	24	T-1$\frac{3}{4}$	31	T-3$\frac{1}{4}$	34-37	T-7	40
							
G-6	25	T-2	31			T-8	40
							
R-12	26	T-2$\frac{1}{4}$	31-32	TL-3$\frac{1}{4}$	37	Elec. Discharge	41
						T-5	
RP-11	26	T-2$\frac{1}{2}$	32	T-3$\frac{1}{2}$	37		
						Central Discharge	41
		T-2$\frac{3}{4}$	32				
						Neon Glow	42
							
						Festoon Type	42
							

Sealed Beam drawings can be found on page 43

INDEX – MINIATURE LAMPS

Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
12325	12756	25379	1000	6PSB	T-2	Tel. Slide #5	6.0	.14A	—	20,000	31	19
	25312			10	G-3 1/2	Miniature Two Pin	2.50	.50A	.5	3,000	23	22
	25319			12	G-3 1/2	Miniature Two Pin	6.30	.15A	.35	5,000	23	24
	12760			12PSB	T-2	Tel. Slide #5	12.0	.17A	—	12,000	31	20
	25331			13	G-3 1/2	Miniature Screw	3.70	.30A	.98	15	23	23
	25354			14	G-3 1/2	Miniature Screw	2.47	.30A	.5	15	23	21
	25371			15	G-4 1/2	Miniature Two Pin	7.0	.40A	2	500	24	10
	25377			19	G-3 1/2	Miniature Two Pin	14.40	.10A	.9	1,000	23	27
	17853			24	T-2 3/4	Wedge	14.0	.24A	2	1,500	32	21
	29001			24E2	T-2	Tel. Slide #3	24.0	.035A	—	7,000	31	21
12316	12071			24NA	T-2 3/4	Wedge	14.0	.24A	1.5	1,500	32	22
	25388			24PSB	T-2	Tel. Slide #5	24.0	.073A	—	10,000	31	22
	12761			27	G-4 1/2	Miniature Screw	4.9	.30A	1.4	30	24	6
	12072			28MB	T-2 1/2	Miniature Bayonet	28.0	.04A	.29	5,000	32	12
26480	39220	13689	4000	28PSB	T-2	Tel. Slide #5	28.0	.04A	—	5,000	31	23
	25442			37	T-1 3/4	Wedge	14.0	.09A	.5	2,500	31	9
	25450			43	T-3 1/4	Miniature Bayonet	2.5	.50A	.5	3,000	34	8
	25485			44	T-3 1/4	Miniature Bayonet	6.3	.25A	.9	3,000	34	16
	29041			47	T-3 1/4	Miniature Bayonet	6.3	.15A	.52	3,000	34	12
	12075			48C2	T-2	Tel. Slide #3	48.0	.035A	—	5,000	31	24
	25529			48PSB	T-2	Tel. Slide #5	48.0	.05A	—	10,000	31	25
	25550			51	G-3 1/2	Miniature Bayonet	7.50	.22A	1	1,000	23	25
	25576			53	G-3 1/2	Miniature Bayonet	14.4	.12A	1	1,000	24	1
	25591			55	G-4 1/2	Miniature Bayonet	7.0	.41A	2	500	24	11
23218	12076	25593	4000	57	G-4 1/2	Miniature Bayonet	14.0	.24A	2	500	24	12
	12077			60MB	T-2 1/2	Miniature Bayonet	60.0	.05A	.73	7,500	32	13
				60PSB	T-2	Tel. Slide #5	60.0	.05A	—	7,500	31	26
	25643			63	G-6	S.C. Bayonet	7.0	.63A	3	1,000	25	4
12324	25652	25654	1000	64	G-6	D.C. Bayonet	7.0	.63A	3	1,000	25	5
	25692			67	G-6	S.C. Bayonet	13.5	.59A	4	5,000	25	10
	43606			68	G-6	D.C. Bayonet	13.5	.59A	4	5,000	25	11
	39218			70	T-1 3/4	Wedge	14.0	.15A	1.5	100	31	11
23015	39218	39219	4000	73	T-1 3/4	Wedge	14.0	.08A	.3	15,000	31	5
21029	38457	38458	4000	74	T-1 3/4	Wedge	14.0	.10A	.7	1,000	31	10
	25736			81	G-6	S.C. Bayonet	6.5	1.02A	6	500	25	2
	25751			82	G-6	D.C. Bayonet	6.5	1.02A	6	500	25	3
	40969			85	T-1 3/4	Wedge	28.0	.04A	.3	7,000	31	12
12363	40967	40968	4000	86	T-1 3/4	Wedge	6.3	.20A	.4	20,000	31	3
	25772			88	S-8	D.C. Bayonet	6.8	1.91A	15	300	27	9
	25778			89	G-6	S.C. Bayonet	13.0	.58A	6	750	25	6
	47797			89KR*	G-6	S.C. Bayonet	13.0	.58A	6	1,500	25	7
12364	25794	25796	1000	90	G-6	D.C. Bayonet	13.0	.58A	6	750	25	8
23217	25811	25813	500	93	S-8	S.C. Bayonet	12.8	1.04A	15	700	27	11
	25829			94	S-8	D.C. Bayonet	12.8	1.04A	15	700	27	12
	25836			97	G-6	S.C. Bayonet	13.5	.69A	4	5,000	25	13
	16287			98	G-6	S.C. Bayonet	13.0	.62A	6	800	25	9
12322	36147	15731	1000	105	B-6	S.C. Bayonet	12.8	1.00A	12	500	23	18
	25848			112	TL-3	Miniature Screw	1.2	.22A	—	5	34	5
	12078			120MB	T-2 1/2	Miniature Bayonet	120.0	.025A	.36	7,500	32	14
	12080			120PSB	T-2	Tel. Slide #5	120.0	.025A	—	7,500	31	27
	25916			147	T-3 1/4	Wedge	7.0	.43A	2	1,500	34	20
				149	T-3 1/4	Wedge	6.15	.53A	3.5	15	34	11
	25927			157	G-6	Miniature Screw	5.8	1.10A	8.1	50	25	1
	25931			158	T-3 1/4	Wedge	14.0	.24A	2	500	36	3
	23016			161	T-3 1/4	Wedge	14.0	.19A	1	4,000	35	28
	25956											

*New lamp added since last publication. **Turquoise—Halogen Lamps**

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Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
12327	25962	16302	4000	168	T-3 1/4	Wedge	14.0	.35A	3	1,500	36	19
47827				168XL*	T-3 1/4	Wedge	14.0	.35A	3	3,000	36	20
	19553	19852	4000	193	T-3 1/4	Wedge	14.0	.33A	2	15,000	36	15
		19921	4000	193E	T-3 1/4	Wedge, Wire Terminal	14.0	.33A	2	15,000	36	16
		11807	4000	193E-1	T-3 1/4	Wedge, Wire Terminal	14.0	.33A	2	15,000	36	17
12328	25965	16303	4000	194	T-3 1/4	Wedge	14.0	.27A	2	2,500	36	6
12356				194B	T-3 1/4	Wedge	14.0	.27A	2	2,500	36	7
12357				194G	T-3 1/4	Wedge	14.0	.27A	2	2,500	36	8
12319	44859	27470	4000	194NA	T-3 1/4	Wedge	14.0	.27A	1.5	2,500	36	9
47794				194NAXL*	T-3 1/4	Wedge	14.0	.27A	1.5	5,000	36	10
12355		21618	4000	194R	T-3 1/4	Wedge	14.0	.27A	2	2,500	36	11
25832				194XL	T-3 1/4	Wedge	14.0	.27A	2	12,000	36	12
	37983	37984	500	198	S-8	D.C. Index	12.8	2.25A	32	1,200	29	7
							14.0	.59A	3	5,000		
	37985	37986	500	199	S-8	S.C. Bayonet	12.8	2.25A	32	1,200	29	8
	25988			210	B-6	D.C. Bayonet	6.5	1.78A	15	100	23	14
12673	39224	11803	1000	211-2	T-3	Miniature Cap	12.8	.97A	12	1,000	33	12
23220		11806	1000	212-2	T-3	Miniature Cap	13.5	.74A	6	2,000	33	18
40135	39356	11804	1000	214-2	T-3	Miniature Cap	13.5	.52A	4	1,000	33	16
	26008			222	TL-3	Miniature Screw	2.25	.25A	—	5	34	6
	26063			243	TL-3	Miniature Screw	2.33	.27A	—	10	34	7
	26095			258	G-4 1/2	Miniature Screw	14.0	.27A	1.6	500	24	13
	26099			259	T-3 1/4	Wedge	6.3	.25A	.65	5,000	34	17
	44719			265	G-3 1/2	Miniature Bayonet	28.0	.08A	.75	5,000	24	4
	42758			267	T-3 1/4	Miniature Bayonet	6.3	.15A	.33	5,000	34	13
	32688			293	G-4 1/2	Miniature Bayonet	14.0	.33A	2	7,500	24	15
	26112			301	G-5	S.C. Bayonet	28.0	.17A	3	500	24	18
	26120			302	G-5	D.C. Bayonet	28.0	.17A	3	500	24	19
	26127			303	G-6	S.C. Bayonet	28.0	.30A	6	500	25	20
	26136			304	G-6	D.C. Bayonet	28.0	.30A	6	500	25	21
	26143			305	S-8	S.C. Bayonet	28.0	.51A	15	300	29	16
	26145			305AF	S-8	S.C. Bayonet	28.0	.51A	—	300	29	17
	26152			306	S-8	D.C. Bayonet	28.0	.51A	15	300	29	18
	26157			307	S-8	S.C. Bayonet	28.0	.67A	21	300	30	5
	26161			307AF	S-8	S.C. Bayonet	28.0	.67A	21	300	30	6
	26168			308	S-8	D.C. Bayonet	28.0	.67A	21	300	30	7
	26171			308AF	S-8	D.C. Bayonet	28.0	.67A	—	300	30	8
	26175			309	S-11	S.C. Bayonet	28.0	.90A	32	300	30	22
	26191			311	S-11	S.C. Bayonet	28.0	1.29A	50	300	30	23
	26212	26214	4000	313	T-3 1/4	Miniature Bayonet	28.0	.17A	3.5	500	37	4
	26238			315	S-8	S.C. Bayonet	28.0	.90A	32	300	30	13
	26243			316	T-3 1/4	Miniature Bayonet	6.0	.70A	3.4	500	34	10
	28519			327	T-1 3/4	S.C. Midget Flanged	28.0	.04A	.34	4,000	31	13
	28546			328	T-1 3/4	S.C. Midget Flanged	6.0	.20A	.34	1,000	31	2
	28567			330	T-1 3/4	S.C. Midget Flanged	14.0	.08A	.5	1,500	31	6
	28588			334	T-1 3/4	Midget Grooved	28.0	.04A	.34	4,000	31	14
	26255			356	G-3 1/2	Miniature Bayonet	28.0	.17A	3.5	500	24	5
	28653			381	T-1 3/4	S.C. Midget Flanged	6.3	.20A	.4	20,000	31	4
	28657			382	T-1 3/4	S.C. Midget Flanged	14.0	.08A	.3	40,000	31	7
	28660			385	T-1 3/4	S.C. Midget Flanged	28.0	.04A	.15	10,000	31	15
	28662			386	T-1 3/4	Midget Grooved	14.0	.08A	.3	40,000	31	8
	28664			387	T-1 3/4	S.C. Midget Flanged	28.0	.04A	.3	7,000	31	16
	28672			388	T-1 3/4	Midget Grooved	28.0	.04A	.3	7,000	31	17
	38918			400	T-3 1/4	Wedge	28.0	.10A	1.6	1,000	37	2
	26354			425	G-4 1/2	Miniature Screw	5.0	.50A	2.3	15	24	7

*New lamp added since last publication. [Turquoise-Halogen Lamps](#)

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Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
	26441			456	G-4 1/2	Miniature Bayonet	28.0	.17A	2	5,000	24	16
	39645			464	T-3 1/4	Wedge	28.0	.17A	3	1,500	37	5
	26460			502	G-4 1/2	Miniature Screw	5.1	.15A	.6	100	24	8
	26485			509K	G-6	Candelabra Screw	24.0	.18A	2.8	1,000	25	17
	44773	44774	4000	555	T-3 1/4	Wedge	6.3	.25A	.9	3,000	34	18
	38269			558	TL-3 1/4	Wedge	13.0	.33A	—	500	37	11
12358	39746	11820	1000	561	T-3	Rigid Loop	12.8	.97A	12	1,000	33	13
23019		11822	1000	562	T-3	Rigid Loop	13.5	.74A	6	2,000	33	19
26205		11825	1000	563	T-3	Rigid Loop	13.5	.52A	4	1,000	33	17
12672				570	T-4 3/4	Rigid Loop	12.8	2.10A	32	600	38	18
23020				577	T-4 3/4	Double End Cap	12.8	1.40A	21	1,000	38	17
	18442	18439	4000	590	T-3 1/4	Wedge	13.5	.37A	4	2,000	35	23
	25199	25200	4000	591	T-3 1/4	Wedge	14.0	.24A	2	3,000	36	4
	26549			605	G-4 1/2	Miniature Screw	6.15	.50A	3.4	15	24	9
	26561	26563	1000	623	G-6	S.C. Bayonet	28.0	.37A	6	1,000	25	22
	26567	26568	1000	624	G-6	D.C. Bayonet	28.0	.37A	6	1,000	25	23
23023	26570			631	G-6	S.C. Bayonet	14.0	.63A	6	1,000	25	16
	38866			656	T-3 1/4	Wedge	28.0	.06A	.62	2,500	36	28
	38196			657	T-3 1/4	Wedge	28.0	.08A	.62	15,000	36	30
	39999	40000	4000	658	T-3 1/4	Wedge	14.0	.08A	0.31	15,000	35	26
		28706	1000	685	T-1	Sub-Midget Flanged	5.0	.06A	.05	40,000	31	1
	43132			705	S-8	S.C. Bayonet	28.0	.51A	15	900	29	19
	26591			755	T-3 1/4	Miniature Bayonet	6.3	.15A	.33	20,000	34	14
	26593			756	T-3 1/4	Miniature Bayonet	14.0	.08A	.31	15,000	35	27
	26599			757	T-3 1/4	Miniature Bayonet	28.0	.08A	.62	15,000	37	1
	11014			767	T-2 1/4	Miniature Bayonet	6.0	2.00A	19	50	32	1
	11250			773	T-2 3/4	G-4 Two Pin	12.0	.67A	10	1,000	32	16
	12723	12724	500	774	T-2 1/4	G-4 Two Pin	12.0	.67A	13	50	32	4
		47618	500	777	T-2 1/4	G-4 Two Pin	4.0	1.20A	5.5	275	31	28
	49718			778	T-2 3/4	G-4 Two Pin	6.0	3.33A	32	100	32	15
	18344			780	T-2 3/4	G-4 Two Pin	12.0	10W	12	2,000	32	17
	44840	44841	500	782	T-2 3/4	G-4 Two Pin	12.0	1.66A	25	2,000	32	19
	44500	44501	500	783	T-2 1/4	G-4 Two Pin	12.0	1.00A	22	50	32	5
	43760	43761	500	784	T-2 1/4	G-4 Two Pin	6.0	1.00A	9	50	31	29
	43762	43763	500	785	T-2 1/4	G-4 Two Pin	6.0	1.33A	13	50	31	30
	43764	43765	500	786	T-2 1/4	G-4 Two Pin	6.0	2.00A	19	50	32	2
	43115	43116	500	787	T-2 1/4	G-4 Two Pin	6.0	1.67A	16	100	31	31
	43117	43118	500	788	T-2 1/4	G-4 Two Pin	6.0	3.33A	32	100	32	3
	43119			789	T-2 3/4	G-4 Two Pin	12.0	1.17A	22	200	32	18
	43121	43122	500	790	T-2 3/4	G-4 Two Pin	14.0	1.79A	42	200	32	23
	43123	43124	500	791	T-2 3/4	G-4 Two Pin	14.0	2.50A	61	200	32	24
	20469			795	T-4	S.C. Bayonet	12.8	50W	108	200	38	3
12320	40848	14132	540	862	T-3 1/4	Right Angle Prefocus	12.8	2.93A	60	1,900	35	6
		20904	540	880 (H27W/1)	T-3 1/4	Axial Prefocus / PG13	12.8	2.10A	43	300	34	23
							13.5	29W	38	150		
		27582	540	880L*	T-3 1/4	Axial Prefocus	12.8	2.10A	43	300	34	24
		14694	540	880X	T-3 1/4	Axial Prefocus	12.8	2.10A	43	1,000	34	25
12334		20905	540	881 (H27W/2)	T-3 1/4	Right Angle Prefocus / PGJ13	12.8	2.10A	43	300	35	1
							13.5	29W	38	150		
		27583	540	881L*	T-3 1/4	Right Angle Prefocus	12.8	2.10A	43	1,000	35	2
		11646	540	881X	T-3 1/4	Right Angle Prefocus	12.8	2.10A	43	300	35	3
	13158	13161	1000	882	T-2 1/4	Printed Circuit Socket	12.8	.35A	3.8	2,000	32	6
	18167	16772	500	882X	T-2 1/4	G-4 Two Pin	12.8	.35A	3.8	2,000	32	7
12335		20907	540	885	T-3 1/4	Axial Prefocus	12.8	3.90A	100	200	35	14
14689		20909	540	886	T-3 1/4	Right Angle Prefocus	12.8	3.90A	100	200	35	15

*New lamp added since last publication. **Turquoise—Halogen Lamps**

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Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.		
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps						
12336		25639	540	887	T-3 1/4	Axial Prefocus	12.8	3.90A	95	400	35	16		
		25703	540	888	T-3 1/4	Right Angle Prefocus	12.8	3.90A	95	400	35	17		
		20910	540	889	T-3 1/4	Right Angle	12.8	2.10A	43	300	35	4		
		20911	540	890	T-3 1/4	Axial	12.8	2.10A	43	300	35	5		
12308	15246	15248	500	891	T-2 1/4	G-4 Two Pin	12.8	.63A	11	500	32	9		
12338	16481	20913	540	892	T-3 1/4	Axial	12.8	1.25A	28	300	34	22		
	893			T-3 1/4	Axial Prefocus	12.8	2.93A	75	200	35	7			
	893X			T-3 1/4	Axial Prefocus	12.8	2.93A	75	200	35	8			
22112	20238	18455	540	894	T-3 1/4	Right Angle Prefocus	12.8	2.93A	75	200	35	9		
22113		26345	540	894X*	T-3 1/4	Right Angle Prefocus	12.8	2.93A	75	200	35	10		
		20914	540	896	T-3 1/4	Right Angle Prefocus	12.8	2.93A	75	200	35	11		
		12271	540	898	T-3 1/4	Right Angle Prefocus	12.8	2.93A	60	1,900	35	12		
22111		12272	540	899	T-3 1/4	Axial Prefocus	12.8	2.93A	60	1,900	35	13		
14273	40462	14007	1000	901	T-5	Wedge	12.8	.31A	2.9	500	39	16		
40675			901A*	T-5	Wedge	12.8	.31A	-	500	39	17			
23024		40463	1000	904	T-5	Wedge	13.5	.69A	4	5,000	40	3		
12366		40289	40290	1000	906	T-5	Wedge	13.0	.69A	6	1,000	39	25	
12365			48505	1000	906A*	T-5	Wedge	13.0	.69A	-	1,000	39	26	
			44754	1000	908	T-5	Wedge	6.0	1.50A	12	50	39	14	
			44756	1000	909	T-5	Wedge	6.0	.62A	3	50	39	11	
			40504	1000	912	T-5	Wedge	12.8	1.00A	12	1,000	39	21	
			44769		914	T-5	Wedge	4.0	.90A	3.5	50	39	9	
			44771	1000	915	T-5	Wedge	12.0	.75A	11	50	39	15	
23025	16289	16288	1000	916	T-5	Wedge	13.5	.54A	2	10,000	40	2		
23026	21860			916NA	T-5	Wedge	13.0	.54A	1.5	10,000	39	24		
40179	17837	14008	2000	918	T-5	Wedge	12.8	.56A	6.5	500	39	18		
26199				920	T-5	Wedge	12.8	1.20A	10	1,200	39	22		
12307	43374	11743	1000	921	T-5	Wedge	12.8	1.40A	21	500	39	23		
23027	13274	13275	1000	922	T-5	Wedge	12.8	.98A	15	200	39	20		
40180	13483			923	T-5	Wedge	12.8	.91A	12.5	500	39	19		
926				T-5	Wedge	4.0	1.80A	7.5	50	39	10			
927				T-5	Wedge	6.0	1.20A	8	50	39	13			
939				T-5	Wedge	6.0	.90A	5.4	50	39	12			
12367	26709			1003	B-6	S.C. Bayonet	12.8	.94A	15	200	23	15		
47800				1003KR*	B-6	S.C. Bayonet	12.8	.94A	15	400	23	16		
12373	26726	26728	500	1004	B-6	D.C. Bayonet	12.8	.94A	15	200	23	17		
40134	26775			1034	S-8	D.C. Index	12.8	1.80A	32	200	27	20		
					14.0	.59A	3	5,000						
	32147			1062	RP-11	D.C. Bayonet	40.0	.92A	50	100	26	8		
	26838			1073	S-8	S.C. Bayonet	12.8	1.80A	32	200	27	21		
	26854			1076	S-8	D.C. Bayonet	12.8	1.80A	32	200	27	22		
	37169			1096	S-8	D.C. Pf. (S)	6.0	4.50A	30	500	26	12		
	26872			1129	S-8	S.C. Bayonet	6.4	2.63A	21	200	27	1		
	26885			1133	RP-11	S.C. Bayonet	6.2	3.91A	32	200	26	5		
12346	26903	26905	500	1141	S-8	S.C. Bayonet	12.8	1.44A	21	1,000	27	15		
47802	26917	26919	500	1141KR*	S-8	S.C. Bayonet	12.8	1.44A	21	2,000	27	16		
1142				S-8	D.C. Bayonet	12.8	1.44A	21	1,000	27	17			
1152				S-8	D.C. Bayonet	12.8	1.34A	21	500	27	13			
1154				S-8	D.C. Index	6.4	2.63A	21	200	27	2			
12344	26955	26962	500	1155	G-6	S.C. Bayonet	13.5	.75A	3	1,000				
	1156			S-8	S.C. Bayonet	12.8	2.10A	32	1,200	27	23			
	23334			11666	500	1156KR	S-8	S.C. Bayonet	12.8	2.10A	32	2,400	27	24
	21028			20248		1156NA	S-8	S.C. Bayonet	12.8	2.10A	24	1,200	27	25

*New lamp added since last publication. [Turquoise-Halogen Lamps](#)

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Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
12294	26969	26971	500	1157	S-8	D.C. Index	12.8	2.10A	32	1,200	27	26
							14.0	.59A	3	5,000		
23337				1157KR	S-8	D.C. Index	12.8	2.10A	32	2,400	27	27
							14.0	.59A	3	10,000		
12310	26975	26976	500	1157NA	S-8	D.C. Index	12.8	2.10A	24	1,200	27	28
							14.0	.59A	2.2	5,000		
47798				1157NAKR*	S-8	D.C. Index	12.8	2.10A	24	2,400	27	29
							14.0	.59A	2.2	10,000		
	27004			1176	S-8	D.C. Bayonet	12.8	1.34A	21	300	27	14
							14.0	.59A	6	1,500		
	27021	27023	500	1195	RP-11	S.C. Bayonet	12.5	3.00A	50	300	26	6
	27026			1196	RP-11	D.C. Bayonet	12.5	3.00A	50	300	26	7
	27032			1203	S-8	S.C. Bayonet	28.0	.71A	21	400	30	9
	27044			1224	G-6	D.C. Bayonet	34.0	.16A	3.8	500	25	24
	39904			1229	S-8	D.C. Bayonet	40.0	.38A	15	400	30	20
	27092			1251	G-6	S.C. Bayonet	28.0	.23A	3	2,000	25	18
	27097			1252	G-6	D.C. Bayonet	28.0	.23A	3	2,000	25	19
41755	22523			1295NA	S-8	S.C. Bayonet	12.5	3.00A	37	200	27	10
	12824			1308	B-6	S.C. Bayonet	28.0	.56A	16	2,000	23	20
	27118			1309	B-6	S.C. Bayonet	28.0	.52A	15	300	23	19
	32098			1315	G-5	S.C. Bayonet	2.5	1.00A	1.75	20	24	17
	34265			1317	B-6	S.C. Bayonet	6.00	.51A	3.4	100	23	13
	27150			1383	R-12	S.C. Bayonet	13.0	20W	—	300	26	1
	27154			1385	R-12	S.C. Bayonet	28.0	20W	—	300	26	3
	27159			1388	R-12	D.C. Bayonet	24.0	20W	—	500	26	2
	27179			1408	T-3 1/4	Miniature Bayonet	10.0	.13A	.85	250	34	21
	27193			1434	T-5	S.C. Bayonet	3.7	2.75A	11	100	39	8
12329	27207	27209	4000	1445	G-3 1/2	Miniature Bayonet	14.4	.135A	.7	2,000	24	2
							18.0	.15A	1.5	250		
	27252			1449	G-3 1/2	Miniature Screw	14.0	.20A	2	250	23	26
	27263			1450	G-3 1/2	Miniature Bayonet	24.0	.035A	.23	3,000	24	3
	28310			1460	S-8	D.C. Pf. (A)	6.5	2.75A	23	100	27	3
	37342	37343	500	1460X	S-8	D.C. Pf. (A)	6.5	2.75A	23	100	27	4
	27305			1468	S-8	D.C. Pf. (S)	6.0	4.50A	30	500	26	13
	42677			1468X	S-8	D.C. Pf. (S)	6.0	4.50A	30	500	26	14
	27356			1487	T-3 1/4	Miniature Screw	14.0	.20A	1.4	3,000	36	1
	27382			1493	S-8	D.C. Bayonet	6.5	2.75A	23	100	27	5
	27392			1495	T-4 1/2	Miniature Bayonet	28.0	.30A	6	500	38	15
	44842			1495X	T-4 1/2	Miniature Bayonet	28.0	.30A	6	500	38	16
	27431			1561	S-11	S.C. Pf. (B)	6.3	4.00A	24	1,500	30	21
	40943			1591	S-8	S.C. Bayonet	28.0	.61A	15	1,000	29	20
	40945			1591AF	S-8	S.C. Bayonet	28.0	.61A	—	1,000	29	21
	27439			1594	S-8	D.C. Bayonet	6.0	5.00A	36	250	26	15
	27461			1612	S-8	D.C. Bayonet	5.4	1.90A	10	1,000	26	9
	27472			1619	S-8	S.C. Bayonet	6.7	1.90A	15	500	27	8
	27488	27489	500	1630	S-8	D.C. Pf. (A)	6.5	2.75A	23	100	27	6
	27491			1631X	S-8	D.C. Pf. (A)	6.5	2.75A	23	100	27	7
	27496			1634	S-8	D.C. Pf. (A)	20.0	1.00A	24	200	29	15
	27504			1638	S-8	D.C. Bayonet	28.0	1.02A	32	500	30	18
	27529	27530	500	1662	S-8	D.C. Index	28.0	.93A	32	400	30	14
							28.0	.34A	6	1,000		
	27532			1665	S-8	S.C. Bayonet	28.0	.80A	21	1,000	30	11
	27533			1665AF	S-8	S.C. Bayonet	28.0	.80A	—	1,000	30	12
	27548			1680	S-8	S.C. Bayonet	6.0	4.10A	32	300	26	10
	33995			1680X	S-8	S.C. Bayonet	6.0	4.10A	32	300	26	11

*New lamp added since last publication. **Turquoise—Halogen Lamps**

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Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
12359	27557	27679	4000	1683	S-8	S.C. Bayonet	28.0	1.02A	32	500	30	19
	27566			1691	S-8	S.C. Bayonet	28.0	.61A	15	1,000	29	22
	27568			1691AF	S-8	S.C. Bayonet	28.0	.61A	—	1,000	29	23
	27571			1692	S-8	D.C. Bayonet	28.0	.61A	15	1,000	30	1
	27630			1777	S-8	S.C. Bayonet	12.8	1.52A	26	400	27	18
	27667			1813	T-3 1/4	Miniature Bayonet	14.4	.10A	.86	1,000	36	23
	27677			1815	T-3 1/4	Miniature Bayonet	14.0	.20A	1.4	3,000	36	2
	27688			1816	T-3 1/4	Miniature Bayonet	13.0	.33A	3	1,000	35	21
	27707			1818	T-3 1/4	Miniature Bayonet	24.0	.17A	3.3	250	36	25
	27711	27712	1000	1819	T-3 1/4	Miniature Bayonet	28.0	.04A	.34	2,500	36	27
	27727			1820	T-3 1/4	Miniature Bayonet	28.0	.10A	1.6	1,000	37	3
	27749			1822	T-3 1/4	Miniature Bayonet	36.0	.10A	2.1	1,000	37	8
	27772			1828	T-3 1/4	Miniature Bayonet	37.5	.05A	.65	3,000	37	9
	27776			1829	T-3 1/4	Miniature Bayonet	28.0	.07A	1	1,000	36	29
	27804			1835	T-3 1/4	Miniature Bayonet	55.0	.05A	1.1	5,000	37	10
	27816			1843	T-3 1/4	Miniature Bayonet	28.0	.022A	.2	3,000	36	26
	27819			1847	T-3 1/4	Miniature Bayonet	6.3	.15A	.38	5,000	34	15
	27833			1850	T-3 1/4	Miniature Bayonet	5.0	.09A	.25	1,500	34	9
	27862	27863	1000	1864	T-3 1/4	Miniature Bayonet	28.0	.17A	3	1,500	37	6
	27868			1866	T-3 1/4	Miniature Bayonet	6.3	.25A	.65	5,000	34	19
	40383			1873	T-3 1/4	Miniature Bayonet	28.0	.20A	3	7,000	37	7
	27889			1876	T-5	S.C. Bayonet	3.5	2.50A	6.5	2,000	39	7
	27907			1889	T-3 1/4	Miniature Bayonet	14.0	.27A	2	2,000	36	13
	27917			1891	T-3 1/4	Miniature Bayonet	14.0	.24A	2	500	36	5
	27927			1892	T-3 1/4	Miniature Bayonet	14.4	.12A	.75	1,000	36	24
12332	27935	27937	4000	1893	T-3 1/4	Miniature Bayonet	14.0	.33A	2	7,500	36	18
12330	27945	27948	4000	1895	G-4 1/2	Miniature Bayonet	14.0	.27A	2	2,000	24	14
12326	34021	12859	100	1939X	T-7	S.C. Bayonet	28.0	1.79A	70	300	40	12
	28008			1940	T-7	S.C. Bayonet	14.0	3.57A	75	300	40	10
	37034			1944	T-7	S.C. Bayonet	14.0	3.57A	75	300	40	11
	18617			1946	T-3	Two Pin with Leads	28.0	250W	660	50	34	4
	28011			1958	T-4	Tab	28.0	150W	250	300	38	11
	39641			1962B	T-3	Wire Terminal	8.5	62W	110	50	33	4
				1962BG	T-3	Wire Terminals	8.5	62W	110	50	33	5
				1962DX	T-3	Wire Terminals	8.5	62W	80	150	33	6
				1962DZ	T-3	Wire Terminals	8.5	62W	80	150	33	7
				1962TY	T-3	Wire Terminals	8.5	62W	110	50	33	8
	44152	37947	100	1968	T-3	Double Slide	28.0	25W	15	500	33	20
	13667			1970	T-3	Special Sleeve	28.0	100W	150	1,000	34	1
	28034			1970X	T-3	Special Sleeve	28.0	100W	140	1,000	34	2
	32780			1974	T-3	Wire Terminals	6.0	20W	10	10,000	33	2
	38545			1978X	T-3	Special	10.0	100W	130	2,000	33	9
	38627			1982	T-3	S.C. Bayonet	28.0	75W	110	1,000	33	22
	21061			1982SP	T-3	S.C. Bayonet	28.0	75W	107	2,000	33	23
	39718			1983	T-4	Two Pin	10.0	100W	130	2,000	38	1
	44717			1986	T-4	Wire Terminal	28.0	250W	600	100	38	13
						S.C. Prefocus Collar						
	47695			1987	T-4	D.C. Bayonet	28.0	150W	240	700	38	12
	38535			1988	T-3	Special Wire Leads	10.0	100W	130	2,000	33	10
	19280			2040	T-2 1/4	Wedge	12.8	.625A	10.5	500	32	8
12296	44760	18620	500	2057	S-8	D.C. Index	12.8	2.10A	32	1,200	28	1
23339		10018	500	2057KR	S-8	D.C. Index	12.8	.48A	2	5,000		
							14.0	.48A	2	10,000		

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Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
12312	44763	44764	500	2057NA	S-8	D.C. Index	12.8 14.0	2.10A .48A	24 1.5	1,200 5,000	28	3
47799				2057NAKR*	S-8	D.C. Index	12.8 14.0	2.10A .48A	24 1.5	2,400 10,000	28	4
		12899	600	2058U	S-8	Wire Terminals	12.8 14.0	2.10A .48A	32 2	1,200 5,000	28	5
	26697			2059*	T-2½	Miniature Bayonet	12.0	.833A	9.1	4,000	32	10
	26698			2059X*	T-2½	Miniature Bayonet	12.0	.833A	8	4,000	32	11
	21494			2074	T-3	Wire Terminals	7.0	25W	24	2,700	33	3
		28085	600	2144	S-8	Wire Terminals	12.8	2.10A	32	1,200	28	6
		32701	500	2155	S-8	Wire Terminals	28.0 28.0	.93A .34A	32 6	400 1,000	30	15
	34763			2232	S-8	S.C. Bayonet	28.0	.643A	18	2,000	30	2
	26702			2232LL*	S-8	S.C. Bayonet	28.0	.643A	18	4,000	30	3
	43134			2232SB	S-8	S.C. Bayonet	28.0	.643A	—	2,000	30	4
	36906			2233	S-8	S.C. Bayonet	28.0	.766A	21	2,000	30	10
		44964	1000	2286D	T-3¼	Wire Term Down	14.0	.35A	2.7	1,500	36	21
	28100			2331	RP-11	D.C. Pf. (S)	5.9 6.2	4.66A 4.49A	32 32	400 400	26	4
12298	16291	16290	500	2357	S-8	D.C. Index	12.8 14.0	2.20A .59A	40 3	400 5,000	28	16
12299	15698	15699	500	2357NA	S-8	D.C. Index	12.8 14.0	2.20A .59A	30 2.2	400 5,000	28	17
	18047			2396	S-8	S.C. Bayonet	12.8	2.23A	40	400	28	18
27560				2397*	S-8	D.C. Index	12.8 14.0	2.23A .48A	40 2	400 5,000	28	19
		19792	100	2556	T-3	Two Pin	28.0	200W	525	50	34	3
		19566	100	2586	T-4	Two Pin with Insulation Leads	28.0	250W	600	100	38	14
	43805			2604X	TL-2¾	G-4 Two Pin	5.0	2.00A	—	5,000	33	1
	36508			3011	S-11	S.C. Bayonet	28.0	1.29A	44	1,000	30	24
12305	18389			3057	S-8	Plastic Wedge	12.8 14.0	2.10A .48A	32 2	1,200 5,000	28	7
26378				3057KR	S-8	Plastic Wedge	12.8 14.0	2.10A .48A	32 2	2,000 10,000	28	8
12313	18391			3057NA	S-8	Plastic Wedge	12.8 14.0	2.10A .48A	24 1.5	1,200 5,000	28	9
	14689			3078*	T-3	Special	10.0	100W	95	4,500	33	11
23028				3155	S-8	Plastic Wedge	12.8	1.60A	21	1,500	27	19
12351	21863			3156	S-8	Plastic Wedge	12.8	2.10A	32	1,200	28	10
27565				3156KR*	S-8	Plastic Wedge	12.8	2.10A	32	2,000	28	11
12306	17172			3157	S-8	Plastic Wedge	12.8 14.0	2.10A .59A	32 3	1,200 5,000	28	12
26377				3157KR	S-8	Plastic Wedge	12.8 14.0	2.10A .59A	32 3	2,000 10,000	28	13
12314	17173			3157NA	S-8	Plastic Wedge	12.8 14.0	2.10A .59A	24 2.2	1,200 5,000	28	14
26380				3157NAKR	S-8	Plastic Wedge	12.8 14.0	2.10A .59A	24 2.2	2,000 10,000	28	15
14387	22525			3357/3457	S-8	Plastic Wedge	12.8 14.0	2.23A .59A	40 3	400 5,000	29	1
26379				3357KR/3457KR	S-8	Plastic Wedge	12.8 14.0	2.23A .59A	40 3	800 10,000	29	2
14388	22526			3357NA/3457NA	S-8	Plastic Wedge	12.8 14.0	2.23A .59A	30 2.2	400 5,000	29	3

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Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
25834				3496	T-7	D.C. Index	12.8	2.10A	43	600	40	6
							14.0	.59A	3	5,000		
25835				3497	T-7	S.C. Bayonet	12.8	2.10A	45	600	40	7
25837				3652	T-3 1/4	Wedge	13.5	.37A	6	700	35	24
15657				4157KR*	S-8	Plastic Wedge	12.8	2.23A	32	3,600	29	5
							14.0	.59A	3	10,000		
47458				4157NAKR*	S-8	Plastic Wedge	12.8	2.23A	24	3,600	29	6
							14.0	.59A	2.2	10,000		
	28154			5004CW	T-5	Miniature Pinless	A.C.	4W	—	7,500	41	1
	28155			5004WW	T-5	Miniature Pinless	A.C.	4W	—	7,500	41	2
	28160			5008CW	T-5	Miniature Pinless	A.C.	8W	—	7,500	41	7
	28163			5008WW	T-5	Miniature Pinless	A.C.	8W	—	7,500	41	8
	28168			5013CW	T-5	Miniature Pinless	A.C.	13W	—	7,500	41	11
	28169			5013WW	T-5	Miniature Pinless	A.C.	13W	—	7,500	41	12
	27367			5104CW*	T-5	Miniature Bi-Pin	A.C.	4W	—	7,500	41	3
	28173			5104WW	T-5	Miniature Bi-Pin	A.C.	4W	—	7,500	41	4
	12774			5106CW	T-5	Miniature Bi-Pin	A.C.	6W	—	7,500	41	5
	33612			5106WW	T-5	Miniature Bi-Pin	A.C.	6W	—	7,500	41	6
	27466			5108CW*	T-5	Miniature Bi-Pin	A.C.	8W	—	7,500	41	9
	28175			5108WW	T-5	Miniature Bi-Pin	A.C.	8W	—	7,500	41	10
	12775			5113CW	T-5	Miniature Bi-Pin	A.C.	13W	—	7,500	41	13
	28178			5113WW	T-5	Miniature Bi-Pin	A.C.	13W	—	7,500	41	14
	28926			7387	T-1 3/4	Bi-Pin M-23	28.0	.04A	.3	7,000	31	18
26200				7440	T-7	Wedge / 103 x 16DQ	13.5	1.85	37	300	40	8
26201		10014	1000	7443	T-7	Wedge / 103 x 16DQ	13.5	1.85	35	500	40	9
							13.5	0.4	3	1,000		
22432	22389	14542	200	9003/HB2	T-4 3/4	P43T-38	12.8	67W	119	150	39	5
							12.8	60W	72	800		
45470				9003SB*	T-4 3/4	P43T-38	12.8	67W	119	80	39	6
							12.8	60W	72	150		
18508	13382	18699	250	9004/HB1	T-4 3/4	Axial Plastic Prefocus	12.8	65W	95	150	38	19
							12.8	45W	55	320		
27561				9004HO*	T-4 3/4	Axial Plastic Prefocus	12.8	65W	95	150	38	20
							12.8	42W	56	640		
45471				9004SB*	T-4 3/4	Axial Plastic Prefocus	12.8	65W	95	40	38	21
							12.8	45W	56	200		
13993	11249	20559	250	9004XL	T-4 3/4	Axial Plastic Prefocus	12.8	65W	95	150	38	22
							12.8	47W	55	850		
18509	13384	14710	200	9005/HB3	T-4	Right Angle Plastic, Prefocus	12.8	65W	135	800	38	8
45472				9005SB*	T-4	Right Angle Plastic, Prefocus	12.8	65W	135	150	38	9
45866				9005XSLL*	T-4	Axial Plastic Prefocus	12.8	65W	135	700	38	10
18510	13397	14711	200	9006/HB4	T-4	Right Angle Plastic, Prefocus	12.8	55W	80	850	38	4
47640				9006HO*	T-4	Right Angle Plastic, Prefocus	12.8	55W	80	1,000	38	5
45473				9006SB*	T-4	Right Angle Plastic, Prefocus	12.8	55W	80	320	38	6
45868				9006XSLL*	T-4	Axial Plastic Prefocus	12.8	55W	80	2,000	38	7
22388	20551			9007/HB5	T-4 3/4	Axial Plastic Prefocus	12.8	65W	107	150	39	1
							12.8	55W	79	1,100		
47642				9007HO*	T-4 3/4	Axial Plastic Prefocus	12.8	65W	107	150	39	2
							12.8	53W	80	320		
	10209	250		9007LL	T-4 3/4	Axial Plastic Prefocus	12.8	65W	107	150	39	3
							12.8	55W	79	1,450		
45474				9007SB*	T-4 3/4	Axial Plastic Prefocus	12.8	65W	107	110	39	4
							12.8	58W	80	250		
	14776	360		9011	T-3 1/4	PX20D	12.8	65W	183	150	35	19
	47327	900		9011X HIR*	T-3 1/4	PX20D	12.8	65W	183	150	35	20

*New lamp added since last publication. **Turquoise-Halogen Lamps**

INDEX – MINIATURE LAMPS

Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
		41495	360	9012 (HIR2)*	T-3 1/4	PX 22D	12.8	55W	135	900	35	18
40843		37735	200	9145 (H10)*	T-4	PY20D	12.8	45W	65	1,500	38	2
40336	27328	32376	300	50310/1 (H1-55)	T-3 1/2	P14.5S	13.2	62W	123	225	37	17
	27569			50320/1	T-3 1/2	P14.5S	28.0	80W	151	600	37	27
				(H1-70/28V)								
12339	27331	22132	400	50340 (H3-55)	T-3 1/2	PK22S	13.2	62W	115	225	37	18
		23445	400	50340HD (H3-55)	T-3 1/2	PK22S	13.2	62W	111	600	37	19
		35044	400	50340LL (H3-55)	T-3 1/2	PK22S	13.2	64W	106	2,000	37	21
	27332	23438	400	50350 (H3-70/28V)	T-3 1/2	PK22S	28.0	75W	135	225	37	26
		23442	400	50390 (H3-35)	T-3 1/2	PK22S	13.2	40W	60	200	37	12
	27330	22130	400	50410 (H2-55)	T-3 1/2	X511	13.2	62W	143	225	37	20
18132	27334	22133	200	50440 (H4-60/55)	T-5	P43T-38	13.2	71W	138	225	40	1
							13.2	66W	80	900		
	27342	30833	200	50450	T-5	P43T-38	28.0	80W	151	150	40	5
				(H4-75/70/28V)			28.0	73W	95	300		
12341				52130 (H3-100)	T-3 1/2	PK22S	13.2	92W	187	100	37	23
	27329			52140 (H1-100)*	T-3 1/2	P14.5S	13.2	100W	219	100	37	24
		23428	400	52590HD	T-3 1/2	PK22S	28.0	66W	102	1,000	37	25
				(H3-65/28V)								
45591				56110*	T-3	Miniature Bayonet	13.2	1.83A	40	100	33	14
26374		35755	200	58520 (H7-55)	T-3 1/2	PX26D	13.2	56.5W	115	500	37	16
47461				58540*	T-3	Miniature Bayonet	13.5	.37A	63	240	33	15
	26696			A-103*	T-3	Special	28.0	50W	60	1,000	33	21
23312		30872		C5W	T-3 1/2	SV8.5/8	13.5	.37A	3.6	450	42	4
		16124	144	D2R*	T-3	P32d-2	85	35W	114	1,000	41	15
		15999	144	D2S*	T-3	P32d-2	85	35W	254	1,000	41	16
25323				DE3021	T-2 1/4	SV7MM	14.0	.24A	2	1,000	42	5
12353				DE3022	T-2 1/4	SV7MM	13.0	.38A	3	1,000	42	6
12354	12084			DE3175	T-3 1/4	SV8.5MM	13.0	.77A	9.55	400	42	7
	12085			DE3425	T-4	SV8.5MM	13.0	.77A	9.55	400	42	8
23324				DE7576	T-3 1/2	SV8.5/8	13.5	.74A	9.8	200	42	9
		15765	300	H8*	T-3 1/2	PGJ19-1	13.2	40W	64	400	37	13
		15827	300	H9*	T-3 1/2	PGJ19-5	13.2	65W	167	125	37	22
		15828	300	H11*	T-3 1/2	PGJ19-2	13.2	55W	107	550	37	14
		15963	300	H11LL*	T-3 1/2	PGJ19-2	13.2	55W	107	1,400	37	15
22961				KPR102	B-3 1/2	S.C. Miniature Flanged	2.4	.70A	1.3	15	23	4
23151				KPR104	B-3 1/2	S.C. Miniature Flanged	2.2	.47A	.47	15	23	1
23153				KPR113	B-3 1/2	S.C. Miniature Flanged	4.8	.75A	4.1	20	23	9
23154				KPR118	B-3 1/2	S.C. Miniature Flanged	7.2	.55A	5.2	15	23	11
	12571			ML20/ OF-28	T-8	Disk	28.0	20W	—	500	40	13
23306		11601	1000	P21W (P25-1)	S-8	S.C. Bayonet	13.5	1.85A	36.6	250	29	12
		38655	1000	P21W LL*	S-8	S.C. Bayonet	13.5	1.85A	36.6	300	29	13
27561		30857	1000	P21/4W*	S-8	D.C. Index	13.5	1.85A	35	100	29	9
							13.5	.37A	1.19	100		
23303		11604	1000	P21/5W (P25-2)	S-8	D.C. Index	13.5	1.85A	35	250	29	10
							13.5	.44A	2.78	1,000		
		92475	1000	P21/5W LL*	S-8	D.C. Index	13.5	1.85A	35	600	29	11
							13.5	.44A	2.78	3,000		
	40778			P21W 24V*	S-8	S.C. Bayonet	28.0	1.00A	36.6	150	30	17
		30856	1000	P21/5W*	S-8	D.C. Index	28.0	1.00A	35	150	30	16
							28.0	.36A	3.18	1,500		
		23036	1000	PC161	T-3 1/4	Printed Circuit Socket	14.0	.19A	1	4,000	35	29
	27222	23037	1000	PC168	T-3 1/4	Printed Circuit Socket	14.0	.35A	3	1,500	36	22
	72221	23021	1000	PC194	T-3 1/4	Printed Circuit Socket	14.0	.27A	2	2,500	36	14
12675	25181			PR2	B-3 1/2	S.C. Miniature Flanged	2.38	.50A	.8	15	23	3

*New lamp added since last publication. **Turquoise—Halogen Lamps**

INDEX – MINIATURE LAMPS

Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
12676	25193			PR3	B-3½	S.C. Miniature Flanged	3.57	.50A	1.5	15	23	6
12677				PR4	B-3½	S.C. Miniature Flanged	2.33	.27A	.4	10	23	2
	25222			PR6	B-3½	S.C. Miniature Flanged	2.47	.30A	.45	30	23	5
	25235			PR7	B-3½	S.C. Miniature Flanged	3.70	.30A	.9	30	23	7
12680	25252			PR12	B-3½	S.C. Miniature Flanged	5.95	.50A	3.1	15	23	10
12681	25262			PR13	B-3½	S.C. Miniature Flanged	4.75	.50A	2.2	15	23	8
	25289			PR18	B-3½	S.C. Miniature Flanged	7.20	.55A	5.5	3	23	12
41370		32648	500	PY21W*	S-8	S.C. Bayonet	13.5	1.85A	22.3	250	29	14
23314		30859	2000	R5W LL	G-6	S.C. Bayonet	13.5	5W	4.0	500	25	15
23322		35417	2000	R10W LL	G-6	S.C. Bayonet	13.5	10W	10.0	400	25	14
23318				T4W	T-2¾	Miniature Bayonet	13.5	.30A	2.8	450	32	20
27562		35030	2000	W3W	T-3¼	Wedge	13.5	3W	1.75	1,000	35	22
27563		37640	2000	W5W	T-3¼	Wedge	13.5	5W	4	300	35	25
		26353	1000	W16W	T-5	Wedge	13.5	1.44A	24.6	250	40	4

INDEX – NEON GLOW LAMPS

Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps			
	12064			B1A (NE-51)	T-3¼	Miniature Bayonet	105-125	.0003A	15,000	42	1
	12065			B2A (NE-51H)	T-3¼	Miniature Bayonet	105-125	.0012A	25,000	42	2
	31675			B7A (NE-45)	T-4½	Candelabra Screw	105-125	.002A	7,500	42	3

INDEX – SEALED BEAM LAMPS

Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
	18511			4000	PAR46	3 Contact Lugs	12.8	37.5W	SAE	200	47	34
							12.8	60W		320		
	18516	24231	672	4001	PAR46	2 Contact Lugs	12.8	37.5W	SAE	300	47	35
	24327			4013	PAR46	Screw Terminals	6.4	25W	800	300	47	24
	24339			4014	PAR36	Screw Terminals	6.4	18W	1,500	200	45	24
	24369			4019	PAR46	Screw Terminals	6.2	30W	1,200	300	47	23
	38418			4040	PAR46	3 Contact Lugs	12.8	37.5W	SAE	300	47	36
							12.8	60W		500		
	39585	39586	60	4042	PAR36	Screw Terminals	6.4	12W	1,100	150	45	23
	40588	40589	60	4044	PAR36	Screw Terminals	12.0	12W	1,100	150	45	29
	10540	10541	60	4044-1	PAR36	Slip-on Terminals	12.0	12W	1,100	150	45	30
	25051			4313	PAR36	Screw Terminals	13.0	250W	140,000	25	47	1
	39366	39367	60	4340	PAR36	Slip-on Terminals	48.0	80W	2,500	400	47	22
	39362	39363	60	4350	PAR36	Slip-on Terminals	36.0	60W	2,100	400	47	21
	12961			4402A	PAR36	Screw Terminals	28.0	50W	1,000	400	47	4
	24425	24423	60	4405	PAR36	Screw Terminals	12.8	30W	50,000	100	46	5
	24430	24428	60	4406	PAR36	Screw Terminals	12.8	35W	600	300	46	11
	24439			4410	PAR36	Screw Terminals	12.8	35W	600	300	46	12
	24448	24443	60	4411	PAR36	Screw Terminals	12.8	35W	3,000	300	46	13
	37889			4411-1	PAR36	Slip-on Terminals	12.8	35W	3,000	300	46	14
		48032	60	4411-3*	PAR36	Combination	12.8	35W	3,000	300	46	15
	24454	24453	24	4412	PAR46	Screw Terminals	12.8	35W	11,000	300	47	28
	24460	24459	24	4412A	PAR46	Screw Terminals	12.8	35W	8,800	300	47	29
	22981	24464	24	4413	PAR46	Screw Terminals	12.8	35W	1,100	300	47	30
	24478	24477	60	4414	PAR36	Screw Terminals	12.8	18W	1,500	300	46	1
	24487			4414R	PAR36	Screw Terminals	12.8	18W	275	300	46	2
	22982			4415	PAR36	Screw Terminals	12.8	35W	9,000	300	46	16
	24499	24497	60	4415A	PAR36	Screw Terminals	12.8	35W	7,000	300	46	17
	22983	24503	60	4416	PAR36	Screw Terminals	12.8	30W	35,000	300	46	6
		34901	60	4416-1	PAR36	Slip-on Terminals	12.8	30W	35,000	300	46	7

*New lamp added since last publication. [Turquoise-Halogen Lamps](#)

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Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
	24506			4416A	PAR36	Screw Terminals	12.8	30W	26,000	300	46	8
	24513			4416R	PAR36	Screw Terminals	12.8	30W	4,000	300	46	9
	24531	24525	24	4419	PAR46	Screw Terminals	12.8	35W	1,600	300	47	31
	24539	24541	24	4421	PAR46	Slip-on Terminals	13.0	100W	23,000	300	48	11
	24542			4422	PAR36	Screw Terminals	12.8	35W	600	300	46	18
	24572			4434A	PAR46	Screw Terminals	12.8	40W	1,000	100	47	38
	24577	24576	24	4435	PAR46	Screw Terminals	12.8	30W	75,000	100	47	27
	24582			4436	PAR46	Screw Terminals	12.8	35W	60,000	300	47	32
	39932	39933	60	4440X	PAR36	3 Contact Lugs	12.8	40W	6,000	320	46	23
							12.8	40W	4,500	320		
	39748			4440X-1	PAR36	3 Slip-on Terminals	12.8	40W	6,000	320	46	24
							12.8	40W	4,500	320		
	37046	37047	60	4446	PAR36	Screw Terminals	12.8	25W	400	300	46	4
	40176			4460X	PAR36	3 Screw Terminals	12.8	40W	6,500	320	46	25
							12.8	40W	5,000	320		
	24592			4461	PAR36	Screw Terminals	12.8	60W	6,000	300	46	31
	24596			4466	PAR36	Screw Terminals	12.8	60W	1,000	300	46	32
	24613			4478	PAR46	2 Contact Lugs	13.0	60W	1,600	800	48	8
	24627			4502	PAR36	Screw Terminals	28.0	50W	10,000	400	47	5
	24640	24638	60	4505	PAR36	Screw Terminals	28.0	50W	45,000	400	47	6
	24650	24649	60	4509	PAR36	Screw Terminals	13.0	100W	110,000	25	46	34
	41503			4509X	PAR36	Screw Terminals	13.0	100W	110,000	25	46	35
	11524			4509Y	PAR36	Screw Terminals	13.0	100W	—	25	46	36
	24654	24653	60	4510	PAR36	Screw Terminals	6.4	25W	800	300	45	25
	24663	24661	60	4511	PAR36	Screw Terminals	6.2	30W	2,300	300	45	21
	24673	24671	60	4515	PAR36	Screw Terminals	6.4	30W	55,000	100	45	26
	24678			4516	PAR36	Screw Terminals	6.2	30W	45,000	300	45	22
	24690			4519	PAR36	Screw Terminals	13.0	100W	30,000	25	46	37
	24700			4522	PAR46	Screw Terminals	13.0	250W	290,000	25	48	15
	24721			4530	PAR46	Screw Terminals	26.0	5.3A	100,000	50	48	18
	24726			4531	PAR46	Screw Terminals	12.5	40W	30,000	400	47	26
	19628			4532	PAR46	Screw Terminals	28.0	250W	75,000	100	48	25
							28.0	150W	14,500	100		
	24735	24733	24	4535	PAR46	Screw Terminals	6.4	30W	95,000	100	47	25
	24742			4537	PAR46	Screw Terminals	13.0	100W	200,000	25	48	12
	40822	40823	24	4537-2	PAR46	Screw Terminals	13.0	100W	200,000	25	48	13
	39022			4537X	PAR46	Screw Terminals	13.0	100W	200,000	25	48	14
	24756			4541	PAR56	Screw Terminals	28.0	450W	470,000	25	49	10
	24764			4543	PAR56	Screw Terminals	12.5	100W	250,000	50	49	3
	24768			4545	PAR56	Screw Terminals	12.0	100W	225,000	100	49	2
	24780	24783	60	4546	PAR36	Screw Terminals	4.7	.5A	6,300	100	45	8
	24770	24775	60	4546-1	PAR36	Slip-on Terminals	4.7	.5A	6,300	100	45	9
	24788			4547	PAR36	Screw Terminals	4.75	1.25A	20,000	100	45	10
	24795			4551	PAR46	Screw Terminals	28.0	250W	75,000	25	48	26
	40576			4552	PAR64	Screw Terminals	28.0	250W	500,000	25	49	11
	24799			4553	PAR46	Screw Terminals	28.0	250W	300,000	25	48	27
	24802			4554	PAR46	Screw Terminals	28.0	450W	90,000	25	48	29
	40583			4555	PAR64	Screw Terminals	115.0	1,000W	600,000	25	49	19
	40581			4557	PAR64	3 Screw Terminals	28.0	1,000W	540,000	25	49	17
							28.0	400W	100,000	100		
	40578			4559	PAR64	Screw Terminals	28.0	600W	600,000	25	49	12
	24828			4570	PAR46	Screw Terminals	28.0	150W	32,000	300	48	22
	24830			4571	PAR46	Screw Terminals	28.0	150W	7,000	300	48	23
	24833			4572	PAR46	Screw Terminals	28.0	150W	4,500	300	48	24
	25005	25007	24	4578	PAR46	2 Contact Lugs	28.0	60W	1,600	800	48	19

*New lamp added since last publication. **Turquoise—Halogen Lamps**

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Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
	25009	25011	24	4579	PAR46	3 Contact Lugs	28.0	80W	24,000	400	48	21
							28.0	60W	11,000	400		
	24859			4580	PAR46	Screw Terminals	28.0	450W	400,000	10	48	30
	24862			4581	PAR46	Screw Terminals	28.0	450W	400,000	10	48	31
	24853			4582	PAR46	Screw Terminals	28.0	450W	20,000	10	48	32
	24867			4587	PAR36	Screw Terminals	28.0	250W	40,000	25	47	19
	24873	24871	60	4589	PAR36	Screw Terminals	28.0	50W	5,000	400	47	7
		23509	60	4589-1	PAR36	Slip-on Terminals	28.0	50W	5,000	400	47	8
	24882			4591	PAR36	Screw Terminals	28.0	100W	90,000	25	47	12
	24887			4593	PAR36	Screw Terminals	28.0	50W	1,500	400	47	9
	24891			4594	PAR36	Screw Terminals	28.0	100W	70,000	300	47	13
	24892			4595	PAR36	Screw Terminals	28.0	100W	60,000	300	47	14
	24898			4596	PAR36	Screw Terminals	28.0	250W	150,000	25	47	20
	24964			4626	PAR36	Screw Terminals	28.0	150W	25,000	300	47	17
	24966			4627	PAR36	Screw Terminals	28.0	100W	3,000	300	47	15
	33284			4635	PAR46	Screw Terminals	16.5	450W	325,000	25	48	17
	19632	16407	672	4636-3	PAR46	Combination	14.0	80W	90,000	200	48	16
	18517	41861	576	4651	165mm	2 Contact Lugs	12.8	50W	SAE	200	44	21
	18518			4652	165mm	3 Contact Lugs	12.8	40W	SAE	200	44	17
							12.8	60W		320		
	39906	39907	60	4700	PAR36	3 Screw Terminals	13.0	100W	100,000	25	46	38
							13.0	100W	50,000	25		
	45427			4713	PAR36	Screw Terminals	28.0	150W	4,200	300	47	18
	44724			4752	PAR36	Screw Terminals	28.0	60W	2,000	800	47	11
	24973			4800	PAR56	3 Contact Lugs	28.0	50W	SAE	400	49	9
							28.0	40W		400		
	24980			4811	PAR36	3 Contact Lugs	28.0	110W	SAE	400	47	16
							28.0	55W		400		
	24981	24982	60	4825R	PAR36	3 Screw Terminals	28.0	50W	200	200	47	10
							28.0	18W	40	200		
	24995			4880	PAR46	2 Contact Lugs	28.0	60W	6,000	800	48	20
	45110	45111	576	4912-1	165mm	Slip-on Terminals	12.8	50W	14,000	300	44	22
		45113	16	4913-1	165mm	Slip-on Terminals	12.8	50W	1,350	400	44	23
	45116	16195	576	4921-1	165mm	Slip-on Terminals	13.0	100W	25,000	300	45	2
	11639			5001*	PAR46	2 Contact Lugs	12.8	50W	SAE	300	48	1
	16152			5557	PAR64	3 Screw Terminals	28.0	1,000W	540,000	50	49	18
							28.0	400W	100,000	100		
	25114			6006	PAR56	3 Contact Lugs	6.1	50W	SAE	300	49	1
							6.2	40W		500		
	18519			6014	PAR56	3 Contact Lugs	12.8	60W	SAE	320	49	5
							12.8	50W		150		
	38416	38607	432	6015	PAR56	3 Contact Lugs	12.8	50W	SAE	300	49	4
							12.8	50W		500		
	25153			6045	PAR56	Screw Terminals	26.0	170W	230,000	100	49	8
	18521			6052	200mm	3 Contact Lugs	12.8	65W	SAE	150	45	3
							12.8	55W		320		
	40190	40191	60	7400	PAR36	Slip-on Terminals	12.8	35W	33,000	300	46	19
		42385	60	7400-1	PAR36	Screw Terminals	12.8	35W	33,000	300	46	20
	39987	39988	60	7414Y	PAR36	Screw Terminals	12.8	18W	1,000	300	46	3
	41865	41866	60	7613	PAR36	Screw Terminals	6.0	8W	400	50	45	13
	45101	45102	60	7613-1	PAR36	Slip-on Terminals	6.0	8W	400	50	45	14
	11421	11422	60	7672-1	PAR36	Slip-on Terminals	6.0	7.2W	350	50	45	12
	22386			H4351	140mm	Right Angle, Plastic	12.8	55W	SAE	500	44	3
	10211			H4351LH*	140mm	Right Angle, Plastic	12.8	55W	—	500	44	4
	22387			H4352	140mm	Right Angle, Plastic	12.8	65W	SAE	150	44	5

*New lamp added since last publication. **Turquoise-Halogen Lamps**

INDEX – SEALED BEAM LAMPS

Order Code			Bulk Std. Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack	Bulk Pack					Volts	Watts or Amps				
		18350	48	H4360	140mm	2 Right Angle Lugs	12.8	37.5W	2,000	320	44	1
	15129			H4405	PAR36	Screw Terminals	12.8	30W	66,000	100	46	10
		17674	60	H4460X	PAR36	3 Screw Terminals	12.8	40W	11,000	320	46	26
							12.8	40W	8,500	320		
	15133			H4515	PAR36	Screw Terminals	6.4	30W	67,000	100	45	27
	18532	45027	576	H4651	165mm	2 Contact Lugs	12.8	50W	SAE	200	44	24
	46375			H4651SB*	165mm	2 Contact Lugs	12.8	50W	SAE	200	44	25
	18533	49810	576	H4656	165mm	3 Contact Lugs	12.8	35W	SAE	200	44	16
							12.8	35W		320		
	14753			H4656HO	165mm	3 Contact Lugs	12.8	40W	SAE	200	44	18
							12.8	55W		700		
	45475			H4656SB*	165mm	3 Contact Lugs	12.8	40W	SAE	75	44	19
							12.8	55W		200		
	18535	22879	576	H4666	165mm	3 Contact Lugs	12.8	65W	SAE	150	44	29
							12.8	55W		320		
	18536	48533	480	H4701	150mm	2 Lugs	12.8	65W	SAE	150	44	15
	18538	48534	480	H4703	150mm	2 Lugs	12.8	55W	SAE	320	44	14
	18522			H5001	PAR46	2 Contact Lugs	12.8	50W	SAE	200	48	2
	18523			H5006	PAR46	3 Contact Lugs	12.8	35W	SAE	200	47	33
							12.8	35W		320		
	19428	19559	432	H5024	PAR56	3 Contact Lugs	12.8	65W	SAE	400	49	6
							12.8	42W		2,000		
	19411	19556	576	H5051	165mm	2 Contact Lugs	12.8	50W	SAE	500	44	26
	19429	19558	448	H5054	200mm	3 Contact Lugs	12.8	65W	SAE	400	45	4
							12.8	42W		2,000		
	19412	19557	576	H5062	165mm	3 Contact Lugs	12.8	40W	SAE	400	44	20
							12.8	55W		2,000		
		41453	48	H5360*	140mm	2 Right Angle Lugs	12.8	37.5W	2,000	900	44	2
	18525			H6024	PAR56	3 Contact Lugs	12.8	65W	SAE	150	49	7
							12.8	35W		320		
	18534	11545	448	H6054	200mm	3 Contact Lugs	12.8	65W	SAE	150	45	5
							12.8	35W		320		
	14752			H6054HO	200mm	3 Contact Lugs	12.8	65W	SAE	150	45	6
							12.8	55W		700		
	45477			H6054SB*	200mm	3 Contact Lugs	12.8	65W	SAE	75	45	7
							12.8	55W		200		
	43561	43562	60	H7550	PAR36	Screw Terminals	6.0	8W	25,000	50	45	15
		23541	60	H7550-1	PAR36	Slip-on Terminals	6.0	8W	25,000	50	45	16
	43564	43565	60	H7551	PAR36	Screw Terminals	6.0	8W	550	50	45	17
	43567			H7552	PAR36	Screw Terminals	6.0	10W	650	50	45	18
	43570	43571	60	H7553	PAR36	Screw Terminals	6.0	12W	850	50	45	19
		43574	60	H7554	PAR36	Screw Terminals	6.0	20W	1,400	50	45	20
	44642	44643	60	H7555	PAR36	Screw Terminals	12.0	8W	550	50	45	28
	44924	44925	60	H7556	PAR36	Screw Terminals	6.0	6W	400	50	45	11
	12720	12721	60	H7557	PAR36	Screw Terminals	12.0	12W	850	50	45	31
	42841	42842	60	H7600	PAR36	Screw Terminals	12.8	37.5W	60,000	300	46	21
	43576	43577	60	H7604	PAR36	Screw Terminals	12.8	50W	100,000	100	46	27
	14616	43580	60	H7606	PAR36	Screw Terminals	12.8	50W	1,000	400	46	28
		17672	60	H7607	PAR36	Screw Terminals	12.8	65W	1,500	600	46	33
	14617	43583	24	H7609	PAR46	Screw Terminals	12.8	50W	2,200	400	48	3
	14618	43586	60	H7610	PAR36	Screw Terminals	12.8	50W	5,200	400	46	29
	49695			H7612	PAR46	Screw Terminals	12.8	37.5W	15,000	450	47	37
	49731	49732	60	H7614	PAR36	Screw Terminals	12.8	50W	2,000	100	46	30
	42838	42839	60	H7616	PAR36	Screw Terminals	12.8	37.5W	70,000	300	46	22
	14619	43589	24	H7619	PAR46	Screw Terminals	12.8	50W	6,000	400	48	4

*New lamp added since last publication. **Turquoise—Halogen Lamps**

INDEX – SEALED BEAM LAMPS

Order Code		Bulk Std.	Pkg. Qty.	Lamp No.	Bulb	Base	Design		Mean Spherical Candlepower (Approx.)	Rated Avg. Lab Life (Hours)	Page No.	Line No.
Blister Pack	Unit Pack						Volts	Watts or Amps				
2		45058	24	H7621-1	PAR46	Slip-on Terminals	12.8	50W	20,000	200	48	5
	43591	43592	24	H7635	PAR46	Screw Terminals	12.8	50W	160,000	100	48	6
		18022	24	H7635X	PAR46	Screw Terminals	12.8	50W	160,000	100	48	7
	17894	17890	24	H7680HIR	PAR46	Screw Terminals	13.0	80W	275,000	100	48	9
	26694	26695	24	H7680X HIR*	PAR46	Screw Terminals	13.0	80W	230,000	300	48	10
		23250	16	H7913HIR	165mm	2 Contact Lugs	12.8	65W	4,000	800	45	1
		13426	16	H7921-1	165mm	Slip-on Terminals	12.8	50W	23,900	200	44	27
	47460	14892	16	H7935-1	165mm	Slip-on Terminals	12.8	50W	175,000	100	44	28
	15767	15763	48	H9405	150mm	2 Right Angle Lugs	12.8	50W	100,000	100	44	8
	15769	15768	48	H9406	150mm	2 Right Angle Lugs	12.8	50W	1,350	400	44	9
	15771	15770	48	H9411	150mm	2 Right Angle Lugs	12.8	50W	5,400	400	44	10
		15772	48	H9414	150mm	2 Right Angle Lugs	12.8	50W	2,700	400	44	11
	16484	16483	48	H9415	150mm	2 Right Angle Lugs	12.8	37.5W	12,000	200	44	6
	17988			H9415A	150mm	2 Right Angle Lugs	12.8	37.5W	—	200	44	7
	16976	16978	48	H9420	150mm	2 Right Angle Lugs	12.8	50W	47,000	200	44	12
	16482			H9421	150mm	2 Right Angle Lugs	12.8	50W	4,000	200	44	13
	22109			Q4509	PAR36	Screw Terminal	13.0	100W	140,000	100	46	39
	37706			Q4554	PAR46	Screw Terminals	28.0	450W	65,000	100	48	33
	40579			Q4559	PAR64	Screw Terminals	28.0	600W	600,000	100	49	13
	42552			Q4559X	PAR64	Screw Terminals	28.0	600W	765,000	100	49	14
	41097			Q4566	PAR46	Screw Terminals	28.0	450W	150,000	1,000	48	34
	37372			Q4597	PAR46	Screw Terminals	28.0	450W	16,000	1,000	48	35
	40577			Q4629	PAR64	Screw Terminals	28.0	600W	20,000	1,000	49	15
	34537			Q4631	PAR36	Screw Terminals	13.0	250W	80,000	500	47	2
	39112			Q4632	PAR36	Screw Terminals	13.0	250W	75,000	500	47	3
	36271			Q4681	PAR46	Screw Terminals	28.0	450W	310,000	50	48	36
	41452			Q5551*	PAR46	Screw Terminals	28.0	250W	60,000	100	48	28
	16784			Q5559*	PAR64	Screw Terminals	28.0	600W	650,000	200	49	16

*New lamp added since last publication. Turquoise-Halogen Lamps

EUROPEAN AUTOMOTIVE CROSS-REFERENCE

In Europe, exterior automotive lamps are regulated by ECE Regulation 37, and other regulations particular to the application. Many other countries have adapted the ECE regulations. GE's global facilities produce a full line of ECE types in 6, 12, and 24 volts. Due to demand, not all types are currently stocked in North America; therefore, some types are not included in this catalogue. Call your GE sales office for further information.

In Europe, manufacturers do not have a common lamp number. Below is a cross reference of the most common 12 volt ECE types.

12V ECE REGULATION 37 TYPES

Application	ECE Type	Manufacturer Numbers			
		GE US	GE Europe	Osram	Philips
Headlamps & Foglamps	H1	50310/1	50310/1	64150	12258
	H2	50410	50410	64173	12311
	H3	50340	50340	64151	12336
	H4	50440	50440	64193	12342
	H7	H7	58520	64210	
Signaling	H27W/1	880			
	H27W/2	881			
	R2		1931	7951	12620
	P21W ¹	P25-1	1057	7506	12498
	P21/5W	P25-2	1077	7528	12499
	P21/4W		1122	7225	12594
	PY21W ²		1056	7507	12496
	R5W ¹	R5W	2619	5007	12821
	R10W ¹	R10W	2641	5008	12814
	T4W		2662	3893	12929
	C5W	C5W	7546	6418	12844
	W3W	W3W	5304	2821	12256
	W5W	W5W	5307	2825	12961
	W16W	W16W			

¹With SC Bayonet (Ba15s) Base

²With (BAV 15s) Base

Many trucks built in Europe use 24 volt systems. Below is a cross reference of the most common 24 volt ECE types. Usage of these vehicles in North America is limited.

24V ECE REGULATION 37 TYPES

Application	ECE Type	Manufacturer Numbers			
		GE US	GE Europe	Osram	Philips
Headlamps & Foglamps	H1	50320/1	50320/1	64155	13258
	H2		50420	64175	13311
	H3	50350	50350	64156	13336
	H4	50450	50450	64196	13342
Signaling	R2		1937	7952	13620
	P21W ¹	1060	1060	7511	13498
	P21/5W		1078	7537	13499
	R5W ¹	2627	2627	5627	13821
	R10W ¹		2643	5637	13814
	T4W		2661	9930/3930	13929
	C5W		7552	6423	13844

¹With SC Bayonet (Ba15s) Base

HIGH OUTPUT HALOGEN-CYCLE LAMP INFORMATION

Benefits of halogen-cycle lamps:

Higher Light Output from Less Energy and a Smaller Lamp Package

- Typical halogen-cycle miniature lamp rated at 45 watts produces as much light as a standard 60-watt household bulb... yet the halogen-cycle lamp is $\frac{1}{6}$ the size of the household lamp.

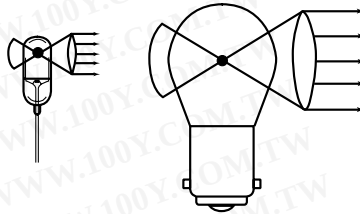
Higher Maintained Light Output Over Life

- Can be operated at high wattages without sacrificing the light output over life.
- Most halogen-cycle lamps produce 85 to 95% of their initial light output at 70% of their life expectancy.
- Bulb blackening due to tungsten deposits on the bulb wall virtually eliminated.

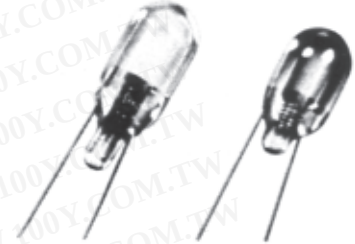
Available in Full Range of Types and Sizes

- GE halogen-cycle lamps are available in voltages ranging from 4 to 32.
- Candlepower ranges from 3.8 to 660.
- Lamp sizes range from 7.5mm subminiature to 16mm miniature diameters.
- Sockets for GE halogen-cycle lamps are commercially available from a number of manufacturers.*

* For Halogen Lamp Types see "Turquoise Lamp Number" in Miniature & Sealed Beam Lamp Specifications.



Halogen-cycle lamp versus conventional incandescent lamp of equivalent wattage. Note the smaller size of the halogen lamp on the left.



Halogen-cycle lamp versus vacuum incandescent lamp at 70% lamp of life. Note the bulb blackening of the incandescent lamp on the right.

HALOGEN LAMPS & SEALED BEAM - DESIGN FEATURES

GE Manufactures Four Types of Halogen-Cycle Lamps:

Glass Halogen Miniature Lamps

- Increased range in candlepower and wattages of these halogen-cycle lamps allows for many new and current design applications.
- Lamp design consists of a hemispherical bulb top with more uniform light output than a top-tipped halogen lamp.
- Sturdy nickel-plated iron leads in two-pin types allow for positive electrical connection, minimizing voltage drops due to intermittent connections.
- Although these lamps can be damaged by thermal shock, they are not subject to devitrification.
- Electrical connections to lamps offered with molybdenum leads can be made by crimping or welding.

Quartzline® Fused-Quartz Miniature Lamps

- Normally used in special applications, but can also be used in many general applications if the designer chooses.
- Can withstand thermal shock - i.e. it will not crack or break even when suddenly exposed to water or ice.

Glass Halogen and Quartzline® Fused-Quartz Sealed Beam Lamps

- Designated in this catalog by the prefixes "H" and "Q".
- Can be used in many applications to take advantage of their higher light output compared with standard incandescent sealed beam lamps.
- Standard PAR36, PAR46, PAR56, PAR64 & rectangle 140mm, 150mm, 165mm & 200 mm sizes allow possible use in existing housings.
- Several different beam patterns are available for a variety of applications.

Consider These Factors When Selecting GE Halogen-Cycle and High Wattage Lamps:

Lamp Efficacy and Operating Precautions.

Many lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (candlepower or lumens per watt). Because both lamp bulb material and pressure vary by lamp design, different SAFETY notices apply. Be sure to read the appropriate notice(s) for the lamp(s) you select.

High Operating Temperatures

Because operating temperatures (watts plus environment) are critical to the effectiveness of the self-cleaning properties of halogen-cycle lamps, bulb wall temperatures should not go below 250°C. Hot spots on the bulb wall itself can go as high as 700°C in normal operation. Substantial heat is generated in all halogen-cycle lamps, so allowances should be made for the dissipation of excessive heat in equipment design. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors, and lamp housings because the 700°C bulb wall temperature is greater than the kindling temperatures of many materials. Lamp base temperatures should not exceed 350°C because, above that point, lead wires may deteriorate and the basing cement may loosen, causing premature lamp failure.

Distribution of Spectral Radiation

Halogen-cycle lamps offer great amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some GE lamps can be used for special applications where small amounts of ultraviolet energy are required.

DESIGN FEATURES - MINIATURE LAMPS

Consider These Factors When Selecting GE Miniature Lamps:

Light Quantity and Quality

Where an object or surface is to be illuminated, the quantity of light required depends upon the size of the object, the brightness desired, the contrast with its background, and the time available for seeing.

Where light must be projected, either a separate reflector and lamp or a reflectorized lamp may be required. Consideration should be given to beam candlepower and beam spread.

The spectral quality of color of light can be modified by external filters or coatings applied to the bulb.

Light, Life, and Voltage

For any particular lamp, the light output and life depend upon the voltage at which a lamp is operated. For instance, as approximations, the light output varies as the 3.6 power of the voltage and the life varies inversely as the 12th power of the voltage. Chart I and Table I illustrate the effect of overvoltage or undervoltage applied to a lamp on its current, life, and light (candlepower) output. Indicated values (except for long-life lamps) are reasonably valid, between 95% and 110% rated volts. Beyond that, indicated characteristics may not be realized because of the increasing influence of factors which cannot be incorporated into the chart. The chart applies only to D.C. or sine-wave A.C. current, considering the applicable footnotes pertaining to published life. The data, particularly for lamp life, do not apply accurately for lamp operation on half-wave rectified voltage, semi-conductor dimming devices, and constant-current operation.

Mechanical Strength

Low-voltage, high-current incandescent lamps are best suited for operation under conditions of shocks and vibration. Other factors affecting strength are the resonant frequency of lead wires and filament form. Where rough service conditions are encountered, screw base lamps should be avoided since they may loosen in their sockets. Higher voltage lamps of similar light output and life have longer, thinner filaments which are more prone to shock and vibration failures.

Power Sources

In battery applications, the mean effective voltage delivered is generally higher than the average volts. The mean effective voltage, therefore, should be the design voltage of the lamp. Design voltages for flashlight lamps have been determined by extensive tests.

Filament lamp ratings are predicated on operation at a constant voltage. When operated from a higher-than-rated voltage in series with a dropping resistor, the effect is the same as operating at a constant current. Since the lamp resistance changes with operating life, the voltage drop across the lamp will increase; hence, the lamp life experienced will generally be about one half that resulting from constant-voltage operation.

When selecting a transformer or resistor, consideration should be given to lamp ampere tolerances and the regulation characteristics of the component.

Since integrated circuit applications are operated on D.C. and, in general, constant current, lamps used with them offer less life than applications where A.C. voltage and higher current can be tolerated. This is because the D.C. notching phenomenon occurs in greater percentage on low-current lamps, and the life is approximately 50% under constant current than that under controlled voltage. This half-life on constant current occurs because the filament is evaporating and becoming smaller as the lamp is operating, gradually increasing in resistance and requiring a rise in voltage to maintain a constant current value. This, in turn, increases the wattage and the filament temperature, causing an increase in the efficiency of the lamp.

Space

Tolerances of bulb diameters, light center lengths, and overall lengths should be carefully considered by designers when specifying lamp housings. These tolerances and more-detailed drawings are available from your local GE Lamp Representative.

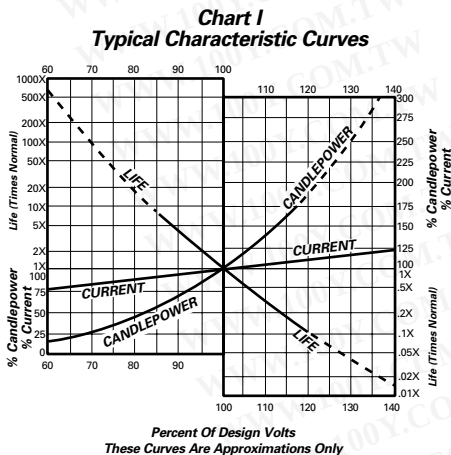


Table I

Underrated Bulb Voltages (100%<)				Overrated Bulb Voltages (100%>)			
Volts %	Amps %	MSCP %	Life %	Volts %	Amps %	MSCP %	Life %
99	99.4	96.5	112.8	101	100.5	103.5	88.7
98	98.9	93.2	127.4	102	101.1	107.2	78.8
97	98.3	89.9	144.1	103	101.6	110.9	70.1
96	97.8	86.7	163.2	104	102.2	114.7	62.5
95	97.2	83.6	185.1	105	102.7	118.6	55.7
90	94.4	69.2	354.1	110	105.4	139.6	31.9
85	91.4	56.6	703.0	115	108.0	163.1	18.7
80	88.5	45.8	1455.2	120	110.5	189.3	11.2
75	85.4	36.5	3156.9	125	113.1	218.4	6.9
70	82.2	28.7	7224.8	130	115.5	250.5	4.3

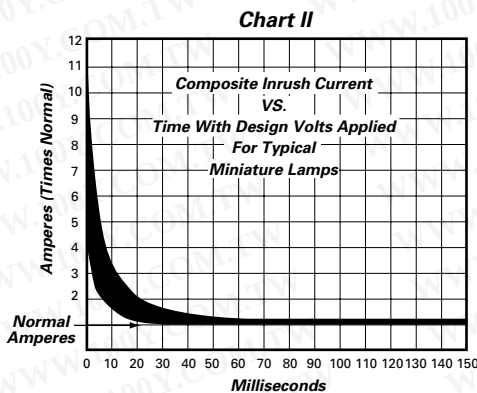
NOTE: Calculations of characteristics shown in Chart I and Table I are approximate only between 95% and 110% of rated voltage for lamp types with 5,000 hours life or less. Certain lamp types will vary widely from calculated values. This chart will not apply to lamps with lives in excess of 5,000 hours or to halogen-cycle lamps. Consult your local GE Lamp Representative for application information.

Ambient Temperature

It is important to consider the lamp housing from the standpoints of radiation, absorption, and ventilation. Normal variations in ambient temperature do not affect the performance of miniature lamps. Above 175°C (350°F), the solder on conventional lamps may soften, deform, or melt, and the basing cement may loosen. All-glass wedge base lamps can be operated in lamp ambient temperatures of up to 230°C (450°F).

Inrush Current

The initial current through a filament is called the inrush current. Cold resistance of a filament is generally considered to be that of room temperature, while the hot resistance depends upon the temperature of the filament (which varies with lamp size). Inrush current can be approximately 12 times as great as the normal operating current. This maximum value is seldom reached because the impedance in the circuit reduces it. However, equipment designers should take both inrush current and resistance into consideration when selecting a lamp. Chart II displays the general range of inrush current versus time after voltage is applied to a cold lamp. Inrush current can be reduced by applying a low value of pre-heat voltage.



Tungsten filaments are more fragile at temperatures below the 250°C brittle-ductile region. This fragility can be reduced by using a keep-alive voltage or current in the off condition. A general recommendation for keep-alive requirements is 25% of the design voltage or current. This will reduce the inrush current from approximately 12 times to 4 times, depending upon the lamp type.

Incandescence and Nigrescence

The rate of rise and decay time depends upon the mass of the filament to be heated. In general, the incandescence (rise time) to 90% brightness is about 100 to 300 milliseconds, and the nigrescence (decay time) is about 40 to 100 milliseconds. These values vary with each lamp type. The times are directly related to the lamp current; therefore, low-current lamps have the fastest response times.

Flashing and Pulsing

Incandescent lamps have been used successfully in flashing and pulsing circuits. However, this may affect lamp life in some cases. For more information, contact your local GE Lamp Representative.

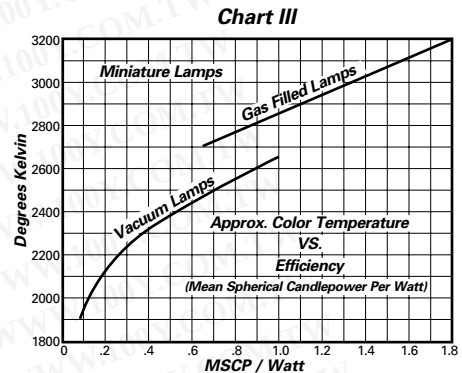
Redundant System Philosophy

Two-filament lamps with filaments connected in parallel for additional reliability are not new. Experience has shown, however, that in many cases, the second filament has failed by the time it is needed. Thus, these lamps have never become very popular.

A more reliable system would be to use two or more lamps operating at the same time. Since they are physically separated from each other, it is easy to see when one has failed. This lamp can be replaced immediately, prior to the failure of the second lamp.

Color Temperature

The radiation from tungsten filaments used in General Electric lamps is similar to that from a "black body" at specific temperatures. This can be determined approximately from Chart III. Use the published lamp ratings (or estimated derated values) in this catalog. The catalog indicates whether a lamp is vacuum or gas-filled.



Lamp Life

Rated average life is that obtained in closely controlled laboratory testing of lamps on 60 Hertz Alternating Current at their design voltage. Certain lamps are tested with Direct Current and are footnoted accordingly. Very long life lamps are generally rated on the basis of extrapolated laboratory test data. Service conditions such as shocks, vibration, voltage fluctuations, temperature, etc., may contribute to a shorter average service life.

Ordinarily, for still-rack operation, normal tungsten filament evaporation is the basic force or mechanism controlling incandescent lamp life. Where normal filament evaporation is the dominant failure mechanism, lamps should reach their design-predicted lifetimes.

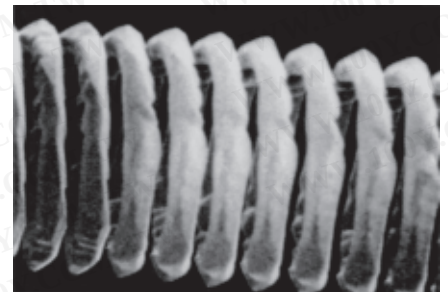
Another filament mechanism has been identified which may reduce life to one-half or much less of its design-predicted value. It is commonly referred to as "filament notching." Notching is the appearance of step-like or sawtooth irregularities, appearing on all or part of the tungsten filament surface, after extensive (e.g. 3000Hrs) burning.

These notches reduce the filament wire diameter at various points. In some cases, especially in fine-wire diameter lamps, the notching is so severe as to almost penetrate the entire wire diameter. Thus accelerated spot evaporation due to this notching (as well as reduced filament strength) now becomes the dominant mechanism for influencing lamp life. Because of its abnormal evaporation and/or reduced strength effects, lamp lifetimes due to notching are substantially lessened.

Notching has been due to at least three factors:

1. Low-temperature filament operation, less than that for significant normal tungsten evaporation.
2. Small filament-wire sizes, less than one mil (.001") diameter in many cases, typical of low- amperage lamps.
3. Increased use of D.C. voltage operation

Subminiature lamps, those with bulb sizes of T-2 and below, have been the most susceptible candidates for filament notching. Since notching is very difficult to predict, it is recommended that lamps susceptible to this phenomenon be easily replaceable in their applications.



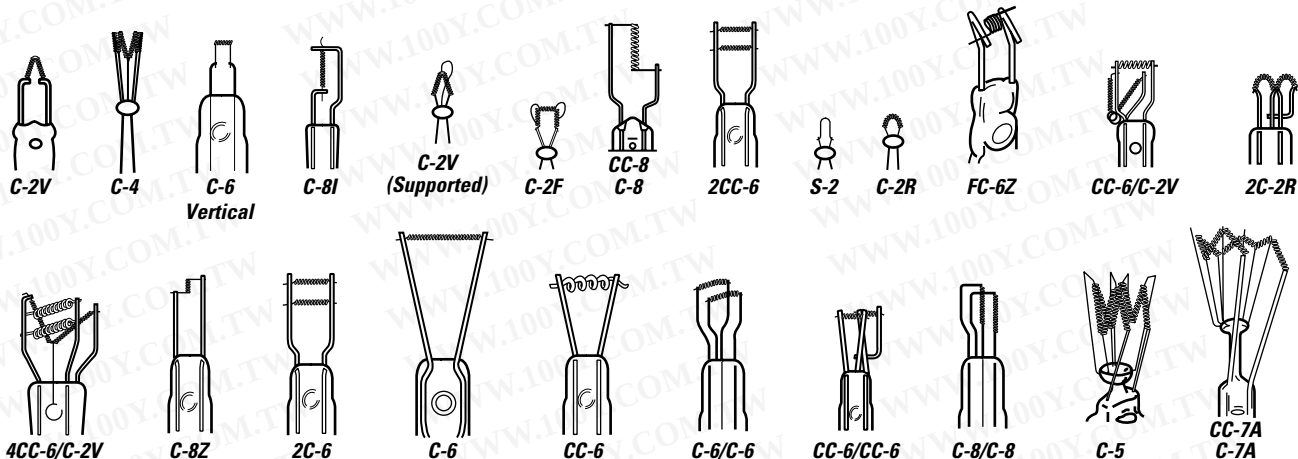
An example of filament notching.

MINIATURE FILAMENTS AND BASES

Filaments

Filaments for miniature and subminiature lamps may be a straight wire (S), a coil (C), or a coiled coil (CC). Coiling the filament wire effectively shortens the filament length so that smaller bulbs can be used. In addition, in gas-filled lamps, coiling the wire reduces thermal losses and increases efficiency.

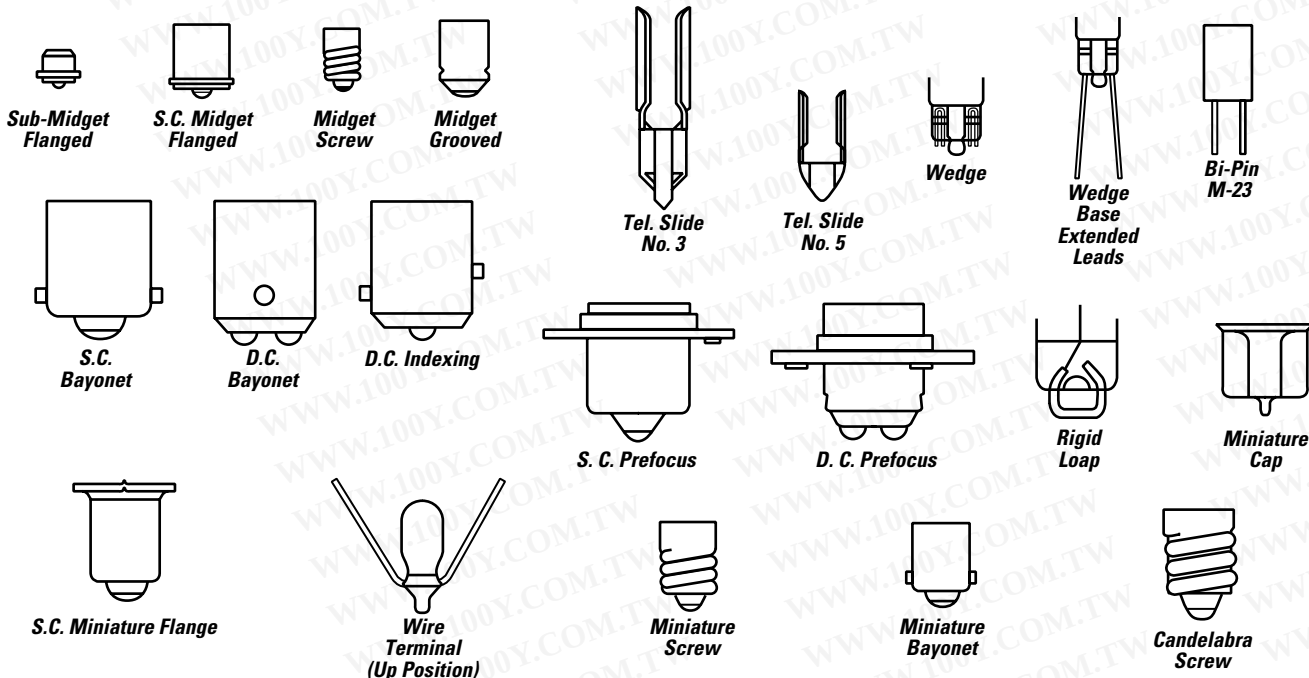
Tungsten is almost universally used as lamp filament material because of its high melting point at incandescence. The number following the coil identification letter(s) denotes the arrangement of the filament on the supports.



Bases

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types

when vibration is present. In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.

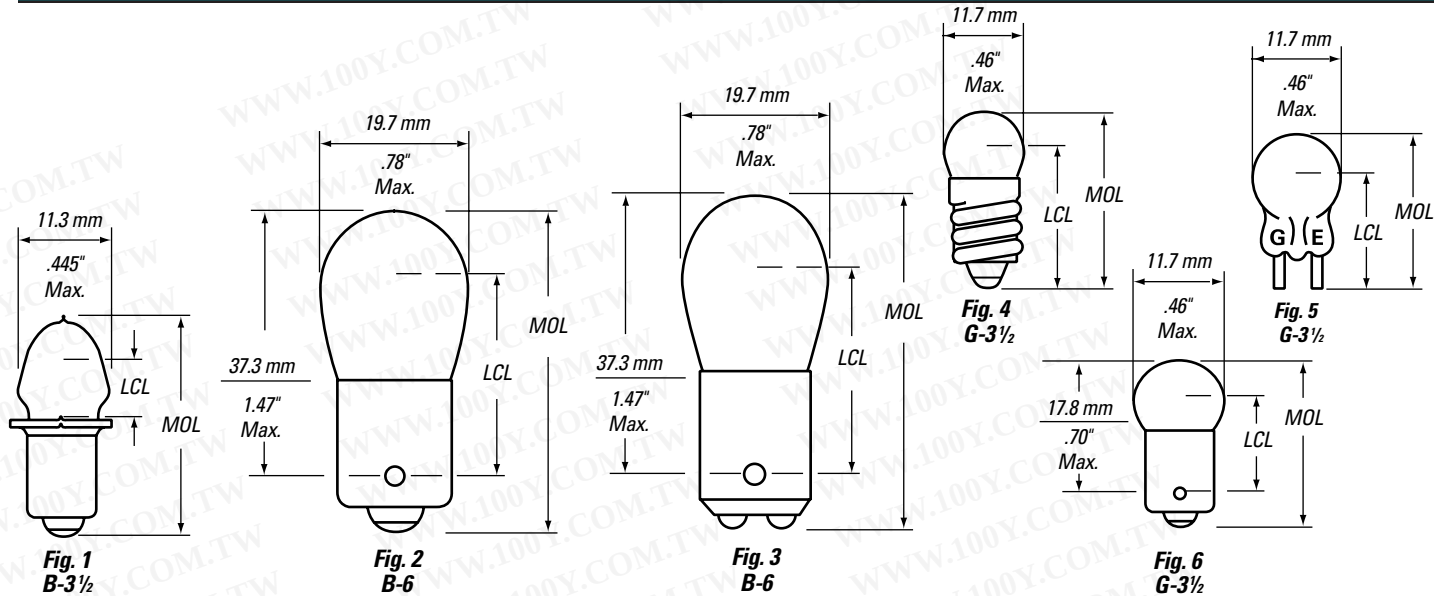


S.C. and D.C. Prefocused Base Lamps

The letter "A" following the base type designates that the distance from the bottom of the collar to the bottom of the base contact is $\frac{13}{32}$ ". For "B" bases this distance is $\frac{9}{16}$ ". The few lamps identified by the letter "S"

in the "Base" column are special in that the collar location and/or the orientation of the contacts differs from the above.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
B-3½ BULB 7/16" (11mm) DIAMETER																
1	23151			KPR104	Flashlight – 2D Krypton		2.2	.47A	.47	S.C. Miniature Flanged	C	C-2R	.25	1.25	15 ⁽¹¹⁶⁾	1
2	12677			PR4	Flashlight – 2C Cells		2.33	.27A	.4	S.C. Miniature Flanged	B	C-2R	.25	1.25	10 ⁽¹¹⁶⁾	1
3	12675	25181		PR2	Flashlight – 2D Cells		2.38	.50A	.8	S.C. Miniature Flanged	B	C-2R	.25	1.25	15 ⁽¹¹⁶⁾	1
4	22961			KPR102	Flashlight – 2D Krypton		2.4	.70A	1.3	S.C. Miniature Flanged	C	C-2R	.25	1.25	15 ⁽¹¹⁶⁾	1
5		25222		PR6	Flashlight – 2D Industrial Cells		2.47	.30A	.45	S.C. Miniature Flanged	B	C-2R	.25	1.25	30 ⁽¹¹⁶⁾	1
6	12676	25193		PR3	Flashlight – 3D Cells		3.57	.50A	1.5	S.C. Miniature Flanged	B	C-2R	.25	1.25	15 ⁽¹¹⁶⁾	1
7		25235		PR7	Flashlight – 3D Industrial Cells		3.70	.30A	.9	S.C. Miniature Flanged	B	C-2R	.25	1.25	30 ⁽¹¹⁶⁾	1
8	12681	25262		PR13	Hand Lantern – 4F Cells		4.75	.50A	2.2	S.C. Miniature Flanged	C	C-2R	.25	1.25	15 ⁽¹¹⁶⁾	1
9	23153			KPR113	Flashlight – 4D Krypton		4.8	.75A	4.1	S.C. Miniature Flanged	C	C-2R	.25	1.25	20 ⁽¹¹⁶⁾	1
10	12680	25252		PR12	Flashlight – 5D Cells		5.95	.50A	3.1	S.C. Miniature Flanged	C	C-2R	.25	1.25	15 ⁽¹¹⁶⁾	1
11	23154			KPR118	Flashlight – 6D Krypton		7.2	.55A	5.2	S.C. Miniature Flanged	C	C-2R	.25	1.25	15 ⁽¹¹⁶⁾	1
12		25289		PR18	Flashlight – 6D Cells ⁽¹⁴⁾		7.20	.55A	5.5	S.C. Miniature Flanged	C	C-2R	.25	1.25	3 ⁽¹¹⁶⁾	1
B-6 BULB ¾" (19mm) DIAMETER																
13		34265		1317	Aircraft Emergency Lighting		6.00	.51A	3.4	S.C. Bayonet	C	C-6	1.12	1.75	100 ⁽¹¹⁶⁾	2
14		25988		210	Instrument		6.5	1.78A	15	D.C. Bayonet	C	C-6	1.06	1.75	100	3
15	12367	26709		1003	Auto Interior		12.8	.94A	15	S.C. Bayonet	C	C-6	1.06	1.75	200	2
16	47800			1003KR*	Auto Interior – Krypton Fill. Long Life		12.8	.94A	15	S.C. Bayonet	C	C-6	1.06	1.75	400	2
17	12373	26726	26728	1004	Auto Interior and Marine		12.8	.94A	15	D.C. Bayonet	C	C-6	1.06	1.75	200	3
18		36147		105	Auto Interior – Heavy Duty		12.8	1.00A	12	S.C. Bayonet	C	C-6	1.06	1.75	500	2
19		27118		1309	Aircraft Interior. Reading, Dome, Map Light		28.0	.52A	15	S.C. Bayonet	C	2C-2R	1.06	1.75	300	2
20		12824		1308	Aircraft Reading Light Spiral Leads. Krypton.		28.0	.56A	16	S.C. Bayonet	C	CC-8	1.06	1.75	2,000	2
G-3½ BULB 7/16" (11mm) DIAMETER																
21		25354		14	Flashlight – 2D Cells		2.47	.30A	.5	Miniature Screw	B	C-2R	.72	.94	15 ⁽¹¹⁶⁾	4
22		25312		10	Indicator ⁽⁶⁹⁾		2.50	.50A	.5	Miniature Two Pin	B	C-6	.62	.94	3,000	5
23		25331		13	Flashlight – 3D Cells		3.70	.30A	.98	Miniature Screw	B	C-2R	.72	.94	15 ⁽¹¹⁶⁾	4
24		25319		12	Radio ⁽⁶⁹⁾		6.30	.15A	.35	Miniature Two Pin	B	C-6	.62	.94	5,000 ⁽⁴⁴⁾	5
25		25529		51	Indicator		7.50	.22A	1	Miniature Bayonet	B	C-2R	.50	.94	1,000	6
26		27252		1449	Toy Train		14.0	.20A	2	Miniature Screw	B	C-2V ⁽¹³⁾	.72	.94	250	4
27		25377	25379	19	Toy Train ⁽⁶⁹⁾		14.40	.10A	.9	Miniature Two Pin	B	C-6	.62	.94	1,000	5

13. Supported.

14. This lamp is specially designed for a particular purchaser and may not be suitable for other uses because of its excessive wattage requirements for the bulb size.

44. At 6.6 volts.

69. Not recommended for new OEM applications - suggested for new design are wedge base lamps such as GE Lamp Numbers 259, and 161.

116. Life tests are performed on DC voltage only.

MINIATURE LAMP SPECIFICATION

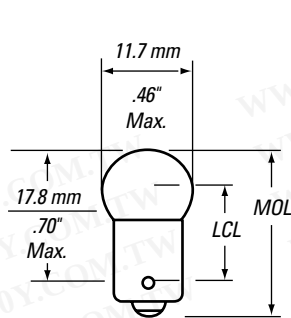


Fig. 6
G-3 1/2

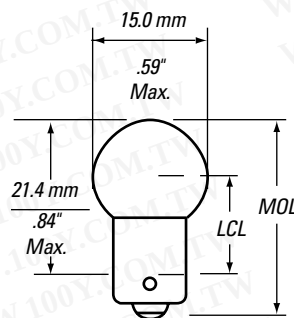


Fig. 8
G-4 1/2

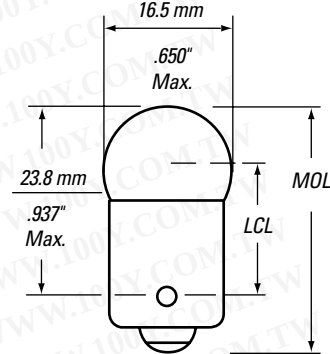


Fig. 10
G-5

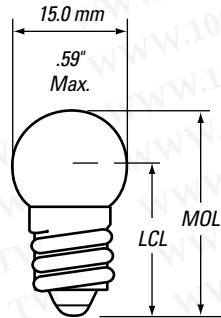


Fig. 7
G-4 1/2

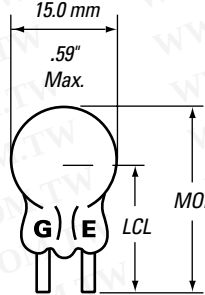


Fig. 9
G-4 1/2

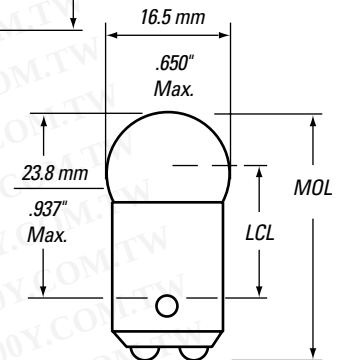


Fig. 11
G-5

Line No.	Order Code	Blister Pack	Unit Pack	Bulk Pack	GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
G-3 1/2 BULB 1/16" (11mm) DIAMETER (continued)																	
1		25550	25552	53		Auto and Indicator		14.4	.12A	1	Miniature Bayonet	B	C-2V ⁽¹³⁾	.50	.94	1,000	6
2	12329	27207	27209	1445		Auto		14.4	.135A	.7	Miniature Bayonet	B	C-2V ⁽¹³⁾	.50	.94	2,000	6
						Toy Train Ratings		18.0	.15A	1.5						250	
3		27263		1450		Indicator		24.0	.035A	.23	Miniature Bayonet	B	C-2F	.50	.94	3,000	6
4		44719		265		Indicator		28.0	.08A	.75	Miniature Bayonet	B	C-2F	.50	.94	5,000	6
5		26255		356		Aircraft ⁽¹⁴⁾		28.0	.17A	3.5	Miniature Bayonet	B	C-2F	.50	.94	500	6
G-4 1/2 BULB 1/16" (14mm) DIAMETER																	
6		25388		27		Hand Lantern – 4F Cells		4.9	.30A	1.4	Miniature Screw	B	C-2R	.72	1.07	30 ⁽¹¹⁶⁾	7
7		26354		425		Hand Lantern – 4F Cells		5.0	.50A	2.3	Miniature Screw	C	C-2R	.72	1.07	15 ⁽¹¹⁶⁾	7
8		26460		502		Hand Lantern – 4F Cells		5.1	.15A	.6	Miniature Screw	B	C-2R	.72	1.07	100 ⁽¹¹⁶⁾	7
9		26549		605		Flashlight – 5D Cells		6.15	.50A	3.4	Miniature Screw	C	C-2R	.72	1.07	15 ⁽¹¹⁶⁾	7
10		25371		15		Indicator ⁽⁶⁹⁾		7.0	.40A	2	Miniature Two Pin	C	C-6	.69	1.07	500	9
11		25576		55		Instrument		7.0	.41A	2	Miniature Bayonet	C	C-2R	.56	1.07	500	8
12	23218	25591	25593	57		Auto and Instrument		14.0	.24A	2	Miniature Bayonet	B	C-2V ⁽¹³⁾	.56	1.07	500	8
13		26095		258		Toy Train, Flasher Lamp ⁽⁷⁰⁾		14.0	.27A	1.6	Miniature Screw	C	C-2R	.81	1.07	500 ⁽³⁾	7
14	12330	27945	27948	1895		Auto, Truck Marker		14.0	.27A	2	Miniature Bayonet	B	C-2F	.56	1.07	2,000	8
15		32688		293		Auto and Radio		14.0	.33A	2	Miniature Bayonet	B	C-2F	.56	1.07	7,500	8
16		26441		456		Instrument		28.0	.17A	2	Miniature Bayonet	B	C-2F	.56	1.07	5,000	8
G-5 BULB 1/8" (16mm) DIAMETER																	
17		32098		1315		Aircraft Emergency Lighting		2.5	1.00A	1.75	S.C. Bayonet	C	C-6	.69	1.25	20 ⁽¹¹⁶⁾	10
18		26112		301		Aircraft		28.0	.17A	3	S.C. Bayonet	B	C-2F	.69	1.25	500	10
19		26120		302		Aircraft		28.0	.17A	3	D.C. Bayonet	B	C-2F	.69	1.25	500	11

3. Useful hours.

13. Supported.

14. This lamp is specially designed for a particular purchaser and may not be suitable for other uses because of its excessive wattage requirements for the bulb size.

69. Not recommended for new OEM applications - suggested for new design are wedge base lamps such as GE Lamp Numbers 259, and 161.

70. These lamps produce a random flashing indication only. While the majority should flash between 40-160 flashes per minute at normal room temperature, some will be outside this range. As ambient temperature and/or input voltage changes, the flash rate may vary considerably. At rated voltage and room temperature most lamps will flash within 60 seconds.

116. Life tests are performed on DC voltage only.

MINIATURE LAMP SPECIFICATION

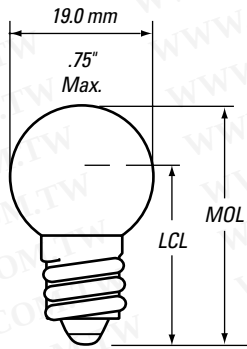


Fig. 12
G-6

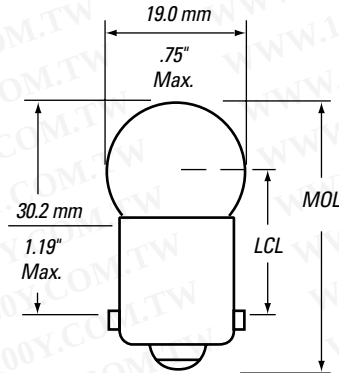


Fig. 13
G-6

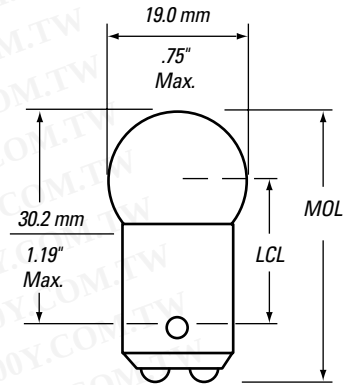


Fig. 14
G-6

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./ C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
G-6 BULB ¾" (19mm) DIAMETER																
1		25927		157	Medical		5.8	1.10A	8.1	Miniature Screw	C	C-2R	1.0 ⁽¹²⁷⁾	1.22	50	12
2		25736		81	Auto, Aircraft, and Coin Machine		6.5	1.02A	6	S.C. Bayonet	C	C-2R	.75	1.44	500	13
3		25751		82	Auto and Marine		6.5	1.02A	6	D.C. Bayonet	C	C-2R	.75	1.44	500	14
4	12321			63	Coin Machine		7.0	.63A	3	S.C. Bayonet	C	C-2R	.75	1.44	1,000	13
5		25643		64	Aircraft and Marine		7.0	.63A	3	D.C. Bayonet	C	C-2R	.75	1.44	1,000	14
6	12363	25778	18618	89	Auto		13.0	.58A	6	S.C. Bayonet	C	C-2R	.75	1.44	750	13
7	47797			89KR*	Auto. Krypton Fill. Long Life		13.0	.58A	6	S.C. Bayonet	C	C-2R	.75	1.44	1,500	13
8	12364	25794	25796	90	Auto and Marine		13.0	.58A	6	D.C. Bayonet	C	C-2R	.75	1.44	750	14
9		16287	16286	98	Auto, Heavy Duty		13.0	.62A	6	S.C. Bayonet	C	C-2V	.75	1.44	800	13
10	12324	25652	25654	67	Auto		13.5	.59A	4	S.C. Bayonet	C	C-2R	.81	1.44	5,000 ⁽⁴⁾	13
11		25692		68	Auto and Marine		13.5	.59A	4	D.C. Bayonet	C	C-2R	.81	1.44	5,000 ⁽⁴⁾	14
12		26955		1155	Auto, Truck Marker – Heavy Duty		13.5	.59A	4	S.C. Bayonet	C	2C-2R	.81	1.44	5,000 ⁽⁴⁾	13
13	12322	25836	25838	97	Auto – Heavy Duty		13.5	.69A	4	S.C. Bayonet	C	C-2V ⁽¹³⁾	.81	1.44	5,000 ⁽⁴⁾	13
14	23322		35417	R10W LL	Auto. ECE R10W GE 2641 – Long Life		13.5	10W	10.0	S.C. Bayonet	C	C-2R	.75	1.47	400	13
15	23314		30859	R5W LL	Auto. ECE R5W GE 2619 – Long Life		13.5	5W	4.0	S.C. Bayonet	B	C-2R	.75	1.47	500	13
16	23023	26570		631	Auto – Two filaments in series – Heavy Duty		14.0	.63A	6	S.C. Bayonet	C	2C-2R	.75	1.44	1,000	13
17		26485		509K	Indicator	303	24.0	.18A	2.8	Candelabra Screw	B	C-2R	.75	1.47	1,000	–
18		27092		1251	Instrument – Two identical supported filaments in series		28.0	.23A	3	S.C. Bayonet	B	2C-2V ⁽¹³⁾	.75	1.44	2,000	13
19		27097		1252	Instrument – Two identical supported filaments in series		28.0	.23A	3	D.C. Bayonet	B	2C-2V ⁽¹³⁾	.75	1.44	2,000	14
20		26127		303	Aircraft		28.0	.30A	6	S.C. Bayonet	B	C-2F	.75	1.44	500	13
21		26136		304	Aircraft		28.0	.30A	6	D.C. Bayonet	B	C-2F	.75	1.44	500	14
22		26561	26563	623	Instrument – Two supported filaments in series		28.0	.37A	6	S.C. Bayonet	B	2C-2V ⁽¹³⁾	.75	1.44	1,000	13
23		26567	26568	624	Marine – Two supported filaments in series		28.0	.37A	6	D.C. Bayonet	B	2C-2V ⁽¹³⁾	.75	1.44	1,000	14
24		27044		1224	Marine		34.0 ⁽¹⁴⁷⁾	.16A	3.8	D.C. Bayonet	B	C-2F	.69	1.44	500	14

4. At 14 volts.

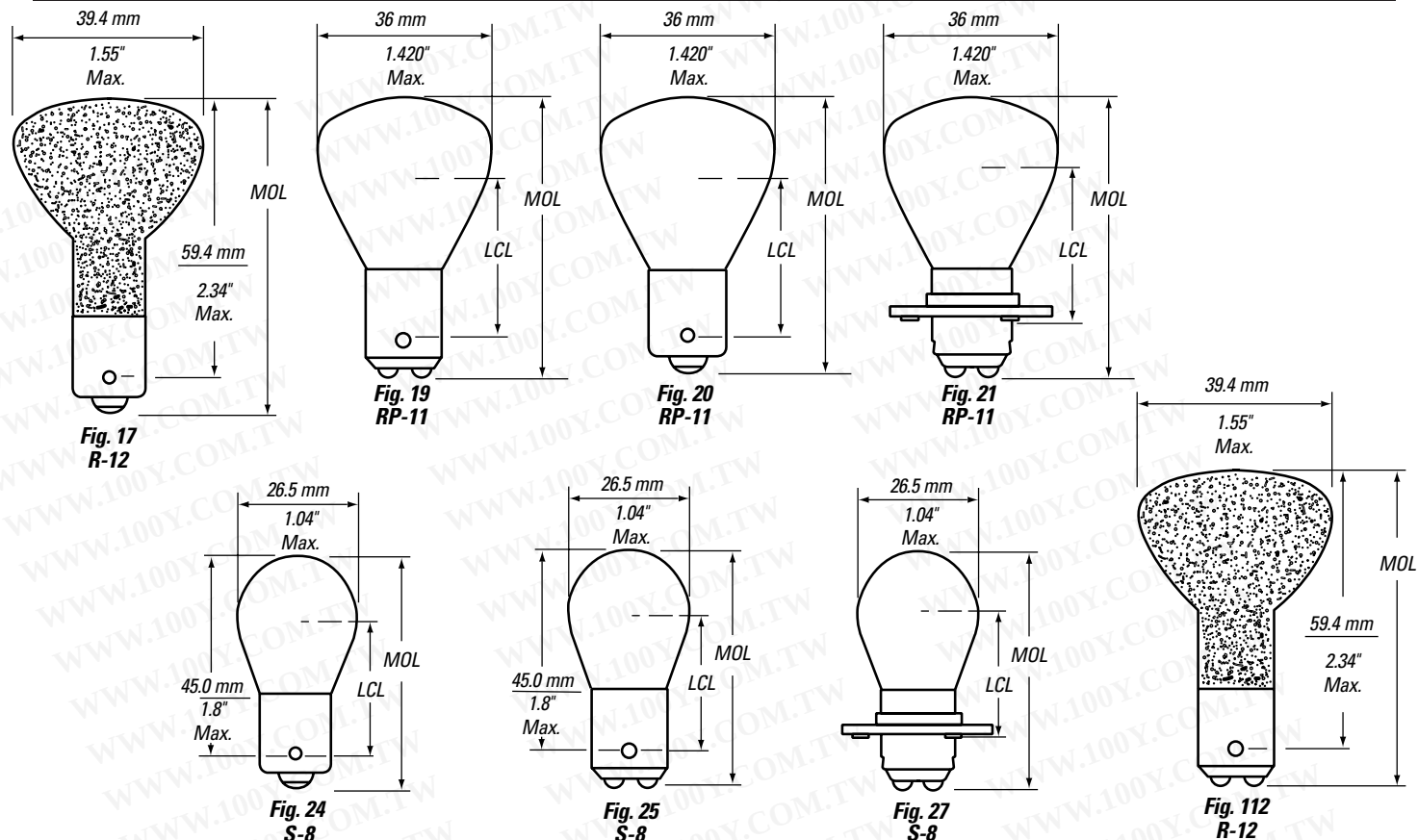
13. Supported.

127. LCL measured to top of filament.

147. Differs from ANSI.

303. See page 50.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code	Unit Pack	Bulk Pack	GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
R-12 BULB 1½" (38mm) DIAMETER																
1		27150		1383	Auto, Reading Light – Base half of bulb reflectorized		13.0	20W	–	S.C. Bayonet	C	C-8	–	2.63	300	17
2		27159		1388	Special Telephone Trouble – Base half of bulb reflectorized.		24.0	20W	–	D.C. Bayonet	C	CC-8	–	2.63	500	112
3		27154		1385	Special Reading Light – Base half of bulb reflectorized		28.0	20W	–	S.C. Bayonet	C	CC-8	–	2.63	300	17
RP-11 BULB 1⅜" (35mm) DIAMETER Burning position – base down to horizontal.																
4		28100		2331	Instrument	305	5.9	4.66A	32	D.C. Pf. (S)	C	C-6	1.18	2.25	400	21
							6.2	4.49A	32						400	
5		26885		1133	Instrument	305	6.2	3.91A	32	S.C. Bayonet	C	C-2R	1.25	2.25	200	20
6		27021	27023	1195	Auto – Nickel-plated base	305	12.5	3.00A	50	S.C. Bayonet	C	C-2R	1.25	2.25	300	20
7		27026		1196	Auto	305	12.5	3.00A	50	D.C. Bayonet	C	C-2R	1.25	2.25	300	19
8		32147		1062	Special Service, Emer, Ltg	305	40.0	.92A	50	D.C. Bayonet	C	C-5	1.25	2.25	100	19
S-8 BULB 1" (25mm) DIAMETER																
9		27461		1612	Instrument (LCL & Actual Alignment tolerance + ³ / ₆₄ ")		5.4	1.90A ⁽¹⁴⁷⁾	10	D.C. Bayonet	C	C-6	1.25	2.0	1,000	25
10		27548		1680	Aircraft		6.0	4.10A	32	S.C. Bayonet	C	C-6	1.25	2.0	300	24
11		33995		1680X	Aircraft – Solid Silver Contact		6.0	4.10A	32	S.C. Bayonet	C	C-6	1.25	2.0	300	24
12		37169		1096	Instrument, Microscope Illuminator		6.0	4.50A	30	D.C. Pf. (S)	C	C-2R	1.00	2.0	500	27
13		27305		1468	Medical Instrument – Burning position base up to horiz.		6.0	4.50A	30	D.C. Pf. (S)	C	C-2R	1.25	2.0	500	27
14		42677		1468X	Medical Instrument – Burning position base up to horiz.		6.0	4.50A	30	D.C. Pf. (S)	C	C-2R	1.25	2.0	500	27
15		27439		1594	Instrument, Microscope base down to horiz.		6.0	5.00A	36	D.C. Bayonet	C	C-6	1.25	2.0	250	25

147. Differs from ANSI.

305. See page 50.

MINIATURE LAMP SPECIFICATION

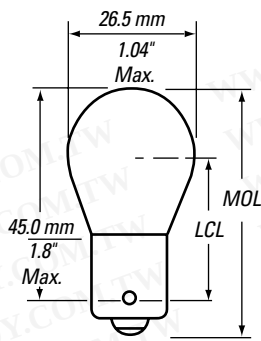


**Fig. 24
S-8**

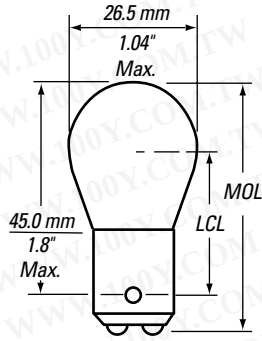


**Fig. 25
S-8**

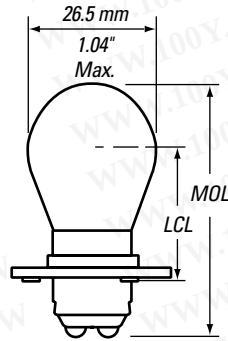


**Fig. 27
S-8**

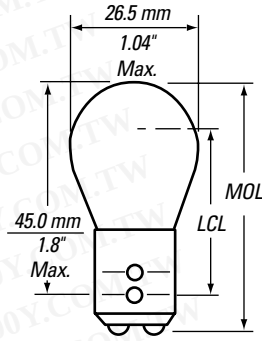


**Fig. 28
S-8**

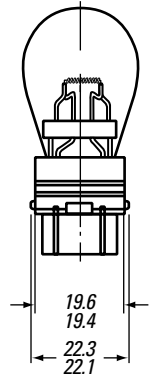


Fig. 30

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmos-phere B-Vac./ C-Gas	Filament Desig-nation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
S-8 BULB 1" (25mm) DIAMETER (continued)																
1		26872		1129	Special Service		6.4	2.63A	21	S.C. Bayonet	C	C-6	1.25	2.0	200	24
2	12297			1154	Auto Stop, Tail, Signal		6.4	2.63A	21	D.C. Index	C	C-6	1.25	2	200	28
							7.0	.75A	3						1,000	
3		28310		1460	Medical		6.5	2.75A	23	D.C. Pf. (A)	C	C-6 ⁽¹¹⁾	1.25	2.0	100	27
4		37342	37343	1460X	Microscope Illuminator – Silver contacts		6.5	2.75A	23	D.C. Pf. (A)	C	C-6 ⁽¹¹⁾	1.25	2.0	100	27
5		27382		1493	Instrument, Microscope (L.C.L. & AA tolerance 3/64")		6.5	2.75A	23	D.C. Bayonet	C	C-6 ⁽¹¹⁾	1.12	2.0	100	25
6		27488	27489	1630	Instrument, Microscope		6.5	2.75A	23	D.C. Pf. (A)	C	C-6 ⁽¹¹⁾	1.00	2.0	100	27
7		27491		1631X	Instrument, Colorimeter – Illuminator Silver contacts		6.5	2.75A	23	D.C. Pf. (A)	C	C-6 ⁽¹¹⁾	1.00	2.0	100	27
8		27472		1619	Instrument		6.7	1.90A	15	S.C. Bayonet	C	C-6	1.12	2.0	500	24
9		25772		88	Indicator		6.8	1.91A	15	D.C. Bayonet	C	C-6	1.12	2.0	300	25
10	41755	22523		1295NA	Auto Signal		12.5	3.00A	37	S.C. Bayonet	C	C-2R	1.25	2.0	200	24
11	23217	25811	25813	93	Auto		12.8	1.04A	15	S.C. Bayonet	C	C-6 ⁽¹⁴⁷⁾	1.12	2.0	700	24
12		25829	25831	94	Auto and Marine		12.8	1.04A	15	D.C. Bayonet	C	C-6 ⁽¹⁴⁷⁾	1.12	2.0	700	25
13		26945		1152	Special Service		12.8	1.34A	21	D.C. Bayonet	C	C-2R	1.25	2	500	25
14		27004		1176	Auto Stop, Tail, Signal		12.8	1.34A	21	D.C. Bayonet	C	C-6	1.25	2.0	300	25
							14.0	.59A	6			C-6			1,500	
15	12346	26903	26905	1141	Auto		12.8	1.44A	21	S.C. Bayonet	C	C-6	1.25	2.0	1,000	24
16	47802			1141KR*	Auto. Krypton Fill. Long Life		12.8	1.44A	21	S.C. Bayonet	C	C-6	1.25	2.0	2,000	24
17		26917	26919	1142	Auto		12.8	1.44A	21	D.C. Bayonet	C	C-6	1.25	2.0	1,000	25
18		27630		1777	Aircraft Tail Light		12.8	1.52A	26	S.C. Bayonet	C	C-2R	1.12	2.0	400	24
19	23028			3155	Auto Signal		12.8	1.60A	21	Plastic Wedge	C	C-6	1.10	2.09	1,500	30
20		26775		1034	Auto Stop Tail Signal		12.8	1.80A	32	D.C. Index	C	C-6	1.25	2	200	28
							14.0	.59A	3						5,000	
21	40134	26838		1073	Auto Signal		12.8	1.80A	32	S.C. Bayonet	C	C-6	1.25	2.0	200	24
22		26854		1076	Auto		12.8	1.80A	32	D.C. Bayonet	C	C-6	1.25	2.0	200	25
23	12344	26960	26962	1156	Auto Stop		12.8	2.10A	32	S.C. Bayonet	C	C-6	1.25	2.0	1,200	24
24	23334		11666	1156KR	Auto Stop. Krypton Fill. Long Life		12.8	2.10A	32	S.C. Bayonet	C	C-6	1.25	2.0	2,400	24
25	21028	20248		1156NA	Auto Stop. Natural Amber		12.8	2.10A	24	S.C. Bayonet	C	C-6	1.25	2.0	1,200	24
26	12294	26969	26971	1157	Auto Stop, Signal		12.8	2.10A	32	D.C. Index	C	C-6	1.25	2.0	1,200	28
							14.0	.59A	3			C-6			5,000	
27	23337			1157KR	Auto Stop, Signal. Krypton Fill. Long Life		12.8	2.10A	32	D.C. Index	C	C-6	1.25	2.0	2,400	28
							14.0	.59A	3			C-6			10,000	
28	12310	26975	26976	1157NA	Auto Stop, Signal – Natural Amber		12.8	2.10A	24	D.C. Index	C	C-6	1.25	2.0	1,200	28
							14.0	.59A	2.2			C-6			5,000	
29	47798			1157NAKR*	Auto Stop, Signal – Natural Amber. Krypton Fill. Long Life		12.8	2.10A	24	D.C. Index	C	C-6	1.25	2.0	2,400	28
							14.0	.59A	2.2			C-6			10,000	

11. Vertical

147. Differs from ANSI.

MINIATURE LAMP SPECIFICATION

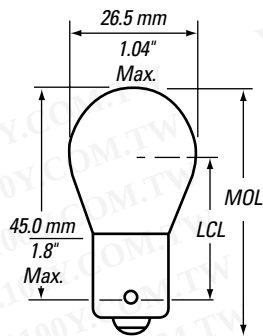


**Fig. 24
S-8**

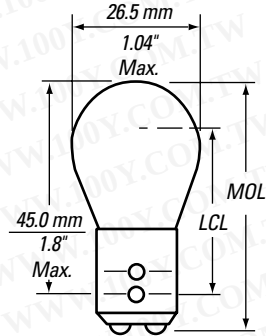


**Fig. 28
S-8**

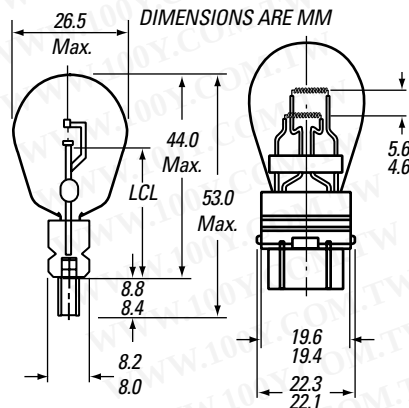


**Fig. 29
S-8**

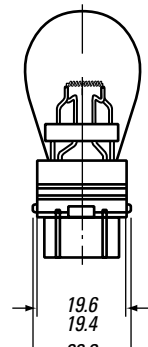


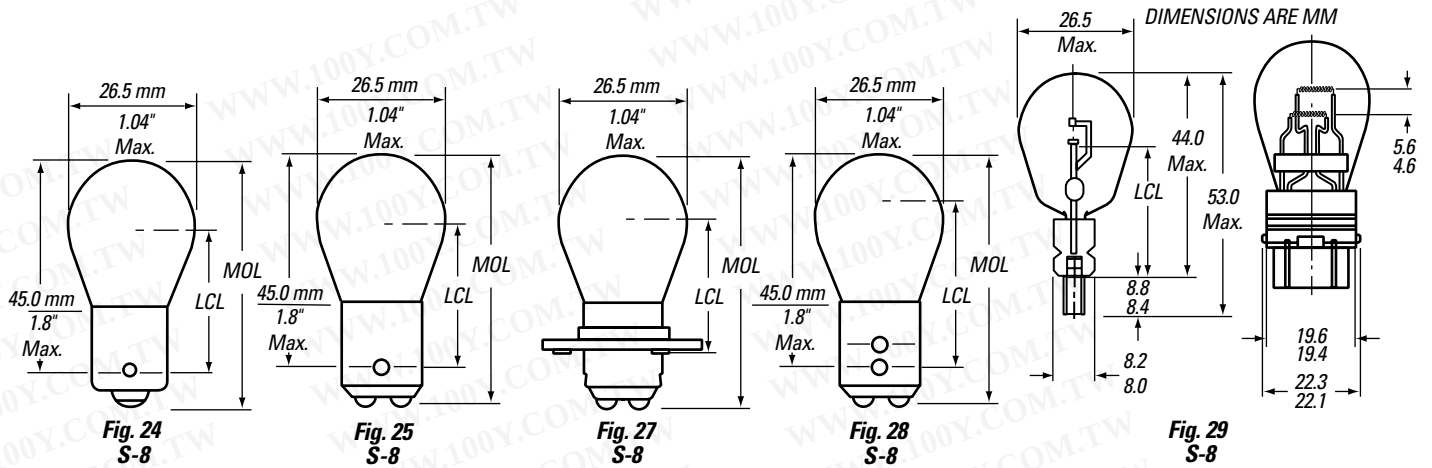
Fig. 30

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
S-8 BULB 1" (25mm) DIAMETER (continued)																
1	12296	44760	18620	2057	Auto Stop, Signal		12.8	2.10A	32	D.C. Index	C	C-6	1.25	2.0	1,200	28
							14	.48A	2			C-6			5,000	
2	23339		10018	2057KR	Auto Stop, Signal. Krypton Fill. Long Life		12.8	2.10A	32	D.C. Index	C	C-6	1.25	2.0	2,400	28
							14.0	.48A	2			C-6			10,000	
3	12312	44763	44764	2057NA	Auto Stop, Signal – Natural Amber		12.8	2.10A	24	D.C. Index	C	C-6	1.25	2.0	1,200	28
							14.0	.48A	1.5			C-6			5,000	
4	47799			2057NAKR*	Auto Stop, Signal – Natural Amber. Krypton Fill. Long Life		12.8	2.10A	24	D.C. Index	C	C-6	1.25	2.0	2,400	28
							14.0	.48A	1.5			C-6			10,000	
5			12899	2058U	Auto/Truck Stop, Signal		12.8	2.10A	32	Wire Terminals ⁽¹¹³⁾	C	C-6	–	1.81	1,200	–
							14.0	.48A	2			C-6			5,000	
6			28085	2144	Auto/Truck		12.8	2.10A	32	Wire Terminals ⁽¹¹³⁾	C	C-6	–	1.75	1,200	–
7	12305	18389		3057	Auto Stop, Signal		12.8	2.10A	32	Plastic Wedge	C	C-6	1.10	2.09	1,200	29
							14.0	.48A	2			C-6			5,000	
8	26378			3057KR	Auto Stop, Signal. Krypton Fill. Long Life		12.8	2.10A	32	Plastic Wedge	C	C-6	1.1	2.09	2,000	29
							14.0	.48A	2			C-6			10,000	
9	12313	18391		3057NA	Auto Stop, Signal – Natural Amber		12.8	2.10A	24	Plastic Wedge	C	C-6	1.10	2.09	1,200	29
							14.0	.48A	1.5			C-6			5,000	
10	12351	21863		3156	Auto Stop		12.8	2.10A	32	Plastic Wedge	C	C-6	1.10	2.09	1,200	30
11	27565			3156KR*	Auto Stop. Krypton Fill. Long Life		12.8	2.10A	32	Plastic Wedge	C	C-6	1.10	2.09	2,000	30
12	12306	17172		3157	Auto Stop, Signal		12.8	2.10A	32	Plastic Wedge	C	C-6	1.10	2.09	1,200	29
							14.0	.59A	3			C-6			5,000	
13	26377			3157KR	Auto Stop, Signal. Krypton Fill. Long Life		12.8	2.10A	32	Plastic Wedge	C	C-6	1.10	2.09	2,000	29
							14.0	.59A	3			C-6			10,000	
14	12314	17173		3157NA	Auto Stop, Signal – Natural Amber		12.8	2.10A	24	Plastic Wedge	C	C-6	1.10	2.09	1,200	29
							14.0	.59A	2.2			C-6			5,000	
15	26380			3157NAKR	Auto Stop, Signal – Natural Amber. Krypton Fill. Long Life		12.8	2.10A	24	Plastic Wedge	C	C-6	1.10	2.09	2,000	29
							14.0	.59A	2.2			C-6			10,000	
16	12298	16291	16290	2357	Auto Stop, Signal		12.8	2.20A	40	D.C. Index	C	C-6	1.25	2.0	400	28
							14.0	.59A	3			C-6			5,000	
17	12299	15698	15699	2357NA	Auto/Truck Stop/Signal, Natural Amber		12.8	2.20A	30	D.C. Index	C	C-6	1.25	2.0	400	28
							14.0	.59A	2.2			C-6			5,000	
18		18047		2396	Auto Stop		12.8	2.23A	40	S.C. Bayonet	C	C-6	1.25	2.0	400	24
19	27560			2397*	Auto Stop, Signal		12.8	2.23A	40	D.C. Index	C	C-6	1.25	2.0	400	28
							14.0	.48A	2			C-6			5,000	

113. This is a flange seal wire terminal lamp. When unbased lamps such as these are handled and wired into a device, damage can be kept to a minimum by allowing sufficient clearance so that no physical strain or excessive heat is placed on the exhaust tube, exhaust tube tip, or glass

seal; by taking care in mounting lamp in equipment so that any material touching the glass is compatible in thermal expansion; and by avoiding excessive tensile strain on the lead wires.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code	GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
S-8 BULB 1" (25mm) DIAMETER (continued)														
1	14387	22525	3357/3457	Auto Stop, Signal	12.8	2.23A	40	Plastic Wedge	C	C-6	1.10	2.09	400	29
2	26379		3357KR/3457KR	Auto Stop, Signal. Krypton Fill. Long Life	12.8	2.23A	40	Plastic Wedge	C	C-6	1.10	2.09	800	29
3	14388	22526	3357NA/3457NA	Auto Stop, Signal – Natural Amber	12.8	2.23A	30	Plastic Wedge	C	C-6	1.10	2.09	400	29
5	15657		4157KR*	Auto Stop, Signal. Krypton Fill. Long Life	12.8	2.23A	32	Plastic Wedge	C	C-6	1.10	2.09	3,600	29
6	47458		4157NAKR*	Auto Stop, Signal – Natural Amber. Krypton Fill. Long Life	12.8	2.23A	24	Plastic Wedge	C	C-6	1.10	2.09	3,600	29
7		37983	198	Truck Stop, Signal – Heavy Duty ⁽¹¹⁰⁾	12.8	2.25A ⁽⁴⁷⁾	32	D.C. Index	C	C-6	1.25	2.0	1,200	28
8		37985	199	Truck Signal – Heavy Duty ⁽¹¹⁰⁾	12.8	2.25A	32	S.C. Bayonet	C	C-6	1.25	2.0	1,200	24
9	27561	30857	P21/4W*	Auto Stop, Signal – European (ECE)	13.5	1.85A	35	D.C. Index	C	C-6	1.25	2.0	100	28
10	23303	11604	P21/5W (P25-2)	Auto Stop, Signal – European (ECE)	13.5	1.85A	35	D.C. Index	C	C-6	1.25	2.0	250	28
11		92475	P21/5W LL*	Auto Stop, Signal – European (ECE) – Long Life	13.5	1.85A	35	D.C. Index	C	C-6	1.25	2.0	600	28
12	23306	11601	P21W (P25-1)	Auto Stop – European (ECE)	13.5	1.85A	36.6	S.C. Bayonet	C	C-6	1.25	2.0	250	24
13		38655	P21W LL*	Auto Stop – European (ECE) – Long Life	13.5	1.85A	36.6	S.C. Bayonet	C	C-6	1.25	2.0	300	24
14	41370	32648	PY21W*	Auto Stop – European (ECE) – Amber Bulb	13.5	1.85A	22.3	S.C. Bayonet	C	C-6	1.25	2.0	250	24
15		27496	1634	Instrument, Microscope. Illuminator – Burn base up to horiz	20.0	1.00A	24	D.C. Pf. (A)	C	CC-6	1.25	2.0	200	27
16	26143		305	Aircraft	28.0	.51A	15	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.12	2.0	300	24
17	26145		305AF	Aircraft – All frosted	28.0	.51A	–	S.C. Bayonet	C	C-2V ⁽¹³⁾	–	2.0	300	24
18	26152		306	Aircraft	28.0	.51A	15	D.C. Bayonet	C	C-2V ⁽¹³⁾	1.12	2.0	300	25
19	43132		705	Aircraft	28.0	.51A	15	S.C. Bayonet	C	CC-6	1.12	2.0	900	24
20	40943		1591	Auto	28.0	.61A	15	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.12	2.0	1,000	24
21	40945		1591AF	Aircraft – All frosted	28.0	.61A	–	S.C. Bayonet	C	C-2V ⁽¹³⁾	–	2.0	1,000	24
22	27566		1691	Aircraft – 2 identical filaments in series	28.0	.61A	15	S.C. Bayonet	C	2C-2R	1.12	2.0	1,000	24
23	27568		1691AF	Aircraft – All frosted – 2 identical filaments in series	28.0	.61A	–	S.C. Bayonet	C	2C-2R	–	2.0	1,000	24

13. Supported.

147. Differs from ANSI.

110. To be used with variable load flasher in applications where bulb outage indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.

MINIATURE LAMP SPECIFICATION

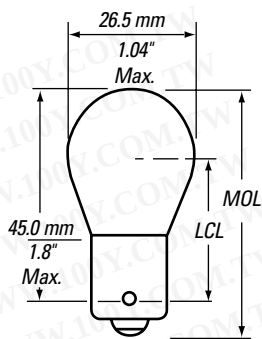


Fig. 24
S-8

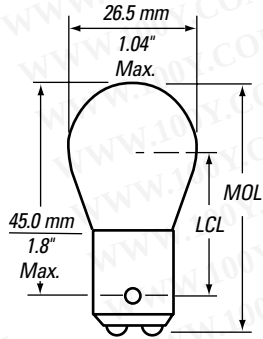


Fig. 25
S-8

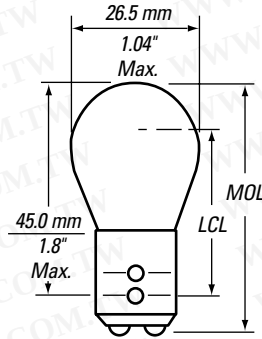


Fig. 28
S-8

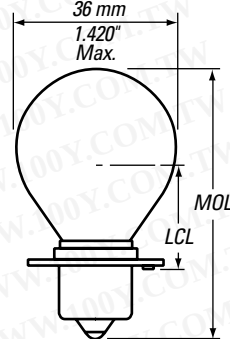


Fig. 31
S-11

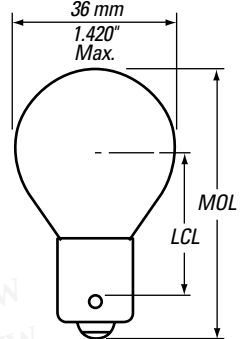


Fig. 32
S-11

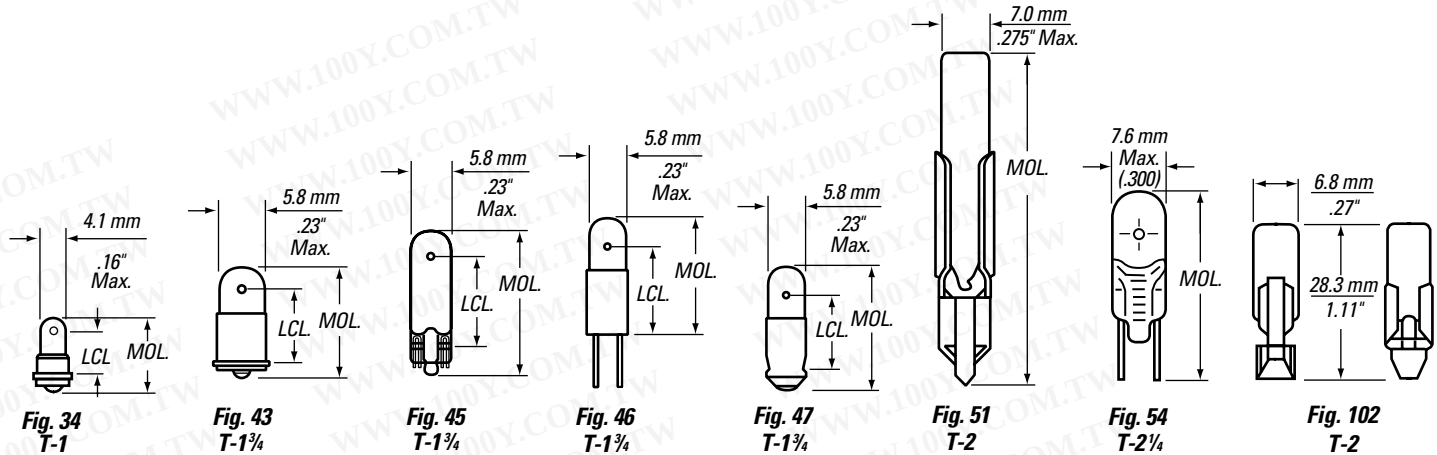
Line No.	Order Code Blister Pack Unit Pack Bulk Pack	GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmos-phere B-Vac./ C-Gas	Filament Design- nation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
S-8 BULB 1" (25mm) DIAMETER (continued)														
1	27571	1692	Marine – 2 identical filaments in series		28.0	.61A	15	D.C. Bayonet	C	2C-2R	1.12	2.0	1,000	25
2	34763	2232	Aircraft – Spiral lead		28.0	.643A	18	S.C. Bayonet	C	CC-8	1.19	2.0	2,000	24
3	26702	2232LL*	Aircraft – Spiral lead. Long Life		28.0	.643A	18	S.C. Bayonet	C	CC-8	1.19	2.0	4,000	24
4	43134	2232SB	Aircraft – Spiral lead Top of bulb reflectorized		28.0	.643A	–	S.C. Bayonet	C	CC-8	1.19	2.0	2,000	24
5	26157	307	Aircraft		28.0	.67A	21	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.12	2.0	300	24
6	26161	307AF	Aircraft – All frosted		28.0	.67A	21	S.C. Bayonet	C	C-2V ⁽¹³⁾	–	2.0	300	24
7	26168	308	Aircraft		28.0	.67A	21	D.C. Bayonet	C	C-2V ⁽¹³⁾	1.12	2.0	300	25
8	26171	308AF	Aircraft – All frosted		28.0	.67A	–	D.C. Bayonet	C	C-2V ⁽¹³⁾	–	2.0	300	25
9	27032	1203	Special Service		28.0	.71A	21	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.25	2.0	400	24
10	36906	2233	Aircraft – Spiral lead		28.0	.766A	21	S.C. Bayonet	C	CC-8	1.19	2.0	2,000	24
11	27532	1665	Aircraft		28.0	.80A	21	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.12	2.0	1,000	24
12	27533	1665AF	Aircraft – All frosted		28.0	.80A	–	S.C. Bayonet	C	C-2V ⁽¹³⁾	–	2.0	1,000	24
13	26238	315	Aircraft		28.0	.90A	32	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.12	2.0	300	24
14	27529	27530 1662	Aircraft – C-2V Filament inverted ^(15,33)		28.0	.93A	32	D.C. Index	C	CC-6 ⁽¹³⁾	1.25	2.0	400	28
15	32701	2155	Truck ⁽¹⁵⁾		28.0	.34A	6	Wire Terminals		C-2V			1,000	
					28.0	.93A	32			CC-6 ⁽¹³⁾	–	1.75	400	–
					28.0	.34A	6			C-2V			1,000	
16	30856	P21/5W*	Bus Stop /Tail-European (ECE)		28.0	1.00A	35	D.C. Index	C	C-6	1.25	2.0	150	28
					28.0	.36A	3.18			C-6			1,500	
17	40778	P21W 24V*	Bus Stop-European (ECE)		28.0	1.00A	36.6	S.C. Bayonet	C	C-6	1.25	2.0	150	24
18	27504	1638	Marine – 2 identical filaments in series		28.0	1.02A	32	D.C. Bayonet	C	2C-6	1.25	2.0	500	25
19	27557	1683	Aircraft – 2 identical filaments in series		28.0	1.02A	32	S.C. Bayonet	C	2C-6	1.25	2.0	500	24
20	39904	1229	Special Service, Emergency Lighting		40.0	.38A	15	D.C. Bayonet	C	C-2V ⁽¹³⁾	1.12	2.0	400	25
S-11 BULB 1 1/8" (35mm) DIAMETER														
21	27431	1561	Instrument, Colorimeter		6.3	4.00A	24	S.C. Pf. (B)	C	C-8Z	.88	2.38	1,500	31
22	26175	309	Aircraft		28.0	.90A	32	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.25	2.38	300	32
23	26191	311	Aircraft		28.0	1.29A	50	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.25	2.38	300	32
24	36508	3011	Aircraft		28.0	1.29A	44	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.25	2.38	1,000	32

13. Supported.

15. This lamp is specially designed for a particular purchaser and may not be suitable for other uses because of its limited mechanical strength.

33. Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./ C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
T-1 BULB 1/8" (3mm) DIAMETER																
1			28706	685	Aircraft		5.0	.06A	.05	Sub-Midget Flanged	B	C-2R	.19	.38	40,000 ⁽⁷⁹⁾	34
T-1 3/4 BULB 7/32" (5.5mm) DIAMETER																
2		28546		328	Aircraft		6.0	.20A	.34 ⁽¹⁰⁾	S.C. Midget Flanged	B	C-2R	.38	.63	1,000	43
3		40967	40968	86	Indicator		6.3	.20A	.4	Wedge ⁽¹³⁰⁾	B	C-2F	.40	.80	20,000 ⁽⁷⁹⁾	45
4		28653		381	Indicator		6.3	.20A	.4	S.C. Midget Flanged	B	C-2F	.38	.63	20,000 ⁽⁷⁹⁾	43
5	23015	39218	39219	73	Indicator		14.0	.08A	.3	Wedge	B	C-2F	.40	.80	15,000 ⁽⁷⁹⁾	45
6		28567		330	Aircraft		14.0	.08A	.5	S.C. Midget Flanged	B	C-2F	.38	.63	1,500	43
7		28657		382	Indicator		14.0	.08A	.3	S.C. Midget Flanged	B	C-2F	.38	.63	40,000 ⁽⁷⁹⁾	43
8		28662		386	Indicator		14.0	.08A	.3	Midget Grooved	B	C-2F	.38	.63	40,000 ⁽⁷⁹⁾	47
9	26480	39220	13689	37	Auto		14.0	.09A	.5	Wedge	B	C-2F	.40	.80	2,500	45
10	21029	38457	38458	74	Auto		14.0	.10A	.7	Wedge	B	C-2F	.40	.80	1,000	45
11		43606	43607	70	Auto ⁽¹⁴⁾		14.0	.15A	1.5	Wedge	B	C-2F	.40	.80	100	45
12		40969		85	Indicator		28.0	.04A	.3	Wedge	B	C-2F	.40	.80	7,000 ⁽⁷⁹⁾	45
13		28519		327	Aircraft		28.0	.04A	.34	S.C. Midget Flanged	B	C-2F	.38	.63	4,000 ⁽⁷⁹⁾	43
14		28588		334	Aircraft		28.0	.04A	.34	Midget Grooved	B	C-2F	.38	.63	4,000 ⁽⁷⁹⁾	47
15		28660		385	Indicator ⁽⁷⁸⁾		28.0	.04A	.15	S.C. Midget Flanged	B	C-2F	.44	.81	10,000 ⁽⁷⁹⁾	43
16		28664		387	Indicator		28.0	.04A	.3	S.C. Midget Flanged	B	C-2F	.38	.63	7,000 ⁽⁷⁹⁾	43
17		28672		388	Indicator		28.0	.04A	.3	Midget Grooved	B	C-2F	.38	.63	7,000 ⁽⁷⁹⁾	47
18		28926		7387	Indicator		28.0	.04A	.3	Bi-Pin M-23	B	C-2F	.50	.61	7,000 ⁽⁷⁹⁾	46
T-2 BULB 1/4" (6.8mm) DIAMETER																
19		12756		6PSB	Indicator		6.0	.14A	550 ⁽⁸⁰⁾	Tel. Slide #5	B	C-2V		1.11	20,000	102
20		12760		12PSB	Indicator		12.0	.17A	2,000 ⁽⁸⁰⁾	Tel. Slide #5	B	C-2F		1.11	12,000	102
21		29001		24E2	Telephone		24.0	.035A	600 ⁽⁸⁰⁾	Tel. Slide #3	B	C-2F		1.69	7,000	51
22		12071		24PSB	Indicator		24.0	.073A	3,000 ⁽⁸⁰⁾	Tel. Slide #5	B	C-2F		1.11	10,000	102
23		12072		28PSB	Indicator		28.0	.04A	1,600 ⁽⁸⁰⁾	Tel. Slide #5	B	C-2F		1.11	5,000	102
24		29041		48C2	Telephone		48.0	.035A	750 ⁽⁸⁰⁾	Tel. Slide #3	B	C-2F		1.69	5,000	51
25		12075		48PSB	Indicator		48.0	.05A	1,800 ⁽⁸⁰⁾	Tel. Slide #5	B	C-7A		1.11	10,000	102
26		12077		60PSB	Indicator		60.0	.05A	1,800 ⁽⁸⁰⁾	Tel. Slide #5	B	C-7A		1.11	7,500	102
27		12080		120PSB	Indicator		120.0	.025A	1,000 ⁽⁸⁰⁾	Tel. Slide #5	B	CC-7A		1.11	7,500	102
T-2 1/4 BULB 5/32" (7.5mm) DIAMETER																
28			47618	777	Flashlight, Halogen	306	4.0	1.20A	5.5	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	275	54
29		43760	43761	784	Emergency Lighting – Halogen	306	6.0	1.00A	9	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	50	54
30		43762	43763	785	Emergency Lighting – Halogen	306	6.0	1.33A	13	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	50	54
31		43115	43116	787	Instrument – Halogen	306	6.0	1.67A	16	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	100	54

10. At 5 volts.

14. This lamp is specially designed for a particular purchaser and may not be suitable for other uses because of its excessive wattage requirements for the bulb size.

78. ANSI specifies .38" light center length and .63" maximum overall length.

79. Life shown is AC voltage only. DC life will be approx. 50% of AC.

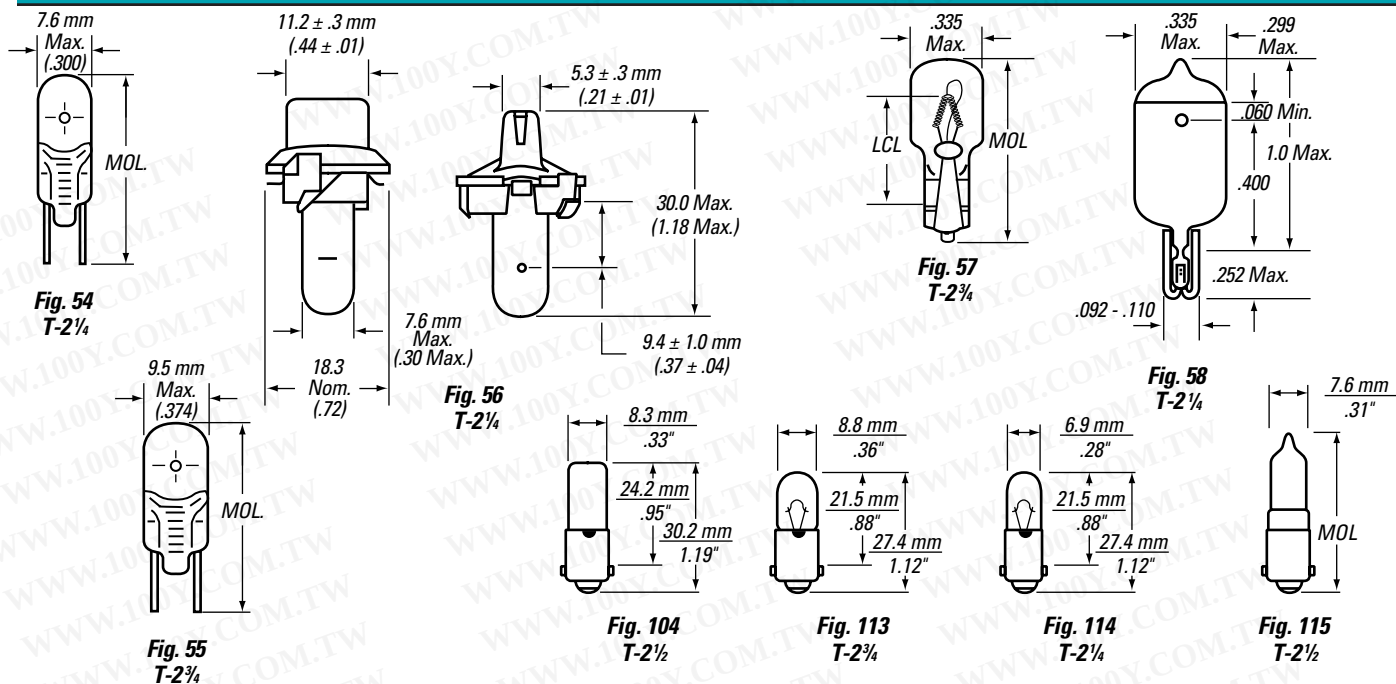
80. Design end foot candles, not spherical CP.

124. .028" metal pins spaced 44mm (.157") apart. GE's all-glass two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.

130. Subminiature wedge base lamps under 12 volts have copper-clad outer lead wires to decrease contact resistance at the expense of corrosion resistance in severe environments.

306. See page 50.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code	Blister Pack	Unit Pack	Bulk Pack	GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
T-2¼ BULB 7/32" (7.5mm) DIAMETER (continued)																	
1		11014			767	Instrument – Halogen	306	6.0	2.00A	19	Miniature Bayonet	C	C-6	.56	1.13	50	114
2		43764	43765		786	Emergency Lighting – Halogen	306	6.0	2.00A	19	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	50	54
3		43117	43118		788	Instrument – Halogen	306	6.0	3.33A	32	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	100	54
4		12723	12724		774	Emergency Lighting – Halogen	306	12.0	.67A	13	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	50	54
5		44500	44501		783	Emergency Lighting – Halogen	306	12.0	1.00A	22	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	50	54
6		13158	13161		882	Auto Inst. – Halogen	306	12.8	.35A	3.8	Printed Circuit Socket	C	C-6	.37	1.18	2,000	56
7		18167	16772		882X	Auto Inst. – Halogen	306	12.8	.35A	3.8	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	2,000	54
8	12326	19280			2040	Auto Light Bar	306	12.8	.625A	10.5	Wedge	C	C-6	.40	1.25	500	58
9	12308	15246	15248		891	Auto High Mounted Stop, Halogen	306	12.8	.63A	11	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.0	500	54
T-2½ BULB 5/16" (8.3mm) DIAMETER																	
10		26697			2059*	Aircraft-Reading Lamps – Long Life	304	12.0	.833A	9.1	Miniature Bayonet	C	C-8	0.59	1.30	4,000	115
11		26698			2059X*	Aircraft-Reading Lamps – Long Life – Blacktopped	304	12.0	.833A	8	Miniature Bayonet	C	C-8	0.59	1.30	4,000	115
12		12761			28MB	Indicator		28.0	.04A	.29	Miniature Bayonet	B	C-2F	–	1.19	5,000	104
13		12076			60MB	Indicator		60.0	.05A	.73	Miniature Bayonet	B	C-7A	–	1.19	7,500	104
14		12078			120MB	Indicator		120.0	.025A	.36	Miniature Bayonet	B	CC-7A	–	1.19	7,500	104
T-2¾ BULB 11/32" (8.7mm) DIAMETER																	
15		49718			778	Instrument – Halogen – High temp. fixtures	306	6.0	3.33A	32	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.05	100	55
16		11250			773	Special Service – Halogen	306	12.0	.67A	10	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.05	1,000	55
17		18344			780	Strip Light – Halogen	306	12.0	10W	12	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.05	2,000	55
18		43119			789	Instrument – Halogen	306	12.0	1.17A	22	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.05	200	55
19		44840	44841		782	Special Service – Halogen	306	12.0	1.66A	25	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.05	2,000	55
20	23318				T4W	Auto. ECE T4W GE 2662		13.5	.30A	2.8	Miniature Bayonet	B	C-2R	.59	1.08	450	113
21	12325	17853			24	Auto Side Marker		14.0	.24A	2	Wedge	B	C-2V	.46	.91	1,500	57
22	12316				24NA	Auto Side Marker		14.0	.24A	1.5	Wedge	B	C-2V	.46	.91	1,500	57
23		43121	43122		790	Instrument – Halogen	306	14.0	1.79A	42	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.05	200	55
24		43123	43124		791	Instrument – Halogen	306	14.0	2.50A	61	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	.77	1.05	200	55

124. .028" metal pins spaced 44mm (.157") apart. GE's all-glass two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.

304. See page 50.

306. See page 50.

MINIATURE LAMP SPECIFICATION

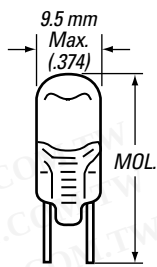


Fig. 59
TL-2 1/4

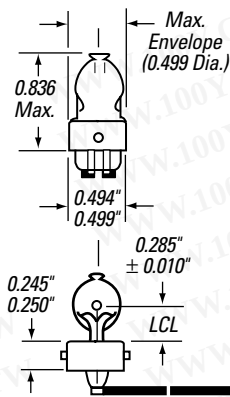


Fig. 60
T-3

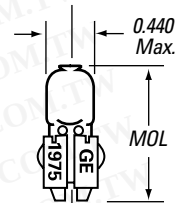


Fig. 61
T-3

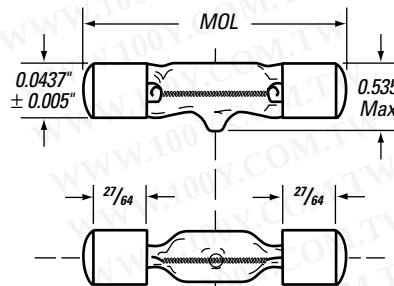


Fig. 62
T-3

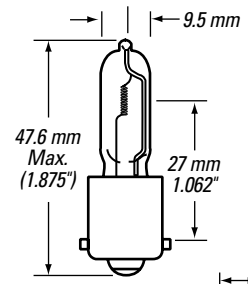


Fig. 68
T-3

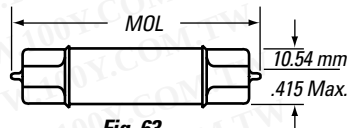


Fig. 63
T-3

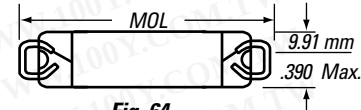


Fig. 64
T-3

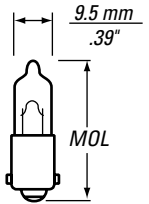


Fig. 116
T-3

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./ C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
TL-2¾ BULB 1 ¹ / ₃₂ " (8.7mm) DIAMETER																
1		43805		2604X	Instrument – Lens end ⁽¹²⁸⁾	306	5.0	2.00A	⁽¹²⁸⁾	G-4 Two Pin ⁽¹²⁴⁾	C	C-6	–	1.18	5,000	59
T-3 BULB ¾" (9.5mm) DIAMETER																
2		32780		1974	Instrument – Quartz Bulb – 3" bare leads horizontal	304	6.0	20W	10	Wire Terminals	C	C-6	.285	1.14	10,000	60
3		21494		2074	Instrument – Quartz Bulb	304	7.0	25W	24	Wire Terminals	C	C-6	.285	1.14	2,700	60
4		39641		1962B	Special Service – Quartz Bulb – 9" leads horizontal	304	8.5	62W	110	Wire Terminal	C	C-6	.285	1.14	50	60
5			12859	1962BG	Aircraft – Quartz Bulb – Halogen	304	8.5	62W	110	Wire Terminals	C	C-6	.285	1.14	50	–
6			37947	1962DX	Special Service – Quartz Bulb – 4" bare leads down	304	8.5	62W	80	Wire Terminals	C	C-6	.285	1.14	150	60
7		44152		1962DZ	Special Service – Quartz Bulb – 12" insulated leads down	304	8.5	62W	80	Wire Terminals	C	C-6	.285	1.14	150	60
8		13667		1962TY	Medical – Quartz Bulb – 7¾" Leads Horizontal	304	8.5	62W	110	Wire Terminals	C	C-6	.285	1.14	50	60
9		38545		1978X	Aircraft Navigation – Quartz Bulb	304	10.0	100W	130	Special	C	C-8	–	2.15	2,000	62
10		38535		1988	Aircraft Gunsight – Quartz Bulb	304	10.0	100W	130	Special Wire Leads	C	C-8	–	2.15	2,000	–
11		14689		3078*	Aircraft Navigation – Quartz Bulb – Long Life	304	10.0	100W	95	Special	C	C-8	–	2.15	4,500	62
12	12673	39224	11803	211-2	Auto		12.8	.97A	12	Miniature Cap	C	C-8	–	1.72	1,000	63
13	12358	39746	11820	561	Auto		12.8	.97A	12	Rigid Loop	C	C-8	–	1.72	1,000	64
14	45591			56110*	Auto-Interior-12V 20W	308	13.2	1.83A	40	Miniature Bayonet	C	C-2R	.59	1.22	100	116
15	47461			58540*	Auto-Interior-12V 5W	308	13.5	.37A	63	Miniature Bayonet	C	C-2R	.59	1.22	240	116
16	40135	39356	11804	214-2	Auto		13.5	.52A	4	Miniature Cap	C	C-8	–	1.72	1,000 ⁽⁴⁾	63
17	26205		11825	563	Auto		13.5	.52A	4	Rigid Loop	C	C-8	–	1.72	1,000 ⁽⁴⁾	64
18	23220		11806	212-2	Auto		13.5	.74A	6	Miniature Cap	C	C-8	–	1.72	2,000 ⁽⁴⁾	63
19	23019		11822	562	Auto		13.5	.74A	6	Rigid Loop	C	C-8	–	1.72	2,000 ⁽⁴⁾	64
20		28034		1968	Aircraft Gunsight – Quartz Bulb	304	28.0	25W	15	Double Slide	C	C-2V ⁽¹³⁾	.41	1.17	500	61
21		26696		A-103*	Aircraft-Quartz Bulb-Navigation	304	28.0	50W	60	Special	C	CC-8	–	1.87	1,000	62
22		38627		1982	Aircraft Navigation – Quartz Bulb	304	28.0	75W	110	S.C. Bayonet	C	CC-8 ⁽¹³⁾	1.06	1.88	1,000	68
23		21061		1982SP	Aircraft – Quartz Bulb	304	28.0	75W	107	S.C. Bayonet	C	CC-6	1.00	1.97	2,000	68

4. At 14 volts.

13. Supported.

124. .028" metal pins spaced 44mm (.157") apart. GE's all-glass two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.

128. Minimum 1/4" spot at .100" from bulb top

304. See page 50.

306. See page 50.

308. See page 50.

MINIATURE LAMP SPECIFICATION

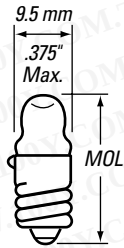


Fig. 65
TL-3

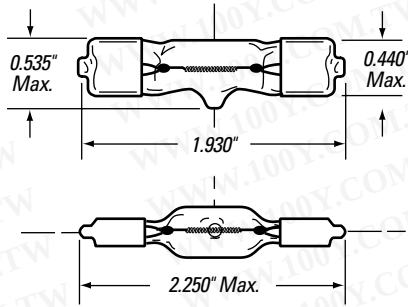


Fig. 66
T-3

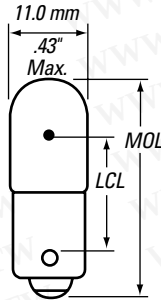


Fig. 70
T-3 1/4

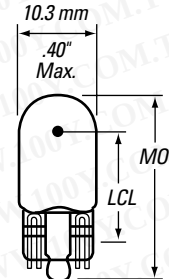


Fig. 71
T-3 1/4

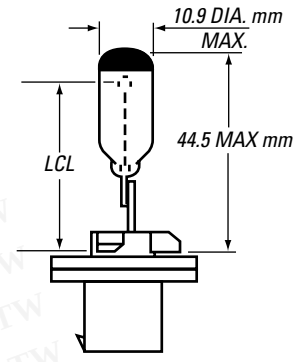


Fig. 72
T-3 1/4

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
T-3 BULB 3/8" (9.5mm) DIAMETER (continued)																
1		28036		1970	Aircraft – Quartz Bulb	304	28.0	100W	150	Special Sleeve	C	CC-8	–	2.25	1,000	66
2		41938		1970X	Aircraft – Quartz Bulb	304	28.0	100W	140	Special Sleeve	C	CC-8 ⁽¹³⁾	–	2.25	1,000	66
3			19792	2556	Aircraft – Quartz Bulb	304	28.0	200W	525	Two Pin	C	CC-6	.87	1.46	50	–
4		18617		1946	Aircraft – Quartz Bulb – Halogen	304	28.0	250W	660	Two Pin with Leads	C	CC-6	.87	1.46	50	–
TL-3 BULB 3/8" (9.5mm) DIAMETER																
5		25848		112	Flashlight – 1AA, C or D cell		1.2	.22A	–	Miniature Screw	B	S-2	–	.93	5 ⁽¹¹⁶⁾	65
6		26008		222	Flashlight – AA cells		2.25	.25A	–	Miniature Screw	B	C-2R	–	.93	5 ⁽¹¹⁶⁾	65
7		26063		243	Flashlight – 2 C cells		2.33	.27A	–	Miniature Screw	B	C-2R	–	.93	10 ⁽¹¹⁶⁾	65
T-3 1/4 BULB 13/32" (10mm) DIAMETER																
8		25442		43	Indicator		2.5	.50A	.5	Miniature Bayonet	B	C-2R	.78	1.19	3,000	70
9		27833		1850	Signal – Plane of filament perpendicular to base pins		5.0	.09A	.25	Miniature Bayonet	B	C-2R	.62	1.19	1,500 ⁽¹¹⁶⁾	70
10		26243		316	Aircraft		6.0	.70A	3.4	Miniature Bayonet	C	C-2R	.62	1.19	500	70
11			15731	149	Emergency Lighting		6.15	.53A	3.5	Wedge	B	C-2R	.56	1.06	15	71
12		25485		47	Radio, TV, and Indicator		6.3	.15A	.52	Miniature Bayonet	B	C-2R	.78	1.19	3,000	70
13		42758		267	Indicator – Flasher Lamp ⁽⁷⁰⁾		6.3	.15A	.33	Miniature Bayonet	B	C-2R	.62	1.19	5,000 ⁽³⁾	70
14		26591		755	Indicator		6.3	.15A	.33	Miniature Bayonet	B	C-2R	.78	1.19	20,000	70
15		27819		1847	Radio, TV, and Indicator		6.3	.15A	.38	Miniature Bayonet	B	C-2R	.78	1.19	5,000 ⁽⁴⁴⁾	70
16		25450		44	Indicator, Radio, and TV		6.3	.25A	.9	Miniature Bayonet	B	C-2R	.78	1.19	3,000	70
17		26099		259	Radio, TV, and Indicator		6.3	.25A	.65	Wedge	B	C-2R	.65 ⁽¹⁴⁷⁾	1.06	5,000 ⁽⁴⁴⁾	71
18		44773	44774	555	Coin, Novelty		6.3	.25A	.9	Wedge	B	C-2R	.65	1.06	3,000	71
19		27868		1866	Radio		6.3	.25A	.65	Miniature Bayonet	B	C-2R	.78	1.19	5,000 ⁽⁴⁴⁾	70
20		25916		147	Indicator		7.0	.43A	2	Wedge	B	C-2R	.56	1.06	1,500	71
21		27179		1408	Signal		10.0	.13A	.85	Miniature Bayonet	B	C-2V ⁽¹³⁾	.62	1.19	250	70
22		16481		892	Auto, Signal – Halogen	306	12.8	1.25A	28	Axial	C	C-6	1.00	2.68	300	72
23	12320		20904	880	Auto Fog. ECE type	306	12.8	2.10A	43 ⁽¹⁶⁰⁾	Axial Prefocus / PG13	C	C-6	1.25	2.68	300	72
				(H27W/1)	H27W/1 ⁽¹⁷⁾		13.5	29W	38		C	C-6	1.25		150	
24			27582	880L*	Auto Fog. ECE type	306	12.8	2.10A	43 ⁽¹⁶⁰⁾	Axial Prefocus	C	C-6	1.25	2.68	300	72
					H27W/1-Long Life ⁽¹⁷⁾											
25			14694	880X	Auto Fog. ECE type	306	12.8	2.10A	43 ⁽¹⁶⁰⁾	Axial Prefocus	C	C-6	1.25	2.68	1,000	72
					H27W/1-Sealed Base ⁽¹⁷⁾											

3. Useful hours.

13. Supported.

17. Filament shielded.

44. At 6.6 volts.

70. These lamps produce a random flashing indication only. While the majority should flash between 40-160 flashes per minute at normal room temperature, some will be outside this range. As ambient temperature and/or input voltage

changes, the flash rate may vary considerably. At rated voltage and room temperature most lamps will flash within 60 seconds.

116. Life tests are performed on DC voltage only.

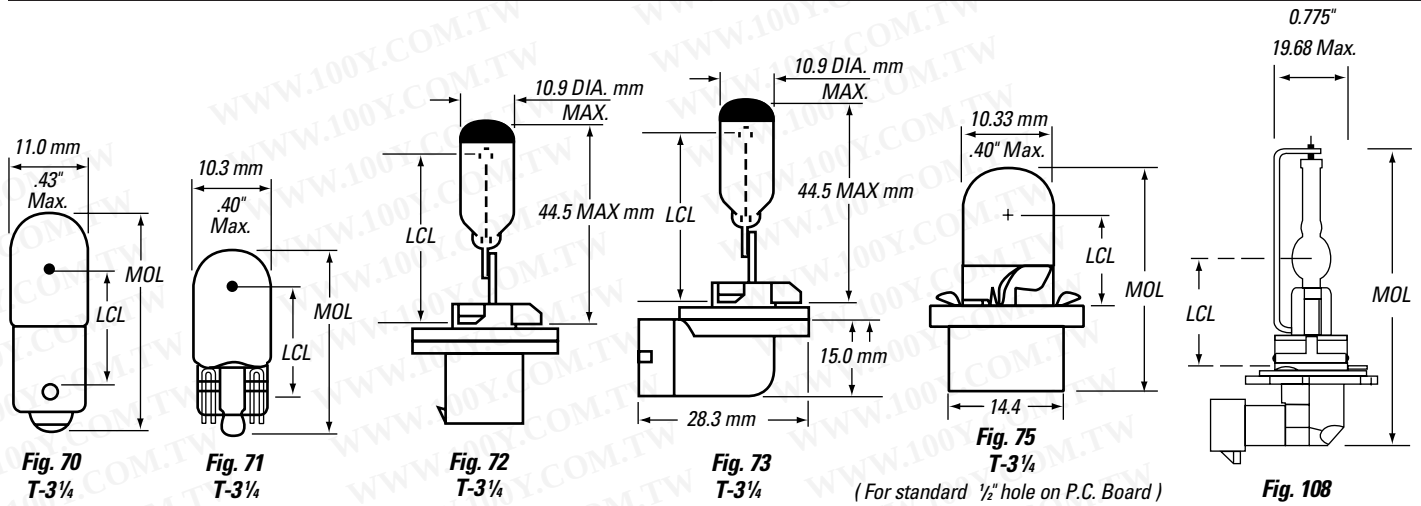
147. Differs from ANSI

160. Filament will generate specified mscp in a non shielded bulb.

304. See page 50.

306. See page 50.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
T-3 3/4 BULB 13/32" (10mm) DIAMETER (continued)																
1	12334		20905	881	Auto Fog. ECE type	306	12.8	2.10A	43 ⁽¹⁶⁰⁾	Right Angle Prefocus /	C	C-6	1.25	2.68	300	73
				(H27W/2)	H27W/2 ⁽¹⁷⁾		13.5	29W	38	PGJ13	C	C-6	1.25		150	
2			27583	881L*	Auto Fog. ECE type	306	12.8	2.10A	43 ⁽¹⁶⁰⁾	Right Angle Prefocus	C	C-6	1.25	2.68	1,000	73
					H27W/2-Long Life ⁽¹⁷⁾											
3			11646	881X	Auto Fog. ECE type	306	12.8	2.10A	43 ⁽¹⁶⁰⁾	Right Angle Prefocus	C	C-6	1.25	2.68	300	73
					H27W/2-Sealed Base ⁽¹⁷⁾											
4	12336		20910	889	Auto – Signal, Halogen	306	12.8	2.10A	43	Right Angle	C	C-6	1.00	2.68	300	73
5	12337		20911	890	Auto – Signal, Halogen	306	12.8	2.10A	43	Axial	C	C-6	1.00	2.68	300	72
6		40848	14132	862	Tractor	306	12.8	2.93A	60	Right Angle Prefocus	C	C-6	1.25	2.68	1,900	73
7	12338		20913	893	Auto Fog ⁽¹⁷⁾	306	12.8	2.93A	75 ⁽¹⁶⁰⁾	Axial Prefocus	C	C-6	1.25	2.68	200 ⁽⁴⁾	72
8			12727	893X	Auto Fog ⁽¹⁷⁾	306	12.8	2.93A	75 ⁽¹⁶⁰⁾	Axial Prefocus	C	C-6	1.25	2.68	200 ⁽⁴⁾	72
9	22112	20238	18455	894	Tractor	306	12.8	2.93A	75	Right Angle Prefocus	C	C-6	1.25	2.68	200 ⁽⁴⁾	73
10			26345	894X*	Tractor-Sealed Base	306	12.8	2.93A	75	Right Angle Prefocus	C	C-6	1.25	2.68	200 ⁽⁴⁾	73
11	22113		20914	896	Auto Fog ⁽¹⁷⁾	306	12.8	2.93A	75 ⁽¹⁶⁰⁾	Right Angle Prefocus	C	C-6	1.25	2.68	200 ⁽⁴⁾	73
12			12271	898	Auto Fog ⁽¹⁷⁾	306	12.8	2.93A	60 ⁽¹⁶⁰⁾	Right Angle Prefocus	C	C-6	1.25	2.68	1,900 ⁽⁴⁾	73
13	22111		12272	899	Auto Fog ⁽¹⁷⁾	306	12.8	2.93A	60 ⁽¹⁶⁰⁾	Axial Prefocus	C	C-6	1.25	2.68	1,900 ⁽⁴⁾	72
14	12335		20907	885	Auto Fog	306	12.8	3.90A	100	Axial Prefocus	C	C-6	1.25	2.68	200 ⁽⁴⁾	72
15	14689		20909	886	Auto Fog	306	12.8	3.90A	100	Right Angle Prefocus	C	C-6	1.25	2.68	200 ⁽⁴⁾	73
16			25639	887	Tractor Work Light	306	12.8	3.90A	95	Axial Prefocus	C	C-6	1.25	2.68	400 ⁽⁴⁾	72
17			25703	888	Tractor Work Light	306	12.8	3.90A	95	Right Angle Prefocus	C	C-6	1.25	2.68	400 ⁽⁴⁾	73
18			41495	9012	Auto Headlamp Low Beam.	304	12.8	55W	135	PX 22D	C	C-8	1.25	2.8	900 ⁽⁴⁾	—
				(HIR2)*	Type HIR2. Halogen Infrared											
19			14776	9011	Auto Headlamp High Beam.	304	12.8	65W	183	PX20D	C	C-8	1.25	3.50	150 ⁽⁴⁾	108
					Type HIR1. Halogen Infrared.											
20			47327	9011X HIR*	Auto Headlamp High Beam.	304	12.8	65W	183	PX20D	C	C-8	1.25	3.50	150 ⁽⁴⁾	108
					Halogen Infrared.											
21	12359	27688		1816	Aircraft and Auto		13.0	.33A	3	Miniature Bayonet	B	C-2V ⁽¹³⁾	.62	1.19	1,000	70
22	27562		35030	W3W	Auto-European ECE		13.5	3W	1.75	Wedge	B	C-2V ⁽¹³⁾	.5	1.06	1,000	71
23		18442	18439	590	Sign Auto Strip Lighting (Xenon)		13.5	.37A	4	Wedge	C	C-2V	.5	1.06	2,000	71
24	25837			3652	Auto-Japanese Vehicles		13.5	.37A	6	Wedge	C	—	—	1.06	700	71
25	27563		37640	W5W	Auto-European ECE		13.5	5W	4	Wedge	C	C-2V ⁽¹³⁾	.5	1.06	300	71
26		39999	40000	658	Indicator		14.0	.08A	0.31	Wedge	B	C-2F	0.56	1.06	15,000	71
27		26593		756	Indicator		14.0	.08A	.31	Miniature Bayonet	B	C-2F	.62	1.19	15,000	70
28	23016	25956	16489	161	Auto, Instrument		14.0	.19A	1	Wedge	B	C-2F	.56	1.06	4,000	71
29			23036	PC161	Auto Instrument		14.0	.19A	1	Printed Circuit Socket	B	C-2F	.45	1.11	4,000	75

4. At 14 volts.

13. Supported.

17. Filament shielded.

160. Filament will generate specified mscp in a non shielded bulb.

304. See page 50.

306. See page 50.

MINIATURE LAMP SPECIFICATION

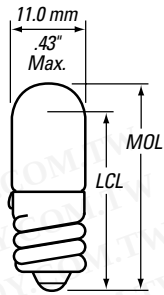


Fig. 69
T-3 1/4

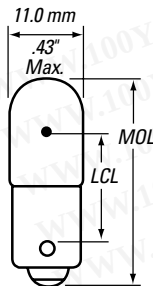


Fig. 70
T-3 1/4

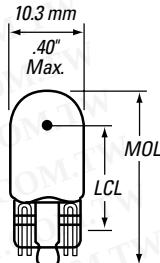


Fig. 71
T-3 1/4

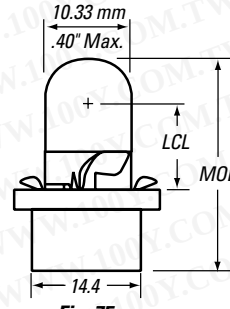


Fig. 75
T-3 1/4

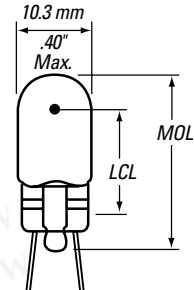


Fig. 111
T-3 1/4

(For standard 1/2 hole on P.C. Board)

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
T-3¼ BULB 13/32" (10mm) DIAMETER (continued)																
1		27356		1487	Indicator		14.0	.20A	1.4	Miniature Screw	B	C-2F	.94	1.19	3,000	69
2		27677	27679	1815	Indicator		14.0	.20A	1.4	Miniature Bayonet	B	C-2F ⁽¹⁴⁷⁾	.75	1.19	3,000	70
3		25931	25933	158	Auto, Instrument, and Indicator		14.0	.24A	2	Wedge	B	C-2V ⁽¹³⁾	.56	1.06	500	71
4		25199	25200	591	Sign Auto Strip Lighting (Xenon)		14.0	.24A	2	Wedge	C	C-2V	.5	1.06	3,000	71
5	12331	27917		1891	Auto, Radio and Indicator		14.0	.24A	2	Miniature Bayonet	B	C-2F	.62	1.19	500	70
6	12328	25965	16303	194	Auto, Instrument		14.0	.27A	2	Wedge	B	C-2F	.56	1.06	2,500	71
7	12356			194B	Auto courtesy – Blue silicone coating ⁽¹³²⁾		14.0	.27A	2	Wedge	B	C-2F	–	1.06	2,500	71
8	12357			194G	Auto courtesy – Green silicone coating ⁽¹³²⁾		14.0	.27A	2	Wedge	B	C-2F	–	1.06	2,500	71
9	12319	44859	27470	194NA	Auto Side marker – Natural Amber bulb		14.0	.27A	1.5	Wedge	B	C-2F	–	1.06	2,500	71
10	47794			194NAXL*	Auto Side marker – Natural Amber bulb – Long Life		14.0	.27A	1.5	Wedge	B	C-2F	–	1.06	5,000	71
11	12355		21618	194R	Auto courtesy – Red silicone coating – Heavy Duty ⁽¹³²⁾		14.0	.27A	2	Wedge	B	C-2F	–	1.06	2,500	71
12	25832			194XL	Auto, Long Life		14.0	.27A	2	Wedge	B	C-2F	.56	1.06	12,000	71
13		27907		1889	Auto – Heavy Duty		14.0	.27A	2	Miniature Bayonet	B	C-2F	.56	1.19	2,000	70
14		72221	23021	PC194	Auto Inst. & Ind., H.D.		14.0	.27A	2	Printed Circuit Socket	B	C-2F	.45	1.11	2,500	75
15		19553	19852	193	Heavy Duty Truck		14.0	.33A	2	Wedge	B	C-2F	.56	1.06	15,000	71
16			19921	193E	Heavy Duty Truck – 9/16" leads up		14.0	.33A	2	Wedge, Wire Terminal ⁽¹²²⁾	B	C-2F	.56	1.06	15,000	111
17			11807	193E-1	Truck Clearance – 9/16" leads up		14.0	.33A	2	Wedge, Wire Terminal ⁽¹²²⁾	B	C-2F	–	1.06	15,000	111
18	12332	27935	27937	1893	Auto – Heavy Duty		14.0	.33A	2	Miniature Bayonet	B	C-2F	.62	1.19	7,500	70
19	12327	25962	16302	168	Auto Instrument		14.0	.35A	3	Wedge	B	C-2F	.56	1.06	1,500	71
20	47827			168XL*	Auto Instrument-Long Life		14.0	.35A	3	Wedge	B	C-2F	.56	1.06	3,000	71
21			44964	2286D	Auto/Truck		14.0	.35A	2.7	Wire Term Down	B	C-2F	–	1.05	1,500	–
22		27222	23037	PC168	Auto Instrument		14.0	.35A	3	Printed Circuit Socket	B	C-2F	.45	1.11	1,500	75
23		27667		1813	Radio		14.4	.10A	.86	Miniature Bayonet	B	C-2V ⁽¹³⁾	.62	1.19	1,000	70
24		27927		1892	Auto and Indicator		14.4	.12A	.75	Miniature Bayonet	B	C-2F	.62	1.19	1,000	70
25		27707		1818	Aircraft		24.0	.17A	3.3	Miniature Bayonet	B	C-2F ⁽¹⁴⁷⁾	.62	1.19	250	70
26		27816		1843	Indicator ⁽¹⁵⁾		28.0	.022A	.2	Miniature Bayonet	B	C-2F	.62	1.19	3,000	70
27		27711	27712	1819	Indicator		28.0	.04A	.34	Miniature Bayonet	B	C-2F	.62	1.19	2,500	70
28		38866		656	Indicator		28.0	.06A	.62	Wedge	B	C-2F	.56	1.06	2,500	71
29		27776		1829	Indicator		28.0	.07A	1	Miniature Bayonet	B	C-2F	.62	1.19	1,000	70
30		38196		657	Indicator		28.0	.08A	.62	Wedge	B	C-2F	.56	1.06	15,000 ⁽⁷⁹⁾	71

13. Supported.

15. This lamp is specially designed for a particular purchaser and may not be suitable for other uses because of its limited mechanical strength.

79. Life shown is AC voltage only. DC life will be approx. 50% of AC.

122. This is a wire terminal lamp. The glass-to-metal seal (and tip where applicable) are susceptible to damage by thermal shock, and soldering or welding within 1/8" of the glass should be avoided as glass cracks and air leaks may develop.

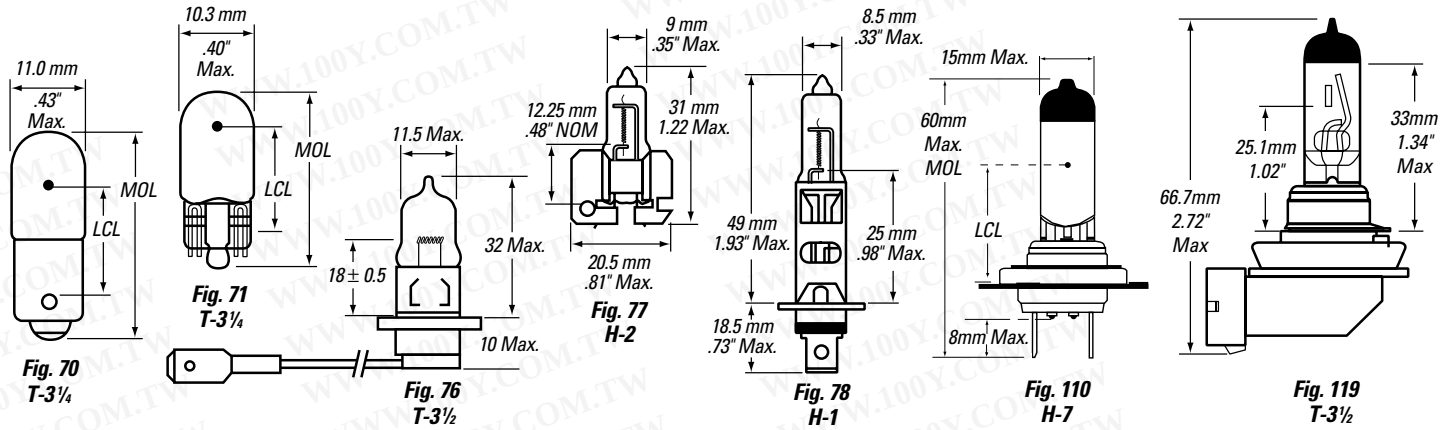
36 Solderability may be adversely affected by storage for an extended period in

excess of six months or by storage in a high humidity environment. Lamps with tinned leads would be subject to these storage restrictions. Nickel-plated leads are not recommended for soldering; however, their ability to be welded is not affected by these storage restrictions.

132. Paint may peel, craze or discolor when subjected to excessive moisture, heat, and freezing in housings with plugged drain holes or which otherwise leak or trap moisture.

147. Differs from ANSI.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code Blister Pack Unit Pack Bulk Pack	GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
T-3/4 BULB ¹³/₃₂" (10mm) DIAMETER (continued)														
1	26599	757	Indicator		28.0	.08A	.62	Miniature Bayonet	B	C-2F	.62	1.19	15,000 ⁽⁷⁹⁾	70
2	38918	400	Aircraft		28.0	.10A	1.6	Wedge	B	C-2F	.56	1.06	1,000	71
3	27727	1820	Indicator		28.0	.10A	1.6	Miniature Bayonet	B	C-2F	.62	1.19	1,000	70
4	26212	26214 313	Aircraft		28.0	.17A	3.5	Miniature Bayonet	B	C-2F	.62	1.19	500	70
5	39645	464	Aircraft		28.0	.17A	3	Wedge	B	C-2F	.56	1.06	1,500	71
6	27862	27863 1864	Aircraft		28.0	.17A	3	Miniature Bayonet	B	C-2F	.62	1.19	1,500	70
7	40383	1873	Aircraft		28.0	.20A	3	Miniature Bayonet	B	C-2F	.62	1.19	7,000	70
8	27749	1822	Indicator		36.0	.10A	2.1	Miniature Bayonet	B	C-2F	.62	1.19	1,000	70
9	27772	1828	Indicator		37.5	.05A	.65	Miniature Bayonet	B	C-2F	.62	1.19	3,000	70
10	27804	1835	Indicator		55.0	.05A	1.1	Miniature Bayonet	B	C-2F	.62	1.19	5,000	70
TL-3/4 BULB ¹³/₃₂" (10mm) DIAMETER														
11	38269	558	Auto and Indicator Lens end ⁽⁶⁸⁾		13.0	.33A	—	Wedge	C	C-2V ⁽¹³⁾	—	1.06	500	71
T-3 1/2 BULB ⁷/₁₆" (11.5mm) DIAMETER														
12		23442 50390 (H3-35)	C.I.M. H3-35W 12V	308	13.2	40W	60	PK22S	C	C-6	.71	1.65	200	76
13		15765 H8*	Auto ECE Fog	308	13.2	40W	64	PGJ19-1	C	C-8	1.06	2.63	400 ⁽²⁾	119
14		15828 H11*	Auto ECE Low Beam	308	13.2	55W	107	PGJ19-2	C	C-8	1.07	2.63	550 ⁽²⁾	119
15		15963 H11LL*	Auto ECE Low Beam	308	13.2	55W	107	PGJ19-2	C	C-8	1.07	2.63	1,400 ⁽⁴⁾	119
16	26374	35755 58520 (H7-55)	Auto ECE, DOT H7, 55W 12V	308	13.2	56.5W	115	PX26D	C	C-8	.98	2.36	500	110
17	40336	27328 32376 50310/1 (H1-55)	Auto ECE H1-55W 12V	308	13.2	62W	123	P14.5S	C	C-8	1.08	2.66	225	78
18	12339	27331 22132 50340 (H3-55)	Auto ECE H3-55W 12V	308	13.2	62W	115	PK22S	C	C-6	.71	1.65	225	76
19		23445 50340HD (H3-55)	C.I.M. H3-55W 12V	308	13.2	62W	111	PK22S	C	C-6	.71	1.65	600	76
20		27330 22130 50410 (H2-55)	Auto ECE H2-55W 12V	308	13.2	62W	143	X511	C	C-8	.48	1.22	225	77
21		35044 50340LL (H3-55)	Auto ECE H3-55W 12V Long Life	308	13.2	64W	106	PK22S	C	C-6	.71	1.65	2,000	76
22		15827 H9*	Auto ECE High Beam	308	13.2	65W	167	PGJ19-5	C	C-8	1.08	2.63	125 ⁽²⁾	119
23	12341	52130 (H3-100)	Off Road Auxiliary H3-100W 12V	308	13.2	92W	187	PK22S	C	C-6	.71	1.65	100	76
24		27329 52140 (H1-100)*	Off Road Auxiliary H1-100W 12V	308	13.2	100W	219	P14.5S	C	C-8	1.08	2.66	100	78
25		23428 52590HD	C.I.M. H3-65W 24V	308	28.0	66W	102	PK22S	C	C-6	.71	1.65	1,000	76
26		23438 50350	C.I.M. H3-70W 24V	308	28.0	75W	135	PK22S	C	CC-6	.71	1.65	225	76
27		27569 50320/1	Auto. ECE H1 -70W 24V	308	28.0	80W	151	P14.5S	C	C-8	1.08	2.46	600	78

2. B₃ life, not average life.

4. At 14 volts.

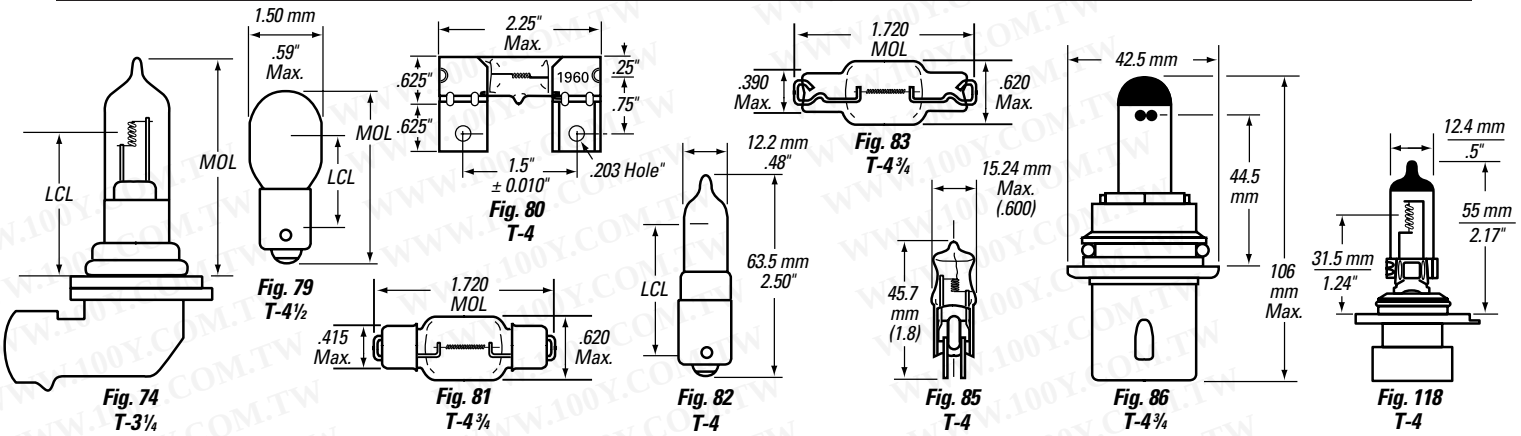
13. Supported.

68. Uses lens-end TL-3/4 bulb. Provides 7,000 to 11,000 foot-candles in a 1/4" diameter spot at 1/8" from end of bulb.

79. Life shown is AC voltage only. DC life will be approx. 50% of AC.

308. See page 50.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./ C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
T-4 BULB 1/2" (13mm) DIAMETER																
1		39718		1983	Aircraft – Navigation – Quartz bulb	304	10.0	100W	130	Two Pin	C	C-8	1.25	1.80	2,000	85
2	40843		37735	9145 (H10)*	Auto Fog ECE H10	306	12.8	45W	65	PY20D	C	C-8	1.24	3.01	1,500 ⁽⁴⁾	
3		20469		795	Signal – Halogen	306	12.8	50W	108	S.C. Bayonet	C	C-6	1.25	2.50	200 ⁽⁴⁾	82
4	18510	13397	14711	9006/HB4	Auto Headlamp, Low Beam. Type HB4	306	12.8	55W	80	Right Angle Plastic, Prefocus	C	C-8	1.24	3.13	850 ⁽⁴⁾	74
5	47640			9006HO*	Auto Headlamp. Low Beam. HB4. Higher Output	306	12.8	55W	80	Right Angle Plastic, Prefocus	C	C-8	1.24	3.13	1000 ⁽⁴⁾	74
6	45473			9006SB*	Auto Headlamp. Low Beam. HB4. Coated for White Light	306	12.8	55W	80	Right Angle Plastic, Prefocus	C	C-8	1.24	3.13	320 ^(4, 75)	74
7	45868			9006XSL*	Auto Headlamp, Low Beam. Type HB4A. Axial Base	306	12.8	55W	80	Axial Plastic Prefocus	C	C-8	1.24	3.13	2,000 ⁽⁴⁾	118
8	18509	13384	14710	9005/HB3	Auto Headlamp. High Beam. Type HB3	306	12.8	65W	135	Right Angle Plastic, Prefocus	C	C-8	1.24	3.13	800 ⁽⁴⁾	74
9	45472			9005SB*	Auto Headlamp. High Beam. HB3. Coated for White Light	306	12.8	65W	135	Right Angle Plastic, Prefocus	C	C-8	1.24	3.13	150 ^(4, 75)	74
10	45866			9005XSL*	Auto Headlamp. High Beam. Type HB3A. Axial Base.	306	12.8	65W	135	Axial Plastic Prefocus	C	C-8	1.24	3.13	700 ⁽⁴⁾	118
11		28011		1958	Aircraft – Quartz bulb – Halogen	304	28.0	150W	250	Tab	C	CC-8	.75	2.25	300	80
12		47695		1987	Aircraft – Quartz bulb	304	28.0	150W	240	D.C. Bayonet	C	CC-6	1.18	2.44	700	–
13		44717		1986	Aircraft – Quartz bulb	304	28.0	250W	600	Wire Terminal	C	CC-6	1.03	2.00	100	–
14			19566	2586	Aircraft – Quartz bulb	304	28.0	250W	600	S.C. Prefocus Collar Two Pin with Insulation Leads	C	CC-6	1.30	1.90	100	–
T-4 1/2 BULB 3/16" (14mm) DIAMETER																
15		27392		1495	Aircraft ⁽¹⁴⁾		28.0	.30A	6	Miniature Bayonet	B	C-2F	.62	1.38	500	79
16		44842		1495X	Aircraft – Gas filled		28.0	.30A	6	Miniature Bayonet	C	C-2F	.62	1.38	500	79
T-4 3/4 BULB 1/32" (15.2mm) DIAMETER																
17	23020			577	Auto		12.8	1.40A	21	Double End Cap	C	C-8	–	1.72	1,000	81
18	12672			570	Truck Bed Light		12.8	2.10A	32	Rigid Loop	C	C-8	–	1.72	600	83
19	18508	13382	18699	9004/HB1	Auto Headlamp High/Low Beam. Type HB1	306	12.8	65W	95 ⁽¹⁶¹⁾	Axial Plastic Prefocus	C	C-6	–	4.17	150 ⁽⁴⁾	86
							12.8	45W	55 ⁽¹⁶¹⁾			C-6	1.75	–	320	
20	27561			9004HO*	Auto Headlamp High/Low Beam. HB1. Higher output.	306	12.8	65W	95 ⁽¹⁶¹⁾	Axial Plastic Prefocus	C	C-6	–	4.17	150 ⁽⁴⁾	86
							12.8	42W	56 ⁽¹⁶¹⁾			C-6	1.75	–	640	
21	45471			9004SB*	Auto Headlamp High/Low Beam. HB1. Coated for White Light.	306	12.8	65W	95 ⁽¹⁶¹⁾	Axial Plastic Prefocus	C	C-6	–	4.17	40 ⁽⁴⁾	86
							12.8	45W	56 ⁽¹⁶¹⁾			C-6	1.75	–	200	
22	13993	11249	20559	9004XL	Auto Headlamp Long Life High/Low Beam. HB1	306	12.8	65W	95 ⁽¹⁶¹⁾	Axial Plastic Prefocus	C	C-6	–	4.17	150 ⁽⁴⁾	86
							12.8	47W	55 ⁽¹⁶¹⁾			C-6	1.75	–	850	

4. At 14 volts.

75. Estimated. Based on limited test information.

161. MSCP measured with black top.

304. See page 50.

306. See page 50.

MINIATURE LAMP SPECIFICATION

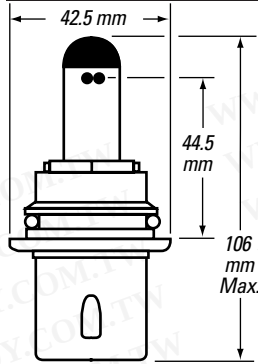


Fig. 86
T-4 3/4

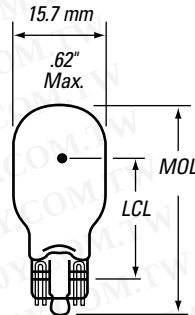


Fig. 87
T-5

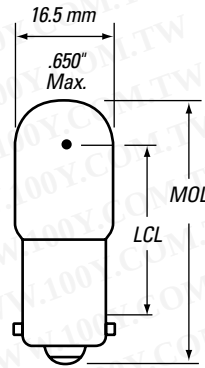


Fig. 88
T-5

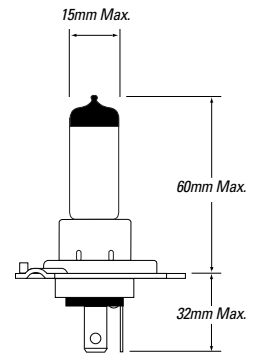


Fig. 107
T-5

Line No.	Order Code Blister Pack	Unit Pack	Bulk Pack	GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
T-4 3/4 BULB 19/32" (15.2mm) DIAMETER (continued)																
1	22388	20551		9007/HB5	Auto Headlamp High/Low Beam. Type HB5.	306	12.8	65W	107 ⁽¹⁶¹⁾	Axial Plastic Prefocus	C	C-8	—	4.17	150 ⁽⁴⁾	86
2	47642			9007/H0*	Auto Headlamp High/Low Beam. HB5. Higher Output.	306	12.8	65W	107 ⁽¹⁶¹⁾	Axial Plastic Prefocus	C	C-8	—	4.17	150 ⁽⁴⁾	86
3			10209	9007/LL	Auto Headlamp High/Low Beam. HB5. Long life	306	12.8	65W	107 ⁽¹⁶¹⁾	Axial Plastic Prefocus	C	C-8	—	4.17	150 ⁽⁴⁾	86
4	45474			9007/SB*	Auto Headlamp High/Low Beam. HB5. Coated for White Light	306	12.8	65W	107 ⁽¹⁶¹⁾	Axial Plastic Prefocus	C	C-8	—	4.17	110 ⁽⁴⁾	86
5	22432	22389	14542	9003/HB2	Auto Headlamp High/Low Beam. Type HB2/H4	306	12.8	67W	119	P43T-38	C	C-8	1.12	3.62	150 ⁽⁴⁾	107
6	45470			9003/SB*	Auto Headlamp High/Low Beam. Coated for White Light.	306	12.8	67W	119	P43T-38	C	C-8	1.12	3.62	80 ⁽⁴⁾	107
T-5 BULB 5/8" (16mm) DIAMETER																
7		27889		1876	Photoelectric Scanner – Silver Plated contact (A.A. tol. 1/64")		3.5	2.50A	6.5	S.C. Bayonet	C	C-6	1.12	1.75	2,000	88
8		27193		1434	Instrument, Photocell exciter – Silver Plated contact		3.7	2.75A	11	S.C. Bayonet	C	C-6	1.12	1.75	100	88
9		44769		914	Emergency Lighting		4.0	.90A	3.5	Wedge	C	C-6	0.75	1.49	50	87
10		13483		926	Emergency Lighting		4.0	1.80A	7.5	Wedge	C	C-2R	0.81	1.49	50	87
11		44756	44757	909	Emergency Lighting		6.0	.62A	3	Wedge	C	C-2R	0.81	1.49	50	87
12		16975	15285	939	Emergency Lighting		6.0	.90A	5.4	Wedge	C	C-2R	0.81	1.49	50	87
13		13485	13486	927	Emergency Lighting		6.0	1.20A	8	Wedge	C	C-2R	0.81	1.49	50	87
14		44754	44755	908	Emergency Lighting		6.0	1.50A	12	Wedge	C	C-2R	0.81	1.49	50	87
15		44771	44772	915	Emergency Lighting		12.0	.75A	11	Wedge	C	C-2R	0.81	1.49	50	87
16	14273		14007	901	Garden & Security Lighting		12.8	.31A	2.9	Wedge	C	C-2R	0.81	1.49	500	87
17	40675			901A*	Garden & Security Lighting – Amber/Yellow Coating		12.8	.31A	-	Wedge	C	C-2R	0.81	1.49	500	87
18	40179	17837	14008	918	Garden & Security Lighting		12.8	.56A	6.5	Wedge	C	C-2R	.81	1.49	500	87
19	40180			923	Garden & Security Lighting		12.8	.91A	12.5	Wedge	C	C-2R	.81	1.49	500	87
20	23027	13274	13275	922	Auto – Heavy Duty		12.8	.98A	15	Wedge	C	C-2R	.81	1.49	200	87
21	12365	40504	40505	912	Auto – Heavy Duty		12.8	1.00A	12	Wedge	C	C-2R	.81	1.49	1,000	87
22	26199			920	Auto		12.8	1.20A	10	Wedge	C	—	.81	1.49	1,200	87
23	12307	43374	11743	921	Auto – Heavy Duty ⁽¹²¹⁾		12.8	1.40A	21	Wedge	C	C-2R	.81	1.49	500	87
24	23026	21860		916NA	Auto, Side Marker, Natural Amber		13.0	.54A	1.5	Wedge	C	C-2F	.81	1.49	10,000	87
25	12366	40289	40290	906	Auto – Heavy Duty		13.0	.69A	6	Wedge	C	C-2F	.81	1.49	1,000	87
26			48505	906A*	Auto, Side Signal-Amber/ Yellow Coating		13.0	.69A	-	Wedge	C	C-2F	.81	1.49	1,000	87

4. At 14 volts.

75. Estimated. Based on limited test information.

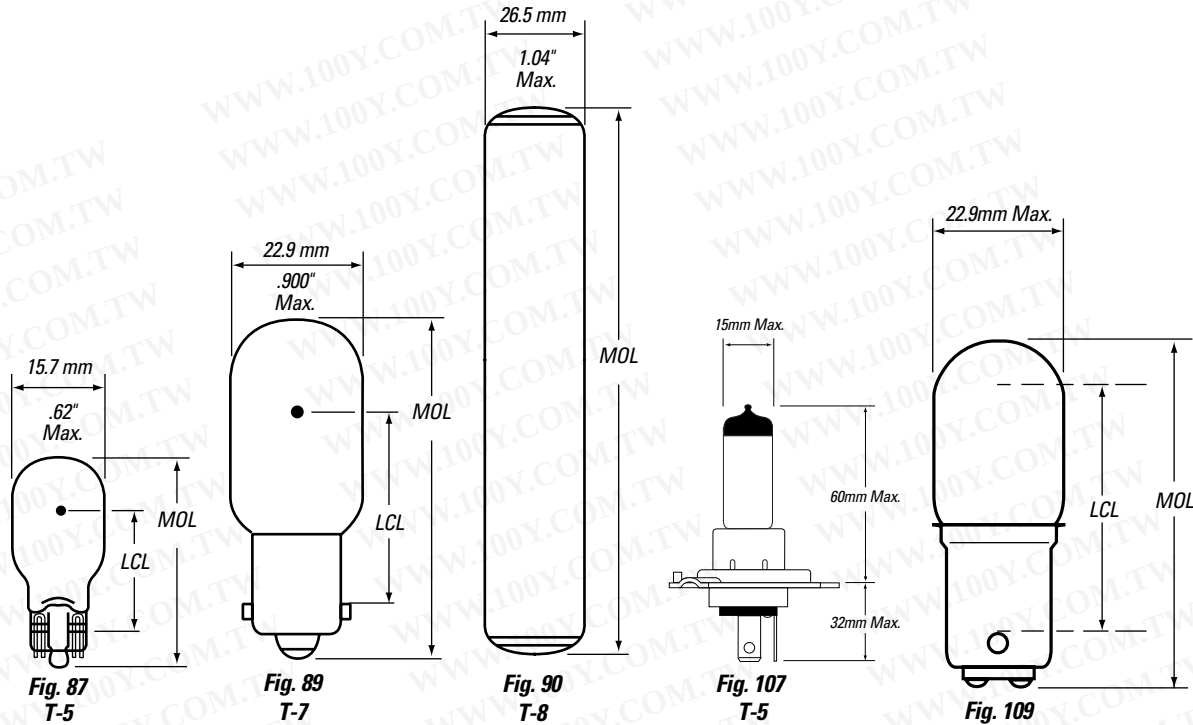
121. To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above

Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.

161. MSCP measured with black top.

306. See page 50.

MINIATURE LAMP SPECIFICATION



Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
T-5 BULB 5/8" (16mm) DIAMETER (continued)																
1	18132	27334	22133	50440 (H4-60/55)	Auto ECE H4-12V 60/55W	306	13.2	71W	138	P43T-38	C	C-8	1.12	3.62	225	107
							13.2	66W	80			C-8			900	
2	23025	16289	16288	916	Auto, Side Marker		13.5	.54A	2	Wedge	C	C-2F	.81	1.49	10,000	87
3	23024	40462	40463	904	Auto – Heavy Duty		13.5	.69A	4	Wedge	C	C-2F	.81	1.49	5,000 ⁽⁴⁾	87
4			26353	W16W	Auto ECEW16W ⁽¹²¹⁾		13.5	1.44A	24.6	Wedge	C	C-2F	.81	1.49	250	87
5		27342	30833	50450 (H4-75/ 70/28V)	Bus ECE H4 H4-24V 75/70W	308	28.0	80W	151	P43T-38	C	C-8	1.14	3.62	150	107
							28.0	73W	95			C-8			300	
T-7 BULB 7/8" (20mm) DIAMETER																
6	25834			3496	Auto Stop, Tail		12.8	2.10A	43	D.C. Index	C	C-6	–	2.00	600	109
					Japanese Vehicles		14.0	.59A	3			C-6			5,000	
7	25835			3497	Auto Stop, Signal		12.8	2.10A	45	S.C. Bayonet	C	C-6	–	2.00	600	89
					Japanese Vehicles											
8	26200			7440	Auto Stop, Signal		13.5	1.85A	37	Wedge / 103 x 16DQ	C	C-6	–	1.75	300	–
					Japanese Vehicles											
9	26201		10014	7443	Auto Stop, Tail		13.5	1.85A	35	Wedge / 103 x 16DQ	C	C-6	–	1.75	500	–
					Japanese Vehicles		13.5	0.4A	3			C-6			1,000	
10		28008		1940	Aircraft Marker		14.0	3.57A	75	S.C. Bayonet	C	C-8Z	1.25	2.16	300	89
11		37034		1944	Special Service – Silver contact		14.0	3.57A	75	S.C. Bayonet	C	C-8Z	1.25	2.25	300	89
12		34021		1939X	Aircraft Marker		28.0	1.79A	70	S.C. Bayonet	C	C-2V ⁽¹³⁾	1.25	2.16	300	89
T-8 BULB 1" (22mm) DIAMETER																
13		12571		ML20/ OF-28	Aircraft – Lumiline – Inside Frosted		28.0	20W	–	Disk	B	2C-8	–	5.75 ⁽¹²⁾	500	90

4. At 14 volts.

12. Average overall length.

13. Supported.

121. To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above

Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.

306. See page 50.

308. See page 50.

MINIATURE LAMP SPECIFICATION

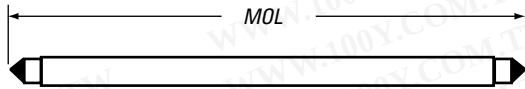


Fig. 93
T-5

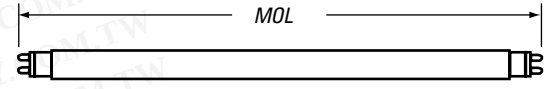


Fig. 94
T-5

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Approx. Lumens**	Base	Bulb	Nominal Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack											
ELECTRIC DISCHARGE LAMPS – FLUORESCENT T-5 BULB 5/8" (16mm) DIAMETER***														
1		28154		5004CW	Aircraft – Cool White	309	A.C.	4W	150	Miniature Pinless	T5	6.00	7,500 ⁽¹⁶²⁾	93
2		28155		5004WW	Aircraft – Warm White	309	A.C.	4W	140	Miniature Pinless	T5	6.00	7,500 ⁽¹⁶²⁾	93
3		27367		5104CW*	Aircraft – Cool White	309	A.C.	4W	150	Miniature Bi-Pin	T5	6.00	7,500 ⁽¹⁶²⁾	94
4		28173		5104WW	Aircraft – Warm White	309	A.C.	4W	140	Miniature Bi-Pin	T5	6.00	7,500 ⁽¹⁶²⁾	94
5		12774		5106CW	Aircraft – Cool White	309	A.C.	6W	310	Miniature Bi-Pin	T5	9.00	7,500 ⁽¹⁶²⁾	94
6		33612		5106WW	Aircraft – Warm White	309	A.C.	6W	300	Miniature Bi-Pin	T5	9.00	7,500 ⁽¹⁶²⁾	94
7		28160		5008CW	Aircraft – Cool White	309	A.C.	8W	445	Miniature Pinless	T5	12.00	7,500 ⁽¹⁶²⁾	93
8		28163		5008WW	Aircraft – Warm White	309	A.C.	8W	435	Miniature Pinless	T5	12.00	7,500 ⁽¹⁶²⁾	93
9		27466		5108CW*	Aircraft – Cool White	309	A.C.	8W	445	Miniature Bi-Pin	T5	12.00	7,500 ⁽¹⁶²⁾	94
10		28175		5108WW	Aircraft – Warm White	309	A.C.	8W	435	Miniature Bi-Pin	T5	12.00	7,500 ⁽¹⁶²⁾	94
11		28168		5013CW	Aircraft – Cool White	309	A.C.	13W	820	Miniature Pinless	T5	21.00	7,500 ⁽¹⁶²⁾	93
12		28169		5013WW	Aircraft – Warm White	309	A.C.	13W	790	Miniature Pinless	T5	21.00	7,500 ⁽¹⁶²⁾	93
13		12775		5113CW	Aircraft – Cool White	309	A.C.	13W	820	Miniature Bi-Pin	T5	21.00	7,500 ⁽¹⁶²⁾	94
14		28178		5113WW	Aircraft – Warm White	309	A.C.	13W	790	Miniature Bi-Pin	T5	21.00	7,500 ⁽¹⁶²⁾	94

162. Based on three hours of burning per start.

309. See page 50.

** Measured at 100 hours.

*** Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary equipment specially designed to produce proper electrical values conforming to established specification. For total load, add auxiliary watts to lamp watts.

CENTRAL DISCHARGE LAMP SPECIFICATION

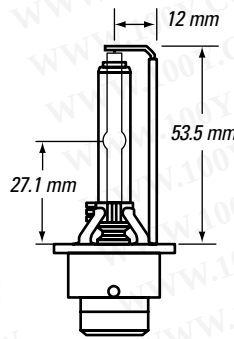


Fig. 117
T-3

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Atmosphere B-Vac./C-Gas	Filament Designation	Light Center Length (in.)	Max. Overall Length (in.)	Rated Average Lab Life (Hours)	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack													
ELECTRIC DISCHARGE LAMPS – HEADLAMP T-3 BULB 3/8" (9.5mm) DIAMETER																
15			16124	D2R*	Auto Low Beam Reflector System ⁽¹⁾	308	85	35W	114	P32d-2	C	—	1.06	3.09	1,000 ⁽²⁾	117
16			15999	D2S*	Auto Low Beam Projector System ⁽¹⁾	308	85	35W	254	P32d-2	C	—	1.06	3.09	1,000 ⁽²⁾	117

1. Special ballast required per ECE R99.

2. B₃ life, not average life.

NEON GLOW INDICATOR LAMPS

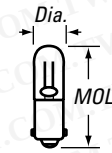


Fig. 96

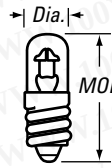


Fig. 97

Line No.	Order Code			GE Lamp No.	Circuit Volts AC or DC	Nom. Watts	Nom. Current	Base	Maximum Overall Length in. (mm)	Average Useful Life (Hours)	Series# Resistance (Ohms)	Footnotes	Fig. No.
	Blister Pack	Unit Pack	Bulk Pack										
T-3¼ APPROX. 13/32" (10mm) DIAMETER													
1		12064		B1A (NE-51)	105-125	1/25	.0003A	Miniature Bayonet	13/16 (30.2)	15,000	220K	164	96
2		12065		B2A (NE-51H)	105-125	1/7	.0012A	Miniature Bayonet	13/16 (30.2)	25,000	47K	164	96
T-4½ APPROX. 9/16" (14mm) DIAMETER													
3		31675		B7A (NE-45)	105-125	1/4	.002A	Candelabra Screw	117/32 (38.9)	7,500	30K	164	97

164. Life to approximately 50% of initial output. Values shown apply to use on AC unless otherwise shown. Life on DC is approximately 60% of AC values when DC current is equal to R.M.S. (Root Mean Square) AC value. When equal DC

and R.M.S. AC voltages and equal resistances are utilized, life will be approximately the same.

FESTOON TYPE, AUTO & SPECIAL SERVICE LAMPS

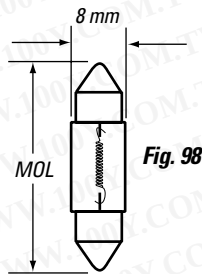


Fig. 98

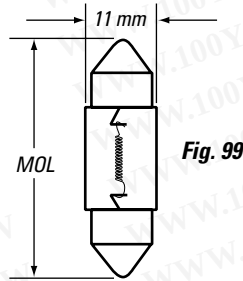


Fig. 99

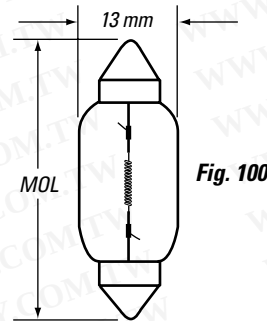
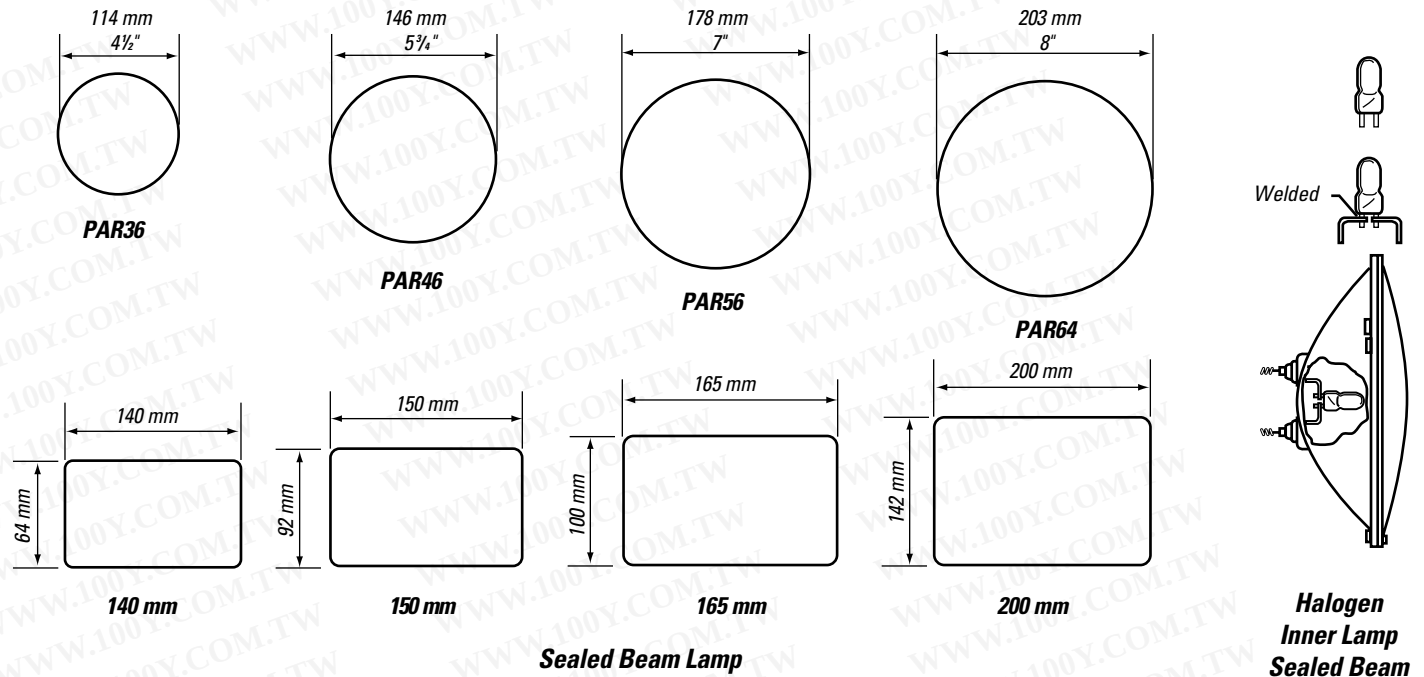


Fig. 100

	Order Code			GE Lamp No.	Primary Application	Design Volts	Design Watts or Amps	Mean Spherical CP (Approx.)	Base	Base Marking	Atmos- phere B-Vac/ C-Gas	Max. Overall Length in. (mm)	Rated Average Lab Life (Hours)	Fig. No.
Line No.	Blister Pack	Unit Pack	Bulk Pack											
Festoon Type, Auto & Special Service Lamps														
4	23312		30872	C5W	Auto. ECE C5W	13.5	.37A	3.6	SV8.5/8	12V 5W-C5W	B	1.45 36	450	99
5	25323			DE3021	Dome & Courtesy	14.0	.24A	2	SV7MM	12V 3W	B	1.15 28	1,000	98
6	12353			DE3022	Dome & Courtesy	13.0	.38A	3	SV7MM	12V 5W	B	1.18 29	1,000	98
7	12354	12084		DE3175	Dome & Courtesy	13.0	.77A	9.55	SV8.5MM	12V 10W	B	1.25 31	400	99
8		12085		DE3425	Dome & Courtesy	13.0	.77A	9.55	SV8.5MM	12V 10W	B	1.50 37	400	100
9	23324			DE7576	Strip. Auto DIN 72601K	13.5	.74A	9.8	SV8.5/8	12V 10W	C	1.65 41	200	99

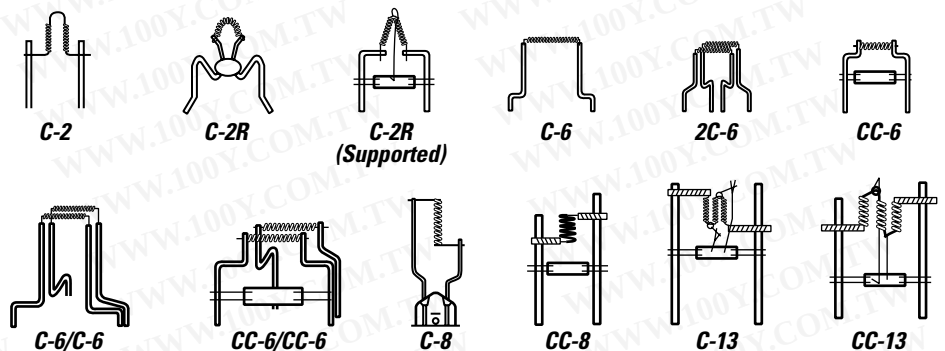
SEALED BEAM, FILAMENTS & BASES (Typical)

Bulbs



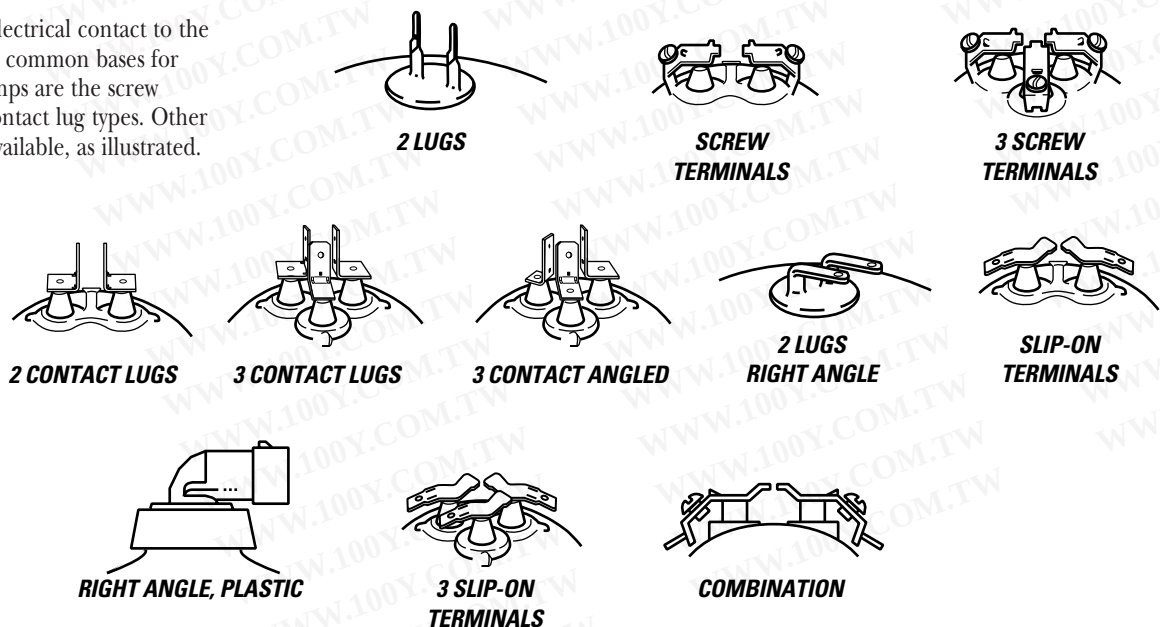
Filaments

Filaments for sealed beam lamps may be a coil (C) or a coiled coil (CC) wire. Coiling the filament wire reduces gas losses and increases efficiency. The number following the coil identification letter(s) denotes the arrangement of the filament on the supports.



Bases

Bases provide electrical contact to the lamp. The most common bases for sealed beam lamps are the screw terminal and contact lug types. Other types are also available, as illustrated.



SEALED BEAM LAMP SPECIFICATIONS

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Approx. Initial Max. Beam C.P.	Approx. Total Spread to 10% Max. C.P. – Degrees		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
	Blister Pack	Unit Pack	Bulk Pack							Horiz.	Vert.				mm	(in.)
RECTANGULAR 72mm x 140mm (2.8 in x 5.5 in)																
1			18350	H4360	Tractor	307	12.8	37.5W	2,000	Trapezoidal		320	2 Right Angle Lugs	C-6	76	3.00
2			41453	H5360*	Halogen Tractor Work Light	307	12.8	37.5W	2,000	Trapezoidal		900	2 Right Angle Lugs	C-6	76	3.00
3		22386		H4351	Auto Headlamp Low Beam Type K	307	12.8	55W	SAE Specifications			500	Right Angle, Plastic	C-8	102	4.00
4		10211		H4351LH*	Headlamp – Left Hand Drive – Export only	307	12.8	55W	—			500	Right Angle, Plastic	C-8	102	4.00
5		22387		H4352	Auto Headlamp, Upper Beam Type K	307	12.8	65W	SAE Specifications			150	Right Angle, Plastic	C-8	102	4.00
RECTANGULAR 92mm x 150mm (3.6 in x 5.9 in)																
6		16484	16483	H9415	Auto, Fog – Halogen	307	12.8	37.5W	12,000	45	5	200 ⁽⁴⁾	2 Right Angle Lugs	C-6	76	3.00
7		17988		H9415A	Auto Fog Amber	307	12.8	37.5W	—	45	5	200 ⁽⁴⁾	2 Right Angle Lugs	C-6	76	3.00
8		15767	15763	H9405	Spotlamp, Halogen	307	12.8	50W	100,000	7	4	100	2 Right Angle Lugs	C-6	76	3.00
9		15769	15768	H9406	Tractor, Flood, Halogen	307	12.8	50W	1,350	70	30	400 ⁽⁴⁾	2 Right Angle Lugs	C-6	76	3.00
10		15771	15770	H9411	Tractor, Trapezoidal, Halogen	307	12.8	50W	5,400	Trapezoidal		400 ⁽⁴⁾	2 Right Angle Lugs	C-6	76	3.00
11			15772	H9414	Tractor, Emergency Lighting, Medium Flood, Halogen	307	12.8	50W	2,700	45	20	400 ⁽⁴⁾	2 Right Angle Lugs	C-6	76	3.00
12		16976	16978	H9420	Auto, Driving – Halogen	307	12.8	50W	47,000	15	5	200 ⁽⁴⁾	2 Right Angle Lugs	C-6	76	3.00
13		16482		H9421	Auto, Truck, Special Service – Halogen ⁽¹⁰⁹⁾	307	12.8	50W	4,000	45	8	200 ⁽⁴⁾	2 Right Angle Lugs	C-6	76	3.00
14		18538	48534	H4703	Auto Headlamp, Low Beam Type LF	307	12.8	55W	SAE Specifications			320	2 Lugs	C-8	85	3.40
15		18536	48533	H4701	Auto Headlamp High Beam Type UF	307	12.8	65W	SAE Specifications			150	2 Lugs	C-8	85	3.40
RECTANGULAR 100mm x 165mm (4.2 in x 6.5 in)																
16		18533	49810	H4656	Auto Headlamp, Low Beam, Type 2A1	HI LO	307 12.8	35W 35W	SAE Specifications			200 ⁽⁴⁾ 320 ⁽⁴⁾	3 Contact Lugs	C-6 C-6	121	4.80
17		18518		4652	Auto Headlamp, Low Beam, Type 2A1	HI LO	307 12.8	40W 60W	SAE Specifications			200 ⁽⁴⁾ 320 ⁽⁴⁾	3 Contact Lugs	C-6 C-6	121	4.80
18		14753		H4656H0	Auto Headlamp, Low Beam, Type 2A1. Higher output	HI LO	307 12.8	40W 55W	SAE Specifications			200 ⁽⁴⁾ 700	3 Contact Lugs	C-8 C-8	121	4.80
19		45475		H4656SB*	Auto Headlamp, Low Beam, Type 2A1. Coated for White Light	HI LO	307 12.8	40W 55W	SAE Specifications			75 ⁽⁴⁾ 200	3 Contact Lugs	C-8 C-8	121	4.80
20		19412	19557	H5062	Truck Headlamp, High/Low Beam, Type 2A1. Long Life.	HI LO	307 12.8	40W 55W	SAE Specifications			400 ⁽⁴⁾ 2,000 ⁽⁴⁾	3 Contact Lugs	C-6 C-6	121	4.80
21		18517	41861	4651	Auto Headlamp, High Beam, Type 1A1		307 12.8	50W	SAE Specifications			200 ⁽⁴⁾	2 Contact Lugs	C-6	121	4.80
22		45110	45111	4912-1	Auto/Truck Fog		307 12.8	50W	14,000	40	7	300	Slip-on Terminals	C-6	115	4.53
23			45113	4913-1	Farm Tractor, Flood		307 12.8	50W	1,350	80	20	400 ⁽⁴⁾	Slip-on Terminals	C-6	115	4.53
24		18532	45027	H4651	Auto Headlamp, High Beam, Type 1A		307 12.8	50W	SAE Specifications			200 ⁽⁴⁾	2 Contact Lugs	C-6	121	4.80
25		46375		H4651SB*	Auto Headlamp, High Beam, Type 1A. Coated For White Light		307 12.8	50W	SAE Specifications			200 ⁽⁴⁾	2 Contact Lugs	C-6	121	4.80
26		19411	19556	H5051	Truck Headlamp, High Beam, Type 1A. Long Life		307 12.8	50W	SAE Specifications			500 ⁽⁴⁾	2 Contact Lugs	C-6	121	4.80
27			13426	H7921-1	Halogen Auto/Truck Special Service ⁽¹⁰⁹⁾		307 12.8	50W	23,900	35	5	200 ⁽⁴⁾	Slip-on Terminals	C-6	115	4.53
28		47460	14892	H7935-1	Halogen Spotlamp		307 12.8	50W	175,000	6.5	3.5	100	Slip-on Terminals	C-6	115	4.53
29		18535	22879	H4666	Auto Headlamp, High/Low Beam, 2E1	HI LO	307 12.8	65W 55W	SAE Specifications			150 ⁽⁴⁾ 320 ⁽⁴⁾	3 Contact Lugs ⁽¹⁶⁶⁾	C-8 C-8	121	4.80

4. At 14 volts.

166. Contact lugs are angled. See drawing page 43.

109. Special fixture required for highway use.

307. See page 50.

SEALED BEAM LAMP SPECIFICATIONS

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Approx. Initial Max. Beam C.P.	Approx. Total Spread to 10% Max. C.P. – Degrees		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
	Blister Pack	Unit Pack	Bulk Pack							Horiz.	Vert.				mm	(in.)
RECTANGULAR 100mm x 165mm (4.2 in x 6.5 in) (continued)																
1			23250	H7913HIR	Farm Tractor, Flood Halogen Infrared	301	12.8	65W	4,000	70	20	800	2 Contact Lugs	C-8	121	4.80
2		45116	16195	4921-1	Auto/Truck, Special Service ⁽¹⁰⁹⁾	307	13.0	100W	25,000	40	7	300	Slip-on Terminals	C-6	115	4.53
RECTANGULAR 142mm x 200mm (5.6 in x 7.9 in)																
3		18521		6052	Auto Headlamp, Type 2B1	HI 307	12.8	65W	SAE Specifications			150 ⁽⁴⁾	3 Contact Lugs	C-6	138	5.44
						LO	12.8	55W				320 ⁽⁴⁾		C-6		
4		19429	19558	H5054	Truck Headlamp, High/Low Beam, Type 2B1, Long Life	HI 307	12.8	65W	SAE Specifications			400 ⁽⁴⁾	3 Contact Lugs	C-6	138	5.44
						LO	12.8	42W				2000 ⁽⁴⁾		C-6		
5		18534	11545	H6054	Auto Headlamp, High/Low Beam, Type 2B1	HI 307	12.8	65W	SAE Specifications			150 ⁽⁴⁾	3 Contact Lugs	C-6	138	5.44
						LO	12.8	35W				320 ⁽⁴⁾		C-6		
6		14752		H6054HO	Auto Headlamp, High/Low Beam, Type 2B1, Higher Output	HI 307	12.8	65W	SAE Specifications			150 ⁽⁴⁾	3 Contact Lugs	C-8	138	5.44
						LO	12.8	55W				700 ⁽⁴⁾		C-8		
7		45477		H6054SB*	Auto Headlamp, High/Low Beam, Type 2B1, Coated for White Light	HI 307	12.8	65W	SAE Specifications			75 ⁽⁴⁾	3 Contact Lugs	C-8	138	5.44
						LO	12.8	55W				200 ⁽⁴⁾		C-8		
PAR36 BULB 114mm (4½ in) DIAMETER																
8		24780	24783	4546	Hand Lantern		4.7	.5A	6,300	3	3	100	Screw Terminals	C-2R	70	2.75
9		24770	24775	4546-1	Hand Lantern		4.7	.5A	6,300	3	3	100	Slip-on Terminals	C-2R	70	2.75
10		24788		4547	Hand Lantern		4.75	1.25A	20,000	3	3	100	Screw Terminals	C-2R	70	2.75
11		44924	44925	H7556	Halogen Emergency Bldg. Lighting	307	6.0	6W	400	30	20	50	Screw Terminals	C-6	70	2.75
12		11421	11422	7672-1	Emergency Bldg. Lighting		6.0	7.2W	350	30	20	50	Slip-on Terminals	C-6	70	2.75
13		41865	41866	7613	Emergency Bldg. Lighting		6.0	8W	400	30	20	50	Screw Terminals	C-6	70	2.75
14		45101	45102	7613-1	Emergency Bldg. Lighting		6.0	8W	400	30	20	50	Slip-on Terminals	C-6	70	2.75
15		43561	43562	H7550	Halogen Hand Lantern	307	6.0	8W	25,000	3	3	50	Screw Terminals	C-6	70	2.75
16			23541	H7550-1	Halogen Hand Lantern	307	6.0	8W	25,000	3	3	50	Slip-on Terminals	C-6	70	2.75
17		43564	43565	H7551	Halogen Emergency Bldg. Lighting	307	6.0	8W	550	30	20	50	Screw Terminals	C-6	70	2.75
18		43567		H7552	Halogen Emergency Bldg. Lighting	307	6.0	10W	650	30	20	50	Screw Terminals	C-6	70	2.75
19		43570	43571	H7553	Halogen Emergency Bldg. Lighting	307	6.0	12W	850	30	20	50	Screw Terminals	C-6	70	2.75
20			43574	H7554	Halogen Emergency Bldg. Lighting	307	6.0	20W	1,400	30	20	50	Screw Terminals	C-6	70	2.75
21		24663	24661	4511	Tractor		6.2	30W	2,300	Trapezoidal		300 ⁽²³⁾	Screw Terminals	C-6	70	2.75
22		24678		4516	Spotlamp		6.2	30W	45,000	9	4	300	Screw Terminals	C-6	70	2.75
23		39585	39586	4042	Emergency Bldg. Lighting		6.4	12W	1,100	45	20	150	Screw Terminals	C-6	70	2.75
24		24339		4014	Emergency Bldg. Lighting		6.4	18W	1,500	50	25	200	Screw Terminals	C-6	70	2.75
25		24654	24653	4510	Tractor Flood, Emergency Bldg. Lighting		6.4	25W	800	80	20	300	Screw Terminals	C-6	70	2.75
26		24673	24671	4515	Spotlamp		6.4	30W	55,000	5	5	100	Screw Terminals	C-6	70	2.75
27		15133		H4515	Spotlamp, Shielded Bulb	307	6.4	30W	67,000	5.5	4	100	Screw Terminals	C-6	70	2.75
28		44642	44643	H7555	Halogen Emergency Bldg. Lighting	307	12.0	8W	550	30	20	50	Screw Terminals	C-6	70	2.75
29		40588	40589	4044	Emergency Bldg. Lighting		12.0	12W	1,100	50	25	150	Screw Terminals	C-6	70	2.75
30		10540	10541	4044-1	Emergency Bldg. Lighting		12.0	12W	1,100	50	25	150	Slip-on Terminals	C-6	70	2.75
31		12720	12721	H7557	Emergency Bldg. Lighting Halogen – Cycle	307	12.0	12W	850	30	20	50	Screw Terminals	C-6	70	2.75

4. At 14 volts.

23. At 7 volts.

109. Special fixture required for highway use.

301. See page 50.

307. See page 50.

SEALED BEAM LAMP SPECIFICATIONS

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Approx. Initial Max. Beam C.P.	Approx. Total Spread to 10% Max. C.P. – Degrees		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
	Blister Pack	Unit Pack	Bulk Pack							Horiz.	Vert.				mm	(in.)
PAR36 BULB 114mm (4½ in) DIAMETER (continued)																
1		24478	24477	4414	Warning Signal, Emergency Bldg. Lighting, Garden and Security Lighting		12.8	18W	1,500	50	25	300	Screw Terminals	C-6	70	2.75
2		24487		4414R	Turn Signal, Warning Signal Red Lens		12.8	18W	275	50	25	300	Screw Terminals	C-6	70	2.75
3		39987	39988	7414Y	Signal, Light Yellow Lens		12.8	18W	1,000	50	25	300	Screw Terminals	C-6	70	2.75
4		37046	37047	4446	Emergency Bldg. Lighting		12.8	25W	400	80	80	300	Screw Terminals	C-6	70	2.75
5		24425	24423	4405	Spotlight		12.8	30W	50,000	6	5	100	Screw Terminals	C-6	70	2.75
6		22983	24503	4416	Spotlamp, Signal		12.8	30W	35,000	11	4	300	Screw Terminals	C-6	70	2.75
7			34901	4416-1	Spotlamp, Signal		12.8	30W	35,000	11	4	300	Slip-on Terminals	C-6	70	2.75
8		24506		4416A	Signal, Yellow Lens Cover		12.8	30W	26,000	11	4	300	Screw Terminals	C-6	70	2.75
9		24513		4416R	Signal, Red Lens Cover		12.8	30W	4,000	11	4	300	Screw Terminals	C-6	70	2.75
10	15129			H4405	Spotlamp, Shielded Bulb	307	12.8	30W	66,000	7	4	100	Screw Terminals	C-6	70	2.75
11		24430	24428	4406	Tractor, Flood		12.8	35W	600	80	30	300 (4)	Screw Terminals	C-6	70	2.75
12		24439		4410	Backup Lamp, Tractor Flood		12.8	35W	600	80	30	300 (4)	Screw Terminals	C-6	70	2.75
13		24448	24443	4411	Tractor		12.8	35W	3,000	Trapezoidal		300 (4)	Screw Terminals	C-6	70	2.75
14		37889		4411-1	Tractor		12.8	35W	3,000	Trapezoidal		300 (4)	Slip-on Terminals	C-6	70	2.75
15			48032	4411-3*	Tractor		12.8	35W	3,000	Trapezoidal		300 (4)	Combination	C-6	70	2.75
16		22982		4415	Fog		12.8	35W	9,000	40	5	300	Screw Terminals	C-6	70	2.75
17		24499	24497	4415A	Fog, Yellow Lens		12.8	35W	7,000	40	5	300	Screw Terminals	C-6	70	2.75
18		24542		4422	Tractor		12.8	35W	600	75° Cone		300 (4)	Screw Terminals	C-6	70	2.75
19		40190	40191	7400	Signal, Rotating Beacon		12.8	35W	33,000	12	5	300	Slip-on Terminals	C-6	70	2.75
20			42385	7400-1	Signal, Rotating Beacon		12.8	35W	33,000	12	5	300	Screw Terminals	C-6	70	2.75
21	42841	42842		H7600	Halogen Signal, Rotating Beacon	307	12.8	37.5W	60,000	9	4½	300	Screw Terminals	C-6	70	2.75
22	42838	42839		H7616	Halogen Spotlamp	307	12.8	37.5W	70,000	7	4	300	Screw Terminals	C-6	70	2.75
23	39932	39933		4440X	Tractor		12.8	40W	6,000	40	7	320 (4)	3 Contact Lugs	C-6	76	3.00
							12.8	40W	4,500	33	9	320 (4)		C-6		
24	39748			4440X-1	Tractor		12.8	40W	6,000	40	7	320 (4)	3 Slip-on Terminals	C-6	70	2.75
							12.8	40W	4,500	33	9	320 (4)		C-6		
25	40176			4460X	Tractor		12.8	40W	6,500	22	10	320 (4)	3 Screw Terminals	C-6	70	2.75
							12.8	40W	5,000	22	13	320 (4)		C-6		
26		17674		H4460X	Tractor	307	12.8	40W	11,000	22	10	320 (4)	3 Screw Terminals	C-6	70	2.75
							12.8	40W	8,500	22	13	320 (4)		C-6		
27	43576	43577		H7604	Halogen Spotlamp	307	12.8	50W	100,000	7	5	100	Screw Terminals	C-6	70	2.75
28	14616	43580		H7606	Tractor, Flood Halogen – Cycle	307	12.8	50W	1,000	80	30	400 (4)	Screw Terminals	C-6	70	2.75
29	14618	43586		H7610	Halogen Tractor	307	12.8	50W	5,200	Trapezoidal		400 (4)	Screw Terminals	C-6	70	2.75
30	49731	49732		H7614	Halogen Flood	307	12.8	50W	2,000	70	30	100	Screw Terminals	C-6	70	2.75
31	24592			4461	Tractor		12.8	60W	6,000	Trapezoidal		300 (4)	Screw Terminals	C-6	70	2.75
32	24596			4466	Tractor		12.8	60W	1,000	80	30	300 (4)	Screw Terminals	C-6	70	2.75
33		17672		H7607	Tractor Flood	307	12.8	65W	1,500	Non-Symmetrical		600 (4)	Screw Terminals	C-6	70	2.75
34	24650	24649		4509	Aircraft Landing Spotlamp		13.0	100W	110,000	12	6	25	Screw Terminals	C-6	70	2.75
35	41503			4509X	Marine Spotlamp		13.0	100W	110,000	12	6	25	Screw Terminals	C-6	70	2.75
36	11524			4509Y	Special Service		13.0	100W	–	12	6	25	Screw Terminals	C-6	70	2.75
37	24690			4519	Marine		13.0	100W	30,000	40	7	25	Screw Terminals	C-6	70	2.75
38	39906	39907		4700	Spot/Flood		13.0	100W	100,000	12	7	25	3 Screw Terminals	C-6	70	2.75
							13.0	100W	50,000	17	18	25				
39	22109			Q4509	Halogen Quartzline®, Aircraft Landing	301	13.0	100W	140,000	7	7	100	Screw Terminal	C-8	70	2.75

4. At 14 volts.

301. See page 50.

307. See page 50.

SEALED BEAM LAMP SPECIFICATIONS

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Approx. Initial Max. Beam C.P.	Approx. Total Spread to 10% Max. C.P. – Degrees		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
	Blister Pack	Unit Pack	Bulk Pack							Horiz.	Vert.				mm	(in.)
PAR36 BULB 114mm (4½ in) DIAMETER (continued)																
1		25051		4313	Aircraft Landing	302	13.0	250W	140,000	16	7	25	Screw Terminals	C-6	70	2.75
2		34537		Q4631	Halogen Quartzline®, Aircraft Landing, Wing Inspection	301	13.0	250W	80,000	13	12	500	Screw Terminals	C-6	70	2.75
3		39112		Q4632	Halogen Quartzline® Aircraft Logo	301	13.0	250W	75,000	14	12	500	Screw Terminals	C-6	70	2.75
4		12961		4402A	CIM Signal		28.0	50W	1,000	50	25	400	Screw Terminals	C-6	70	2.75
5		24627		4502	Auto Headlamp, Military		28.0	50W	10,000	40	7	400	Screw Terminals	C-6	70	2.75
6		24640	24638	4505	Aircraft Navigation		28.0	50W	45,000	11	5	400	Screw Terminals	CC-6	70	2.75
7		24873	24871	4589	Aircraft Cockpit Flood, C.I.M. Flood		28.0	50W	5,000	Trapezoidal		400	Screw Terminals	CC-6	70	2.75
8			23509	4589-1	Aircraft Cockpit Flood, C.I.M. Flood		28.0	50W	5,000	Trapezoidal		400	Slip-on Terminals	CC-6	70	2.75
9		24887		4593	Aircraft In-Air Refueling		28.0	50W	1,500	80	30	400	Screw Terminals	CC-6	70	2.75
10		24981	24982	4825R	C.I.M. Stop/Tail Red Lens		28.0	50W	200	-	-	200	3 Screw Terminals	C-2V	70	2.75
							28.0	18W	40	-	-	200		C-2V		
11		44724		4752	C.I.M. Flood		28.0	60W	2,000	50	25	800	Screw Terminals	2C-6	70	2.75
12		24882		4591	Aircraft Landing		28.0	100W	90,000	12	6	25	Screw Terminals	CC-6	70	2.75
13		24891		4594	Aircraft Navigation		28.0	100W	70,000	13	7	300	Screw Terminals	CC-6	70	2.75
14		24892		4595	Aircraft Navigation		28.0	100W	60,000	14	6	300	Screw Terminals	C-6	70	2.75
15		24966		4627	Aircraft Flood		28.0	100W	3,000	80	30	300	Screw Terminals	CC-6	70	2.75
16		24980		4811	Auto Headlamp, Military		28.0	110W	Military/SAE Specifications			400	3 Contact Lugs	CC-6	76	3.00
							28.0	55W				400		CC-6		
17		24964		4626	Aircraft Taxiing		28.0	150W	25,000	40	9	300	Screw Terminals	CC-6	70	2.75
18		45427		4713	Aircraft Logo		28.0	150W	4,200	50	65	300	Screw Terminals	2C-6	70	2.75
19		24867		4587	Aircraft Taxiing	302	28.0	250W	40,000	40	13	25	Screw Terminals	CC-8	70	2.75
20		24898		4596	Aircraft Landing	302	28.0	250W	150,000	11	12	25	Screw Terminals	CC-8	70	2.75
21		39362	39363	4350	Electric Truck Work Light ⁽¹⁵⁾		36.0	60W	2,100	Trapezoidal		400	Slip-on Terminals	C-2V	70	2.75
22		39366	39367	4340	Electric Truck Work Light ⁽¹⁵⁾		48.0	80W	2,500	Trapezoidal		400	Slip-on Terminals	C-2V	70	2.75
PAR46 BULB 146mm (5¾ in) DIAMETER																
23		24369		4019	Tractor		6.2	30W	1,200	Trapezoidal		300 ⁽²³⁾	Screw Terminals	C-6	95	3.75
24		24327		4013	Tractor, Flood		6.4	25W	800	80	20	300	Screw Terminals	C-6	95	3.75
25		24735	24733	4535	Spotlamp		6.4	30W	95,000	5½	4	100	Screw Terminals	C-6	95	3.75
26		24726		4531	Auto Headlamp, Military		12.5	40W	30,000	20	5	400	Screw Terminals	C-6	95	3.75
27		24577	24576	4435	Spotlamp		12.8	30W	75,000	5	5	100	Screw Terminals	C-6	95	3.75
28		24454	24453	4412	Fog		12.8	35W	11,000	40	7	300	Screw Terminals	C-6	95	3.75
29		24460	24459	4412A	Fog, Yellow		12.8	35W	8,800	40	7	300	Screw Terminals	C-6	95	3.75
30		22981	24464	4413	Tractor, Flood		12.8	35W	1,100	80	20	300 ⁽⁴⁾	Screw Terminals	C-6	95	3.75
31		24531	24525	4419	Tractor		12.8	35W	1,600	Trapezoidal		300 ⁽⁴⁾	Screw Terminals	C-6	95	3.75
32		24582		4436	Signal		12.8	35W	60,000	10	4	300	Screw Terminals	C-6	95	3.75
33		18523		H5006	Auto Headlamp, Low Beam Type 2C1	HI LO	12.8	35W	SAE Specifications			200 ⁽⁴⁾	3 Contact Lugs	C-6	102	4.00
							12.8	35W				320 ⁽⁴⁾		C-6		
34		18511		4000	Auto Headlamp, Low Beam Type 2C1	HI LO	12.8	37.5W	SAE Specifications			200 ⁽⁴⁾	3 Contact Lugs	C-6	102	4.00
							12.8	60W				320 ⁽⁴⁾		C-6		
35		18516	24231	4001	Auto Headlamp, High Beam Type 1C1		12.8	37.5W	SAE Specifications			300 ⁽⁴⁾	2 Contact Lugs	C-6	102	4.00
36		38418		4040	Truck Headlamp, Low Beam Heavy Duty, Type 2C1	HI LO	12.8	37.5W	SAE Specifications			300 ⁽⁴⁾	3 Contact Lugs	C-6	102	4.00
							12.8	60W				500 ⁽⁴⁾		C-6		
37		49695		H7612	Halogen Fog	307	12.8	37.5W	15,000	40	7	450	Screw Terminals	C-6	95	3.75
38		24572		4434A	School Bus Signal, Amber Lens		12.8	40W	1,000	55	25	100	Screw Terminals	C-6	95	3.75

4. At 14 volts.

301. See page 50.

15. This lamp is specially designed for a particular purchaser and may not be suitable for other uses because of its limited mechanical strength.

302. See page 50.

23. At 7 volts.

307. See page 50.

SEALED BEAM LAMP SPECIFICATIONS

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Approx. Initial Max. Beam C.P.	Approx. Total Spread to 10% Max. C.P. – Degrees		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
	Blister Pack	Unit Pack	Bulk Pack							Horiz.	Vert.				mm	(in.)
PAR46 BULB 146mm (5¾ in) DIAMETER (continued)																
1		11639		5001*	Auto Headlamp, High Beam Type 1C1		12.8	50W	SAE Specifications			300 ⁽⁴⁾	2 Contact Lugs	C-6	102	4.00
2		18522		H5001	Auto Headlamp High Beam, Type 1C1	307	12.8	50W	SAE Specifications			200 ⁽⁴⁾	2 Contact Lugs	C-6	102	4.00
3		14617	43583	H7609	Halogen Tractor Flood	307	12.8	50W	2,200	80	20	400 ⁽⁴⁾	Screw Terminals	C-6	95	3.75
4		14619	43589	H7619	Halogen Tractor	307	12.8	50W	6,000	Trapezoidal		400 ⁽⁴⁾	Screw Terminals	C-6	95	3.75
5			45058	H7621-1	Halogen Auto/Truck Special Service ⁽¹⁰⁹⁾	307	12.8	50W	20,000	50	7	200 ⁽⁴⁾	Slip-on Terminals	C-6	95	3.75
6		43591	43592	H7635	Halogen Spotlamp	307	12.8	50W	160,000	6½	4	100	Screw Terminals	C-6	95	3.75
7			18022	H7635X	Halogen Spotlamp	307	12.8	50W	160,000	6½	4	100	Screw Terminals	C-6	95	3.75
8		24613		4478	C.I.M. Flood		13.0	60W	1,600	56	32	800 ⁽⁴⁾	2 Contact Lugs	2C-6	102	4.00
9		17894	17890	H7680HIR	Halogen Infrared Spotlamp	301	13.0	80W	275,000	6½	6½	100	Screw Terminals	C-8	95	3.75
10		26694	26695	H7680X HIR*	Halogen Infrared-Spotlamp Long Life	301	13.0	80W	230,000	6½	6½	300	Screw Terminals	C-8	95	3.75
11		24539	24541	4421	Auto/Truck, Special Service ⁽¹⁰⁹⁾		13.0	100W	23,000	50	7	300	Slip-on Terminals	C-6	95	3.75
12		24742		4537	Aircraft Landing		13.0	100W	200,000	11	6	25	Screw Terminals	C-6	80	3.13
13		40822	40823	4537-2	Spotlamp		13.0	100W	200,000	11	6	25	Screw Terminals	C-6	80	3.13
14		39022		4537X	Marine Spotlamp		13.0	100W	200,000	11	6	25	Screw Terminals	C-6	80	3.13
15		24700		4522	Aircraft Landing		13.0	250W	290,000	12	10	25 ⁽¹³⁸⁾	Screw Terminals	C-2 ⁽⁹²⁾	80	3.13
16		19632	16407	4636-3	Signal		14.0	80W	90,000	9	7½	200	Combination	2C-6	95	3.75
17		33284		4635	Aircraft Landing	302	16.5	450W	325,000	14	15	25	Screw Terminals	C-8	95	3.75
18		24721		4530	Signal, Flashing		26.0	5.3A	100,000	11	11	50	Screw Terminals	4CC-8	95	3.75
19		25005	25007	4578	C.I.M. Flood		28.0	60W	1,600	55	30	800	2 Contact Lugs	2C-6	102	4.00
20		24995		4880	C.I.M. Headlamp		28.0	60W	6,000	-	-	800	2 Contact Lugs	2C-6	102	4.00
21		25009	25011	4579	C.I.M. Headlamp		28.0	80W	24,000	25	25	400	3 Contact Lugs	CC-6	102	4.00
							28.0	60W	11,000	7	7	400		CC-6		
22		24828		4570	Aircraft Taxiing		28.0	150W	32,000	50	9	300	Screw Terminals	CC-6	95	3.75
23		24830		4571	Flood, Special Service		28.0	150W	7,000	80	25	300	Screw Terminals	CC-6	95	3.75
24		24833		4572	Auto Flood, Military		28.0	150W	4,500	55	55	300	Screw Terminals	CC-6	95	3.75
25		19628		4532	Aircraft		28.0	250W	75,000	12	19	100	Screw Terminals	CC8	95	3.75
							28.0	150W	14,500	16	19	100		C2V		
26		24795		4551	Aircraft Taxiing		28.0	250W	75,000	50	10	25 ⁽¹³⁸⁾	Screw Terminals	CC-6	95	3.75
27		24799		4553	Aircraft Landing		28.0	250W	300,000	11	12	25 ⁽¹³⁸⁾	Screw Terminals	CC-8	80	3.13
28		41452		Q5551*	Halogen Quartzline®, Aircraft Taxiing	301	28.0	250W	60,000	48	12	100	Screw Terminals	CC-6	84	3.32
29		24802		4554	Aircraft Taxiing	302	28.0	450W	90,000	50	16	25	Screw Terminals	CC-8	80	3.13
30		24859		4580	Aircraft Landing	302	28.0	450W	400,000	13	14	10	Screw Terminals	CC-8	95	3.75
31		24862		4581	Aircraft Landing	302	28.0	450W	400,000	13	14	10	Screw Terminals	CC-8	80	3.13
32		24853		4582	Aircraft/Helicopter Flood	302	28.0	450W	20,000	50	55	10	Screw Terminals	CC-8	95	3.75
33		37706		Q4554	Halogen Quartzline®, Aircraft Taxiing	301	28.0	450W	65,000	50	11	100	Screw Terminals	CC-6	67	2.63
34		41097		Q4566	Halogen Quartzline®, Aircraft Logo Light	301	28.0	450W	150,000	16	12	1,000	Screw Terminals	CC-6	84	3.32
35		37372		Q4597	Halogen Quartzline®, Aircraft Flood	301	28.0	450W	16,000	60	35	1,000	Screw Terminals	CC-6	84	3.32
36		36271		Q4681	Halogen Quartzline®, Aircraft Landing	301	28.0	450W	310,000	15	9	50	Screw Terminals	CC-6	67	2.63

4. At 14 volts.

92. Filament segments parallel.

109. Special fixture required for highway use.

138. Life Test Conditions: Cycled 5 minutes on, 5 off.

301. See page 50.

302. See page 50.

307. See page 50.

SEALED BEAM LAMP SPECIFICATIONS

Line No.	Order Code			GE Lamp No.	Primary Application	Safety Notes	Design Volts	Design Watts or Amps	Approx. Initial Max. Beam C.P.	Approx. Total Spread to 10% Max. C.P. – Degrees		Rated Average Lab Life (Hours)	Base	Filament Designation	Max. Overall Length	
	Blister Pack	Unit Pack	Bulk Pack							Horiz.	Vert.				mm	(in.)
PAR56 BULB 178mm (7 in) DIAMETER																
1		25114		6006	Auto Headlamp	HI LO	6.1 6.2	50W 40W	SAE Specifications			300 500	3 Contact Lugs	C-6 C-6	127	5.00
2		24768		4545	Marine Searchlight		12.0	100W	225,000	9	5	100	Screw Terminals	C-6	114	4.50
3		24764		4543	Marine Spotlamp		12.5	100W	250,000	9	5	50	Screw Terminals	C-6	114	4.50
4		38416	38607	6015	Auto/Truck Headlamp, Heavy Duty, Type 2D1	HI LO	12.8 12.8	50W 50W	SAE Specifications			300 ⁽⁴⁾ 500 ⁽⁴⁾	3 Contact Lugs	C-6 C-6	127	5.00
5		18519		6014	Auto Headlamp, Type 2D1	HI LO	12.8 12.8	60W 50W	SAE Specifications			320 ⁽⁴⁾ 150 ⁽⁴⁾	3 Contact Lugs	C-6 C-6	127	5.00
6		19428	19559	H5024	Truck Headlamp, High/Low Beam, Type 2D1, Long Life	HI LO	12.8 12.8	65W 42W	SAE Specifications			400 ⁽⁴⁾ 2000 ⁽⁴⁾	3 Contact Lugs	C-6 C-6	127	5.00
7		18525		H6024	Auto Headlamp, High/Low Beam, Type 2D1	HI LO	12.8 12.8	65W 35W	SAE Specifications			150 ⁽⁴⁾ 320 ⁽⁴⁾	3 Contact Lugs	C-6 C-6	127	5.00
8		25153		6045	Signal		26.0	170W	230,000	9	8	100	Screw Terminals	CC-6	114	4.50
9		24973		4800	Auto Headlamp, Military		28.0 28.0	50W 40W	Military/SAE Specifications			400 400	3 Contact Lugs	CC-6 CC-6	127	5.00
10		24756		4541	Aircraft Landing		28.0	450W	470,000	15	11	25	Screw Terminals	C-13	114	4.50
PAR64 BULB 203MM (8 in) DIAMETER																
11		40576		4552	Aircraft Landing		28.0	250W	500,000	7	8	25 ⁽¹³⁸⁾	Screw Terminals	CC-8	95	3.75
12		40578		4559	Aircraft Landing		28.0	600W	600,000	11	12	25 ⁽¹³⁸⁾	Screw Terminals	CC-8	95	3.75
13		40579		Q4559	Halogen Quartzline®, Aircraft Landing	301	28.0	600W	600,000	12	8	100 ⁽¹³⁸⁾	Screw Terminals	CC-6	95	3.75
14		42552		Q4559X	Halogen Quartzline®, Aircraft Landing	301	28.0	600W	765,000	11	7½	100 ⁽¹³⁸⁾	Screw Terminals	CC-6	95	3.75
15		40577		Q4629	Halogen Quartzline®, Aircraft Logo Light	301	28.0	600W	20,000	55	35	1000	Screw Terminals	CC-6	122	4.81
16		16784		Q5559*	Halogen Quartzline®, Aircraft Landing	301	28.0	600W	650,000	11	7½	200 ⁽¹³⁸⁾	Screw Terminals	CC-6	95	3.75
17		40581		4557	Aircraft Landing/Taxiing	302	28.0	1,000W 400W	540,000 100,000	11 25	15 11	25 100 ⁽¹³⁸⁾	3 Screw Terminals	CC-8 CC-6	95	3.75
18		16152		5557	Aircraft Landing/Taxiing	302	28.0	1,000W 400W	540,000 100,000	11 25	15 11	50 100 ⁽¹³⁸⁾	3 Screw Terminals	CC-8 C-6	95	3.75
19		40583		4555	Aircraft Landing	302	115.0	1,000W	600,000	20	11	25 ⁽¹³⁸⁾	Screw Terminals	C-13	95	3.75

4. At 14 volts.

138. Life Test Conditions: Cycled 5 minutes on, 5 off.

139. Life Test Conditions: Cycled 20 minutes on, 20 off.

301. See page 50.

302. See page 50.

307. See page 50.

SAFETY NOTES

301

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

302

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid contact with glass during operation
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product

303

▲ WARNING

Lamp may shatter if used in wrong circuit

- Do not use in 110-120 Volt household circuit

304

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

FOR BEST PERFORMANCE

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

305

▲ CAUTION

Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp

306

▲ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

307

▲ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

308

▲ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

▲ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

FOR BEST PERFORMANCE

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

309

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

▲ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

GE Consumer & Industrial



WORLDWIDE PARTNER



Automotive Lamp Catalog

Catalogue de lampes d'automobile

Catálogo de lámparas automotrices



imagination at work

This catalog contains accumulated data to August 2007 and contains automotive lamps used in North America. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. Changes may be made at any time. The data and suggested applications should not be taken as representations or warranties as to the suitability of a lamp for a particular application.

The specific lamp data is in 5 sections.

1. Lamp index and technical data
2. Headlamps—capsule style and sealed beams
3. Fog lamps—capsule style and selected sealed beams
4. Stop, turn and tail miniature lamps
5. Other miniatures for instrument panel, courtesy lighting, trunk, cargo, under hood, dome, etc.

For each lamp, interchangeable options are provided by lamp characteristic and package variations. For instance 9004 headlamp capsules come in 12 retail variations to maximize customer satisfaction. All lamps below the horizontal colored band signify lamps are interchangeable in the application. Under “Which lamp is best for you” the levels of visual quality are explained.

Ce catalogue contient des données accumulées jusqu'en août 2007 et présente les lampes d'automobile utilisées en Amérique du Nord. De nouvelles informations, résultant de recherches et d'essais, se font jour continuellement et pourront modifier les données fournies ici. Des modifications pourront être apportées à tout moment. Les données et applications suggérées ne doivent pas être interprétées comme des déclarations ou des garanties quant à l'adaptabilité d'une lampe à une application particulière.

Les données de lampe spécifiques sont réparties dans 5 sections.

1. Index des lampes et données techniques
2. Phares - style capsule et bloc optique étanche
3. Anti-brouillards - style capsule et bloc optique étanche sur certains modèles
4. Lampes miniatures pour feux de freinage, clignotants et arrière
5. Autres lampes miniatures pour tableau de bord, éclairage intérieur, coffre, cargo, sous le capot, dôme, etc.

Pour chaque lampe, des options interchangeables sont fournies par caractéristique de lampe et variante d'emballage. Par exemple, les capsules de phare 9004 sont fournies en 12 variantes au détail pour maximiser la satisfaction du client. Toutes les lampes sous la bande de couleur horizontale représentent des lampes interchangeables dans l'application. Les niveaux de qualité visuelle sont expliqués sous « Quelle lampe est la meilleure pour vous ? ».

Este catálogo contiene datos recopilados hasta agosto de 2007 y contiene lámparas automotrices utilizadas en América del Norte. Constantemente se está encontrando información adicional por medio de las investigaciones y pruebas, lo cual podría modificar los datos aquí presentados. Los cambios pueden ocurrir en cualquier momento. Los datos y aplicaciones sugeridas no deben tomarse como declaraciones o garantías con respecto a lo apropiada que es una lámpara para una aplicación en particular.

Los datos específicos de las lámparas aparecen en 5 secciones.

1. Índice de lámparas y datos técnicos
2. Faros-Estilo encapsulado y haces sellados
3. Lámparas para neblina-Estilo encapsulado y haces sellados selectos
4. Lámparas miniatura de parada, viraje y cola
5. Otras lámparas miniatura para el panel de instrumentos, iluminación de cortesía, cofre, carga, bajo capó, domo, etc.

Para cada lámpara, las características de la lámpara y las variaciones en los paquetes proporcionan opciones intercambiables. Por ejemplo, las cápsulas de faros 9004 vienen en 12 variaciones minoristas para maximizar la satisfacción del cliente. Todas las lámparas por debajo de la banda horizontal coloreada son intercambiables en la aplicación. En la sección “Cuál es la mejor lámpara para usted”, se explican los niveles de calidad visual.

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packaging key | légende des emballages | clave del empaque

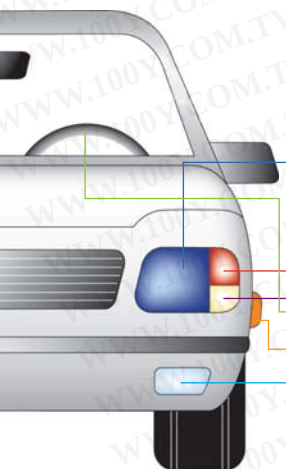
	retail unit (with UPC) détail (avec UPC) unidad minorista (con UPC)	minimum GE order commande GE minimum pedido mínimo de GE	master pack (recommend) master pack (recommandé) envase maestro (recomendar)
1/6/48 blister	1 lamp per blister	6 blisters (6 lamps)	48 blisters (48 lamps)
2/3/12 blister	2 lamps per blister	3 blisters (6 lamps)	12 blister (24 lamps)
1/3/24 blister	1 lamp per blister	3 blisters (3 lamps)	24 blisters (24 lamps)
2/6/48 blister	2 lamps per blister	6 blisters (12 lamps)	48 blisters (96 lamps)
1/10 box	1 lamp per box	10 boxes (10 lamps)	
10/50 tray	10 lamps per tray	5 trays (50 lamps)	
10 tray	10 lamps per tray	1 tray (10 lamps)	
1/100 box	1 lamp per box	100 boxes (100 lamps)	
1/6/24 box	1 lamp per box	6 boxes (6 lamps)	24 boxes (24 lamps)
200 bulk	none. OEM's only	200 lamps	
1/6 box	1 lamp per box	6 boxes (6 lamps)	
1/12 box	1 lamp per box	12 boxes (12 lamps)	

retail velocity key | codes de vitesse au détail | clave de velocidad minorista



A	fast mover	se vend bien	especialmente requerido
B	very popular	très populaire	muy popular
C	significant	significatif	significativo
D	slow	lent	lento
E	very few	se vend très peu	muy lentos

front view
vue de face
vista frontal



headlamps | phares | faros

front parking | feux de stationnement avant | frontal de estacionamiento

front turn / hazard | clignotant/feux de détresse avant | frontal de viraje/peligro

fog | anti-brouillards | neblina

dashboard | tableau de bord | tablero

side repeater | lampe témoin latérale | repetidor lateral

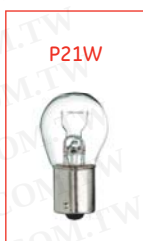
T4W W5W R5W

P21W PY21W



W5W W3W 1.2W T4W

W5W WY5W



rear view
vue de dos
vista posterior



high mount stop | feux de freinage montés haut | parada de montaje alto

backup | marche arrière | marcha atrás

dome | dôme | domo

stop & tail lamp | feux de freinage et arrière | lámpara de parada y cola

turn & hazard | clignotants et feux de détresse | viraje y peligro

stop lamp | feux de freinage | lámpara de parada

trunk | coffre | cofre

license | plaque minéralogique | licencia



front view
vue de face
vista frontal



headlamps | phares | faros

front turn / hazard | clignotant/feux de détresse avant | frontal de viraje/peligro

fog | anti-brouillards | neblina

dashboard | tableau de bord | tablero

side marker | lampe témoin latérale | marcador lateral



9003

9004

9005

9006

9007

H4

H7

H9

H11

H13



H4351
H4352

H4701
H4703

H4651

H4656
H4666

H5001

H5006

H6024

H6054



2157
2057

1157NA
2057NA

3057
3157

3057NA
3157NA



H1

H3

880 | 885 | 893

9145



194

194NA



north american vehicles | véhicules nord-américains | vehículos norteamericanos

rear view
vue de dos
vista posterior

high mount stop | feux de freinage montés haut | parada de montaje alto

backup | marche arrière | marcha atrás

dome | dôme | domo

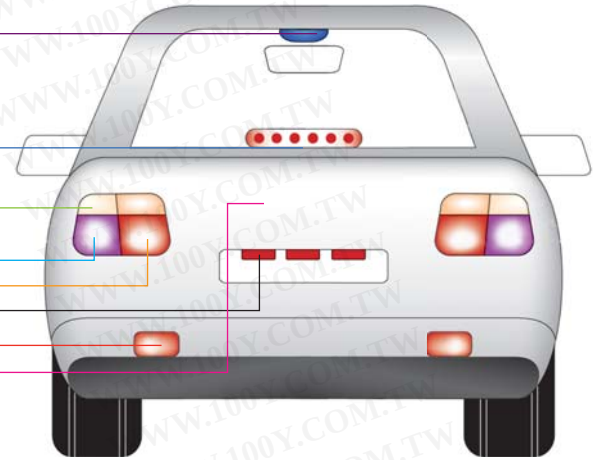
stop & tail lamp | feux de freinage et arrière | lámpara de parada y cola

turn & hazard | clignotants et feux de détresse | viraje y peligro

stop lamp | feux de freinage | lámpara de parada

trunk | coffre | cofre

license | plaque minéralogique | licencia



168



912
921



1156



1156



3156



921



C5W



906
912



211-2



563



3057
3157



1157
2057



1156



3156



1156



3156



1003



906
912



211-2
212-2



67



C5W



194
168



Which lamp is best for you?

Quelle lampe est la meilleure pour vous ?

¿Cuál es la mejor lámpara para usted?

	GOOD BON BUENO		BETTER MEILLEUR MEJOR		BEST LE MEILLEUR EL MEJOR	
	Standard OEM OEM standard OEM estándar	LONG LIFE LONGUE DURÉE DE VIE LARGA VIDA ÚTIL	HIGH OUTPUT FORTE INTENSITÉ LUMINEUSE SALIDA ALTA	BLUE HALOGEN HALOGÈNE BLEU HALÓGENA AZUL	NIGHTHAWK® NIGHTHAWK® NIGHTHAWK®	NIGHTHAWK® SPORT NIGHTHAWK® SPORT NIGHTHAWK® SPORT
typical consumer consommateur type consumidor típico	value valeur valor	trucker camionneur camionero	mature âge mûr personas maduras	enthusiast enthousiaste entusiasta	safe driver conducteur prudent conductor seguro	perfectionist perfectionniste perfeccionista
typical vehicle véhicule type vehículo típico	older ancien de mayor edad	fleets parc flotillas	sedans berline sedanes	sport car voiture de sport automóvil deportivo	all vehicles tous les véhicules todos los vehículos	SUV/luxury utilitaire/luxe SUV/de lujo
key benefit avantage principal beneficio clave	cost coût costo	lamp life durée de vie de la lampe vida útil de la lámpara	more light plus de lumière más luz	whiter light lumière plus blanche luz más blanca	30% more light 30 % de lumière en plus 30% más luz	whiter & brighter plus blanche et lumière plus vive más blanca y más brillante
products	all	sealed beams capsules miniatures	headlamps	headlamps	sealed beams capsules miniatures	headlamps
produits	tous	blocs optiques étanches capsules miniatures	phares	phares	blocs optiques étanches capsules miniatures	phares
productos	todos	haces sellados cápsulas miniaturas	faros	faros	haces sellados cápsulas miniaturas	faros
package color	yellow	green	orange	blue	orange/black & reflective foil	blue/black & reflective foil
couleur de l'emballage	jaune	vert	orange	bleu	orange/noir et papier aluminium réfléchissant	bleu/noir et aluminium réfléchissant
color del paquete	amarillo	verde	anaranjado	azul	anaranjado/negro y lámina reflectora	azul/negro y lámina reflectora

See page 50 for award winning graphics.

Pour les graphiques des prix remportés, voir page 50.

En la página 50 puede ver gráficos galardonados.

index & specifications* | index et caractéristiques techniques* | índice y especificaciones*

MINIATURES & CAPSULES			MINIATURES ET CAPSULES			MINIATURAS Y CÁPSULAS					
type type tipo	page page página	volts volts voltios	watts/amps watts/ampères vatios/amperios	MSCP MSCP MSCP	life (hrs) durée, de vie (h) vida útil (hrs)	bulb ampoule foco	base culot base	filament (in) filament (po) filamento (pulg)	LCL (in) LCL (po) LCL (pulg)	MOL MOL MOL	footnotes notes de pied. de page notas al pie de página
24	36	14.0	.24A	2	1,500	T-2 3/4	Wedge	C-2V	.46	.91	
24NA	36	14.0	.24A	1.5	1,500	T-2 3/4	Wedge	C-2V	.46	.91	
37	36	14.0	.09A	.5	2,500	T-1 3/4	Wedge	C-2F	.40	.80	
51	36	7.50	.22A	1	1,000	G-3 1/2	Miniature Bayonet	C-2R	.50	.94	
53	37	14.4	.12A	1	1,000	G-3 1/2	Miniature Bayonet	C-2V	.50	.94	
55	37	7.0	.41A	2	500	G-4 1/2	Miniature Bayonet	C-2R	.56	1.07	
57	37	14.0	.24A	2	500	G-4 1/2	Miniature Bayonet	C-2V	.56	1.07	
63	37	7.0	.63A	3	1,000	G-6	S.C. Bayonet	C-2R	.75	1.44	
67	37	13.5	.59A	4	5,000	G-6	S.C. Bayonet	C-2R	.81	1.44	4
70	37	14.0	.15A	1.5	100	T-1 3/4	Wedge	C-2F	.40	.80	14
73	37	14.0	.08A	.3	15,000	T-1 3/4	Wedge	C-2F	.40	.80	79
74	38	14.0	.10A	.7	1,000	T-1 3/4	Wedge	C-2F	.40	.80	
81	38	6.5	1.02A	6	500	G-6	S.C. Bayonet	C-2R	.75	1.44	
89	38	13.0	.58A	6	750	G-6	S.C. Bayonet	C-2R	.75	1.44	
89LL	38	13.0	.58A	6	1,500	G-6	S.C. Bayonet	C-2R	.75	1.44	
90	38	13.0	.58A	6	750	G-6	D.C. Bayonet	C-2R	.75	1.44	
93	38	12.8	1.04A	15	700	S-8	S.C. Bayonet	C-6	1.12	2.0	
94	38	12.8	1.04A	15	700	S-8	D.C. Bayonet	C-6	1.12	2.0	
97	39	13.5	.69A	4	5,000	G-6	S.C. Bayonet	C-2V	.81	1.44	4
98	39	13.0	.62A	6	800	G-6	S.C. Bayonet	C-2V	.75	1.44	
105	39	12.8	1.00A	12	500	B-6	S.C. Bayonet	C-6	1.06	1.75	
158	39	14.0	.24A	2	500	T-3 1/4	Wedge	C-2V	.56	1.06	
161	39	14.0	.19A	1	4,000	T-3 1/4	Wedge	C-2F	.56	1.06	
168	39	14.0	.35A	3	1,500	T-3 1/4	Wedge	C-2F	.56	1.06	
168LL	39	14.0	.35A	3	3,000	T-3 1/4	Wedge	C-2F	.56	1.06	
193	39	14.0	.33A	2	15,000	T-3 1/4	Wedge	C-2F	.56	1.06	
193E1	40	14.0	.33A	2	15,000	T-3 1/4	Wire Terminal	C-2F	.56	1.06	122
194	40	14.0	.27A	2	2,500	T-3 1/4	Wedge	C-2F	.56	1.06	
194LL	40	14.0	.27A	2	12,000	T-3 1/4	Wedge	C-2F	.56	1.06	
194NA	40	14.0	.27A	1.5	2,500	T-3 1/4	Wedge	C-2F	-	1.06	
198	29	12.8/14.0	2.25/.59A	32/3	1,200/5,000	S-8	D.C. Index	C-6	1.25	2.0	110,147
199	29	12.8	2.25A	32	1,200	S-8	S.C. Bayonet	C-6	1.25	2.0	110
211-2	40	12.8	.97A	12	1,000	T-3	Miniature Cap	C-8	-	1.72	
212-2	41	13.5	.74A	6	2,000	T-3	Miniature Cap	C-8	-	1.72	4
214-2	41	13.5	.52A	4	1,000	T-3	Miniature Cap	C-8	-	1.72	4
558	41	13.0	.33A	-	500	TL-3 1/4	Wedge	C-2V	-	1.06	68
561	41	12.8	.97A	12	1,000	T-3	Rigid Loop	C-8	-	1.72	
562	41	13.5	.74A	6	2,000	T-3	Rigid Loop	C-8	-	1.72	4
563	41	13.5	.52A	4	1,000	T-3	Rigid Loop	C-8	-	1.72	4
631	41	14.0	.63A	6	1,000	G-6	S.C. Bayonet	2C-2R	.75	1.44	
880	22	12.8	2.10A	43	300	T-3 1/4	Axial PG13	C-6	1.25	2.68	17,160,306
880L	22	12.8	2.10A	43	1,000	T-3 1/4	Axial PG13	C-6	1.25	2.68	17,160,306
880X	22	12.8	2.10A	43	300	T-3 1/4	Axial PG13	C-6	1.25	2.68	17,160,306
881	22	12.8	2.10A	43	300	T-3 1/4	Rt Angle PGJ13	C-6	1.25	2.68	17,160,306
881L	22	12.8	2.10A	43	1,000	T-3 1/4	Rt Angle PGJ13	C-6	1.25	2.68	17,160,306
882	41	12.8	.35A	3.8	2,000	T-2 1/4	Socket	C-6	.37	1.18	306
882-X	42	12.8	.35A	3.8	2,000	T-2 1/4	G-4 Two Pin	C-6	.77	1.0	124,306
885	22	12.8	3.90A	100	200	T-3 1/4	Axial PG13	C-6	1.25	2.68	4,306
886	22	12.8	3.90A	100	200	T-3 1/4	Rt Angle PGJ13	C-6	1.25	2.68	4,306
889	42	12.8	2.10A	43	300	T-3 1/4	Rt Angle PGJ13	C-6	1.00	2.68	306
890	42	12.8	2.10A	43	300	T-3 1/4	Axial PG13	C-6	1.00	2.68	306

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MINIATURES & CAPSULES			MINIATURES ET CAPSULES			MINIATURAS Y CÁPSULAS					
type type tipo	page page página	volts volts voltios	watts/amps watts/ampères vatios/amperios	MSCP MSCP MSCP	life (hrs) durée, de vie (h) vida útil (hrs)	bulb ampoule foco	base culot base	filament (in) filament (po) filamento (pulg)	LCL (in) LCL (po) LCL (pulg)	MOL MOL MOL	footnotes notes de pied. de page notas al pie de página
891	2	12.8	.63A	11	500	T-2 1/4	G-4 Two Pin	C-6	.77	1.0	124,306
892	42	12.8	1.25A	28	300	T-3 1/4	Axial PG13	C-6	1.00	2.68	306
893	22	12.8	2.93A	75	200	T-3 1/4	Axial PG13	C-6	1.25	2.68	4,17,160,306
893X	22	12.8	2.93A	75	200	T-3 1/4	Axial PG13	C-6	1.25	2.68	4,17,160,306
893CL	23	12.8	2.93A	75	200	T-3 1/4	Axial PG13	C-6	1.25	2.68	4,306
894	23	12.8	2.93A	75	200	T-3 1/4	Rt Angle PGJ13	C-6	1.25	2.68	4,306
894X	23	12.8	2.93A	75	200	T-3 1/4	Rt Angle PGJ13	C-6	1.25	2.68	4,306
896	23	12.8	2.93A	75	200	T-3 1/4	Rt Angle PGJ13	C-6	1.25	2.68	4,17,160,306
897	23	12.8	2.10A	43	300	T-3 1/4	Rt Angle PGJ13	C-6	1.25	2.68	17,160,306
898	23	12.8	2.93A	60	1,900	T-3 1/4	Rt Angle PGJ13	C-6	1.25	2.68	4,17,160,306
899	23	12.8	2.93A	60	1,900	T-3 1/4	Axial PG13	C-6	1.25	2.68	4,17,160,306
901	42	12.8	.31A	2.9	500	T-5	Wedge	C-2R	.81	1.49	
904	43	13.5	.69A	4	5,000	T-5	Wedge	C-2F	.81	1.49	4
906	43	13.0	.69A	6	1,000	T-5	Wedge	C-2F	.81	1.49	
912	43	12.8	1.00A	12	1,000	T-5	Wedge	C-2R	.81	1.49	
916	43	13.5	.54A	2	10,000	T-5	Wedge	C-2F	.81	1.49	
916NA	43	13.0	.54A	1.5	10,000	T-5	Wedge	C-2F	.81	1.49	
918	43	12.8	.56A	6.5	500	T-5	Wedge	C-2R	.81	1.49	
921	44	12.8	1.40A	21	500	T-5	Wedge	C-2R	.81	1.49	121
922	44	12.8	.98A	15	200	T-5	Wedge	C-2R	.81	1.49	
923	44	12.8	.91A	12.5	500	T-5	Wedge	C-2R	.81	1.49	
1003	44	12.8	.94A	15	200	B-6	S.C. Bayonet	C-6	1.06	1.75	
1003LL	44	12.8	.94A	15	400	B-6	S.C. Bayonet	C-6	1.06	1.75	
1004	44	12.8	.94A	15	200	B-6	D.C. Bayonet	C-6	1.06	1.75	
1034	29	12.8/14.0	1.80/.59A	32/3	200/5,000	S-8	D.C. Index	C-6	1.25	2	
1073	29	12.8	1.80A	32	200	S-8	S.C. Bayonet	C-6	1.25	2.0	
1076	29	12.8	1.80A	32	200	S-8	D.C. Bayonet	C-6	1.25	2.0	
1129	44	6.4	2.63A	21	200	S-8	S.C. Bayonet	C-6	1.25	2.0	
1141	29	12.8	1.44A	21	1,000	S-8	S.C. Bayonet	C-6	1.25	2.0	
1141LL	29	12.8	1.44A	21	2,000	S-8	S.C. Bayonet	C-6	1.25	2.0	
1142	30	12.8	1.44A	21	1,000	S-8	D.C. Bayonet	C-6	1.25	2.0	
1154	30	6.4/7	2.63/.75A	21/3	200/1,000	S-8	D.C. Index	C-6	1.25	2	
1155	45	13.5	.59A	4	5,000	G-6	S.C. Bayonet	2C-2R	.81	1.44	4
1156	30	12.8	2.10A	32	1,200	S-8	S.C. Bayonet	C-6	1.25	2.0	
1156LL	30	12.8	2.10A	32	2,400	S-8	S.C. Bayonet	C-6	1.25	2.0	
1156NA	30	12.8	2.10A	24	1,200	S-8	S.C. Bayonet	C-6	1.25	2.0	
1157	30	12.8/14.0	2.10/.59A	32/3	1,200/5,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
1157LL	30	12.8/14.0	2.10/.59A	32/3	2,400/10,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
1157NA	31	12.8/14.0	2.10/.59A	24/2.2	1,200/5,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
1157NALL	31	12.8/14.0	2.10/.59A	24/2.2	2,400/10,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
1176	31	12.8/14.0	1.34/.59A	21/6	300/1,500	S-8	D.C. Bayonet	C-6/C-6	1.25	2.0	
1195	31	12.5	3.00A	50	300	RP-11	S.C. Bayonet	C-2R	1.25	2.25	305
1196	31	12.5	3.00A	50	300	RP-11	D.C. Bayonet	C-2R	1.25	2.25	305
1295NA	31	12.5	3.00A	37	200	S-8	S.C. Bayonet	C-2R	1.25	2.0	
1445	45	14.4	.135A	.7	2,000	G-3 1/2	Miniature Bayonet	C-2V	.50	.94	13
1449	45	14.0	.20A	2	250	G-3 1/2	Miniature Screw	C-2V	.72	.94	13
1662	31	28.0/28.0	.93/.34A	32/6	400/1,000	S-8	D.C. Index	CC-6/C-2V	1.25	2.0	13,15,33
1815	45	14.0	.20A	1.4	3,000	T-3 1/4	Miniature Bayonet	C-2F	.75	1.19	147
1816	45	13.0	.33A	3	1,000	T-3 1/4	Miniature Bayonet	C-2V	.62	1.19	13
1891	45	14.0	.24A	2	500	T-3 1/4	Miniature Bayonet	C-2F	.62	1.19	
1892	45	14.4	.12A	.75	1,000	T-3 1/4	Miniature Bayonet	C-2F	.62	1.19	

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type type tipo	page page página	volts volts voltios	watts/amps watts/ampères vatios/amperios	MSCP MSCP MSCP	life (hrs) durée, de vie (h) vida útil (hrs)	bulb ampoule foco	base culot base	filament (in) filament (po) filamento (pulg)	LCL (in) LCL (po) LCL (pulg)	MOL MOL MOL	footnotes notes de pied. de page notas al pie de página
1893	46	14.0	.33A	2	7,500	T-3 1/4	Miniature Bayonet	C-2F	.62	1.19	
1895	46	14.0	.27A	2	2,000	G-4 1/2	Miniature Bayonet	C-2F	.56	1.07	
2040	46	12.8	.625A	10.5	500	T-2 1/4	Wedge	C-6	.40	1.25	306
2057	32	12.8/14.0	2.10/.48A	32/2	1,200/5,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
2057LL	32	12.8/14.0	2.10/.48A	32/2	2,400/10,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
2057NA	32	12.8/14.0	2.10/.48A	24/1.5	1,200/5,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
2057NALL	32	12.8/14.0	2.10/.48A	24/1.5	2,400/10,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
2058U	32	12.8/14.0	2.10/.48A	32/2	1,200/5,000	S-8	Wire Terminals	C-6/C-6	-	1.81	113
2144	32	12.8	2.10A	32	1,200	S-8	Wire Terminals	C-6	-	1.75	113
2286D	46	14.0	.35A	2.7	1,500	T-3 1/4	Wire Term Down	C-2F	-	1.05	
2357	32	12.8/14.0	2.20/.59A	40/3	400/5,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
2357NA	32	12.8/14.0	2.20/.59A	30/2.2	400/5,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
2396	33	12.8	2.23A	40	400	S-8	S.C. Bayonet	C-6	1.25	2.0	
3057	33	12.8/14.0	2.10/.48A	32/2	1,200/5,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3057LL	33	12.8/14.0	2.10/.48A	32/2	2,000/10,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.1	2.09	
3057NA	33	12.8/14.0	2.10/.48A	24/1.5	1,200/5,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3155	33	12.8	1.60A	21	1,500	S-8	Wedge W2.5 x 16d	C-6	1.10	2.09	
3156	33	12.8	2.10A	32	1,200	S-8	Wedge W2.5 x 16d	C-6	1.10	2.09	
3156LL	33	12.8	2.10A	32	2,000	S-8	Wedge W2.5 x 16d	C-6	1.10	2.09	
3157	33	12.8/14.0	2.10/.59A	32/3	1,200/5,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3157LL	33	12.8/14.0	2.10/.59A	32/3	2,000/10,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3157NA	34	12.8/14.0	2.10/.59A	24/2.2	1,200/5,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3157NALL	34	12.8/14.0	2.10/.59A	24/2.2	2,000/10,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3457	34	12.8/14.0	2.10/.59A	40/3	400/5,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3457LL	34	12.8/14.0	2.10/.59A	40/3	800/10,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3457NA	34	12.8/14.0	2.10/.59A	30/2.2	400/5,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
3496	34	12.8/14.0	2.10/.59A	43/3	600/5,000	T-7	D.C. Index	C-6/C-6	-	2.00	
3497	34	12.8	2.10A	45	600	T-7	S.C. Bayonet	C-6	-	2.00	
3652	46	13.5	.37A	6	700	T-3 1/4	Wedge	-	-	1.06	
4157LL	34	12.8/14.0	2.23/.59A	32/3	3,600/10,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
4157NALL	34	12.8/14.0	2.23/.59A	24/2.2	3,600/10,000	S-8	Wedge W2.5 x 16q	C-6/C-6	1.10	2.09	
7440	35	13.5	1.85A	37	300	T-7	Wedge / 103 x 16DQ	C-6	-	1.75	
7443	35	13.5/13.5	1.85/.4A	35/3	500/1,000	T-7	Wedge / 103 x 16DQ	C-6/C-6	-	1.75	
9003	16	12.8/12.8	67/60W	119/72	150/800	T-4 3/4	P43T-38	C-8/C-8	1.12	3.62	4,306
9004	16	12.8/12.8	65/45W	95/55	150/320	T-4 3/4	Axial P29t	C-6/C-6	1.75	4.17	4,161,306
9004LL	16	12.8/12.8	65/47W	95/55	150/850	T-4 3/4	Axial P29t	C-6/C-6	1.75	4.17	4,161,306
9005 (HB3)	17	12.8	65W	135	800	T-4	Rt Angle P20d	C-8	1.24	3.13	4,306
9005XSLL	17	12.8	65W	135	700	T-4	Axial Prefocus	C-8	1.24	3.13	4,306
9006 (HB4)	17	12.8	55W	80	850	T-4	Rt Angle P22d	C-8	1.24	3.13	4,306
9006XSLL	17	12.8	55W	80	1,500	T-4	Axial Prefocus	C-8	1.24	3.13	4,306
9007	18	12.8/12.8	65/55W	107/79	150/1,100	T-4 3/4	Axial Px29t	C-8/C-8	1.75	4.17	4,161,306
9007LL	18	12.8/12.8	65/55W	107/79	150/1,450	T-4 3/4	Axial Px29t	C-8/C-8	1.75	4.17	4,161,306
9008	18	12.8/12.8	65/55	119/80	320/150	T-4 5/8	P26.4T	C-8/C-8	1.00	3.54	4,161,306
9145(H10)	23	12.8	45W	65	1,500	T-4	PY20D	C-8	1.24	3.01	4,306
56110	46	13.2	1.83A	40	100	T-3	Miniature Bayonet	C-2R	.59	1.22	308
58540	46	13.5	.37A	63	240	T-3	Miniature Bayonet	C-2R	.59	1.22	308
C5W	47	13.5	.37A	3.6	450	T-3 1/2	SV8.5/8	-	-	1.45	
D2R	18	85	35W	114	1,000	T-3	P32d-3	-	1.06	3.09	1,2,310
D2S	18	85	35W	254	1,000	T-3	P32d-2	-	1.06	3.09	1,2,310
DE3021	47	14.0	.24A	2	1,000	T-2 1/4	SV7MM	-	-	1.15	
DE3022	47	13.0	.38A	3	1,000	T-2 1/4	SV7MM	-	-	1.18	

MINIATURES & CAPSULES			MINIATURES ET CAPSULES			MINIATURAS Y CÁPSULAS					
type type tipo	page page página	volts volts voltios	watts/amps watts/amperes vatios/amperios	MSCP MSCP MSCP	life (hrs) durée, de vie (h) vida útil (hrs)	bulb ampoule foco	base culot base	filament (in) filament (po) filamento (pulg)	LCL (in) LCL (po) LCL (pulg)	MOL MOL MOL	footnotes notes de pied. de page notas al pie de página
DE3175	47	13.0	.77A	9.55	400	T-3 1/4	SV8.5MM	-	-	1.25	
DE 3425	47	13.0	.77A	9.55	400	T-4	SV8.5MM	-	-	1.50	
DE7576	47	13.5	.74A	9.8	200	T-3 1/2	SV8.5/8	-	-	1.65	
GE 52590HD	24	28.0	66W	102	1,000	T-3 1/2	PK22S	C-6	.71	1.65	308
GE50310 LL	24	13.2	62W	123		T-3 1/2	P14.5S	C-8	1.08	2.66	308
GE50390 H3-35	24	13.2	40W	60	200	T-3 1/2	PK22S	C-6	.71	1.65	308
H1-55 (50310/1)	24	13.2	62W	123	225	T-3 1/2	P14.5S	C-8	1.08	2.66	308
H1-70 (50320/1)	24	28.0	80W	151	600	T-3 1/2	P14.5S	C-8	1.08	2.46	308
H2-55 (50410)	24	13.2	62W	143	225	T-3 1/2	X511	C-8	.48	1.22	308
H3-55 (50340)	24	13.2	62W	115	225	T-3 1/2	PK22S	C-6	.71	1.65	308
H3-70 (50350)	25	28.0	75W	135	225	T-3 1/2	PK22S	CC-6	.71	1.65	308
H3-100	24	13.2	92W	187	100	T-3 1/2	PK22S	C-6	.71	1.65	308
H4-60/55 (50440)	15	13.2/13.2	71/66W	138/80	225/900	T-5	P43T-38	C-8/C-8	1.12	3.62	306
H4/28V (50450)	15	28.0/28.0	80/73W	151/95	150/300	T-5	P43T-38	C-8/C-8	1.14	3.62	308
H7	15	13.2	56.5W	115	500	T-3 1/2	PX26D	C-8	.98	2.36	308
H7-LL	15	13.2		115		T-3 1/2	PX26D	C-8	.98	2.36	308
H8	25	13.2	40W	64	400	T-3 1/2	PGJ19-1	C-8	1.06	2.63	308,2
H9	15	13.2	65W	167	125	T-3 1/2	PGJ19-5	C-8	1.08	2.63	308,2
H11	15	13.2	55W	107	550	T-3 1/2	PGJ19-2	C-8	1.07	2.63	308,2
H11LL	15	13.2	55W	107	1,400	T-3 1/2	PGJ19-2	C-8	1.07	2.63	308,4
H13	16	12.8/12.8	65/55	119/80	320/150	T-4 5/8	P26.4T	C-8/C-8	1.00	3.54	4,161,306
KPR102	48	2.4	.70A	1.3	15	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	116
KPR113	48	4.8	.75A	4.1	20	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	116
KPR118	48	7.2	.55A	5.2	15	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	116
P21/4W	35	13.5/13.5	1.85/.37A	35/1.19	100/100	S-8	D.C. Index	C-6/C-6	1.25	2.0	
P21/5W	35	13.5/13.5	1.85/.44A	35/2.78	250/1,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
P21/5W 24V	35	28.0/28.0	1.00/.36A	35/3.18	150/1,500	S-8	D.C. Index	C-6/C-6	1.25	2.0	
P21/5W LL	35	13.5/13.5	1.85/.44A	35/2.78	600/3,000	S-8	D.C. Index	C-6/C-6	1.25	2.0	
P21W	35	13.5	1.85A	36.6	250	S-8	S.C. Bayonet	C-6	1.25	2.0	
P21W 24V	36	28.0	1.00A	36.6	150	S-8	S.C. Bayonet	C-6	1.25	2.0	
P21W LL	35	13.5	1.85A	36.6	300	S-8	S.C. Bayonet	C-6	1.25	2.0	
PY21W	36	13.5	1.85A	22.3	250	S-8	S.C. Bayonet	C-6	1.25	2.0	
PC161	47	14.0	.19A	1	4,000	T-3 1/4	Printed Socket	C-2F	.45	1.11	
PC168	47	14.0	.35A	3	1,500	T-3 1/4	Printed Socket	C-2F	.45	1.11	
PC 194	48	14.0	.27A	2	2,500	T-3 1/4	Printed Socket	C-2F	.45	1.11	
PR2	48	2.38	.50A	0.8	15	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	116
PR3	48	3.57	.50A	1.5	15	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	116
PR4	48	2.33	.27A	0.4	10	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	116
PR12	48	5.95	.50A	3.1	15	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	116
PR13	48	4.75	.50A	2.2	15	B-3 1/2	S.C. Miniature Flanged	C-2R	0.25	1.25	116
R5W	49	13.5	5W	4.0		G-6	S.C. Bayonet	C-2R	.75	1.47	
R5WLL	49	13.5	5W	4.0	500	G-6	S.C. Bayonet	C-2R	.75	1.47	
R10W	49	13.5	10W	10.0		G-6	S.C. Bayonet	C-2R	.75	1.47	
R10W LL	49	13.5	10W	10.0	400	G-6	S.C. Bayonet	C-2R	.75	1.47	
T4W	49	13.5	.30A	2.8	450	T-2 3/4	Miniature Bayonet	C-2R	.59	1.08	
W3W	49	13.5	3W	1.75	1,000	T-3 1/4	Wedge	C-2V	.5	1.06	13
W5W	49	13.5	5W	4	300	T-3 1/4	Wedge	C-2V	.5	1.06	13
W16W	49	13.5	1.44A	24.6	250	T-5	Wedge	C-2F	.81	1.49	121
WY5W	49	13.5	5W	3	300	T-3 1/4	Wedge	C-2V	.5	1.06	13

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SEALED BEAM SYSTEMS | SYSTÈMES DE BLOC OPTIQUE ÉTANCHE | SISTEMAS DE HAZ SELLADO

type type tipo	page page página	volts volts voltios	watts/amps watts/ampères vatios/amperios	MBCP MBCP MBCP	life (hrs) durée, de vie (h) vida útil (hrs)	bulb ampoule foco	base culot base	MOL (in) MOL (po) MOL (pulg)	spread** étendue** difusión**	footnotes notes de pied. de page notas al pie de página
4000	20	12.8/12.8	37.5/60W	SAE	200/320	PAR46	3 Contact Lugs	4	H V	4
4040	20	12.8/12.8	37.5/60W	SAE	300/500	PAR46	3 Contact Lugs	4		4
4405	25	12.8	30W	50,000	100	PAR36	Screw Terminals	2.75	6	5
4411	25	12.8	35W	3,000	300	PAR36	Screw Terminals	2.75	Trapezoidal	4
4412	25	12.8	35W	11,000	300	PAR46	Screw Terminals	3.75	40	7
4412A	25	12.8	35W	8,800	300	PAR46	Screw Terminals	3.75	40	7
4414	26	12.8	18W	1,500	300	PAR36	Screw Terminals	2.75	50	25
4415	26	12.8	35W	9,000	300	PAR36	Screw Terminals	2.75	40	5
4415A	26	12.8	35W	7,000	300	PAR36	Screw Terminals	2.75	40	5
4421	26	13.0	100W	23,000	300	PAR46	Slip-on Terminals	3.75	50	7
4434A	26	12.8	40W	1,000	100	PAR46	Screw Terminals	3.75	55	25
4537-2	26	13.0	100W	200,000	25	PAR46	Screw Terminals	3.13	11	6
4579	26	28.0/28.0	80/60W	24M/11M	400/400	PAR46	3 Contact Lugs	4	25/7	25/7
4651	19	12.8	50W	SAE	200	165mm	2 Contact Lugs	4.8		4,307
4652	19	12.8/12.8	40/60W	SAE	200/320	165mm	3 Contact Lugs	4.8		4,307
4800	19	28.0/28.0	50/40W	SAE	400/400	PAR56	3 Contact Lugs	5		
4912-1	26	12.8	50W	14,000	300	165mm	Slip-on Terminals	4.53	40	7
4921-1	27	13.0	100W	25,000	300	165mm	Slip-on Terminals	4.53	40	7
5001	20	12.8	50W	SAE	300	PAR46	2 Contact Lugs	4		4
6006	19	6.1/6.2	50/40W	SAE	300/500	PAR56	3 Contact Lugs	5		
6014	21	12.8/12.8	60/50W	SAE	320/150	PAR56	3 Contact Lugs	5		4
6015	21	12.8/12.8	50/50W	SAE	300/500	PAR56	3 Contact Lugs	5		4
6052	21	12.8/12.8	65/55W	SAE	150/320	200mm	3 Contact Lugs	5.44		4,307
H4351	19	12.8	55W	SAE	500	140mm	Right Angle	4		307
H4352	19	12.8	65W	SAE	150	140mm	Right Angle	4		307
H4651	19	12.8	50W	SAE	200	165mm	2 Contact Lugs	4.8		4,307
H4656	20	12.8/12.8	35/35W	SAE	200/320	165mm	3 Contact Lugs	4.8		4,307
H4666/H4668	20	12.8/12.8	65/55W	SAE	150/320	165mm	3 Contact Lugs	4.8		4,166,307
H4701	20	12.8	65W	SAE	150	150mm	2 Lugs	3.4		307
H4703	20	12.8	55W	SAE	320	150mm	2 Lugs	3.4		307
H5001	20	12.8	50W	SAE	200	PAR46	2 Contact Lugs	4		4,307
H5006	20	12.8/12.8	35/35W	SAE	200/320	PAR46	3 Contact Lugs	4		4,307
H5024	21	12.8/12.8	65/42W	SAE	400/2000	PAR56	3 Contact Lugs	5		4,307
H5051	19	12.8	50W	SAE	500	165mm	2 Contact Lugs	4.8		4,307
H5054	21	12.8/12.8	65/42W	SAE	400/2000	200mm	3 Contact Lugs	5.44		4,307
H5062	19	12.8/12.8	40/55W	SAE	400/2000	165mm	3 Contact Lugs	4.8		4,307
H6024	21	12.8/12.8	65/35W	SAE	150/320	PAR56	3 Contact Lugs	5		4,307
H6054	21	12.8/12.8	65/35W	SAE	150/320	200mm	3 Contact Lugs	5.44		4,307
H7604	27	12.8	50W	100,000	100	PAR36	Screw Terminals	2.75	7	5
H7612	27	12.8	37.5W	15,000	450	PAR46	Screw Terminals	3.75	40	7
H7921-1	27	12.8	50W	23,900	200	165mm	Slip-on Terminals	4.53	35	5
H9415	27	12.8	37.5W	12,000	200	150mm	2 Right Angle Lugs	3	45	5
H9415A	27	12.8	37.5W	-	200	150mm	2 Right Angle Lugs	3	45	5
H9420	28	12.8	50W	47,000	200	150mm	2 Right Angle Lugs	3	15	5
H9421	28	12.8	50W	4,000	200	150mm	2 Right Angle Lugs	3	45	8

*Data shown is for the standard lamp. Characteristic changes such as High Output, Blue Halogen, NIGHTHAWK® and NIGHTHAWK® Sport can modify nominal wattage and life.

*Données pour la lampe standard. Les modifications des caractéristiques, telles que Forte intensité lumineuse, Halogène Bleu, NIGHTHAWK® et NIGHTHAWK® Sport peuvent modifier la puissance et la durée de vie nominales.

*Los datos mostrados corresponden a la lámpara estándar. Los cambios de las características como Salida Alta, Halógena Azul, NIGHTHAWK® y NIGHTHAWK® Sport pueden modificar el vataje nominal y la vida útil.

**Beam spread to 10% MBCP, horizontal and vertical, in degrees.

**Étendue du faisceau jusqu'à 10 % de la MBCP, horizontal et vertical, en degrés.

**Difusión del haz a un 10% de la MBCP, horizontal y vertical, en grados.

index & specifications* | index et caractéristiques techniques* | índice y especificaciones*

footnotes

- 1 special ballast required per ECE R99.
- 2 B3 life, not average rated life.
- 4 life at 14 volts.
- 13 filament supported.
- 14 this lamp may not be suitable for some used because of excess wattage for the bulb size.
- 15 this lamp may not be suitable for some used because of its limited mechanical strength.
- 17 filament shielded.
- 33 connections of major and minor filament to base are reversed from those for automotive lamps with double contact index bases. Burn base down to horizontal.
- 68 uses lens end TL3 1/4 bulb. Provides 7000 to 11000 foot-candles in a 1/4" diameter spot 1/8" from end of bulb.
- 79 life shown is AC voltage only. DC life will be approximately 50% of AC.
- 109 special fixture required for highway use.
- 110 to be used with variable load flasher in applications where bulb outage is not required, or with a appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
- 113 this is a flange seal wire terminal lamp. Contact sales for proper usage instructions.
- 116 life tests are performed on DC voltage only.
- 121 to minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: burn base down to base 45 degrees above horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
- 122 this is a wire terminal lamp. Contact sales for proper usage instructions.
- 124 .028" metal pins spaced 4mm apart. GE's two pin lamps may not be compatible with all G4 sockets since many sockets do not provide clearance for the exhaust tip.
- 147 differs from ANSI.
- 160 filament will generate specified MSCP in a non shielded bulb.
- 161 MSCP measured with blacktop.
- 166 contact lugs are angled.

notes de pied de page

- 1 ballast spécial obligatoire conformément à ECE R99.
- 2 durée de vie B3, pas une durée de vie nominale moyenne.
- 4 durée de vie à 14 volts.
- 13 filament accepté.
- 14 cette lampe risque de ne pas être adaptée à certaines applications en raison de la puissance excessive pour la taille de l'ampoule.
- 15 cette lampe risque de ne pas être adaptée à certaines applications en raison de sa résistance mécanique limitée.
- 17 filament gainé.
- 33 les connexions des filaments majeur et mineurs au culot sont l'inverse de celles de lampes d'automobile à culot index à double contact. Culot dirigé vers le bas ou l'horizontale.
- 68 ampoule TL3 1/4 à lentille. Procure 7 000 à 11 000 candèlas-pied dans un spot de 6 mm de diamètre 3 mm de l'extrémité de l'ampoule.
- 79 durée de vie en tension c.a uniquement. La durée de vie c.c. sera approximativement égale à 50 % de la durée de vie c.a.
- 109 douille spéciale pour utilisation sur autoroute.
- 110 à utiliser avec clignotant à charge variable dans des applications où l'extinction de l'ampoule n'est pas requise ou avec un clignotant à charge fixe appropriée. Le taux de clignotement pourra être modifié s'il est utilisé avec un clignotant à charge fixe incorrecte.
- 113 Il s'agit d'une lampe à bornes de fil scellées à bride. Pour le mode d'emploi, contactez les ventes.
- 116 les essais de durée de vie sont effectués sur tension c.c. uniquement.
- 121 pour minimiser les effets indésirables possibles sur la durée de vie de la lampe en raison d'une puissance excessive par rapport à la taille de l'ampoule : culot dirigé vers le bas ou à 45° max. au-dessus de l'horizontale. Indépendamment de la position de grillage, cette puissance excessive diminuera anormalement l'intensité lumineuse durant la vie de la lampe.
- 122 Il s'agit d'une lampe à bornes de fil. Pour le mode d'emploi, contactez les ventes.
- 124 broches métalliques de 0,7 mm espacées de 4 mm. Les lampes GE à deux broches risquent de ne pas être compatibles avec toutes les douilles G4 dans la mesure où de nombreuses douilles ne procurent pas le dégagement nécessaire pour l'embout de vidage.
- 147 diffère de l'ANSI.
- 160 le filament produira le MSCP spécifié dans une ampoule non protégée.
- 161 MSCP mesuré avec protection de l'ampoule.
- 166 cosses de contact en biais.

notas al pie de página

- 1 se requiere reactancia especial según ECE R99.
- 2 vida útil B3, no vida útil media nominal.
- 4 vida útil a 14 voltios.
- 13 filamento compatible.
- 14 esta lámpara puede no ser apta para algunos usos debido al vataje excesivo para el tamaño del foco.
- 15 esta lámpara puede no ser apta para algunos usos debido a su resistencia mecánica limitada.
- 17 filamento blindado.
- 33 las conexiones del filamento mayor y menor a la base se invierten de aquellas para lámparas automotrices con bases de índice de contacto doble. Quemar la base hasta la horizontal.
- 68 utiliza un foco TL3 de 1/4 de extremo de lente. Proporciona 7000 a 11000 pies-candelas en un haz puntual de 1/4" de diámetro 1/8" desde el extremo del foco.
- 79 la vida útil mostrada es únicamente para el voltaje de CA. La vida útil de CC será de aproximadamente el 50% de la CA.
- 109 se requiere un accesorio especial para uso en carretera.
- 110 a ser utilizado con la luz intermitente de carga variable en aplicaciones en las que no se requiere una interrupción del servicio del foco o con una luz intermitente apropiada de carga fija. La velocidad de centelleo puede alterarse si se utiliza con una luz intermitente incorrecta de carga fija.
- 113 ésta es una lámpara de hilo terminal de sello de la brida. Comuníquese con ventas para conocer las instrucciones apropiadas de uso.
- 116 las pruebas de vida útil se realizan únicamente en voltaje de CC.
- 121 para minimizar los efectos adversos posibles en la vida útil de la lámpara debido a un vataje excesivo en relación al tamaño del foco: quemar la base hasta una base a 45 grados por arriba de la horizontal. Independientemente de la posición de quemado, este vataje excesivo disminuirá de manera anormal la salida luminosa durante la vida útil de la lámpara.
- 122 ésta es una lámpara de hilo terminal. Comuníquese con ventas para conocer las instrucciones apropiadas de uso.
- 124 las clavijas metálicas de 0.028" están separadas a una distancia de 4mm. Las lámparas de dos clavijas de GE pueden no ser compatibles con todos los casquillos G4 dado que muchos casquillos no tienen la holgura necesaria para la punta de escape.
- 147 difiere de ANSI.
- 160 el filamento generará un MSCP especificado en un foco no blindado.
- 161 MSCP medido con el tope negro.
- 166 las orejas de contacto están anguladas.

warnings, safety notices and footnotes 305-310, see pages 55-56.

avertissements, consignes de sécurité et pieds de page 305-310, voir pages 55-56.

advertencias, avisos de seguridad y notas al pie de página 305-310, consulte las páginas 55-56.

CAPSULES | CAPSULES | CÁPSULAS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

H4 | 2-lamp high/low beam

BASE CULOT: P43t

H4-60/55 BP	halogen	12	60/55	1/6/48 blister	1	18132	043168962193	A
H4-60/55	halogen	12	60/55	1/10 box		27334	043168273343	
50440 H4-60/55	halogen	12	60/55	200 bulk		22133	043168221337	
H4-60MS/BP	motorcycle	12	60/55	1/3/24 blister		89256	043168892568	
H4-60NH/BP1	NIGHTHAWK®	12	60/55	1/3/24 blister		25094	043168250948	



fig. 1

H4 | 2-lamp high/low beam

BASE CULOT: P43t

H4-75/70W	truck/bus	28	75/70	1/10 box	1	27342	043168273428	D
50450 H4/28V	truck/bus	28	75/70	200 bulk		93732		

H7 | 4-lamp high/low beam

BASE CULOT: PX26d

H7-55/BP	halogen	12	55	1/6/48 blister	2	26374	043168263740	A
H7 STD BULK	halogen	12	55	200 bulk		38641		
H7-LL BULK	long life	12	55	200 bulk		46179		
H7-55NH/BP	NIGHTHAWK®	12	55	1/3/24 blister		25160	043168251600	
H7-55NH/BP2	NIGHTHAWK®	12	55	2/3/12 blister		25095	043168250955	
H7-55NHS/BP	NIGHTHAWK® SPORT	12	55	1/3/24 blister		89141	043168891417	



fig. 2

H9 | 4-lamp high beam

BASE CULOT: PGJ19-5

H9-65W BP	halogen	12	65	1/6/48 blister	3	29049	043168290494	C
H9-BULK	halogen	12	65	140 bulk		15827		



fig. 3

H11 | 4-lamp low beam

BASE CULOT: PGJ19-2

H11-55/BP	halogen	12	55	1/6/48 blister	4	23762	043168237628	C
H11-BULK	halogen	12	55	140 bulk		15828		
H11-55LL/BP	long life	12	55	1/6/48 blister		89255	043168892551	
H11LL-BULK	long life	12	55	140 bulk		15963		



fig. 4

h1>headlamps | phares | faros



fig. 5



fig. 6



fig. 7

CAPSULES | CAPSULES | CÁPSULAS

description
description
descripción

characteristic
caractéristiques
características

volts
volts
voltios

watts
watts
vatios

packaging
emballage
embalaje

fig.
fig.
fig.

order code
code de commande
cód. de pedidos

upc
upc
upc

velocity
vitesse
velocidad

H13 | 2-lamp high/low beam

BASE CULOT: P26.4t

C

H13/BP

halogen

12

65/55

1/6/48 blister

5

71342

043168713429

9003 | 2-lamp high/low beam | HB2

BASE CULOT: P43t

A

9003/BP

halogen

12.8

67/60

1/6/48 blister

6

22432

043168982443

9003/BP2

halogen

12.8

67/60

2/4 blister

72252

043168722520

9003

halogen

12.8

67/60

1/100 box

22389

043168982429

HB2-H4 BULK

halogen

12.8

67/60

200 bulk

14542

043168454704

9003SB/BP

blue halogen

12.8

67/60

1/6/48 blister

45470

043168454704

9003NH/BP

NIGHTHAWK®

12.8

67/60

1/3/24 blister

25150

043168251501

9003NH/BP2

NIGHTHAWK®

12.8

67/60

2/3/12 blister

25107

043168251075

9003NHS/BP

NIGHTHAWK® SPORT

12.8

67/60

1/3/24 blister

89139

043168891394

9004 | 2-lamp high/low beam | HB1

BASE CULOT: axial P29t

A

9004/BP

halogen

12.8

65/45

1/6/48 blister

7

18508

043168962025

9004/BP2

halogen

12.8

65/45

2/6 blister

14604

043168146043

9004

halogen

12.8

65/45

1/100 box

13382

043168133821

9004-BULK

halogen

12.8

65/45

250 bulk

18699

043168133821

9004LL BP

long life

12.8

65/45

1/6/48 blister

13993

043168139939

9004XL

long life

12.8

65/45

1/100 box

11249

043168112499

9004XL BULK

long life

12.8

65/45

250 bulk

20559

043168112499

9004HO/BP

high output

12.8

65/45

1/6/48 blister

27651

043168276511

9004HO/BP2

high output

12.8

65/45

2/6 blister

40654

043168406543

9004SB/BP

blue halogen

12.8

65/45

1/6/48 blister

45471

043168454711

9004NH/BP

NIGHTHAWK®

12.8

65/45

1/3/24 blister

25149

043168251495

9004NH/BP2

NIGHTHAWK®

12.8

65/45

2/3/12 blister

25106

043168251068

9004NHS/BP

NIGHTHAWK® SPORT

12.8

65/45

1/3/24 blister

97698

043168976985

9004NHS/BP2

NIGHTHAWK® SPORT

12.8

65/45

2/3/12 blister

97699

043168976992

h1>headlamps | phares | faros

h2>CAPSULES | CAPSULES | CÁPSULAS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

h3>9005 | 4-lamp high beam | HB3

BASE CULOT: rt angle P20d								A
9005/BP	halogen	12.8	65	1/6/48 blister	8	18509	043168962032	
9005	halogen	12.8	65	1/100 box		13384	043168133845	
9005 (HB3) NI BK	halogen	12.8	65	200 bulk		36431		
9005SB/BP	blue halogen	12.8	65	1/6/48 blister		45472	043168454728	
9005NH/BP	NIGHTHAWK®	12.8	65	1/3/24 blister		25148	043168251488	
9005NH/BP2	NIGHTHAWK®	12.8	65	2/3/12 blister		25105	043168251051	
9005NHS/BP	NIGHTHAWK® SPORT	12.8	65	1/3/24 blister		89140	043168891400	



fig. 8

h3>9005XS | 4-lamp high beam | HB3A

BASE CULOT: axial								C
9005XSLL/BP	axial base	12.8	65	1/6/48 blister	9	45866	043168458665	



fig. 9

h3>9006 | 4-lamp low beam | HB4

BASE CULOT: rt angle P22d								A
9006/BP	halogen	12.8	55	1/6/48 blister	10	18510	043168962049	
9006/BP2	halogen	12.8	55	2/4 blister		25135	043168251358	
9006	halogen	12.8	55	1/100 box		13397	043168133975	
9006 (HB4) NI BK	halogen	12.8	55	200 bulk		36432		
9006HO/BP	high output	12.8	55	1/6/48 blister		47640	043168476409	
9006SB/BP	blue halogen	12.8	55	1/6/48 blister		45473	043168454735	
9006NH/BP	NIGHTHAWK®	12.8	55	1/3/24 blister		25147	043168251471	
9006NH/BP2	NIGHTHAWK®	12.8	55	2/3/12 blister		25104	043168251044	
9006NHS/BP	NIGHTHAWK® SPORT	12.8	55	1/3/24 blister		97700	043168977005	
9006NHS/BP2	NIGHTHAWK® SPORT	12.8	55	2/3/12 blister		97701	043168977012	



fig. 10

h3>9006XS | 4-lamp low beam | HB4A

BASE CULOT: axial								B
9006XSLL/BP	axial base	12.8	55	1/6/48 blister	11	45868	043168458689	



fig. 11

h1>headlamps | phares | faros



fig. 12

CAPSULES | CAPSULES | CÁPSULAS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
9007 2-lamp high/low beam HB5								
BASE CULOT: axial PX29t								A
9007/BP	halogen	12.8	65/55	1/6/48 blister	12	22388	043168982436	
9007/BP2	halogen	12.8	65/55	2/4 blister		25136	043168251365	
9007	halogen	12.8	65/55	1/100 box		20551	043168960274	
9007 BULK	halogen	12.8	65/55	250 bulk		20552		
9007LL BULK	long life	12.8	65/55	250 bulk		10209		
9007HO/BP	high output	12.8	65/55	1/6/48 blister		47642	043168476423	
9007SB/BP	blue halogen	12.8	65/55	1/6/48 blister		45474	043168454742	
9007NH/BP	NIGHTHAWK®	12.8	65/55	1/3/24 blister		25146	043168251464	
9007NH/BP2	NIGHTHAWK®	12.8	65/55	2/3/12 blister		25103	043168251037	
9007NHS/BP	NIGHTHAWK® SPORT	12.8	65/55	1/3/24 blister		97696	043168976961	
9007NHS/BP2	NIGHTHAWK® SPORT	12.8	65/55	2/3/12 blister		97697	043168976978	



fig. 13

9008 | 2-lamp high/low beam | H13

BASE CULOT: P26.4t								C
H13/BP	halogen	12	65/55	1/6/48 blister	13	71342	043168713429	

DISCHARGE CAPSULES | CAPSULES DE DÉCHARGE | CÁPSULAS DE DESCARGA

D2R | 4-lamp reflector beam

BASE CULOT: P32d-3								E
D2R UNIT	HID	*	35	1/6/24 box	14	80851	043168808514	
D2R BULK	HID	*	35	144 bulk		46911		



fig. 14

D2S | 4-lamp projection beam

BASE CULOT: P32d-2								E
D2S UNIT	HID	*	35	1/6/24 box	15	25088	043168250887	
D2S BULK	HID	*	35	144 bulk		48504		



fig. 15

D2S | off road

BASE CULOT: P32d-2								E
D2S BLUE	no hwy use	*	35	1/32 box	15	90057	043168900577	
D2S SUPERBLUE	no hwy use	*	35	1/32 box		90059	043168900591	

SEALED BEAMS | BLOCS OPTIQUES ÉTANCHES | HACES SELLADOS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

4800 | 2-lamp high/low beam | par 56

BASE CULOT: 3 contact lugs

E

4800	28 volt military	28	50/40	1/12 box	16	24973	043168962216



fig. 16

6006 | 2-lamp high/low beam | par 56

BASE CULOT: 3 contact lugs

E

6006	6 volt	6.1	50/40	1/12 box	16	25114	043168960052

H4351 | 4-lamp low beam | 140mm | type L

BASE CULOT: right angle lugs

C

H4351	halogen	12.8	55	1/6 box	17	22386	043168960519

H4351 2 PK	halogen	12.8	55	1/2 box		27375	043168960519



fig. 17

H4351 | 4-lamp low beam

BASE CULOT: right angle lugs

E

H4351LH	export only	12.8	55	1/6 box	17	10211	043168102117

H4352 | 4-lamp high beam | 140mm | type U

BASE CULOT: right angle lugs

D

H4352	halogen	12.8	65	1/6 box	17	22387	043168960526

H4651 | 4-lamp high beam | 165mm | type 1A1

BASE CULOT: 2 contact lugs

A

H4651	halogen	12.8	50	1/6 box	18	18532	043168961219

H4651 PALLET	halogen	12.8	50	576 bulk		45027	

H4651SB	blue halogen	12.8	50	1/6 box		46375	043168463751

H5051	long life	12.8	50	1/6 box		19411	043168960281

H5051 PALLET	long life	12.8	50	576 bulk		19556	

4651	incandescent	12.8	50	1/6 box		18517	043168960038

4651 PALLET	incandescent	12.8	50	576 bulk		41861	



fig. 18

h1>headlamps | phares | faros

h2>SEALED BEAMS | BLOCS OPTIQUES ÉTANCHES | HACES SELLADOS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad



fig. 19

H4656 | 4-lamp low beam | 165mm | type 2A1

BASE CULOT: 3 contact lugs

A

H4656	halogen	12.8	35/35	1/6 box	19	18533	043168961226
H4656 PALLET	halogen	12.8	35/35	576 bulk		49810	
H4656HO	high output	12.8	40/55	1/6 box		14753	043168147538
H4656SB	blue halogen	12.8	40/55	1/6 box		45475	043168454759
H4656NH	NIGHTHAWK®	12.8	35/35	1/6 box		25098	043168250986
H4656NHS	NIGHTHAWK® SPORT	12.8	35/35	1/6 box		97695	043168976954
H5062	long life	12.8	40/55	1/6 box		19412	043168960298
H5062 PALLET	long life	12.8	40/55	576 bulk		19557	
4652	incandescent	12.8	40/60	1/6 box		18518	043168960045

H4666 | 2-lamp high/low beam | 165mm | type 2E1

BASE CULOT: 3 contact lugs

B

H4666	halogen	12.8	65/55	1/6 box	19	18535	043168961547
H4666/H4668 PALL	halogen	12.8	65/55	576 bulk		22879	
H4666NH	NIGHTHAWK®	12.8	65/55	1/6 box		28157	043168281577
H4666NHS	NIGHTHAWK® SPORT	12.8	65/55	1/6 box		97694	043168976947



fig. 20

H4701 | 4-lamp high beam | 150mm | type UF

BASE CULOT: 2 lugs

C

H4701	halogen	12.8	65	1/6 box	20	18536	043168961554
H4701 PALLET	halogen	12.8	65	480 bulk		48533	

H4703 | 4-lamp low beam | 150mm | type LF

BASE CULOT: 2 lugs

C

H4703	halogen	12.8	55	1/6 box	20	18538	043168961561
H4703 PALLET	halogen	12.8	55	480 bulk		48534	

H5001 | 4-lamp high beam | par 46 | type 1C1

BASE CULOT: 2 contact lugs

C

H5001	halogen	12.8	50	1/6 box	21	18522	043168961417
5001	incandescent	12.8	50	1/6 box		11639	043168116398



fig. 21

SEALED BEAMS | BLOCS OPTIQUES ÉTANCHES | HACES SELLADOS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

H5006 | 4-lamp low beam | par 46 | type 2C1

BASE CULOT: 3 contact lugs

B

H5006	halogen	12.8	35/35	1/6 box	22	18523	043168961240
4000	incandescent	12.8	60/38	1/6 box		18511	043168960014
4040	long life	12.8	60/38	1/12 box		38418	043168960304



fig. 22

H6024 | 2-lamp high/low beam | par 56 | type 2D1

BASE CULOT: 3 contact lugs

A

H6024	halogen	12.8	65/35	1/6 box	23	18525	043168961264
H6024 PALLET	halogen	12.8	65/35	18 Tray		13030	
H6024NH	NIGHTHAWK®	12.8	65/35	1/6 box		28153	043168281539
H6024NHS	NIGHTHAWK® SPORT	12.8	65/35	1/6 box		97693	043168976930
H5024	long life	12.8	65/42	1/6 box		19428	043168960267
6014	incandescent	12.8	60/50	1/6 box		18519	043168960069
6015	heavy duty	12.8	50/50	1/12 box		38416	043168961301
6015 PALLET	heavy duty	12.8	50/50	432 bulk		38607	



fig. 23

H6054 | 2-lamp high/low beam | 200mm | type 2B1

BASE CULOT: 3 contact lugs

A

H6054	halogen	12.8	65/35	1/6 box	24	18534	043168961271
H6054 PALLET	halogen	12.8	65/35	448 bulk		11545	
H6054HO	high output	12.8	65/55	1/6 box		14752	043168147521
H6054SB	blue halogen	12.8	65/55	1/6 box		45477	043168454773
H6054NH	NIGHTHAWK®	12.8	65/55	1/6 box		25097	043168250979
H6054NHS	NIGHTHAWK® SPORT	12.8	65/35	1/6 box		97692	043168976923
H5054	long life	12.8	65/42	1/6 box		19429	043168960311
H5054 PALLET	long life	12.8	65/42	448 bulk		19558	
6052	incandescent	12.8	65/55	1/6 box		18521	043168960076
6052 PALLET	incandescent	12.8	65/55	448 bulk		43867	



fig. 24

foglamps | anti-brouillards | lámparas para neblina



fig. 25



fig. 26

CAPSULES | CAPSULES | CÁPSULAS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
880 H27W/1								
BASE CULOT: axial (PG13)								B
880/BP	halogen	12.8	27	1/6/48 blister	25	12320	043168960366	
880 BULK	halogen	12.8	27	540 bulk		20904		
880NH/BP	NIGHTHAWK®	12.8	27	1/3/24 blister		25163	043168251631	
880NH/BP2	NIGHTHAWK®	12.8	27	2/3/12 blister		25101	043168251013	
880L BULK	long life	12.8	27	540 bulk		27582		
880X-BULK	sealed base	12.8	27	540 bulk		14694		
881 H27W/2								
BASE CULOT: rt angle (PGJ13)								C
881/BP	halogen	12.8	27	1/6/48 blister	26	12334	043168960373	
881 BULK	halogen	12.8	27	540 bulk		20905		
881 SIL BU/H27/2	sealed base	12.8	27	540 bulk		47552		
881L/BULK	long life	12.8	27	540 bulk		16305		
881L BULK	long life	12.8	27	540 bulk		27583		
885 								
BASE CULOT: axial (PG13)								D
885/BP	halogen	12.8	50	1/6/48 blister	25	12335	043168960380	
885 BULK	halogen	12.8	50	540 bulk		20907		
886 								
BASE CULOT: rt angle (PGJ13)								C
886/BP	no blacktop	12.8	50	1/6/48 blister	26	14689	043168146890	
886 BULK	no blacktop	12.8	50	540 bulk		20909		
893 								
BASE CULOT: axial (PG13)								B
893/BP	halogen	12.8	38	1/6/48 blister	25	12338	043168960540	
893 BULK	halogen	12.8	38	540 bulk		20913		
893X BULK	sealed base	12.8	38	540 bulk		12727		
893NH/BP	NIGHTHAWK®	12.8	38	1/3/24 blister		25172	043168251723	
893NH/BP2	NIGHTHAWK®	12.8	38	2/3/12 blister		25102	043168251020	

foglamps | anti-brouillards | lámparas para neblina

CAPSULES | CAPSULES | CÁPSULAS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

893CL

BASE CULOT: axial (PG13)								E
893CL BULK	no blacktop	12.8	38	540 bulk	25	89115		

894

BASE CULOT: rt angle (PGJ13)								B
894/BP	no blacktop	12.8	38	1/6/48 blister	26	22112	043168221122	
894	no blacktop	12.8	38	1/10 box		20238	043168202381	
894 BULK	no blacktop	12.8	38	540 bulk		18455		
894X BULK	sealed	12.8	38	540 bulk		26345		

896

BASE CULOT: rt angle (PGJ13)								B
896/BP	halogen	12.8	38	1/6/48 blister	26	22113	043168221139	
896 BULK	halogen	12.8	38	540 bulk		20914		

897

BASE CULOT: rt angle (PGJ13)								E
897 BULK	halogen	12.8	27	540 bulk	26	89372		

898

BASE CULOT: rt angle (PGJ13)								D
898/BP	halogen	12.8	38	1/6/48 blister	26	98093	043168980937	
898-BULK	halogen	12.8	38	540 bulk		14624		

899

BASE CULOT: axial (PG13)								C
899/BP	halogen	12.8	38	1/6/48 blister	25	22111	043168221115	
899 BULK	halogen	12.8	38	540 bulk		12272		

9145/H10

BASE CULOT: PY20d								C
9145/BP	halogen	12.8	45	1/6/48 blister	27	40843	043168408431	
9145(H10) BULK	halogen	12.8	45	200 bulk		37735		



fig. 27

foglamps | anti-brouillards | lámparas para neblina

CAPSULES | CAPSULES | CÁPSULAS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

H1

BASE CULOT: P14.5s

B

H1-55/BP	halogen	12	55	1/6/48 blister	28	40336	043168403368
H1-55	halogen	12	55	1/10 box		27328	043168273282
GE50310/1-BULK	halogen	12	55	300 bulk		32376	
GE50310 LL BULK	long life	12	55	300 bulk		12777	
H1-55NH/BP	NIGHTHAWK®	12	55	1/3/24 blister		25159	043168251594
H1-55NH/BP2	NIGHTHAWK®	12	55	2/3/12 blister		25092	043168250924

H1

BASE CULOT: P14.5s

D

H1-70 (50320/1)	truck	28	80	1/10 box	28	27569	043168275699

H2

BASE CULOT: X511

D

H2-55 (50410)	halogen	12	55	1/10 box	29	27330	043168273305

H3

BASE CULOT: PK22s

A

H3-55/BP	halogen	12	55	1/6/48 blister	30	12339	043168962179
H3-55	halogen	12	55	1/10 box		27331	043168273312
GE50340 H3 BULK	halogen	12	55	400 bulk		22132	
GE50340HD BULK	heavy duty	12	55	400 bulk		23445	
50340LL BULK H3	long life	12	55	400 bulk		35044	

H3

BASE CULOT: PK22s

D

H3-100/BP (52130)	high output	12	100	1/6/48 blister	30	12341	043168962186

H3

BASE CULOT: PK22s

E

GE50390 H3-35 BULK	low output	12	35	400 bulk	30	23442	



fig. 28



fig. 29



fig. 30

foglamps | anti-brouillards | lámparas para neblina

CAPSULES | CAPSULES | CÁPSULAS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

H3

BASE CULOT: PK22s								E
GE 52590HD BULK	bus	28	66	400 bulk	30	23428		

H3

BASE CULOT: PK22s								D
H3-70	bus	28	75	1/10 box	30	27332	043168273329	
GE 50350 BULK	bus	28	75	400 bulk		23438		

H8

BASE CULOT: PGJ19-1								D
H8-35W BP	halogen	12	35	1/6/48 blister	31	29047	043168290470	
H8-BULK	halogen	12	35	140 bulk		15765		



fig. 31

SEALED BEAMS | BLOCS OPTIQUES ÉTANCHES | HACES SELLADOS

4405

BASE CULOT: screw terminals								B
4405	incandescent	12.8	30	1/12 box	32	24425	043168244251	
4405 BULK	incandescent	12.8	30	60 bulk		24423		



fig. 32

4411

BASE CULOT: screw terminals								B
4411 UPC	incandescent	12.8	35	1/12 box	32	22980	043168960588	
4411	incandescent	12.8	35	1/12 box		24448		
4411 BULK	incandescent	12.8	35	60 bulk		24443		

4412

BASE CULOT: screw terminals								C
4412	incandescent	12.8	35	1/12 box	33	24454	043168244541	
4412 BULK	incandescent	12.8	35	24 bulk		24453		



fig. 33

foglamps | anti-brouillards | lámparas para neblina

SEALED BEAMS | BLOCS OPTIQUES ÉTANCHES | HACES SELLADOS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

4412A

BASE CULOT: screw terminals

C

4412A	amber lens	12.8	35	1/12 box	34	24460	043168244602

4414

BASE CULOT: screw terminals

B

4414	incandescent	12.8	18	1/12 box	35	24478	043168960328

4414 BULK	incandescent	12.8	18	60 bulk		24477	

4415

BASE CULOT: screw terminals

C

4415	incandescent	12.8	35	1/12 box	35	22982	043168960601

4415A

BASE CULOT: screw terminals

C

4415A UNIT	amber lens	12.8	35	1/12 box	36	24499	043168244992

4415A BULK	amber lens	12.8	35	60 bulk		24497	

4421

BASE CULOT: slip-on terminals

C

4421	incandescent	13	100	1/12 box	37	24539	043168245395

4421 BULK	incandescent	13	100	24 bulk		24541	

4434A

BASE CULOT: screw terminals

D

4434A	amber lens	12.8	40	1/12 box	34	24572	043168962209

4537-2

BASE CULOT: screw terminals

C

4537-2	incandescent	13	100	1/12 box	37	40882	043168961721

4579

BASE CULOT: 3 contact lugs

E

4579	incandescent	28	80/60	1/12 box	37	25009	043168961769

4579 BULK	incandescent	28	80/60	24 bulk		25011	

foglamps | anti-brouillards | lámparas para neblina

SEALED BEAMS | BLOCS OPTIQUES ÉTANCHES | HACES SELLADOS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

4912-1

BASE CULOT: slip-on terminals								D
4912-1	incandescent	12.8	50	1/12 box	38	45110	043168451109	
4912-1 PALLET	incandescent	12.8	50	576 bulk		45111		



fig. 38

4921-1

BASE CULOT: slip-on terminals								C
4921-1	incandescent	13	100	1/12 box	38	45116	043168961912	
4921-1 PALLET	incandescent	13	100	576 bulk		16195		

H7604

BASE CULOT: screw terminals								C
H7604	halogen	12.8	50	1/12 box	35	43576	043168961875	
H7604 BULK	halogen	12.8	50	60 bulk		43577		

H7612

BASE CULOT: screw terminals								D
H7612	halogen	12.8	38	1/12 box	37	49695	043168496957	

H7935-1

BASE CULOT: slip-on terminals								B
H7935-1	halogen	12.8	50	1/6 box	38	47460	043168474603	
H7935-1 BULK	halogen	12.8	50	16 bulk		14892		

H7921-1

BASE CULOT: slip-on terminals								
H7921-1 BULK	halogen	12.8	50	16 bulk	38	13426		

H9415

BASE CULOT: 2 right angle lugs								C
H9415	halogen	12.8	38	1/12 box	39	16484	043168962513	
H9415 BULK	halogen	12.8	38	48 bulk		16483		



fig. 39

H9415A

BASE CULOT: 2 right angle lugs								D
H9415A	amber lens	12.8	38	1/12 box	40	17988	043168962520	



fig. 40

foglamps | anti-brouillards | lámparas para neblina

SEALED BEAMS | BLOCS OPTIQUES ÉTANCHES | HACES SELLADOS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad



fig. 41

H9420

BASE CULOT: 2 right angle lugs

C

H9420	halogen	12.8	50	1/12 box	41	16976	043168962384
H9420 BULK	halogen	12.8	50	48 bulk		16978	

H9421

BASE CULOT: 2 right angle lugs

C

H9421	halogen	12.8	50	1/12 box	41	16482	043168962230
H9421 BULK	halogen	12.8	50	48 bulk		16204	

STOP, TURN SIGNAL, TAIL, AND BACKUP LAMPS
FREINAGE, CLIGNOTANT, ARRIÈRE ET MARCHÉ ARRIÈRE
LÁMPARAS DE PARADA, SEÑAL DE VIRAJE, COLA Y MARCHA ATRÁS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

198 | stop, turn, tail

BASE CULOT: DC index (BAY15d)								B
198/BP2	heavy duty truck	12.8/14	29/8	2/6/48 blister	42	00760	043168007603	
198	heavy duty truck	12.8/14	29/8	10/50 tray		37983	043168379830	
198 BULK	heavy duty truck	12.8/14	29/8	500 bulk		37984		



fig. 42

199 | stop, turn

BASE CULOT: SC bayonet (BA15s)								B
199	heavy duty truck	12.8	29	10/50 tray	43	37985	043168963022	
199 BULK	heavy duty truck	12.8	29	500 bulk		37986		



fig. 43

1034 | stop, turn, tail

BASE CULOT: DC index (BAY15d)								D
1034	standard	12.8/14	23/8	10/50 tray	42	26775	043168267755	

1073 | stop, turn

BASE CULOT: SC bayonet (BA15s)								D
1073/BP2	standard	12.8	23	2/6/48 blister	43	40134	043168401340	
1073	standard	12.8	23	10/50 tray		26838	043168268387	
1073 NH/BP2	NIGHTHAWK®	12.8	23	2/6/48 blister		71905	043168719056	

1076 | stop

BASE CULOT: DC bayonet (BA15d)								B
1076/BP2	standard	12.8	23	2/6/48 blister	44	00765	043168007658	
1076	standard	12.8	23	10/50 tray		26854	043168962872	



fig. 44

1141 | backup, cornering

BASE CULOT: SC bayonet (BA15s)								B
1141/BP2	standard	12.8	18	2/6/48 blister	43	12346	043168961097	
1141	standard	12.8	18	10/50 tray		26903	043168962674	
1141LL/BP2	long life	12.8	18	2/6/48 blister		47802	043168478021	
1141NH/BP2	NIGHTHAWK®	12.8	18	2/6/48 blister		71897	043168718974	

STOP, TURN SIGNAL, TAIL, AND BACKUP LAMPS
FREINAGE, CLIGNOTANT, ARRIÈRE ET MARCHÉ ARRIÈRE
LÁMPARAS DE PARADA, SEÑAL DE VIRAJE, COLA Y MARCHA ATRÁS

description description	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

1142 | backup, marine

BASE CULOT: DC bayonet (BA15d) B

1142/BP2	standard	12.8	18	2/6/48 blister	45	00759	043168007597
1142	standard	12.8	18	10/50 tray		26917	043168963091

1154 | stop, turn, tail

BASE CULOT: DC index (BA15d) C

1154/BP2	standard	6.4/7	17/5	2/6/48 blister	46	12297	043168961103
1154 NH/BP2	NIGHTHAWK®	6.4/7	17/5	2/6/48 blister		71889	043168718899

1156 | stop, turn

BASE CULOT: SC bayonet (BA15s) A

1156/BP2	standard	12.8	27	2/6/48 blister	47	12344	043168961110
1156	standard	12.8	27	10/50 tray		26960	043168269605
1156 BULK	standard	12.8	27	500 bulk		26962	
1156LL/BP2	long life	12.8	27	2/6/48 blister		23334	043168233347
1156KR-BULK	long life	12.8	27	1000 bulk		11666	
1156NH/BP2	NIGHTHAWK®	12.8	27	2/6/48 blister		89241	043168892414

1156NA | front turn

BASE CULOT: SC bayonet (BA15s) C

1156NA/BP2	amber bulb	12.8	27	2/6/48 blister	48	21028	043168210287
1156NA	amber bulb	12.8	27	10/50 tray		20248	043168963107

1157 | stop, turn, tail

BASE CULOT: DC index (BAY15d) A

1157/BP2	standard	12.8/14	27/8	2/6/48 blister	46	12294	043168961127
1157	standard	12.8/14	27/8	10/50 tray		26969	043168960359
1157 BULK	standard	12.8/14	27/8	500 bulk		26971	
1157LL/BP2	long life	12.8/14	27/8	2/6/48 blister		23337	043168233378
1157NH/BP2	NIGHTHAWK®	12.8/14	27/8	2/6/48 blister		89236	043168892360

STOP, TURN SIGNAL, TAIL, AND BACKUP LAMPS
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description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
1157NA front turn, tail								
BASE CULOT: DC index (BAY15d)								B
1157NA/BP2	amber bulb	12.8/14	27/8	2/6/48 blister	49	12310	043168961134	
1157NA	amber bulb	12.8/14	27/8	10/50 tray		26975	043168269759	
1157NA BULK	amber bulb	12.8/14	27/8	500 bulk		26976		
1157NALL/BP2	long life	12.8/14	27/8	2/6/48 blister		47798	043168477987	
1157NA NH/BP2	NIGHTHAWK®	12.8/14	27/8	2/6/48 blister		71891	043168718912	
1176 stop, turn, tail								
BASE CULOT: DC bayonet (BA15d)								D
1176/BP2	standard	12.8/14	17/8	2/6/48 blister	45	00769	043168007696	
1176	standard	12.8/14	17/8	10 tray		27004	043168963169	
1195 cornering								
BASE CULOT: SC bayonet (BA15s)								D
1195	standard	12.5	38	10 tray		27021	043168270212	
1195 BULK	standard	12.5	38	500 bulk		27023		
1196 cornering								
BASE CULOT: DC bayonet (BA15d)								E
1196	standard	12.5	38	10 tray		27026	043168270267	
1295NA front turn								
BASE CULOT: SC bayonet (BA15s)								D
1295NA	amber bulb	12.5	38	10 tray	48	22523	043168225236	
1662 stop, turn, tail								
BASE CULOT: DC index (BAY15d)								E
1662	28 volt bus	28	28/10	10 tray	46	27529	043168963084	



fig. 49

STOP, TURN SIGNAL, TAIL, AND BACKUP LAMPS
 FREINAGE, CLIGNOTANT, ARRIÈRE ET MARCHÉ ARRIÈRE
 LÁMPARAS DE PARADA, SEÑAL DE VIRAJE, COLA Y MARCHA ATRÁS



fig. 50

2057 | stop, turn, tail

description description descripción		characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
BASE CULOT: DC index (BA15d)									A
2057/BP2		standard	12.8/14	27/7	2/6/48 blister	50	12296	043168961493	
2057		standard	12.8/14	27/7	10/50 tray		44760	043168447601	
2057Q BULK		standard	12.8/14	27/7	500 bulk		18620		
2057LL/BP2		long life	12.8/14	27/7	2/6/48 blister		23339	043168233392	
2057NH/BP2		NIGHTHAWK®	12.8/14	27/7	2/6/48 blister		89237	043168892377	



fig. 51

2057NA | front turn, tail

BASE CULOT: DC index (BAY15d)									C
2057NA/BP2		amber bulb	12.8/14	27/7	2/6/48 blister	51	12312	043168961509	
2057NA		amber bulb	12.8/14	27/7	10/50 tray		44763	043168447638	
2057NALL/BP2		long life	12.8/14	27/7	2/6/48 blister		47799	043168477994	
2057NA NH/BP2		NIGHTHAWK®	12.8/14	27/7	2/6/48 blister		71892	043168718929	

2058U |

BASE CULOT: wire terminals									E
2058U BULK			12.8/14	27/7	600 bulk		12899		

2144 |

BASE CULOT: wire terminals									E
2144 BULK			12.8	27/7	600 bulk		17479		

2357 | stop, turn, tail

BASE CULOT: DC index (BAY15d)									C
2357/BP2		standard	12.8/14	28/8	2/6/48 blister	50	12298	043168962148	
2357		standard	12.8/14	28/8	10/50 tray		16291	043168162913	
2357 BULK		standard	12.8/14	28/8	500 bulk		16290		
2357NH/BP2		NIGHTHAWK®	12.8/14	28/8	2/6/48 blister		71890	043168718905	

2357NA | front turn, tail

BASE CULOT: DC index (BA15d)									C
2357NA/BP2		amber bulb	12.8/14	28/8	2/6/48 blister	51	12299	043168962155	
2357NA		amber bulb	12.8/14	28/8	10/50 tray		15698	043168156981	
2357NA BULK		amber bulb	12.8/14	28/8	500 bulk		15699		

STOP, TURN SIGNAL, TAIL, AND BACKUP LAMPS
FREINAGE, CLIGNOTANT, ARRIÈRE ET MARCHE ARRIÈRE
LÁMPARAS DE PARADA, SEÑAL DE VIRAJE, COLA Y MARCHA ATRÁS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
2396 stop, turn								
BASE CULOT: SC bayonet (BA15s)								D
2396	standard	12.8	29	10 tray	52	18047	043168962810	
3057 stop, turn, tail								
BASE CULOT: wedge (W2.5 x 16q)								A
3057/BP2	standard	12.8/14	27/7	2/6/48 blister	53	12305	043168962070	
3057	standard	12.8/14	27/7	10/50 tray		18389	043168183895	
3057LL/BP2	long life	12.8/14	27/7	2/6/48 blister		26378	043168263788	
3057NH/BP2	NIGHTHAWK®	12.8/14	27/7	2/6/48 blister		89243	043168892438	
3057NA front turn, tail								
BASE CULOT: wedge (W2.5 x 16q)								B
3057NA/BP2	amber bulb	12.8/14	27/7	2/6/48 blister	54	12313	043168962087	
3057NA	amber bulb	12.8/14	27/7	10/50 tray		18391	043168183918	
3155 turn								
BASE CULOT: wedge (W2.5 x 16d)								C
3155/BP2	standard	12.8	20	2/6/48 blister	55	23028	043168230285	
3156 stop, turn								
BASE CULOT: wedge (W2.5 x 16d)								A
3156/BP2	standard	12.8	27	2/6/48 blister	55	12351	043168960502	
3156	standard	12.8	27	10/50 tray		21863	043168962803	
3156LL/BP2	long life	12.8	27	2/6/48 blister		27565	043168275651	
3156 NH/BP2	NIGHTHAWK®	12.8	27	2/6/48 blister		71898	043168718981	
3157 stop, turn, tail								
BASE CULOT: wedge (W2.5 x 16q)								A
3157/BP2	standard	12.8/14	27/8	2/6/48 blister	53	12306	043168962056	
3157	standard	12.8/14	27/8	10/50 tray		17172	043168171724	
3157LL/BP2	long life	12.8/14	27/8	2/6/48 blister		26377	043168263771	
3157NH/BP2	NIGHTHAWK®	12.8/14	27/8	2/6/48 blister		89244	043168892445	



STOP, TURN SIGNAL, TAIL, AND BACKUP LAMPS
FREINAGE, CLIGNOTANT, ARRIÈRE ET MARCHÉ ARRIÈRE
LÁMPARAS DE PARADA, SEÑAL DE VIRAJE, COLA Y MARCHA ATRÁS

description description	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad



3157NA | front turn, tail

BASE CULOT: wedge (W2.5 x 16q) A

3157NA/BP2	amber bulb	12.8/14	27/8	2/6/48 blister	56	12314	043168962063
3157NA	amber bulb	12.8/14	27/8	10/50 tray		17173	043168171731
3157NALL/BP2	long life	12.8/14	27/8	2/6/48 blister		26380	043168263801
3157NA NH/BP2	NIGHTHAWK®	12.8/14	27/8	2/6/48 blister		71893	043168718936



3457 | stop, turn, tail

BASE CULOT: wedge (W2.5 x 16q) B

3457/BP2	standard	12.8/14	29/8	2/6/48 blister	57	14387	043168143875
3457	standard	12.8/14	29/8	10/50 tray		22525	043168225250
3457LL/BP2	long life	12.8/14	29/8	2/6/48 blister		26379	043168263795
3457 NH/BP2	NIGHTHAWK®	12.8/14	29/8	2/6/48 blister		71901	043168719018

3457NA | front turn, tail

BASE CULOT: wedge (W2.5 x 16q) B

3457NA/BP2	amber bulb	12.8/14	29/8	2/6/48 blister	56	14388	043168143882
3457NA	amber bulb	12.8/14	29/8	10/50 tray		22526	043168225267

3496 | stop, turn, tail

BASE CULOT: DC index (BAY15d) C

3496/BP	asian vehicles	12.8/14	27/8	1/6/48 blister		25834	043168258340

3497 | stop, turn

BASE CULOT: SC bayonet (BA15s) C

3497/BP	asian vehicles	12.8	27	1/6/48 blister	58	25835	043168258357



4157 | stop, turn, tail

BASE CULOT: wedge (W2.5 x 16q) C

4157LL BP2	long life	12.8/14	29/8	2/6/48 blister	57	15657	043168156578

4157NA | front turn, tail

BASE CULOT: wedge (W2.5 x 16q) D

4157NALL/BP2	amber bulb	12.8/14	29/8	2/6/48 blister	56	47458	043168474580

STOP, TURN SIGNAL, TAIL, AND BACKUP LAMPS
FREINAGE, CLIGNOTANT, ARRIÈRE ET MARCHE ARRIÈRE
LÁMPARAS DE PARADA, SEÑAL DE VIRAJE, COLA Y MARCHA ATRÁS

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
7440 stop, turn								
BASE CULOT: wedge (103 x 16DQ)								D
7440/BP2	asian vehicles	13.5	25	2/6/48 blister	59	26200	043168262002	
7443 stop, turn, tail								
BASE CULOT: wedge (103 x 16DQ)								B
7443/BP2	asian vehicles	13.5/13.5	25/5	2/6/48 blister	60	26201	043168262019	
7443NH/BP2	NIGHTHAWK®	13.5/13.5	25/5	2/6/48 blister		89248	043168892483	
P21/4W stop, turn, tail								
BASE CULOT: DC index (BAY15d)								D
P21/4W/BP2	europa vehicles	13.5/13.5	25/4	2/6/48 blister	61	27561	043168275613	
P21/4W-BULK	europa vehicles	13.5/13.5	25/4	1000 bulk		18271	043168182713	
P21/5W stop, turn, tail								
BASE CULOT: DC index (BAY15d)								B
P21/5W/BP2	europa vehicles	13.5/13.5	25/6	2/6/48 blister	61	23303	043168233033	
P25-2 BULK	europa vehicles	13.5/13.5	25/6	1000 bulk		11604		
P21/5W LL/BP2	long life	13.5/13.5	25/6	2/6/48 blister		20700	043168207003	
P21/5W LL BULK	long life	13.5/13.5	25/6	1000 bulk		21274		
P21/5W NH/BP2	NIGHTHAWK®	13.5/13.5	25/6	2/6/48 blister		89246	043168892469	
P21/5W stop, turn, tail								
BASE CULOT: DC index (BAY15d)								D
P21/5W BULK 24V	28 volt truck	28	28/10	1000 bulk	61	30856		
P21W stop, turn								
BASE CULOT: SC bayonet (BA15s)								B
P21W/BP2	europa vehicles	13.5	25	2/6/48 blister	62	23306	043168233064	
P25-1 PBF BULK	europa vehicles	13.5	25	1000 bulk		28771		
P21W LL/BP2	long life	13.5	25	2/6/48 blister		20695	043168206952	
P21W NH/BP2	NIGHTHAWK®	13.5	25	2/6/48 blister		89247	043168892476	



fig. 59



fig. 60



fig. 61



fig. 62

STOP, TURN SIGNAL, TAIL, AND BACKUP LAMPS
FREINAGE, CLIGNOTANT, ARRIÈRE ET MARCHÉ ARRIÈRE
LÁMPARAS DE PARADA, SEÑAL DE VIRAJE, COLA Y MARCHA ATRÁS



fig. 63

description description	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

P21W | stop, turn

BASE CULOT: SC bayonet (BA15s)

C

P21W 24V	28 volt truck	28	28	10 tray	63	40778	043168407786

PY21W | front turn

BASE CULOT: SC bayonet (BA15s)

E

PY21W BULK	amber	13,5	25	500 bulk	64	18294	



fig. 64

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS
LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL



fig. 65

24 | sidemarker, license

BASE CULOT: T2.5 wedge

C

24/BP2	standard	14	3.36	2/6/48 blister	65	12325	043168960427
24	standard	14	3.36	10/50 tray		17853	043168962841

24NA | front sidemarker

BASE CULOT: T2.5 wedge

E

24NA/BP2	amber bulb	14	3.36	2/6/48 blister		12316	043168960434

37 | instrument, courtesy

BASE CULOT: wedge (W2.1 x 4.9d)

A

37/BP2	standard	14	1.26	2/6/48 blister	66	26480	043168264808
37	standard	14	1.26	10/50 tray		39220	043168962865
37 BULK	standard	14	1.26	4000 bulk		17460	



fig. 66

51 | instrument

BASE CULOT: min bayonet (BA9s)

D

51/BP2	standard	7.5	1.65	2/6/48 blister	67	00761	043168007610
51	standard	7.5	1.65	10/50 tray		25529	043168963114



fig. 67

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPSLAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

53 | instrument

BASE CULOT: min bayonet (BA9s)

D

53/BP2	standard	14.4	1.73	2/6/48 blister	67	12333	043168962094	
53	standard	14.4	1.73	10/50 tray		25550	043168255509	
53 BULK	standard	14.4	1.73	4000 bulk		25552		

55 | instrument

BASE CULOT: min bayonet (BA9s)

D

55/BP2	standard	7	2.87	2/6/48 blister	67	00762	043168007627	
55	standard	7	2.87	10/50 tray		25576	043168963008	

57 | instrument, sidemarker

BASE CULOT: min bayonet (BA9s)

D

57/BP2	standard	14	3.36	2/6/48 blister	67	23218	043168232180	
57	standard	14	3.36	10/50 tray		25591	043168255912	

63 | license

BASE CULOT: SC bayonet (BA15s)

D

63/BP2	standard	7	4.41	2/6/48 blister	68	12321	043168961011	

67 | license

BASE CULOT: SC bayonet (BA15s)

A

67/BP2	standard	13.5	7.97	2/6/48 blister	68	12324	043168962100	
67	standard	13.5	7.97	10/50 tray		25652	043168256520	
67 BULK	standard	13.5	7.97	1000 bulk		25654		
67 NH/BP2	NIGHTHAWK®	13.5	7.97	2/6/48 blister		71895	043168718950	

70 | instrument

BASE CULOT: wedge (W2.1 x 4.9d)

C

70	standard	14	2.1	10/50 tray	66	43606	043168436069	

73 | instrument

BASE CULOT: wedge (W2.1 x 4.9d)

C

73/BP2	standard	14	1.12	2/6/48 blister	66	23015	043168230155	
73 PBF BULK	standard	14	1.12	4000 bulk		28770		



fig. 68

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS
LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

description description	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig.	order code code de commande cód. de pedidos	upc upc	velocity vitesse velocidad



fig. 69

74 | instrument, courtesy

BASE CULOT: wedge (W2.1 x 4.9d)								B
74/BP2	standard	14	1.4	2/6/48 blister	69	21029	043168210294	
74	standard	14	1.4	10/50 tray		38457	043168962780	
74 BULK	standard	14	1.4	4000 bulk		38458		



fig. 70

81 | cargo

BASE CULOT: SC bayonet (BA15s)								D
81/BP2	standard	6.5	1.02	2/6/48 blister	70	00763	043168007634	
81	standard	6.5	1.02	10/50 tray		25736	043168963565	

89 | trunk, underhood

BASE CULOT: SC bayonet (BA15s)								C
89/BP2	standard	13	7.54	2/6/48 blister	70	12363	043168961028	
89	standard	13	7.54	10/50 tray		25778	043168257787	
89LL/BP2	long life	13	7.54	2/6/48 blister		47797	043168477970	



fig. 71

90 | trunk, marine

BASE CULOT: DC bayonet (BA15d)								D
90/BP2	standard	13	7.54	2/6/48 blister	71	12364	043168961035	
90	standard	13	7.54	10/50 tray		25794	043168962797	
90 BULK	standard			1000 bulk		25796		



fig. 72

93 | underhood, backup

BASE CULOT: SC bayonet (BA15s)								D
93/BP2	standard	12.8	13.31	2/6/48 blister	72	23217	043168232173	
93	standard	12.8	13.31	10/50 tray		25811	043168963015	
93 BULK	standard	12.8	13.31	500 bulk		17461		
93 NH/BP2	NIGHTHAWK®	12.8	13.31	2/6/48 blister		71904	043168719049	



fig. 73

94 | courtesy, backup

BASE CULOT: DC bayonet (BA15d)								D
94/BP2	standard	12.8	13.31	2/6/48 blister	73	00764	043168007641	
94	standard	12.8	13.31	10/50 tray		25829	043168963497	
94 BULK	standard	12.8	13.31	500 bulk		25831		

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS

LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
 LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
97 license, courtesy								
BASE CULOT: SC bayonet (BA15s)								B
97/BP2	standard	13.5	9.32	2/6/48 blister	70	12322	043168961042	
97	standard	13.5	9.32	10/50 tray		25836	043168258364	
97 BULK	standard	13.5	9.32	1000 bulk		25838		
98 underhood, courtesy								
BASE CULOT: SC bayonet (BA15s)								C
98	standard	13	8.06	10/50 tray	70	16287	043168162876	
105 underhood								
BASE CULOT: SC bayonet (BA15s)								C
105	standard	12.8	12.8	10/50 tray	74	36147	043168963275	
158 instrument								
BASE CULOT: wedge (W2.1 x 9.5d)								C
158	standard	14	3.36	10/50 tray	75	25931	043168962834	
161 instrument								
BASE CULOT: wedge (W2.1 x 9.5d)								C
161/BP2	standard	14	2.66	2/6/48 blister	75	23016	043168230162	
161	standard	14	2.66	10/50 tray		25956	043168963077	
161-Q BULK	standard	14	2.66	4000 bulk		16489		
161 NH/BP2	NIGHTHAWK®	14	2.66	2/6/48 blister		71902	043168719025	
168 courtesy, license								
BASE CULOT: wedge (W2.1 x 9.5d)								B
168/BP2	standard	14	4.9	2/6/48 blister	75	12327	043168961165	
168	standard	14	4.9	10/50 tray		25962	043168961691	
168 PBF BULK	standard	14	4.9	4000 bulk		28757		
168LL/BP2	long life	14	4.9	2/6/48 blister		47827	043168478274	
168NH/BP2	NIGHTHAWK®	14	4.9	2/6/48 blister		89239	043168892391	



fig. 74



fig. 75

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS
LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL



fig. 76

description description	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig.	order code code de commande cód. de pedidos	upc upc	velocity vitesse velocidad

193 | sidemarker

BASE CULOT: wedge (W2.1 x 9.5d)

B

193	standard	14	4.62	10/50 tray	76	19553	043168962957

193E1 | sealed sidemarker

BASE CULOT: wire terminal

E

193E-1/BULK	wire leads	14	4.62	4000 bulk		11807	

194 | instrument, license

BASE CULOT: wedge (W2.1 x 9.5d)

A

194/BP2	standard	14	3.78	2/6/48 blister	76	12328	043168961059

194	standard	14	3.78	10/50 tray		25965	043168259651

194 PBF BULK	standard	14	3.78	4000 bulk		28758	

194LL/BP2	long life	14	3.78	2/6/48 blister		25832	043168258326

194NH/BP2	NIGHTHAWK®	14	3.78	2/6/48 blister		89240	043168892407



fig. 77

194B | instrument

BASE CULOT: wedge (W2.1 x 9.5d)

C

194B/BP2	blue	14	3.78	2/6/48 blister	77	12356	043168960472

194G | instrument

BASE CULOT: wedge (W2.1 x 9.5d)

C

194G/BP2	green	14	3.78	2/6/48 blister	78	12357	043168960465



fig. 78

194R | instrument

BASE CULOT: wedge (W2.1 x 9.5d)

C

194R/BP2	red	14	3.78	2/6/48 blister	79	12355	043168960458



fig. 79

194NA | front sidemarker

BASE CULOT: wedge (W2.1 x 9.5d)

A

194NA/BP2	amber bulb	14	3.78	2/6/48 blister	80	12319	043168960441

194NA	amber bulb	14	3.78	10/50 tray		44859	043168962902

194NA/LL/BP2	long life	14	3.78	2/6/48 blister		47794	043168477949

194NA NH/BP2	NIGHTHAWK®	14	3.78	2/6/48 blister		71894	043168718943



fig. 80

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS

LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

211-2 | cargo, trunk, dome

BASE CULOT: miniature cap								B
211-2/BP2	standard	12.8	12.42	2/6/48 blister	81	12673	043168961066	
211-2	standard	12.8	12.42	10/50 tray		39224	043168392242	
211-2 BULK	standard	12.8	12.42	2520 bulk		11803		
211-2 NH/BP2	NIGHTHAWK®	12.8	12.42	2/6/48 blister		71900	043168719001	

212-2 | courtesy, trunk

BASE CULOT: miniature cap								D
212-2/BP2	standard	13.5	10	2/6/48 blister	81	23220	043168232203	
212-2 BULK	standard	13.5	10	2520 bulk		11806		

214-2 | courtesy

BASE CULOT: miniature cap								C
214-2	standard	13.5	7.02	10/50 tray	81	39356	043168963985	
214-2 BULK	standard	13.5	7.02	2520 bulk		11804		

558 | instrument

BASE CULOT: wedge (W2.1 x 9.5d)								D
558	lens end	13	4.29	10/50 tray	76	38269	043168963824	

561 | underhood

BASE CULOT: rigid loop								B
561/BP2	standard	12.8	12.42	2/6/48 blister	82	12358	043168961578	
561	standard	12.8	12.42	10/50 tray		39746	043168962698	
561 BULK	standard	12.8	12.42	2520 bulk		11820		

562 | courtesy

BASE CULOT: rigid loop								D
562/BP2	standard	13.5	10	2/6/48 blister	82	23019	043168230193	
562 BULK	standard	13.5	10	2520 bulk		11822		

563 | courtesy

BASE CULOT: rigid loop								E
563 BULK	standard	13.5	7.02	1000 bulk	82	11825		



fig. 81



fig. 82

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS
LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL



fig. 83

description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

631 | courtesy

BASE CULOT: SC bayonet (BA15s)

D

631	standard	14	8.82	10/50 tray	83	26570	043168963305	

882 | instrument

BASE CULOT: PC socket

D

882	halogen	12.8	4.48	1/10 tray	84	13158	043168963732	

882 BULK	halogen	12.8	4.48	1000 bulk		13161		



fig. 84

882X | instrument

BASE CULOT: 2-pin (G4)

E

882-X UNIT	halogen	12.8	4.48	1/10 tray	85	18167	043168181679	

882-X BULK	halogen	12.8	4.48	500 bulk		16772		



fig. 85

889 | high mount stop

BASE CULOT: rt angle (PGJ13)

C

889/BP	halogen	12.8	26.88	1/6/48 blister	86	12336	043168960397	

889 BULK	halogen	12.8	26.88	540 bulk		20910		



fig. 86

890 | high mount stop

BASE CULOT: axial (PG13)

C

890/BP	halogen	12.8	26.88	1/6/48 blister	87	12337	043168960403	

890 BULK	halogen	12.8	26.88	540 bulk		20911		



fig. 87

891 | high mount stop

BASE CULOT: 2-pin (G4)

C

891/BP	halogen	12.8	8.06	1/6/48 blister	85	12308	043168960533	

891	halogen	12.8	8.06	1/10 tray		15246	043168963138	

891 BULK	halogen	12.8	8.06	500 bulk		15248		

891Q BULK	halogen	12.8	8.06	500 bulk		49879		

892 | backup

BASE CULOT: axial (PG13)

D

892	halogen	12.8	16	1/10 tray	87	16481	043168963589	

892 BULK	halogen	12.8	16	540 bulk		20912		

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS

LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

901 | landscape

BASE CULOT: wedge (W2.1 x 9.5d)								D
901/BP2	standard	12.8	4	2/6/48 blister	88	14273	043168142731	
901-BULK	standard	12.8	4	1000 bulk		14007		



fig. 88

904 | map, sidemarker

BASE CULOT: wedge (W2.1 x 9.5d)								B
904/BP2	standard	13.5	9.32	2/6/48 blister	88	23024	043168230247	
904	standard	13.5	9.32	10/50 tray		40462	043168963435	
904 BULK	standard	13.5	9.32	1000 bulk		40463		

906 | underhood, cargo

BASE CULOT: wedge (W2.1 x 9.5d)								B
906/BP2	standard	13	8.97	2/6/48 blister	88	12366	043168960489	
906	standard	13	8.97	10/50 tray		40289	043168962728	
906 PBF BULK	standard	13	8.97	1000 bulk		28763		

912 | underhood, courtesy

BASE CULOT: wedge (W2.1 x 9.5d)								A
912/BP2	standard	12.8	12.8	2/6/48 blister	88	12365	043168961585	
912	standard	12.8	12.8	10/50 tray		40504	043168962681	
912 PBF BULK	standard	12.8	12.8	1000 bulk		28767		
912NH/BP2	NIGHTHAWK®	12.8	12.8	2/6/48 blister		89242	043168892421	

916 | dome, high mount stop

BASE CULOT: wedge (W2.1 x 9.5d)								D
916/BP2	standard	13.5	7.29	2/6/48 blister	88	23025	043168230254	
916 PBF BULK	standard	13.5	7.29	1000 bulk		28768		

916NA | front sidemarker

BASE CULOT: wedge (W2.1 x 9.5d)								D
916NA/BP2	amber bulb	13.5	7.29	2/6/48 blister	89	23026	043168230261	
916NA	amber bulb	13.5	7.29	10/50 tray		21860	043168962858	



fig. 89

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS
LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL



fig. 90

description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

918 | landscape

BASE CULOT: wedge (W2.1 x 9.5d)								C
918/BP2	standard	12.8	7.17	2/6/30 blister	90	40179	043168401791	
918	standard	12.8	7.17	10/50 tray		17837	043168178372	

921 | cornering, stop

BASE CULOT: wedge (W2.1 x 9.5d)								A
921/BP2	standard	12.8	17.92	2/6/48 blister	90	12307	043168961592	
921	standard	12.8	17.92	10/50 tray		43374	043168962759	
921PBF BULK	standard	12.8	17.92	1000 bulk		45752		
921NH/BP2	NIGHTHAWK®	12.8	17.92	2/6/48 blister		89238	043168892384	

922 | high mount stop

BASE CULOT: wedge (W2.1 x 9.5d)								B
922/BP2	standard	12.8	12.54	2/6/48 blister	90	23027	043168230278	
922	standard	12.8	12.54	10/50 tray		13274	043168963350	
922 BULK	standard	12.8	12.54	1000 bulk		13275		
922 NH/BP2	NIGHTHAWK®	12.8	12.54	2/6/48 blister		71903	043168719032	

923 | landscape

BASE CULOT: wedge (W2.1 x 9.5d)								C
923/BP2	standard	12.8	11.65	2/6/30 blister	90	40180	043168401807	

1003 | license, underhood

BASE CULOT: SC bayonet (BA15s)								B
1003/BP2	standard	12.8	12.03	2/6/48 blister	91	12367	043168961073	
1003	standard	12.8	12.03	10/50 tray		26709	043168267090	
1003LL/BP2	long life	12.8	12.03	2/6/48 blister		47800	043168478007	
1003 NH/BP2	NIGHTHAWK®	12.8	12.03	2/6/48 blister		71899	043168718998	



fig. 91

1004 | underhood

BASE CULOT: DC bayonet (BA15d)								C
1004/BP2	standard	12.8	12.03	2/6/48 blister	92	12373	043168961080	
1004	standard	12.8	12.03	10/50 tray		26726	043168267267	
1004 BULK	standard	12.8	12.03	500 bulk		26728		



fig. 92

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS

LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
1129 backup								
BASE CULOT: SC bayonet (BA15s)								C
1129/BP2	standard	6.4	16.8	2/6/48 blister	93	00768	043168007689	
1129	standard	6.4	16.8	10/50 tray		26872	043168963046	
1155 turn signal								
BASE CULOT: SC bayonet (BA15s)								C
1155	standard	13.5	7.97	10/50 tray	94	26955	043168962971	
1445 instrument								
BASE CULOT: min bayonet (BA9s)								C
1445/BP2	standard	14.4	1.9	2/6/48 blister	95	12329	043168961141	
1445	standard	14.4	1.9	10/50 tray		27207	043168962827	
1445 BULK	standard	14.4	1.9	4000 bulk		27209		
1449 non auto								
BASE CULOT: miniature screw								C
1449/BP2	standard	14	0.2	2/6/48 blister	96	00766	043168007665	
1449	standard	14	0.2	10/50 tray		27252	043168962896	
1815 instrument								
BASE CULOT: min bayonet (BA9s)								D
1815/BP2	standard	14	2.8	2/6/48 blister	97	00758	043168007580	
1815	standard	14	2.8	10/50 tray		27677	043168963152	
1816 instrument								
BASE CULOT: min bayonet (BA9s)								D
1816/BP2	standard	13	4.29	2/6/48 blister	97	12359	043168960496	
1816	standard	13	4.29	10/50 tray		27688	043168276887	
1891 instrument								
BASE CULOT: min bayonet (BA9s)								B
1891/BP2	standard	14	3.36	2/6/48 blister	97	12331	043168962124	
1891	standard	14	3.36	10/50 tray		27917	043168962773	



fig. 93



fig. 94



fig. 95



fig. 96



fig. 97

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS
LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL



fig. 98

description description	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig.	order code code de commande cód. de pedidos	upc upc	velocity vitesse velocidad
1892 instrument								
BASE CULOT: min bayonet (BA9s)								C
1892/BP2	standard	14.4	1.73	2/6/48 blister	98	00767	043168007672	
1892	standard	14.4	1.73	10/50 tray		27927	043168963206	



fig. 99

1893 instrument								
BASE CULOT: min bayonet (BA9s)								A
1893/BP2	standard	14	4.62	2/6/48 blister	98	12332	043168962131	
1893	standard	14	4.62	10/50 tray		27935	043168279352	
1893 BULK	standard	14	4.62	4000 bulk		27937		

1895 instrument, sidemarker								
BASE CULOT: min bayonet (BA9s)								B
1895/BP2	standard	14	3.78	2/6/48 blister	99	12330	043168961158	
1895	standard	14	3.78	10/50 tray		27945	043168279451	
1895 BULK	standard	14	3.78	4000 bulk		27948		
1895 NH/BP2	NIGHTHAWK®	14	3.78	2/6/48 blister		71896	043168718967	



fig. 100

2040 parking								
BASE CULOT: wedge (W2.1 x 9.5d)								C
2040/BP	halogen	12.8	8	1/6/48 blister	100	12326	043168960410	
2040	halogen	12.8	8	1/10 tray		19280	043168963145	



fig. 101

2286D sealed sidemarker								
BASE CULOT: wire terminal								E
2286D BULK	standard	14	4.9	1000 bulk		44964		



fig. 102

3652 high mount stop								
BASE CULOT: wedge (W2.1 x 9.5d)								C
3652/BP	standard	13.5	5	1/6/48 blister	101	25837	043168258371	

56110 reading								
BASE CULOT: min bayonet (BA9s)								D
56110/BP	halogen	13.2	24.16	1/6/48 blister	102	45591	043168455916	

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS

LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad
58540 dome								
BASE CULOT: min bayonet (BA9s)								D
58540/BP	halogen	13.5	5	1/6/48 blister	102	47461	043168474610	
C5W license, dome								
BASE CULOT: SV8.5								C
C5W/BP2	eu festoon	13.5	5	2/6/48 blister	103	23312	043168233125	
DE3021 trunk, courtesy								
BASE CULOT: SV7								D
DE3021/BP2	asia festoon	14	0.96	2/6/48 blister	104	25323	043168253239	
DE3022 trunk, courtesy								
BASE CULOT: SV7								D
DE3022/BP2	asia festoon	13	4.94	2/6/48 blister	105	12353	043168961523	
DE3175 dome, courtesy								
BASE CULOT: SV8.5								B
DE3175/BP2	asia festoon	13	10	2/6/48 blister	103	12354	043168961530	
DE3175	asia festoon	13	10	10/50 tray		12084	043168962711	
DE3175 BULK	asia festoon	13	10	5000 bulk		28858		
DE3175NH/BP2	NIGHTHAWK®	13	10	2/6/48 blister		89245	043168892452	
DE3425 dome, courtesy								
BASE CULOT: SV8.5								D
DE 3425	asia festoon	13	10	1/10 tray	103	12085	043168963336	
DE7576 DIN72601K								
BASE CULOT: SV8.5								C
DE7576/BP2	eu festoon	13.5	10	2/6/48 blister	103	23324	043168233248	
PC161 instrument								
BASE CULOT: PC socket								E
PC161 BULK	standard	14	2.66	1000 bulk	105	23036		



fig. 103



fig. 104



fig. 105

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS

LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

fig. 106

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

PC168 | instrument

BASE CULOT: PC socket

C

PC168	standard	14	4.9	1/10 tray	106	27222	043168272223	
PC168 BULK	standard	14	4.9	1000 bulk		23037		

PC194 | instrument

BASE CULOT: PC socket

C

PC194	standard	14	3.78	1/10 tray	106	27221	043168272216	
PC 194 BULK	standard	14	3.78	1000 bulk		17459		



fig. 107

PR2 | flashlight-2D cells

BASE CULOT: SC miniature flange

C

PR2/BP2	standard	2.38	0.5	2/6/48 blister	107	12675	043168961172	

PR3 | flashlight-3D cells

BASE CULOT: SC miniature flange

D

PR3/BP2	standard	3.57	0.5	2/6/48 blister	107	12676	043168961189	

PR4 | flashlight-2C cells

BASE CULOT: SC miniature flange

D

PR4/BP2	standard	2.33	0.27	2/6/48 blister	107	12677	043168961394	

PR12 | flashlight-5D cells

BASE CULOT: SC miniature flange

D

PR12/BP2	standard	5.95	0.5	2/6/48 blister	107	12680	043168961387	

PR13 | hand lantern-4F cells

BASE CULOT: SC miniature flange

D

PR13/BP2	standard	4.75	0.5	2/6/48 blister	107	12681	043168961370	

KPR102 | flashlight-2D cells

BASE CULOT: SC miniature flange

D

KPR102/BP2	krypton	2.4	0.7	2/6/48 blister	107	22961	043168229616	

KPR113 | flashlight-4D cells

BASE CULOT: SC miniature flange

D

KPR113/BP2	krypton	4.75	0.5	2/6/48 blister	107	23153	043168231534	

INTERIOR, TRUNK, COURTESY, UNDER HOOD, INSTRUMENT, LICENSE, AND SIDE MARKER LAMPS

LAMPES D'ACCUEIL, DE COFFRE, LISEUSES, SOUS CAPOT, TABLEAU DE BORD, PLAQUE MINÉRALOGIQUE ET INDICATEURS LATÉRAUX
LÁMPARAS DE INTERIORES, COFRE, CORTESÍA, BAJO EL CAPÓ, INSTRUMENTOS, LICENCIA Y MARCADOR LATERAL

description description descripción	characteristic caractéristiques características	volts volts voltios	watts watts vatios	packaging emballage embalaje	fig. fig. fig.	order code code de commande cód. de pedidos	upc upc upc	velocity vitesse velocidad

KPR118 | flashlight-6D cells

BASE CULOT: SC miniature flange								D
KPR118/BP2	krypton	7.2	0.55	2/6/48 blister	107	23154	043168231541	

R5W | license, parking

BASE CULOT: SC bayonet (BA15s)								C
R5W/BP2	eu vehicles	13.5	5	2/6/48 blister	108	23314	043168233149	
R5W LL/BP2	long life	13.5	5	2/6/48 blister		23765	043168237659	
R5WLL BULK	long life	13.5	5	2000 bulk		30859		



fig. 108

R10W | parking

BASE CULOT: SC bayonet (BA15s)								D
R10W/BP2	eu vehicles	13.5	10	2/6/48 blister	108	23322	043168233224	
R10W LL BULK	long life	13.5	10	2000 bulk		35417		

T4W | parking

BASE CULOT: min bayonet (BA9s)								D
T4W/BP2	eu vehicles	13.4	4	2/6/48 blister	109	23318	043168233187	



fig. 109

W3W | instrument

BASE CULOT: wedge (W2.1 x 9.5d)								D
W3W/BP2	eu vehicles	13.5	3	2/6/48 blister	110	27562	043168275620	
W3W/BULK	eu vehicles	13.5	3	2000 bulk		35030		



fig. 110

W5W | parking, license

BASE CULOT: wedge (W2.1 x 9.5d)								B
W5W/BP2	eu vehicles	13.5	5	2/6/48 blister	110	27563	043168275637	
W5W PBF QH BULK	eu vehicles	13.5	5	2000 bulk		28759		



fig. 111

W16W | stop

BASE CULOT: wedge (W2.1 x 9.5d)								E
W16W PBF BULK	eu vehicles	13.5	19.44	1000 bulk	111	20280		



fig. 112

WY5W | front sidemarker

BASE CULOT: wedge (W2.1 x 9.5d)								E
WY5W BULK	amber bulb	13.5	5	1000 bulk	112	20279		

GE Automotive Lighting really shines at retail. Eye-catching colors and award winning designs make GE packaging stand out among other brands. Trilingual messaging simplifies marketing.

GE Automotive Lighting brille de tous feux chez les détaillants. Couleurs qui attirent l'œil et concepts primés distinguent les emballages GE des autres marques. Message en trois langues pour simplifier le marketing.

Los sistemas de iluminación automotriz de GE realmente brillan en el mercado minorista. Los colores atractivos y los diseños galardonados hacen que los empaques de GE se distingan de las otras marcas. El mensaje en tres idiomas simplifica la comercialización.



MINIATURES BLISTER 2-PACK (BP2)



CAPSULES BLISTER PACK (BP)



CAPSULES BLISTER 2-PACK (BP2)



SEALED BEAMS - CARTONS

	lamps lampes lámparas	height hauteur altura	width largeur ancho	depth profondeur profundidad
blister pack emballage sous blister envase tipo blíster				
(BP2) miniatures	2	4 1/2"	3"	1" (approx)
(BP) capsules	1	6 1/2"	3"	1 1/2" (to 2")
(BP2) capsules	2	6 1/2"	5 7/8"	1 1/2" (to 2")
(BP) Nighthawk® capsules	1	6 1/2"	3"	2 3/8"
(BP2) Nighthawk® capsules	2	6 1/2"	5 7/8"	2 3/8"

sealed beams | blocs optiques étanches | haces sellados

140mm	1	4 3/8"	5 7/8"	2 5/8"
150mm	1	3 3/4"	6 1/4"	3 1/2"
165mm	1	4 1/4"	7"	4 7/8"
200mm	1	6 3/4"	8"	5 1/4"
Par56	1	7"	7"	4 3/4"
Par46	1	5 3/4"	5 3/4"	3 3/4"

unit packs
emballages
unitaires
envases
unitarios



The GE brand gives you selling power that outperforms the competition. Point-of-purchase materials attract attention and communicate product benefits quickly.

La marque GE vous donne une puissance de vente qui surpasse la concurrence. Les PLV attirent l'attention et communiquent rapidement les avantages des produits.

La marca GE le da un poder de venta que supera al de la competencia. Los materiales para el punto de venta atraen rápidamente la atención y comunican las ventajas del producto.



lamp bases | culots de lampe | bases de lámparas

MINIATURES | MINIATURES | MINIATURAS



BA9s miniature
bayonet



BA15s
SC bayonet



BA15d
DC bayonet



BA15d
DC index



W2 x 4.6d
sub-miniature
wedge



W2.1 x 9.5d
miniature wedge



SV8.5
SV7



E-10
miniature screw



rigid
loop



miniature
cap



wire
terminal



two
pin

SEALED BEAMS | BLOCS OPTIQUES ÉTANCHES | HACES SELLADOS



screw
terminal



slip-on
terminal



2 contact
lugs



3 contact
lugs



2 right angle
lugs



right angle
plastic



2 lugs

CAPSULES | CAPSULES | CÁPSULAS



PG13
axial



PGJ13
right angle



PY20d



P14.5s



PK22s



PGJ19
-1, -2, -5



P20d
right angle



P22d
right angle



P29t
axial



PX29t
axial



PX26d



X511



P43t

application application aplicación	typically but not exclusively used in this area of the vehicle. généralement utilisé dans cette zone du véhicule, mais pas exclusivement. típicamente pero no exclusivamente utilizado en esta área del vehículo.
base culot base	provides electrical contact and supports the lamp in the fixture. See bases for descriptions. assure le contact électrique et soutient la lampe dans la douille. Pour une description, voir les culots. proporciona el contacto eléctrico y apoya la lámpara en el portalámpara. Consulte las descripciones de las bases.
bulb ampoule foco	the prefix letter refers to the glass bulb shape, and the number is approximate diameter in eighths of an inch. T3 means tubular shaped bulb approximately 3/8" diameter. la lettre-préfixe désigne la forme de l'ampoule en verre et le nombre le diamètre approximatif en huitièmes de pouce. T3 représente une ampoule de forme tubulaire mesurant environ 9,5 mm de diamètre. la letra del prefijo se refiere a la forma del foco de vidrio, y el número es el diámetro aproximado en octavos de una pulgada. T3 significa un foco con forma tubular de aproximadamente 3/8" de diámetro.
characteristic caractéristique característica	the main characteristic of the lamp. See "Which lamp is best for you?". la principale caractéristique de la lampe. Voir « Quelle lampe est la meilleure pour vous ? ». la característica principal de la lámpara. Consulte "¿Cuál es la mejor lámpara para usted? ".
description description descripción	GE's nomenclature for a specific lamp type and package. nomenclature de GE pour un type et un emballage de lampe spécifiques. nomenclatura de GE para un tipo de lámpara y paquete específicos.
filament filament filamento	a code that denotes the filament shape and supports. qui indique la forme et les supports du filament. un código que designa la forma y soportes del filamento.
life durée de vie vida útil	rated average life or the median value of lamp life expectancy of a large group of lamps under controlled laboratory conditions. laboratory conditions durée de vie moyenne nominale ou valeur médiane de la durée de vie d'un grand groupe de lampes dans des conditions de laboratoire contrôlées. vida útil media nominal o mediana de la expectativa de vida útil de la lámpara de un grupo grande de lámparas bajo condiciones controladas de laboratorio.
LCL	light center length indicates the location of the filament in relation to the base (usually top of the pins on a bayonet base or the indent in a wedge base).
LCL	la longueur centrale de la lumière (LCL) indique l'emplacement du filament par rapport au culot (généralement le haut des broches sur un culot à baïonnette ou le renforcement sur un culot à poussoir).
LCL	longitud del centro luminoso indica la ubicación del filamento en relación con la base (por lo general la parte superior de las patillas en una base tipo bayoneta o la hendidura en una base tipo cuña).
MBCP	maximum light intensity at a point in the beam in candlepower. SAE specifications for sealed beams headlamp systems have a number of test points specifying maximum and minimum photometry values at various angles to numerous to describe in this catalog.
MBCP	intensité lumineuse maximum en un point du faisceau, exprimée en candélas. Les caractéristiques techniques SAE pour phares à bloc optique étanche stipulent plusieurs points de test spécifiant des valeurs de photométrie maximums et minimums à des angles divers, trop nombreux pour être décrits dans ce catalogue.
MBCP	máxima intensidad luminosa en un punto en el haz en potencia lumínica. Las especificaciones SAE para los sistemas de faros de haz sellado tienen un número de puntos de prueba que especifican los valores máximo y mínimo de fotometría a diversos ángulos, demasiado numerosos como para describirlos en este catálogo.
MOL	maximum overall length of the lamp including the base or contacts.
MOL	longueur totale maximum de la lampe, y compris le culot ou les contacts.
MOL	longitud general máxima de la lámpara, incluida la base o contactos.
MSCP	initial mean spherical candlepower at design volts measuring total light output. To convert to lumens multiply by 4 pi (12,57).
MSCP	intensité lumineuse sphérique moyenne initiale à la tension de calcul mesurant la puissance lumineuse totale. Pour convertir en lumens, multiplier par 4 pi (12,57).
MSCP	potencia lumínica esférica media inicial al valor de voltios de diseño que mide la salida de luz total. Para convertir a lúmenes multiplique por 4 pi (12,57).

glossary | glossaire | glosario

order code code de commande cód. de pedidos	GE's product code insuring you receive the exact product and pack desired. code de produit GE garantissant la réception du produit exact et de l'emballage souhaité. código del producto de GE que garantiza que usted recibe el producto exacto y paquete deseado.
packaging emballage embalaje	see packaging key on page 4. voir les codes d'emballages, page 4. consulte la clave del embalaje en la página 4.
spread étendue extensión	approximate angle in degrees to 10% of the MBCP (maximum beam candlepower). Values are horizontal and vertical degrees. angle approximatif en degrés jusqu'à 10 % de la MBCP (intensité énergétique maximum en faisceau). Les valeurs sont des degrés horizontaux et verticaux. ángulo aproximado en grados al 10% del MBCP (potencia lumínica máxima del haz). Los valores son grados horizontales y verticales.
type	industry nomenclature for the type of lamp using ANSI and IEC standards. Generally the type can have several variations with suffixes (LL, NH etc) accenting different characteristics, but they are interchangeable in the application. 9004NH/BP is interchangeable with 9004/BP for an upgrade in light output quality.
type	nomenclature de l'industrie pour le type de lampe conformément aux normes ANSI et CEI. Généralement, le type peut avoir des suffixes divers (LL, NH, etc.) qui soulignent des caractéristiques différentes, mais sont interchangeables dans l'application. 9004NH/BP est interchangeable avec 9004/BP pour une amélioration de la qualité de la puissance lumineuse.
tipo	nomenclatura de la industria para el tipo de lámpara utilizando normas ANSI e IEC. Por lo general, el tipo puede tener varias variaciones con sufijos (LL, NH etc) que acentúan características diferentes, pero que son intercambiables en la aplicación. 9004NH/BP es intercambiable con 9004/BP para una actualización en la calidad de salida luminosa.
UPC code code UPC código UPC	12-digit barcode on virtually all retail packs. code-barres à 12 chiffres qui figure sur quasiment tous les emballages de vente au détail. código de barras de 12 dígitos en virtualmente todos los paquetes de venta al por menor.
velocity vitesse velocidad	a measure of frequency of consumer purchase. See retail velocity key on page 4. mesure de la fréquence d'achat par le consommateur. Voir les codes de vitesse, page 4. una medida de la frecuencia de la compra del consumidor. Consulte la clave de velocidades en la página 4.
volts	nominal volts. 12, 12.8, 13.5, 14 volts are interchangeable. 6 and 28-volt lamps are not compatible with 12-volt battery systems. In technical specifications, volts are where lamps are laboratory tested for amp, candlepower and rated average life. These may be slightly different than nominal volts.
volts	tension nominale en volts. 12, 12.8, 13.5 et 14 volts sont interchangeables. Les lampes 6 et 28 V ne sont pas compatibles avec les systèmes de batterie 12 V. Dans les caractéristiques techniques, les volts se situent avec les ampères, les candelas et la durée de vie moyenne nominale (déterminés par des essais de laboratoire). Ces valeurs peuvent être légèrement différentes de la tension nominale.
voltios	voltios nominales. 12, 12.8, 13.5, 14 voltios son intercambiables. Las lámparas de 6 y 28 voltios no son compatibles con los sistemas de baterías de 12 voltios. En especificaciones técnicas, los voltios son cuando las lámparas se comprueban en el laboratorio en cuanto a amperios, potencia lumínica y vida útil media nominal. Pueden ser ligeramente diferentes que los voltios nominales.
watts or amps	the design power consumption (watts) or current rating (amps) at the design volts. In case of dual filament lamps the values are provided for each filament.
watts ou ampères	puissance de calcul (W) ou intensité nominale (A) à la tension de calcul. Dans le cas de lampes à double filament, les valeurs sont fournies pour chaque filament.
vattios o amperios	el consumo de potencia de diseño (vatios) o el valor nominal de la corriente (amperios) al valor de voltios de diseño. En el caso de lámparas de filamento doble, se proporcionan los valores para cada filamento.

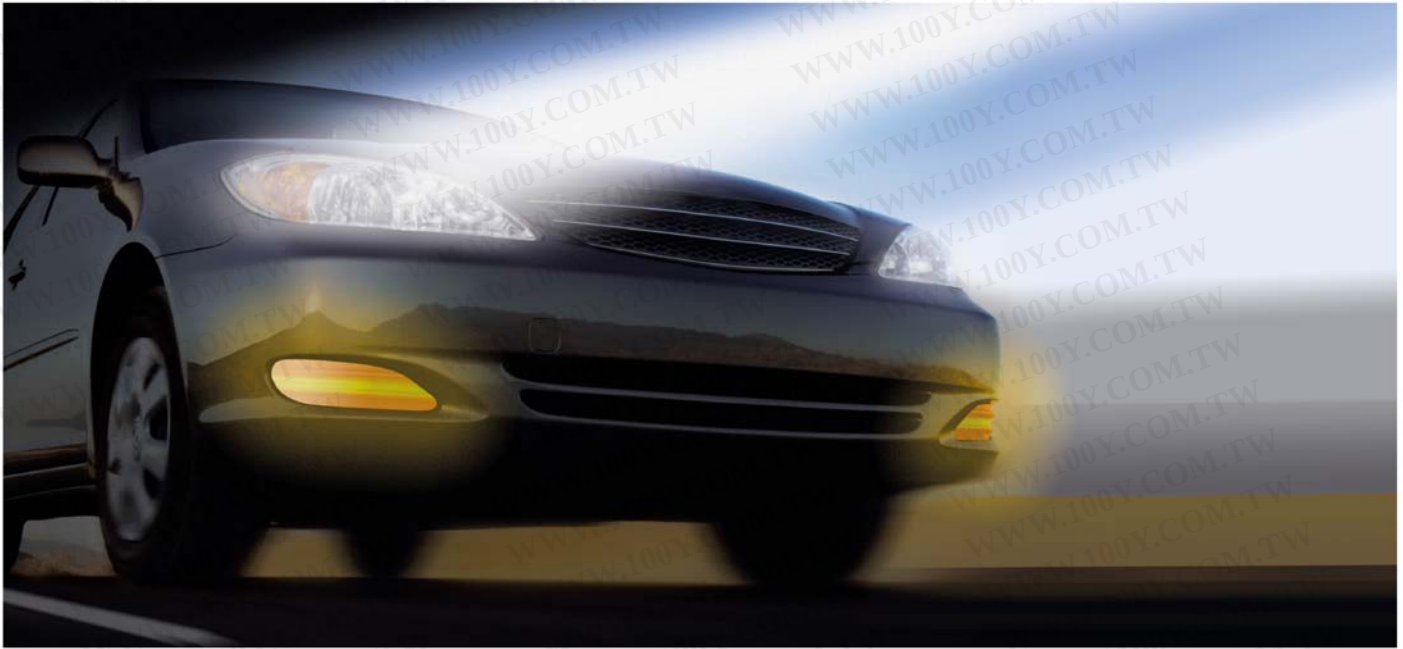
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305 CAUTION	Lamp may shatter and cause injury if broken. - Do not use excessive force when installing lamp. ATTENTION La lampe risque de se briser en mille morceaux et de causer des blessures si elle se casse. - Ne pas utiliser une force excessive lors de l'installation de la lampe. PRECAUCIÓN La lámpara se puede quebrar y causar lesiones. - No aplique fuerza excesiva al instalar la lámpara.
306 CAUTION	Risk of Burn - Allow lamp/fixture to cool before handling. ATTENTION Risque de brûlure - Laisser refroidir la lampe/la douille avant de manipuler. PRECAUCIÓN Riesgo de quemaduras - Permita que la lámpara y el portalámpara se enfrien antes de manejarlos. WARNING Pressurized lamp — unexpected rupture may cause injury, fire, or property damage. - Avoid direct water/liquid contact. - Dispose of lamp in a closed container. - Do not exceed rated voltage. - Do not turn on lamp until fully installed. - Do not use lamp if outer glass is scratched or broken. AVERTISSEMENT Lampe sous pression — son éclatement intempestif risque de causer des blessures, un incendie ou des dégâts matériels. - Éviter tout contact direct eau/liquide. - Jeter le lampe dans une poubelle fermée. - Ne pas dépasser la tension nominale. - Ne pas allumer la lampe tant qu'elle n'est pas complètement installée. - Ne pas utiliser la lamp si le verre extérieur est rayé ou cassé. ADVERTENCIA Lámpara presurizada, su ruptura inesperada puede causar lesiones, incendio o daños materiales. - Evite el contacto directo con agua y otros líquidos. - Deseche la lámpara en un recipiente cerrado. - No exceda el voltaje nominal. - No encienda la lámpara sino hasta que esté totalmente instalada. - No use la lámpara cuando tenga el vidrio exterior raspado o roto.
307 WARNING	Pressurized lamp — unexpected rupture may cause injury, fire, or property damage. - Dispose of lamp in a closed container. AVERTISSEMENT Lampe sous pression — son éclatement intempestif risque de causer des blessures, un incendie ou des dégâts matériels. - Jeter le lampe dans une poubelle fermée. ADVERTENCIA Lámpara presurizada, su ruptura inesperada puede causar lesiones, incendio o daños materiales. - Deseche la lámpara en un recipiente cerrado. - No use la lámpara cuando tenga el vidrio exterior raspado o roto.
308 CAUTION	Risk of Burn - Allow lamp/fixture to cool before handling. ATTENTION Risque de brûlure - Laisser refroidir la lampe/la douille avant de manipuler. PRECAUCIÓN Riesgo de quemaduras - Permita que la lámpara y el portalámpara se enfrien antes de manejarlos. WARNING Risk of Fire - Keep combustible materials away from lamp. Pressurized lamp — unexpected rupture may cause injury, fire, or property damage. - Dispose of lamp in a closed container. - Do not exceed rated voltage. - Do not use lamp if outer glass is scratched or broken. - Keep children away. AVERTISSEMENT Risque d'incendie - Tenir les matériaux combustibles à l'écart de la lampe. Lampe sous pression — son éclatement intempestif risque de causer des blessures, un incendie ou des dégâts matériels. - Jeter le lampe dans une poubelle fermée. - Ne pas dépasser la tension nominale. - Ne pas utiliser la lamp si le verre extérieur est rayé ou cassé. - Garder les enfants à l'écart. ADVERTENCIA Riesgo de incendio - Mantenga los materiales combustibles lejos de la lámpara. Lámpara presurizada, su ruptura inesperada puede causar lesiones, incendio o daños materiales. - Deseche la lámpara en un recipiente cerrado. - No exceda el voltaje nominal. - No use la lámpara cuando tenga el vidrio exterior raspado o roto. - Mantenga alejados a los niños.
310 WARNING	Risk of electrical shock - Turn power off before inspection, installation or removal. Risk of Fire - Use in fixture rated for this product. A damaged lamp emits UV radiation which may cause eye/skin injury. - Turn power off if glass bulb is broken. Remove and dispose of lamp. Pressurized lamp — unexpected rupture may cause injury, fire, or property damage. - Use eye protection when handling lamp. - Do not exceed rated voltage. - Do not touch glass with bare hands. - Avoid direct water/liquid contact. - Use in fixture rated for this product AVERTISSEMENT Risque de choc électrique - Éteindre le courant avant l'inspection, l'installation ou le retrait. Risque d'incendie - Utiliser dans une douille aux valeurs nominales adaptées à ce produit. Une lampe endommagée émet des rayons UV qui peuvent causer des lésions oculaires ou cutanées. - Éteindre le courant si le globe en verre est brisé. Retirer et éliminer la lampe. Lampe sous pression — son éclatement intempestif risque de causer des blessures, un incendie ou des dégâts matériels. - Utiliser un écran de protection durant la manipulation. - Se protéger les yeux lors de la manipulation de la lampe. - Ne pas toucher le verre les mains nues. - Ne pas allumer la lampe tant qu'elle n'est pas complètement installée. ADVERTENCIA Riesgo de choque eléctrico - Use en un portalámparas clasificado para este producto. Riesgo de incendio - Use una malla protectora durante su manejo. - Use protectores oculares cuando maneje la lámpara. - No toque el vidrio con las manos desnudas. - No encienda la lámpara sino hasta que esté totalmente instalada.

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310	AVERTISSEMENT Risque d'électrocution - Éteindre avant inspection, installation ou retrait. Risque d'incendie - Utiliser dans une douille aux valeurs nominales adaptées à ce produit. Une lampe endommagée émet des rayons UV pouvant causer des lésions aux yeux et sur la peau. - Éteindre la lampe si l'ampoule en verre est cassée. Retirer et jeter la lampe. Lampe sous pression — son éclatement intempestif risque de causer des blessures, un incendie ou des dégâts matériels. - Se protéger les yeux lors de la manipulation de la lampe. - Ne pas dépasser la tension nominale. - Ne pas toucher le verre les mains nues. - Éviter tout contact direct eau/liquide. - Utiliser dans une douille aux valeurs nominales adaptées à ce produit. Risque de descarga eléctrica - Interrumpa la corriente eléctrica antes de inspeccionar, instalar o quitar el producto. Riesgo de incendio - Use en un portalámparas clasificado para este producto. Una lámpara dañada emite radiación UV que puede causar lesiones en los ojos y la piel. - Interrumpa la corriente eléctrica si la bombilla de gas está rota. Quite y deseche la lámpara. Lámpara presurizada, su ruptura inesperada puede causar lesiones, incendio o daños materiales. - Use protectores oculares cuando maneje la lámpara. - No exceda el voltaje nominal. - No toque el vidrio con las manos desnudas. - Evite el contacto directo con agua y otros líquidos. - Use en un portalámparas clasificado para este producto. Risk of Burn - Allow lamp/fixture to cool before handling. - Do not turn on lamp until fully installed. Lamp may rupture if used on wrong ballast. - Use only properly rated ballast. Lamp may shatter and cause injury if broken. - Do not use excessive force when installing lamp. - Use safety glasses and gloves when handling lamp. - Do not use lamp if outer glass is scratched or broken. Risque de brûlure - Laissez refroidir la lampe/la douille avant de manipuler. - Ne pas allumer la lampe tant qu'elle n'est pas complètement installée. La lampe risque d'éclater si elle est utilisée sur un ballast inadéquat. - Utiliser uniquement un ballast correctement calibré. La lampe risque de se briser en mille morceaux et de causer des blessures si elle se casse. - Ne pas utiliser une force excessive lors de l'installation de la lampe. - Utiliser des lunettes de sécurité et des gants lors de la manipulation de la lampe. - Retirer et installer la lampe en la saisissant uniquement par sa partie en plastique. - Ne pas utiliser la lampe si le verre extérieur est rayé ou cassé. Riesgo de quemaduras - Permita que la lámpara y el portalámpara se enfrien antes de manejarlos. - No encienda la lámpara sino hasta que esté totalmente instalada. La lámpara se puede romper si se utiliza el estabilizador incorrecto. - Use solamente un estabilizador de clasificación adecuada. La lámpara se puede quebrar y causar lesiones. - No aplique fuerza excesiva al instalar la lámpara. - Use gafas de seguridad y guantes cuando maneje la lámpara. - No use la lámpara cuando tenga el vidrio exterior raspado o roto. FDA Warning Warning-This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30 Hg-Lamp Contains Mercury. Manage in accordance with disposal laws. See www.lamprecycle.org or 1-800-435-4448. Lamp should be installed by an automotive specialist. Avertissement de la FDA Avertissement-Cette lampe risque de causer des brûlures graves et une inflammation des yeux causées par les rayons ultraviolets si l'enveloppe extérieure de la lampe est cassée et que le tube à arc continue à fonctionner. Ne pas utiliser à un endroit où quelqu'un se trouvera au-delà de quelques minutes, sauf si une protection adéquate ou d'autres précautions ont été prises. Certains types de lampes qui s'éteignent automatiquement quand l'enveloppe extérieure est cassée ou percée sont vendus dans le commerce. 21 CFR 1040.30 Hg-La lampe contient du mercure. Gérer conformément aux lois en vigueur pour la mise au rebut. Voir www.lamprecycle.org ou appeler le 1-800-435-4448. La lampe doit être installée par un spécialiste automobile. Advertencia de la FDA Advertencia: Esta lámpara puede causar quemaduras graves en la piel e inflamación de los ojos por la radiación ultravioleta de onda corta si la cobertura externa de la lámpara está rota y el tubo de arco continúa funcionando. No la use cuando las personas se quedarán más de unos minutos a menos que se usen protectores adecuados u otras precauciones de seguridad. Ciertos tipos de lámparas que se extinguen automáticamente cuando la cubierta exterior se rompe están disponibles en el mercado. 21 CFR 1040.30 Hg-La lámpara contiene mercurio. Deséchela de acuerdo con las leyes pertinentes. Visite www.lamprecycle.org o llame al 1-800-435-4448. Un especialista en productos automotores debe instalar la lámpara.
	ADVERTENCIA Riesgo de descarga eléctrica - Interrumpa la corriente eléctrica antes de inspeccionar, instalar o quitar el producto. Riesgo de incendio - Use en un portalámparas clasificado para este producto. Una lámpara dañada emite radiación UV que puede causar lesiones en los ojos y la piel. - Interrumpa la corriente eléctrica si la bombilla de gas está rota. Quite y deseche la lámpara. Lámpara presurizada, su ruptura inesperada puede causar lesiones, incendio o daños materiales. - Use protectores oculares cuando maneje la lámpara. - No exceda el voltaje nominal. - No toque el vidrio con las manos desnudas. - Evite el contacto directo con agua y otros líquidos. - Use en un portalámparas clasificado para este producto. Risk of Burn - Allow lamp/fixture to cool before handling. - Do not turn on lamp until fully installed. Lamp may rupture if used on wrong ballast. - Use only properly rated ballast. Lamp may shatter and cause injury if broken. - Do not use excessive force when installing lamp. - Use safety glasses and gloves when handling lamp. - Do not use lamp if outer glass is scratched or broken. Risque de brûlure - Laissez refroidir la lampe/la douille avant de manipuler. - Ne pas allumer la lampe tant qu'elle n'est pas complètement installée. La lampe risque d'éclater si elle est utilisée sur un ballast inadéquat. - Utiliser uniquement un ballast correctement calibré. La lampe risque de se briser en mille morceaux et de causer des blessures si elle se casse. - Ne pas utiliser une force excessive lors de l'installation de la lampe. - Utiliser des lunettes de sécurité et des gants lors de la manipulation de la lampe. - Retirer et installer la lampe en la saisissant uniquement par sa partie en plastique. - Ne pas utiliser la lampe si le verre extérieur est rayé ou cassé. Riesgo de quemaduras - Permita que la lámpara y el portalámpara se enfrien antes de manejarlos. - No encienda la lámpara sino hasta que esté totalmente instalada. La lámpara se puede romper si se utiliza el estabilizador incorrecto. - Use solamente un estabilizador de clasificación adecuada. La lámpara se puede quebrar y causar lesiones. - No aplique fuerza excesiva al instalar la lámpara. - Use gafas de seguridad y guantes cuando maneje la lámpara. - No use la lámpara cuando tenga el vidrio exterior raspado o roto. FDA Warning Warning-This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30 Hg-Lamp Contains Mercury. Manage in accordance with disposal laws. See www.lamprecycle.org or 1-800-435-4448. Lamp should be installed by an automotive specialist. Avertissement de la FDA Avertissement-Cette lampe risque de causer des brûlures graves et une inflammation des yeux causées par les rayons ultraviolets si l'enveloppe extérieure de la lampe est cassée et que le tube à arc continue à fonctionner. Ne pas utiliser à un endroit où quelqu'un se trouvera au-delà de quelques minutes, sauf si une protection adéquate ou d'autres précautions ont été prises. Certains types de lampes qui s'éteignent automatiquement quand l'enveloppe extérieure est cassée ou percée sont vendus dans le commerce. 21 CFR 1040.30 Hg-La lampe contient du mercure. Gérer conformément aux lois en vigueur pour la mise au rebut. Voir www.lamprecycle.org ou appeler le 1-800-435-4448. La lampe doit être installée par un spécialiste automobile. Advertencia de la FDA Advertencia: Esta lámpara puede causar quemaduras graves en la piel e inflamación de los ojos por la radiación ultravioleta de onda corta si la cobertura externa de la lámpara está rota y el tubo de arco continúa funcionando. No la use cuando las personas se quedarán más de unos minutos a menos que se usen protectores adecuados u otras precauciones de seguridad. Ciertos tipos de lámparas que se extinguen automáticamente cuando la cubierta exterior se rompe están disponibles en el mercado. 21 CFR 1040.30 Hg-La lámpara contiene mercurio. Deséchela de acuerdo con las leyes pertinentes. Visite www.lamprecycle.org o llame al 1-800-435-4448. Un especialista en productos automotores debe instalar la lámpara.
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	PRECAUCIÓN Riesgo de quemaduras - Permita que la lámpara y el portalámpara se enfrien antes de manejarlos. - No encienda la lámpara sino hasta que esté totalmente instalada. La lámpara se puede romper si se utiliza el estabilizador incorrecto. - Use solamente un estabilizador de clasificación adecuada. La lámpara se puede quebrar y causar lesiones. - No aplique fuerza excesiva al instalar la lámpara. - Use gafas de seguridad y guantes cuando maneje la lámpara. - No use la lámpara cuando tenga el vidrio exterior raspado o roto. FDA Warning Warning-This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30 Hg-Lamp Contains Mercury. Manage in accordance with disposal laws. See www.lamprecycle.org or 1-800-435-4448. Lamp should be installed by an automotive specialist. Avertissement de la FDA Avertissement-Cette lampe risque de causer des brûlures graves et une inflammation des yeux causées par les rayons ultraviolets si l'enveloppe extérieure de la lampe est cassée et que le tube à arc continue à fonctionner. Ne pas utiliser à un endroit où quelqu'un se trouvera au-delà de quelques minutes, sauf si une protection adéquate ou d'autres précautions ont été prises. Certains types de lampes qui s'éteignent automatiquement quand l'enveloppe extérieure est cassée ou percée sont vendus dans le commerce. 21 CFR 1040.30 Hg-La lampe contient du mercure. Gérer conformément aux lois en vigueur pour la mise au rebut. Voir www.lamprecycle.org ou appeler le 1-800-435-4448. La lampe doit être installée par un spécialiste automobile. Advertencia de la FDA Advertencia: Esta lámpara puede causar quemaduras graves en la piel e inflamación de los ojos por la radiación ultravioleta de onda corta si la cobertura externa de la lámpara está rota y el tubo de arco continúa funcionando. No la use cuando las personas se quedarán más de unos minutos a menos que se usen protectores adecuados u otras precauciones de seguridad. Ciertos tipos de lámparas que se extinguen automáticamente cuando la cubierta exterior se rompe están disponibles en el mercado. 21 CFR 1040.30 Hg-La lámpara contiene mercurio. Deséchela de acuerdo con las leyes pertinentes. Visite www.lamprecycle.org o llame al 1-800-435-4448. Un especialista en productos automotores debe instalar la lámpara.
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