

# covRguard® Gold

## Blocks UV\* emissions

GE Super Gold lamps provide maximum UV blockage and maintain protection for the entire life of the lamp, critical in the manufacturer of integrated circuits.

The exclusive sleeve is guaranteed not to deform or change color. These lamps provide more blockage than a gold phosphor lamp and block the critical G, H, and I lines. They are guaranteed to provide the same UV blocking over the life of the lamp. covRguard Gold also provides the following filters:

UV-C light (200-280nm)  
UV-B light (280-315nm)

## New T5 covRguard Gold

Now covRguard gold is available in the new 28 watt T5 version. Great for new installations where energy savings space considerations and optical control are critical needs.

## Long Lamp Life

Same 20,000 – 24,000 hour life as our standard lamps, offering low lamp replacement and labor costs, increases productivity and reduces downtime.

## More light

No need to sacrifice light output to get the UV and shatter protection you need. GE's Super Golds give you 35% higher lumens than the old phosphor gold lamps.

## The Ultimate in Shatter Protection

GE's exclusive patented Lexan® polycarbonate gold lamp coverage from base to base eliminates light leakage at the lamp end, providing the industry's best overall UV protection. Unlike gold phosphor lamps or loose sleeves, Super Gold covRguard is the ultimate protection for your critical UV sensitive processes.

## No Assembly Required for Installation – Better Than Tube Guards and Caps

Super Gold covRguard goes right into your fixture directly out of the box, saving you time and labor. Lexan polycarbonate Super Gold covRguard eliminates the hazard of broken lamps when changing sleeves, protecting critical clean room environments from unwanted chemicals and contaminants. The covRguard shield doesn't change the overall length of the lamp, preventing the potential of not fitting into the fixture and having poor pin contact.\*



## Applications:

Semi-conductor  
Processing

Printing Applications

Photo Darkrooms

Food Processing

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CovRguard®  
Dependable  
UV Blocking for all  
photolithography  
processes



imagination at work

# Gold covRguard® Product Range

Description	Product Code	Life	Watts	Nominal Length	Initial Lumens	Carton Quantity
F28T5/GO/CVG	25768	20,000	28	45.2"	1986	40
F17T8/GO/ECO/CVG	25779	20,000	17	24"	970	24
F25T8/GO/ECO/CVG	25783	20,000	25	36"	1590	24
F32T8/GO/ECO/CVG	25784	20,000	32	48"	2280	36
F36T8/GO/CVG	81334	18,000	36	48"	2250	25
F58T8/GO/CVG	80053	18,000	58	60"	4080	25
F96T8/GO/CVG	25810	12,000	59	96"	4492	24
F40T12/GO/CVG	25850	20,000	40	48"	2510	30
F72T12/GO/CVG	25854	12,000	55	72"	4150	15
F96T12/GO/CVG	25852	12,000	75	96"	5640	15
F96T12/GO/HO/CVG	25853	12,000	110	96"	8010	15

## OSHA Bulletin:

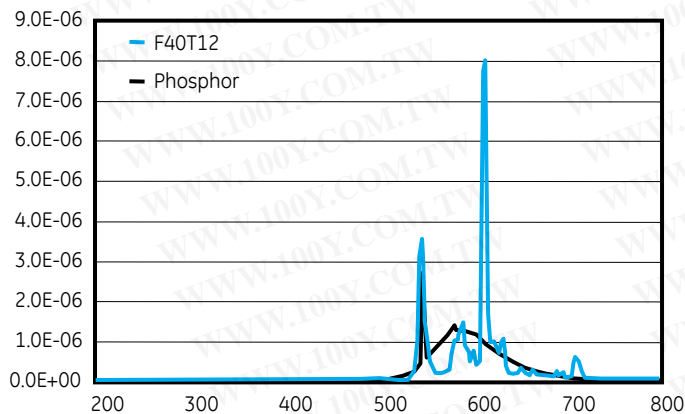
\*OSHA Hazard Information Bulletin, 19970715

"Potential Fire with Fluorescent Light Bulbs within Plastic Tubes"

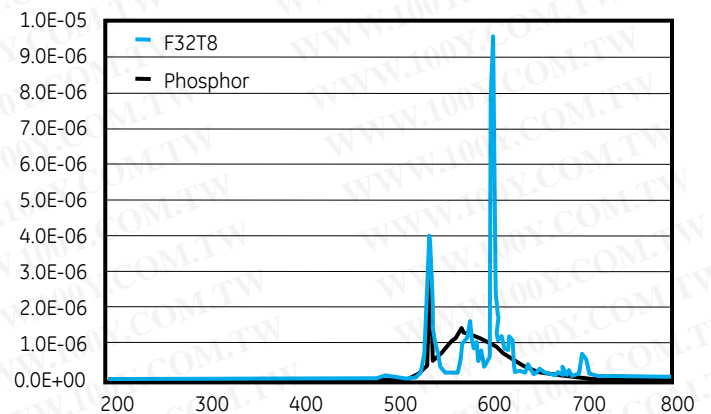
If sleeve and end cap or lamp are not properly installed, pins can heat up and melt the end caps, and then the sleeve, causing a fire

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F40T12 Phosphor vs. F40T12 Gold CVG SPD



F32T8 Phosphor vs. F32T8 Gold CVG SPD



GE Gold covRguard lamps block more blue light than traditional gold phosphor lamps.

For additional product and application information, please consult GE's Website:  
[www.gelighting.com](http://www.gelighting.com)



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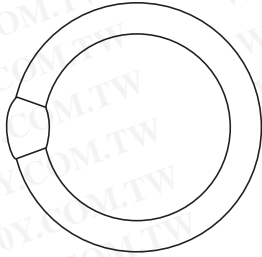
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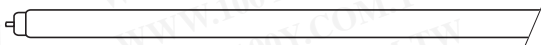
## LAMP LOCATOR (NOT DRAWN TO SCALE)



**T9 Circline (1 1/8" diameter) 4-Pin Base (G10q)**



**T5 (5/8" diameter) Miniature Bipin Base (G5)**



**T6 (3/4" diameter) Single Pin Base (Fa8)**



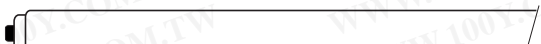
**T8 (1" diameter) Single Pin Base (Fa8)**



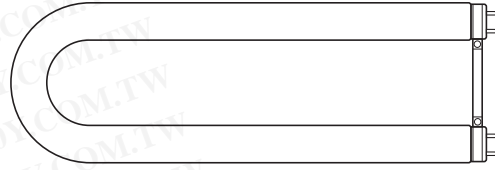
**T8 (1" diameter) Medium Bipin Base (G13)**



**T8 (1" diameter) Recessed Double Contact Base (R17d)**



**T10 (1 1/4" diameter) Recessed Double Contact Base (R17d)**



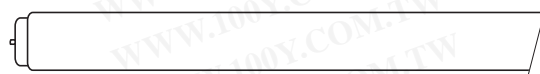
**Mod-U-Line® T8/U6 (1" diameter) Medium Bipin Base (G13)**



**Mod-U-Line® T12/U3 (1 1/2" diameter) Medium Bipin Base (G13)**



**Mod-U-Line® T12/U6 (1 1/2" diameter) Medium Bipin Base (G13)**



**T12 (1 1/2" diameter) Single Pin Base (Fa8)**



**T12 (1 1/2" diameter) Medium Bipin Base (G13)**



**T12 (1 1/2" diameter) Recessed Double Contact Base (R17d)**



**T17 (2 1/8" diameter) Mogul Bipin (G20)**



**Power Groove® (2 1/8" diameter) Recessed Double Contact Base (R17d)**

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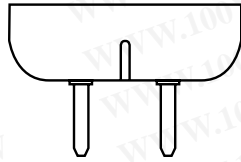
## BASE IDENTIFICATION



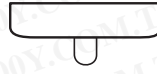
**Min Bipin  
G5**



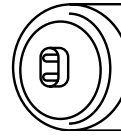
**Med Bipin  
G13**



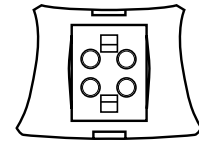
**Mog Bipin  
G20**



**Single Pin  
Fa8**



**Recessed Double  
Contact  
R17d**



**4-Pin  
G10q  
(Circline)**

## 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 6000 to 30,000 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 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.

### FLUORESCENT BRAND NAME CROSS-REFERENCE

GE	OSRAM/SYLVANIA	PHILIPS
Aquarium/Terrarium	—	—
Chroma 50	Design 50®	Colortone 50
CovGuard®	—	—
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®	Curvalume®	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	Advantage

**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 manufacturer's 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](http://www.gelighting.com) e-Catalog for a comprehensive cross-reference tool.**

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## PRODUCT INFORMATION

### GE T5 STARCOAT® ECOLUX® LAMPS (pgs 4-7 to 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 T8 STARCOAT® ECOLUX® LAMPS (pgs 4-8 to 4-9 and 4-27)

- 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 (pgs 4-8 to 4-9)

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

### ULTRA~T8 REPLACEMENT (ENERGY-SAVING ALTERNATIVE) GE T8 30W WATT-MISER® (pg 4-9)

- 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
- All T8 Watt-Miser® lamps are TCLP Compliant and may reduce disposal costs
- 80+ CRI (Color Rendering Index)

### ULTRA~T12 RETROFIT (ENERGY-SAVING ALTERNATIVE) GE T8 28W ULTRAMAX® (pg 4-9)

- 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

### ULTRA~NEW CONSTRUCTION (ENERGY-SAVING ALTERNATIVE) GE T8 32W HIGH LUMEN LAMPS (HL) (pg 4-10)

- 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 T8 MOD-U-LINE® U-SHAPED FLUORESCENT LAMPS (pg 4-11)

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

### GE 8' T8 LAMPS (pg 4-10)

- 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 4-10)

- 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
- New Watt-Miser® Plus lamp reduces wattage to 54W per lamp

### GE 8' T8 HIGH OUTPUT LAMPS (pg 4-10)

- 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 4' T12 ECOLUX® RAPID START LAMPS (pgs 4-12 to 4-13 and 4-29)

- Popular for commercial lighting
- Upgrade new and existing facilities easily... change the lamp to SP/SPX color-improved lamps, available in Watt-Miser® version
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

### GE 4' T12 WATT-MISER® ECOLUX® ENERGY-SAVING LAMPS (WM) (pg 4-12 to 4-13 and 4-28 to 4-29)

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

### GE T12 MOD-U-LINE® U-SHAPED LAMPS (pgs 4-14 and 4-28)

- Available in standard and Watt-Miser® versions
- Operate on standard or electronic Rapid Start Ballasts

### GE T12 HIGH OUTPUT LAMPS (pgs 4-16 to 4-17 and 4-29)

- High light output and long life
- Produces about 45% more initial lumens than standard lamps of the same size
- Usually operated at 800mA

### GE T12 VERY HIGH OUTPUT LAMPS (pg 4-17)

- Where high light levels are required – factories, warehouses, gymnasiums, open areas
- Rapid Start, operated at 1500mA



## PRODUCT INFORMATION (CONTINUED)

### COVRGUARD® SHATTER PROTECTED FLUORESCENT LAMPS (pgs 4-19 to 4-23 and 4-30)

- Polycarbonate shield effectively contains shattered glass particles if lamp is broken, protecting people, food and other valuable items
- UV blocking properties guard against fading and UV degradation
- Available in a variety of colors for decorative and architectural applications
- The covRguard® feature is available on nearly all fluorescent lamps

### GE COLD-TEMPERATURE LAMPS (pg 4-23 to 4-24)

- Specifically designed for cold temperature applications such as freezers and coolers, display cases and outdoor areas
- Available in T8, T10 and T12 versions
- Rated nominal watts and initial lumens are peak values. Actual watt and lumen values may be somewhat lower in service, depending on ambient conditions.

### GE APPLIANCE LAMPS (pg 4-24 to 4-25)

- Designed for intermittent service in appliances such as oven hoods and microwaves

### GE BLACKLIGHT AND REPROGRAPHIC (pgs 4-25 and 4-30)

- Blacklight (BL) lamps are commonly used in insect traps
- Blacklight Blue (BLB) lamps are often used decoratively in disco lighting and theatrical applications. These lamps are produced with a special dark blue glass that filters most visible light.
- The Diazo lamp emits a blue light, peaking at approximately 417nm which is used primarily in reprographic equipment

### GE CINEMA FLUORESCENT LAMPS (See Stage and Studio Section)

- Specifically designed to be used in cinematography applications and are color corrected to match the spectral sensitivity of film
- For more information and product details, visit the Stage & Studio section of this catalog

### GE GOLD LAMPS (pgs 4-25 to 4-26)

- Effectively blocks all UV emissions below 520nm
- Available in covRguard®
- Used in photo-sensitive applications such as semi-conductor assembly and darkrooms

### GE GERMICIDAL LAMPS (pg 4-26)

- Clear lamps with special UV transmitting glass
- The 254nm radiation penetrates and inactivates the DNA of most micro-organisms
- Used in air, water and surface purification applications

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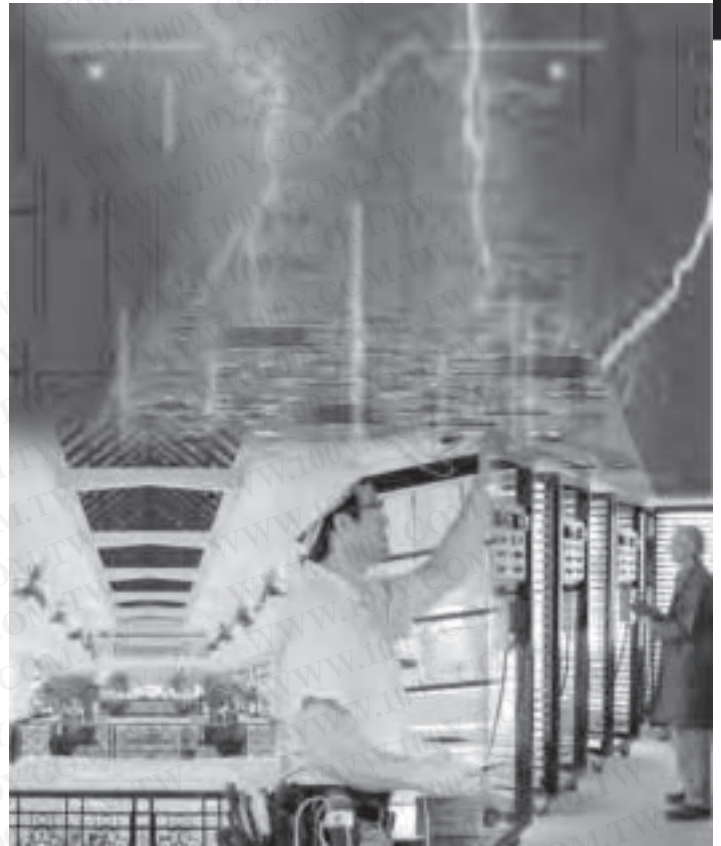
### GE BALLASTS

Energy efficiency and high performance make GE Electronic Ballasts and GE Fluorescent Lamps the perfect match for total performance.

- Energy efficient – GE offers a highly efficient system to dramatically reduce electricity costs... GE UltraMax® Ballasts
  - Outstanding quality
  - Technical hotline provides specification and application support
  - Electromagnetic, HID, CFL, and Sign ballasts also available from GE
- See **GE Ballast System Catalog** for more information.

### ULTRAMAX® BALLAST (pgs 4-36 to 4-37)

- The GE UltraMax® Ballast can be used with F32T8, F32T8/WM, and F28T8/UMX lamps. The UltraMax™ Ballast is Multi-Voltage for use in 120V and 277V applications.
- The UltraMax® Ballast is available in low (.77), normal (.87), and high (1.15) ballast factors.
- The UltraMax® Ballast is equipped with ArcGuard Protection, UL Type CC Anti-Arc Rating, and Striation Control.





# Fluorescent Lamps

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## HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.

**Order Code:**

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

**Mean Lumens:**

Lamp light output at 40% of rated lamp life.

**Nominal Length in.:**

Lamp length including base and/or pins.

**Initial Lumens:**

Lamp light output after the initial 100 hours of operation.

**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.

**Rated Life - Hours:**

Lamp burning hours to median life expectancy.

**Color Rendering Index (CRI or Ra):**

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.

**Bulb:**

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

**Case Quantity:**

Number of product units packed in a case.



Means this lamp meets Federal Minimum Efficiency Standards.

Indicates that this is a lamp with high color rendering, which helps objects and persons illuminated to appear more true to life.

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.

**Base:**

The type of base.

**Additional Information:**

Typical application and/or other important information.

Bulb	Base	Nominal Length Order		Description	Case Qty.	Rated Life (hours)	Color Lumens Temp.		Warning and Cautions	Additional Information
		Watts in.	Code				Initial	Mean K CRI		
<b>T8 STARCOAT® LAMPS</b>										
<b>3' T8 ECOLUX® - TCLP COMPLIANT</b>										
T8	Medium BiPin (G13)	25	36	45753 (F25T8/SPX30/ECO)	24	20000	2150	2040	3000	86

## F 25 T8 / SPX30 / ECO

Identifies as Fluorescent lamp.

Identifies either the lamp's wattage or its length in inches.

Identifies the lamp shape and the bulb diameter in eighths of an inch.

Identifies the lamp finish or color.

Identifies TCLP compliance.

### WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using table on page 4-2.
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 4-3.
4. Find your lamp in the table containing the bulb shape, size and base.

## GE T8 ULTRA "ENERGY SAVING PRODUCTS"



**REPLACEMENT FOR T8**

F32T8/SP/IS/WM/ECO  
F32T8/XL/SP/WM/ECO

Replace F32T8 lamps with the F32T8/WM. Up to 5% is saved instantly. For greater savings use F28T8/UMX lamps.



**RETROFIT FOR T12**

F28T8/SP/UMX/ECO

Retrofit 4' T12 Systems with the 28W T8 UltraMax®. The ultimate in energy efficiency. Over 40% savings realized.



**NEW CONSTRUCTION**

F32T8/XL/SPX/HL/ECO

De-lamp or use fewer fixtures in new construction. Higher light output means fewer total lamps may be needed to achieve desired footcandle levels. 5-6% higher lumens versus standard T8.



Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life		Lumens		Color Temp.		Foot-notes	Warning and Cautions	Additional Information
						3hr/ Start	12hr/ Start	Initial	Mean	K	CRI			
<b>T5 STARCOAT ECOLUX® LAMPS</b>														
<b>HIGH EFFICIENCY</b>														
T5	Miniature BiPin (G5)	14	21.6	31590	F14W/T5/830/ECO	40	30000	36000	1350	1240	3000	85	19	101
				46671	F14W/T5/835/ECO	40	30000	36000	1350	1240	3500	85	19	101
				46673	F14W/T5/841/ECO	40	30000	36000	1350	1240	4100	85	19	101
				46674	F14W/T5/850/ECO	40	30000	36000	1300	1190	5000	85	19	101
				46676	F14W/T5/865/ECO	40	30000	36000	1250	1150	6500	85	19	101
		21	33.4	46677	F21W/T5/830/ECO	40	30000	36000	2100	1930	3000	85	19	101
				46684	F21W/T5/835/ECO	40	30000	36000	2100	1930	3500	85	19	101
				46687	F21W/T5/841/ECO	40	30000	36000	2100	1930	4100	85	19	101
				46688	F21W/T5/850/ECO	40	30000	36000	2000	1840	5000	85	19	101
				46689	F21W/T5/865/ECO	40	30000	36000	1950	1790	6500	85	19	101
		28	45.2	46704	F28W/T5/830/ECO	40	30000	36000	2900	2660	3000	85	19	101
				46705	F28W/T5/835/ECO	40	30000	36000	2900	2660	3500	85	19	101
				46706	F28W/T5/841/ECO	40	30000	36000	2900	2660	4100	85	19	101
				46707	F28W/T5/850/ECO	40	30000	36000	2750	2530	5000	85	19	101
				46708	F28W/T5/865/ECO	40	30000	36000	2700	2480	6500	85	19	101
		35	57.1	46724	F35W/T5/830/ECO	40	30000	36000	3650	3350	3000	85	19	101
				46727	F35W/T5/835/ECO	40	30000	36000	3650	3350	3500	85	19	101
				46735	F35W/T5/841/ECO	40	30000	36000	3650	3350	4100	85	19	101
				46742	F35W/T5/850/ECO	40	30000	36000	3500	3220	5000	85	19	101
				46743	F35W/T5/865/ECO	40	30000	36000	3400	3120	6500	85	19	101
<b>HIGH OUTPUT</b>														
T5	Miniature BiPin (G5)	24	21.6	46699	F24W/T5/830/ECO	40	30000	36000	2000	1840	3000	85	19	101
				46700	F24W/T5/835/ECO	40	30000	36000	2000	1840	3500	85	19	101
				46701	F24W/T5/841/ECO	40	30000	36000	2000	1840	4100	85	19	101
				46702	F24W/T5/850/ECO	40	30000	36000	1900	1740	5000	85	19	101
				46703	F24W/T5/865/ECO	40	30000	36000	1900	1740	6500	85	19	101
		39	33.4	46744	F39W/T5/830/ECO	40	30000	36000	3500	3220	3000	85	19	101
				46745	F39W/T5/835/ECO	40	30000	36000	3500	3220	3500	85	19	101
				46746	F39W/T5/841/ECO	40	30000	36000	3500	3220	4100	85	19	101
				46747	F39W/T5/850/ECO	40	30000	36000	3350	3080	5000	85	19	101
				46748	F39W/T5/865/ECO	40	30000	36000	3330	3060	6500	85	19	101
		54	45.2	46759	F54W/T5/830/ECO	40	30000	36000	5000	4600	3000	85	19	101
				46760	F54W/T5/835/ECO	40	30000	36000	5000	4600	3500	85	19	101
				46761	F54W/T5/841/ECO	40	30000	36000	5000	4600	4100	85	19	101
				46762	F54W/T5/850/ECO	40	30000	36000	4800	4410	5000	85	19	101
				46763	F54W/T5/865/ECO	40	30000	36000	4750	4370	6500	85	19	101
		49	57.1	46751	F49W/T5/830/ECO	40	30000	36000	4900	4500	3000	85	19	101
				46752	F49W/T5/835/ECO	40	30000	36000	4900	4500	3500	85	19	101
				46753	F49W/T5/841/ECO	40	30000	36000	4900	4500	4100	85	19	101
				46757	F49W/T5/850/ECO	40	30000	36000	4700	4320	5000	85	19	101
				46758	F49W/T5/865/ECO	40	30000	36000	4650	4270	6500	85	19	101
		80	57.1	46802	F80W/T5/830/ECO	40	30000	36000	7000	6440	3000	85	19	101
				46803	F80W/T5/835/ECO	40	30000	36000	7000	6440	3500	85	19	101
				46804	F80W/T5/841/ECO	40	30000	36000	7000	6440	4100	85	19	101
				46805	F80W/T5/850/ECO	40	30000	36000	6700	6160	5000	85	19	101
				46806	F80W/T5/865/ECO	40	30000	36000	6650	6110	6500	85	19	101



# Fluorescent Lamps

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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot-notes	Warning and Cautions		Additional Information
							Initial	Mean	Final	K	CRI		Notes	Caution	
<b>T5 PREHEAT LAMPS</b>															
<b>6" T5</b>															
T5	Miniature BiPin (G5)	4	6	10004	F4T5/CW	24	5000	135	100	4100	60				101
				15983	F4T5/CW CARD	10	5000	135	100	4100	60				101
<b>9" T5</b>															
T5	Miniature BiPin (G5)	6	9	10032	F6T5/CW	24	5000	295	235	4100	60				101
				15986	F6T5/CW CARD	10	5000	295	235	4100	60				101
				10028	F6T5/D	24	5000	230	185	6500	75	ⓔ			101
<b>12" T5</b>															
T5	Miniature BiPin (G5)	8	12	10059	F8T5/CW	24	5000	400	320	4100	60				101
				15987	F8T5/CW CARD	10	5000	400	320	4100	60				101
				10055	F8T5/D	24	5000	330	265	6500	75	ⓔ			101
				10064	F8T5/WW	24	5000	410	330	3000	52				101
				25425	F8T5/WW/CARD	5	5000	410	330	3000	52				101
<b>21" T5</b>															
T5	Miniature BiPin (G5)	13	21	10086	F13T5/CW	24	5000	850	705	4100	60				101
				49333	F13T5/CW/CD	5	5000	850	705	4100	60				101
				10089	F13T5/WW	24	5000	870	720	3000	52				101
				25426	F13T5/WW/CARD	5	5000	870	720	3000	52				101
<b>T8 STARCOAT® LAMPS</b>															
<b>2' T8 ECOLUX® - TCLP COMPLIANT</b>															
T8	Medium BiPin (G13)	17	24	45741	F17T8/SP30/ECO	24	20000	24000	1325	1260	3000	78	ⓔ	18	101
				45743	F17T8/SP35/ECO	24	20000	24000	1325	1260	3500	78	ⓔ	18	101
				45748	F17T8/SP41/ECO	24	20000	24000	1325	1260	4100	78	ⓔ	18	101
				45742	F17T8/SPX30/ECO	24	20000	24000	1350	1280	3000	86	ⓔ	18	101
				45747	F17T8/SPX35/ECO	24	20000	24000	1350	1280	3500	86	ⓔ	18	101
				45749	F17T8/SPX41/ECO	24	20000	24000	1350	1280	4100	86	ⓔ	18	101
<b>2' T8 ECOLUX® XL EXTRA-LIFE</b>															
T8	Medium BiPin (G13)	17	24	15476	F17T8/XL/SP30/ECO	24	24000	29000	1325	1260	3000	78	ⓔ	18	101
				15479	F17T8/XL/SP35/ECO	24	24000	29000	1325	1260	3500	78	ⓔ	18	101
				15480	F17T8/XL/SP41/ECO	24	24000	29000	1325	1260	4100	78	ⓔ	18	101
				15481	F17T8/XL/SPX30/ECO	24	24000	29000	1350	1280	3000	86	ⓔ	18	101
				15483	F17T8/XL/SPX35/ECO	24	24000	29000	1350	1280	3500	86	ⓔ	18	101
				15484	F17T8/XL/SPX41/ECO	24	24000	29000	1350	1280	4100	86	ⓔ	18	101
				10415	F17T8/XL/SPX50/ECO	24	24000	29000	1300	1235	5000	86	ⓔ	18	101
				16092	F17T8/XL/SPX65/ECO	24	24000	29000	1250	1125	6500	85	ⓔ	18	101
<b>3' T8 ECOLUX® - TCLP COMPLIANT</b>															
T8	Medium BiPin (G13)	25	36	45750	F25T8/SP30/ECO	24	20000	24000	2080	1970	3000	78	ⓔ	18	101
				45754	F25T8/SP35/ECO	24	20000	24000	2080	1970	3500	78	ⓔ	18	101
				45756	F25T8/SP41/ECO	24	20000	24000	2080	1970	4100	78	ⓔ	18	101
				45753	F25T8/SPX30/ECO	24	20000	24000	2150	2040	3000	86	ⓔ	18	101
				45755	F25T8/SPX35/ECO	24	20000	24000	2150	2040	3500	86	ⓔ	18	101
				45757	F25T8/SPX41/ECO	24	20000	24000	2150	2040	4100	86	ⓔ	18	101

ⓔ Means this lamp meets Federal Minimum Efficiency Standards.

See [www.gelighting.com](http://www.gelighting.com) e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4. All footnote references found at the end of this section. ⚡ Reduced Wattage ⓔ High Color Rendering.

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# Fluorescent Lamps

Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life		Lumens		Color Temp.		Foot- notes	Warning and Cautions	Additional Information
						3hr/ Start	12hr/ Start	Initial	Mean	K	CRI			
<b>T8 STARCOAT® LAMPS (CONTINUED)</b>														
<b>3' T8 ECOLUX® XL EXTRA-LIFE</b>														
T8	Medium BiPin (G13)	25	36	15486	F25T8/XL/SP30/ECO	24	24000	29000	2080	1970	3000	78	18	101
				15487	F25T8/XL/SP35/ECO	24	24000	29000	2080	1970	3500	78	18	101
				15488	F25T8/XL/SP41/ECO	24	24000	29000	2080	1970	4100	78	18	101
				15489	F25T8/XL/SPX30/ECO	24	24000	29000	2150	2040	3000	86	18	101
				15490	F25T8/XL/SPX35/ECO	24	24000	29000	2150	2040	3500	86	18	101
				15491	F25T8/XL/SPX41/ECO	24	24000	29000	2150	2040	4100	86	18	101
				10416	F25T8/XL/SPX50/ECO	24	24000	29000	2050	1950	5000	86	18	101
				16314	F25T8/XL/SPX65/ECO	24	24000	29000	1950	1755	6500	85	18	101
<b>4' T8 ECOLUX® - TCLP COMPLIANT</b>														
T8	Medium BiPin (G13)	32	48	26666	F32T8/SP30/ECO	36	20000	24000	2800	2660	3000	78	18	101
				26667	F32T8/SP35/ECO	36	20000	24000	2800	2660	3500	78	18	101
				11873	F32T8/SP35/ECO 12PK	12	20000	24000	2800	2660	3500	78	18	101
				26668	F32T8/SP41/ECO	36	20000	24000	2800	2660	4100	78	18	101
				16090	F32T8/SP50/ECO	36	20000	24000	2750	2610	5000	78	18	101
				16091	F32T8/SP65/ECO	36	20000	24000	2700	2565	6500	78	18	101
				25611	F32T8/SPX30/ECO	36	20000	24000	2950	2800	3000	86	18	101
				25612	F32T8/SPX35/ECO	36	20000	24000	2950	2800	3500	86	18	101
				25613	F32T8/SPX41/ECO	36	20000	24000	2950	2800	4100	86	18	101
				42064	F32T8/SPX50/ECO	36	20000	24000	2800	2660	5000	86	18	101
<b>4' T8 ECOLUX® XL EXTRA-LIFE</b>														
T8	Medium BiPin (G13)	32	48	27616	F32T8/XL/SP30/ECO	36	24000	29000	2800	2660	3000	78	18	101
				27617	F32T8/XL/SP35/ECO	36	24000	29000	2800	2660	3500	78	18	101
				27618	F32T8/XL/SP41/ECO	36	24000	29000	2800	2660	4100	78	18	101
				27619	F32T8/XL/SPX30/ECO	36	24000	29000	2950	2800	3000	86	18	101
				27620	F32T8/XL/SPX35/ECO	36	24000	29000	2950	2800	3500	86	18	101
				27621	F32T8/XL/SPX41/ECO	36	24000	29000	2950	2800	4100	86	18	101
				16313	F32T8/XL/SPX50/ECO	36	24000	29000	2800	2660	5000	86	18	101
				16089	F32T8/XL/SPX65/ECO	36	24000	29000	2750	2475	6500	85	18	101
<b>4' T8 ECOLUX® SUPER LONG LIFE</b>														
T8	Medium BiPin (G13)	32	48	49702	F32T8/SXL/SP30/ECO	36	30000	36000	2850	2675	3000	84	18	101
				49778	F32T8/SXL/SP35/ECO	36	30000	36000	2850	2675	3500	83	18	101
				49779	F32T8/SXL/SP41/ECO	36	30000	36000	2850	2675	4100	81	18	101
<b>ULTRA ENERGY SAVING T8 LAMPS</b>														
<b>4' T8 ECOLUX® WATT-MISER®</b>														
T8	Medium BiPin (G13)	30	48	48277	F32T8/SP30/IS/WM/ECO	36	20000	24000	2850	2675	3000	84	1,18	101
				48278	F32T8/SP35/IS/WM/ECO	36	20000	24000	2850	2675	3500	83	1,18	101
				48279	F32T8/SP41/IS/WM/ECO	36	20000	24000	2850	2675	4100	81	1,18	101
				11791	F32T8/SP50/IS/WM/ECO	36	20000	24000	2750	2585	5000	80	1,18	101
<b>4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE</b>														
T8	Medium BiPin (G13)	30	48	48521	F32T8/XL/SP30/WM/ECO	36	24000	29000	2800	2625	3000	84	1,18	101
				48522	F32T8/XL/SP35/WM/ECO	36	24000	29000	2800	2625	3500	83	1,18	101
				48523	F32T8/XL/SP41/WM/ECO	36	24000	29000	2800	2625	4100	81	1,18	101
				42553	F32T8/XL/SP50/WM/ECO	36	24000	29000	2700	2540	5000	80	1,18	101
<b>4' T8 ECOLUX® ULTRAMAX®</b>														
T8	Medium BiPin (G13)	28	48	00255	F28T8/SP30/UMX/ECO	36	18000	24000	2750	2585	3000	85	1,18	101
				00256	F28T8/SP35/UMX/ECO	36	18000	24000	2750	2585	3500	85	1,18	101
				00257	F28T8/SP41/UMX/ECO	36	18000	24000	2750	2585	4100	82	1,18	101
				42554	F28T8/SP50/UMX/ECO	36	18000	24000	2650	2490	5000	80	1,18	101

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



# Fluorescent Lamps

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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life		Lumens			Color Temp.		Foot-notes	Warning and Cautions	Additional Information
						3hr/ start	12hr/ start	Initial	Mean	K	CRI				

## ULTRA ENERGY SAVING T8 LAMPS

### 4' T8 ECOLUX® HIGH LUMEN

T8	Medium Bipin (G13)	32	48	10327	F32T8/XL/SPX30/HL/ECO	36	24000	29000	3100	2915	3000	85	Ⓢ	↘	18	101
				10326	F32T8/XL/SPX35/HL/ECO	36	24000	29000	3100	2915	3500	85	Ⓢ	↘	18	101
				10322	F32T8/XL/SPX41/HL/ECO	36	24000	29000	3100	2915	4100	82	Ⓢ	↘	18	101
				42556	F32T8/XL/SPX50/HL/ECO	36	24000	29000	3000	2820	5000	80	Ⓢ	↘	18	101

### F25T12 ECOLUX® FOR T8 BALLASTS

T12	Medium BiPin (G13)	25	48	80066	F25T12/SP30/ECO	30	15000	20000	2300	2140	3000	70	Ⓢ	↘	18	101
				80067	F25T12/SP35/ECO	30	15000	20000	2300	2140	3500	70	Ⓢ	↘	18	101
				80076	F25T12/SP41/ECO	30	15000	20000	2300	2140	4100	70	Ⓢ	↘	18	101

## 8' T8 LAMPS

### 8' T8

T8	Single Pin (Fa8)	59	96	23407	F96T8/SP30	24	15000	20000	5800	5500	3000	78	Ⓢ			101
				23411	F96T8/SP35	24	15000	20000	5800	5500	3500	78	Ⓢ			101
				23412	F96T8/SP41	24	15000	20000	5800	5500	4100	78	Ⓢ			101
				23414	F96T8/SPX30	24	15000	20000	5950	5650	3000	86	Ⓢ			101
				23415	F96T8/SPX35	24	15000	20000	5950	5650	3500	86	Ⓢ			101
				23416	F96T8/SPX41	24	15000	20000	5950	5650	4100	86	Ⓢ			101
				23575	F96T8/SPX50	24	15000	20000	5950	5650	5000	86	Ⓢ			101

### 8' T8 XL EXTRA-LIFE

T8	Single Pin (Fa8)	59	96	41889	F96T8/XL/SP30	24	24000	29000	5800	5500	3000	78	Ⓢ			101
				41890	F96T8/XL/SP35	24	24000	29000	5800	5500	3500	78	Ⓢ			101
				41891	F96T8/XL/SP41	24	24000	29000	5800	5500	4100	78	Ⓢ			101
				41892	F96T8/XL/SPX30	24	24000	29000	5950	5650	3000	86	Ⓢ			101
				41893	F96T8/XL/SPX35	24	24000	29000	5950	5650	3500	86	Ⓢ			101
				41894	F96T8/XL/SPX41	24	24000	29000	5950	5650	4100	86	Ⓢ			101
				45497	F96T8/XL/SPX50	24	24000	29000	5950	5650	5000	86	Ⓢ			101

### 8' T8 XL EXTRA-LIFE WATT-MISER® ENERGY SAVING LAMPS

T8	Single Pin (Fa8)	57	96	48524	F96T8/XL/SP30/WMM	24	24000	29000	5800	5450	3000	84	Ⓢ	↘	1	101
				48525	F96T8/XL/SP35/WMM	24	24000	29000	5800	5450	3500	83	Ⓢ	↘	1	101
				48526	F96T8/XL/SP41/WMM	24	24000	29000	5800	5450	4100	81	Ⓢ	↘	1	101

### 8' T8 XL EXTRA-LIFE WATT-MISER® PLUS ENERGY SAVING LAMPS

T8	Single Pin (Fa8)	54	96	47072	F96T8/XL/SP30/WMP	24	24000	29000	5800	5450	3000	84	Ⓢ	↘	1	101
				47076	F96T8/XL/SP35/WMP	24	24000	29000	5800	5450	3500	83	Ⓢ	↘	1	101
				47103	F96T8/XL/SP41/WMP	24	24000	29000	5800	5450	4100	81	Ⓢ	↘	1	101

Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot-notes	Warning and Cautions	Additional Information
							Initial	Mean	K	CRI				

## 8' T8 HIGH OUTPUT

### 8' T8 HIGH OUTPUT - RECESSED DOUBLE CONTACT

T8	R17d	86	96	12536	F96T8/SP30/HO	24	18000		8000	7600	3000	78	Ⓢ			101
				12537	F96T8/SP35/HO	24	18000		8000	7600	3500	78	Ⓢ			101
				12538	F96T8/SP41/HO	24	18000		8000	7600	4100	78	Ⓢ			101
				12533	F96T8/SPX35/HO	24	18000		8200	7800	3500	86	Ⓢ			101
				12534	F96T8/SPX41/HO	24	18000		8200	7800	4100	86	Ⓢ			101
				12535	F96T8/SPX50/HO	24	18000		8200	7800	5000	86	Ⓢ			101 1

### 8' T8 INSTANT START

T8	Single Pin (Fa8)	50	96	10912	F96T8/CW	24	7500		4050	3730	4100	60				101
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Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



Bulb Base	Nominal Length	Order Watts in.	Code Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot- notes	Warning and Cautions	Additional Information
						Initial	Mean	Temp. K	CRI	Temp. K			
<b>T8 MOD-U-LINE®</b>													
<b>T8 1 5/8" SPACING</b>													
T8	Medium BiPin (G13)	31	22.5	41776	F31T8/SPX30/U	15	20000	2725	2500	3000	82	☺	105
				41777	F31T8/SPX35/U	15	20000	2725	2500	3500	82	☺	105
				41778	F31T8/SPX41/U	15	20000	2725	2500	4100	82	☺	105
<b>T8 6" SPACING</b>													
T8	Medium BiPin (G13)	32	22.5	10479	F32T8/SP30/U/6	12	20000	2700	2565	3000	78	☺	105
				23585	F32T8/SP35/U/6	12	20000	2700	2565	3500	78	☺	105
				10480	F32T8/SP41/U/6	12	20000	2700	2565	4100	78	☺	105
				10483	F32T8/SPX30/U/6	12	20000	2800	2630	3000	86	☺	105
				10485	F32T8/SPX35/U/6	12	20000	2800	2630	3500	86	☺	105
				10488	F32T8/SPX41/U/6	12	20000	2800	2630	4100	86	☺	105
				10489	F32T8/SPX50/U/6	12	20000	2660	2510	5000	86	☺	105
<b>OTHER T8 LENGTHS</b>													
<b>18" T8 W/ STARCOAT®</b>													
T8	Medium BiPin (G13)	15	18	49489	FE15T8/XL/SPX65	24	24000	875	785	6500	85	☺	101 Use with Electronic Ballast Only
<b>5' T8 W/ STARCOAT®</b>													
T8	Medium BiPin (G13)	40	60	15950	F40T8/SP30	24	20000	3600	3420	3000	75	☺	101
				15951	F40T8/SP35	24	20000	3600	3420	3500	75	☺	101
				15952	F40T8/SP41	24	20000	3600	3420	4100	75	☺	101
				22660	F40T8/SPX30	24	20000	3725	3350	3000	84	☺	101
				22661	F40T8/SPX35	24	20000	3725	3350	3500	84	☺	101
				22662	F40T8/SPX41	24	20000	3725	3350	4100	84	☺	101
<b>6' T8 INSTANT START</b>													
T8	Single Pin (Fa8)	35	72	10829	F72T8/CW	24	7500	3000	2730	4100	60		101
				10835	F72T8/WW 6PK	6	7500	3100	2820	3000	52		101 Warm White
<b>T8 POLYLUX®</b>													
<b>2' T8 POLYLUX®</b>													
T8	Medium Bipin (G13)	18	24	93311	F18T8/835PLYXLR	25	20000	1350	1280	3500	85	☺	101
				93317	F18T8/841PLYXLR	25	20000	1350	1280	4100	85	☺	101
<b>4' T8 POLYLUX®</b>													
T8	Medium Bipin (G13)	36	48	19991	F36T8/835PLYXLR	25	20000	3350	3180	3500	85	☺	101
				16856	F36T8/841PLYXLR	25	20000	3350	3180	4100	85	☺	101
<b>6' T8 POLYLUX®</b>													
T8	Medium Bipin (G13)	58	60	40120	F58T8/835PLYXLR	25	20000	5200	4940	3500	85	☺	101
				40081	F58T8/841PLYXLR	25	20000	5200	4940	4000	85	☺	101
<b>7' T8 POLYLUX®</b>													
T8	Medium Bipin (G13)	70	72	39451	F70T8/835PLYXLR	25	20000	6300	5985	3500	85	☺	101
				39452	F70T8/840PLYXLR	25	20000	6300	5985	4000	85	☺	101
<b>T8 PREHEAT</b>													
<b>12" T8</b>													
T8	Medium BiPin (G13)	13	12	10098	F13T8/CW	24	7500	565	480	4100	60		101
<b>15" T8</b>													
T8	Medium BiPin (G13)	14	15	10104	F14T8/CW	24	7500	685	580	4100	60		101
<b>18" T8</b>													
T8	Medium BiPin (G13)	15	18	17911	F15T8/SP35	24	7500	940	850	3500	75	☺	101
				19643	F15T8/SP41	24	7500	940	850	4100	72	☺	101
				19644	F15T8/SPX30	24	7500	1000	900	3000	82	☺	101
				19645	F15T8/SPX35	24	7500	1000	900	3500	82	☺	101
				10142	F15T8/CW	24	7500	825	725	4100	60		101



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							Initial	Mean	Final	K	CRI			
<b>T8 PREHEAT (CONTINUED)</b>														
<b>18" T8 (CONTINUED)</b>														
T8	Medium BiPin (G13)	15	18	<b>10143 F15T8/CW 6PK</b>	24	7500	825	725	4100	60	☞	101		
				<b>10134 F15T8/D</b>	24	7500	700	615	6500	75	☞	101	Daylight	
				<b>21326 F15T8/KB 6PK</b>	24	7500	940	850	3000	70	☞	101	Kitchen & Bath	
				<b>13968 F15T8/SUN 6PK</b>	24	7500	620	525	5000	90	☞	101	Sunlight	
				<b>10147 F15T8/WW</b>	24	7500	845	745	3000	52	☞	101	Warm White	
<b>36" T8</b>														
T8	Medium BiPin (G13)	30	36	<b>16323 F30T8/SPX30</b>	24	7500	2300	2140	3000	82	☞	101		
				<b>10316 F30T8/CW 6PK</b>	24	7500	2175	1980	4100	60	☞	101		
				<b>10310 F30T8/D</b>	24	7500	1850	1625	6500	75	☞	101	Daylight	
				<b>22747 F30T8/KB 6PK</b>	24	7500	2125	1910	3000	70	☞	101	Kitchen & Bath	
				<b>10318 F30T8/WW</b>	24	7500	2150	1880	3000	52	☞	101	Warm White	
<b>T12 LAMPS</b>														
<b>3' T12 ECOLUX® - RAPID START</b>														
<b>25W</b>														
T12	Medium BiPin (G13)	25	36	<b>80080 F25T12/SP30/RS/WM/ECO</b>	24	18000	2025	1780	3000	70	☞	101		
				<b>80081 F25T12/SP35/RS/WM/ECO</b>	24	18000	2025	1780	3500	73	☞	101		
				<b>80065 F25T12/CW/RS/WM/ECO</b>	24	18000	1925	1640	4100	60	☞	101		
				<b>80077 F25T12/WW/RS/WM/ECO</b>	24	18000	1975	1680	3000	52	☞	101	Warm White	
<b>30W</b>														
T12	Medium BiPin (G13)	30	36	<b>80087 F30T12/SP35/RS/ECO</b>	24	18000	2350	2120	3500	73	☞	101		
				<b>80088 F30T12/SP41/RS/ECO</b>	24	18000	2350	2120	4100	72	☞	101		
				<b>80089 F30T12/SPX30/RS/ECO</b>	24	18000	2375	2140	3000	82	☞	101		
				<b>80090 F30T12/SPX35/RS/ECO</b>	24	18000	2375	2140	3500	82	☞	101		
				<b>80083 F30T12/C50/RS/ECO</b>	24	18000	1650	1350	5000	90	☞	101	Chroma 50	
				<b>80084 F30T12/CW/RS/ECO</b>	24	18000	2200	1910	4100	60	☞	101		
				<b>80085 F30T12/CW/RS/ECO 6PK</b>	24	18000	2200	1910	4100	60	☞	101		
				<b>80086 F30T12/D/RS/ECO</b>	24	18000	1900	1650	6500	75	☞	101	Daylight	
				<b>80091 F30T12/WW/RS/ECO</b>	24	18000	2275	1980	3000	52	☞	101	Warm White	
<b>4' T12 - RAPID START</b>														
<b>32W WATT-MISER® PLUS</b>														
T12	Medium BiPin (G13)	32	48	<b>14225 F40/SP35/RS/WMP 30PK</b>	30	20000	2650	2400	3500	80	☞ ⚡	1	101	
				<b>14224 F40/SP41/RS/WMP 30PK</b>	30	20000	2650	2400	3500	80	☞ ⚡	1	101	
				<b>14221 F40/CW/RS/WMP 30PK</b>	30	20000	2500	2200	4100	60	☞ ⚡	1	101	
<b>34W WATT-MISER® ECOLUX® - TCLP COMPLIANT</b>														
T12	Medium BiPin (G13)	34	48	<b>23163 F34/SP30/RS/WM/ECO</b>	30	20000	2750	2475	3000	70	☞ ⚡	1	101	
				<b>25401 F34/SP30/RS/WM/ECO/UPC</b>	30	20000	2750	2475	3000	70	☞ ⚡	1	101	
				<b>23165 F34/SP35/RS/WM/ECO</b>	30	20000	2750	2475	3500	73	☞ ⚡	1	101	
				<b>23486 F34/SP35/WM/ECO/C</b>	10	20000	2750	2475	3500	73	☞ ⚡	1	101	
				<b>21858 F34/SP35/RS/WM/ECO/UPC6P</b>	24	20000	2750	2475	3500	73	☞ ⚡	1	101	
				<b>23166 F34/SP41/RS/WM/ECO</b>	30	20000	2750	2475	4100	72	☞ ⚡	1	101	
				<b>25397 F34/SP41/RS/WM/ECO/UPC</b>	30	20000	2750	2475	4100	72	☞ ⚡	1	101	
				<b>41563 F34/SP65/RS/WM/ECO</b>	30	20000	2650	2430	6500	75	☞ ⚡	1	101	
				<b>23157 F34/SPX30/RS/WM/ECO</b>	30	20000	2900	2610	3000	82	☞ ⚡	1	101	
				<b>23158 F34/SPX35/RS/WM/ECO</b>	30	20000	2900	2610	3500	82	☞ ⚡	1	101	
				<b>23159 F34/SPX41/RS/WM/ECO</b>	30	20000	2900	2610	4100	80	☞ ⚡	1	101	
				<b>80095 F34/SPX50/RS/WM/ECO</b>	30	20000	2700	2430	5000	80	☞ ⚡	1	101	
				<b>80092 F34/C50/RS/WM/ECO</b>	30	20000	2000	1720	5000	90	☞ ⚡	1	101	Chroma 50
				<b>23010 F34/CW/RS/WM/ECO</b>	30	20000	2650	2280	4100	60	☞ ⚡	1	101	

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# Fluorescent Lamps

Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Color			Foot- notes	Warning and Cautions	Additional Information		
							Lumens Initial	Temp. Mean	K CRI					
<b>T12 LAMPS (CONTINUED)</b>														
<b>34W WATT-MISER® ECOLUX® - TCLP COMPLIANT (CONTINUED)</b>														
T12	Medium BiPin (G13)	34	48	25391	F34/CW/RS/WM/ECO/UPC	30	20000	2650	2280	4100	60	Ⓜ	1	101
				23485	F34/CW/RS/WM/ECO/C 10PK	10	20000	2650	2280	4100	60	Ⓜ	1	101
				80093	F34/DX/RS/WM/ECO	30	20000	1950	1620	6500	84	Ⓜ	1	101 Daylight Deluxe
				80094	F34/LW/RS/WM/ECO	30	20000	2825	2430	4200	49	Ⓜ	1	101 Lite White
				45065	F34/WW/RS/WM/ECO	30	20000	2700	2320	3000	52	Ⓜ	1	101 Warm White
				25398	F34/WW/RS/WM/ECO/UPC	30	20000	2700	2320	3000	52	Ⓜ	1	101 Warm White
<b>40W ECOLUX® - TCLP COMPLIANT</b>														
T12	Medium BiPin (G13)	40	48	80099	F40/SP30/ECO	30	20000	3250	2950	3000	70	Ⓜ		101
				80186	F40/SP35/ECO	30	20000	3200	2910	3500	73	Ⓜ		101
				80187	F40/SP41/ECO	30	20000	3200	2910	4100	72	Ⓜ		101
				23382	F40/SP41/ECO/C	10	20000	3200	2910	4100	72	Ⓜ		101
				80188	F40/SP65/ECO	30	20000	3050	2775	6500	75	Ⓜ		101
				25400	F40/SP65/ECO/UPC	30	20000	3050	2775	6500	75	Ⓜ		101
				80189	F40/SPX30/ECO	30	20000	3400	3090	3000	82	Ⓜ		101
				80190	F40/SPX35/ECO	30	20000	3400	3090	3500	82	Ⓜ		101
				80191	F40/SPX41/ECO	30	20000	3350	3050	4100	80	Ⓜ		101
				80199	F40/SPX50/ECO	30	20000	3200	2860	5000	80	Ⓜ		101
				80096	F40/C50/ECO	30	20000	2250	1870	5000	90	Ⓜ		101 Chroma 50
				25399	F40/C50/ECO/UPC	30	20000	2250	1870	5000	90	Ⓜ		101 Chroma 50
				13795	F40/C75 30PK	30	20000	1950	1680	7500	92	Ⓜ		101 Chroma 75, non-TCLP compliant
				13969	F40/D/ULTRA/ECO 6PK	24	20000	3050	2775	6500	75	Ⓜ		101 Daylight
				80097	F40/DX/ECO	30	20000	2250	1910	6500	84	Ⓜ		101 Daylight Deluxe
				40333	F40/KB/ECO 2PK	9	20000	3400	3090	3000	70	Ⓜ		101 Kitchen & Bath
				21323	F40/KB/ECO 6PK	24	20000	3400	3090	3000	70	Ⓜ		101 Kitchen & Bath
				80098	F40/N/ECO	30	20000	2100	1740	3700	90	Ⓜ		101 Natural
				12224	F40/SUN/ECO 6PK	24	20000	2250	1870	5000	90	Ⓜ		101 Sunlight
				14440	F40/RES/ECO/SLV	30	15000	3150	2860	4100	72	Ⓜ		101
				14433	F40/RES/ECO/SLV 6PK	24	15000	3150	2860	4100	72	Ⓜ		101
				14441	F40/RES/ECO TWN 9PK	9	15000	3150	2860	4100	72	Ⓜ		101
<b>40W ECOLUX® XL EXTRA-LIFE</b>														
T12	Medium BiPin (G13)	40	48	80217	F40/XL/SP30/ECO	30	24000	3300	2970	3000	75	Ⓜ		101
				80224	F40/XL/SP35/ECO	30	24000	3300	2970	3500	75	Ⓜ		101
				80227	F40/XL/SP41/ECO	30	24000	3300	2970	4100	73	Ⓜ		101
				80230	F40/XL/SPX30/ECO	30	24000	3400	3060	3000	82	Ⓜ		101
				80248	F40/XL/SPX35/ECO	30	24000	3400	3060	3500	82	Ⓜ		101
				80249	F40/XL/SPX41/ECO	30	24000	3400	3060	4100	80	Ⓜ		101
				80250	F40/XL/SPX50/ECO	30	24000	3350	3050	5000	80	Ⓜ		101
<b>25W ECOLUX® UTILITY SHOPLIGHT</b>														
T12	Medium BiPin (G13)	25	48	14450	F48/25W/UTECO/SLV	30	12000	1860	1675	4100	60		10	101
				14456	F48/25W/UTECO/TWN	9	12000	1860	1675	4100	60		10	101
				14445	F48/25W/UTECO/UPC	30	12000	1860	1675	4100	60		10	101

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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot-notes	Warning and Cautions		Additional Information
							Initial	Mean	Final	K	CRI		Notes	Additional Information	
<b>T12 LAMPS (CONTINUED)</b>															
<b>T12 MOD-U-LINE®</b>															
<b>T12 3 5/8" SPACING</b>															
T12	Medium BiPin (G13)	40	22.5	15259	F40/SP30/U/3	12	14000	2925	2660	3000	70	Ⓢ		105	
				14228	F40/SP35/U/3	12	14000	2925	2660	3500	73	Ⓢ		105	
				15260	F40/SP41/U/3	12	14000	2925	2660	4100	72	Ⓢ		105	
				14814	F40/SPX30/U/3	12	14000	3000	2730	3000	82	Ⓢ		105	
				14813	F40/SPX35/U/3	12	14000	3000	2730	3500	82	Ⓢ		105	
				14649	F40/SCW/U/3	12	14000	2725	2400	4100	75	Ⓢ		105	Super Cool White
<b>T12 6" SPACING</b>															
T12	Medium BiPin (G13)	40	22.5	15263	F40/SP30/U/6	12	14000	3050	2780	3000	70	Ⓢ		105	
				14227	F40/SP35/U/6	12	14000	3050	2780	3500	73	Ⓢ		105	
				22050	F40/SP35/U/6/UPC	12	14000	3050	2780	3500	73	Ⓢ		105	
				15265	F40/SP41/U/6	12	14000	3050	2780	4100	72	Ⓢ		105	
				14816	F40/SPX30/U/6	12	14000	3100	2820	3000	82	Ⓢ		105	
				14648	F40/SCW/U/6	12	14000	2800	2460	4100	75	Ⓢ		105	Super Cool White
				25374	F40/SCW/U/6/UPC 6PK	6	14000	2800	2460	4100	75	Ⓢ		105	Super Cool White
				14815	F40/SPX35/U/6	12	14000	3100	2820	3500	82	Ⓢ		105	
				14632	F40/SWW/U/6	12	14000	2800	2460	3000	75	Ⓢ		105	Super Warm White
<b>WATT-MISER® ENERGY SAVING LAMPS</b>															
<b>T12 3 5/8" SPACING WATT-MISER®</b>															
T12	Medium BiPin (G13)	35	22.5	12199	F35/CW/U/3/WM	12	14000	2200	2050	4100	60	Ⓢ	1	105	
				12200	F35/WW/U/3/WM	12	14000	2300	2100	3000	52	Ⓢ	1	105	Warm White
<b>T12 6" SPACING WATT-MISER®</b>															
T12	Medium BiPin (G13)	35	22.5	12203	F35/CW/U/6/WM	12	14000	2300	2100	4100	60	Ⓢ	1	105	
				14471	F35/CW/U/6/WM/UPC	12	14000	2300	2100	4100	60	Ⓢ	1	105	
				23383	F35/CW/U/6/WM/C	6	14000	2300	2100	4100	60	Ⓢ	1	105	
				12207	F35/WW/U/6/WM	12	14000	2350	2150	3000	52	Ⓢ	1	105	Warm White
<b>T12 6" SPACING WATT-MISER® ECOLUX®</b>															
T12	Medium BiPin (G13)	34	22.5	15622	F34/CW/U/6/WM/ECO	12	18000	2600	2235	4200	62	Ⓢ	1	105	
<b>T12 INSTANT START</b>															
T12	Single Pin (Fa8)	20	24	10691	F24T12/CW	24	7500	1050	900	4100	60			101	
		30	36	10709	F36T12/CW	24	7500	2000	1800	4100	60			101	
		35	42	10735	F42T12/CW	24	7500	2400	2210	4100	60			101	
		40	48	15262	F48T12/SP35	24	9000	3000	2820	3500	73	Ⓢ		101	
				15088	F48T12/SPX30	24	9000	3050	2870	3000	82	Ⓢ		101	
				15116	F48T12/SPX35	24	9000	3050	2870	3500	82	Ⓢ		101	
				10748	F48T12/CW	24	9000	2875	2650	4100	60			101	
				20461	F48T12/CW/UPC 6PK	24	9000	2875	2650	4100	60			101	
<b>WATT-MISER® ENERGY SAVING LAMPS</b>															
T12	Single Pin (Fa8)	30	48	14319	F48T12/SP35/WM	24	9000	2575	2420	3500	73	Ⓢ	1	101	
				13048	F48T12/SP41/WM	24	9000	2575	2420	4100	72	Ⓢ	1	101	
				44967	F48T12/CW/WM	24	9000	2475	2400	2210	60	Ⓢ	1	101	
<b>8' T12 INSTANT START</b>															
<b>8' INSTANT START STANDARD</b>															
T12	Single Pin (Fa8)	75	96	15357	F96T12/SP30 15PK	15	12000	6500	6110	3000	70	Ⓢ		101	
				14067	F96T12/SP35 15PK	15	12000	6500	6110	3500	73	Ⓢ		101	
				15358	F96T12/SP41 15PK	15	12000	6500	6110	4100	72	Ⓢ		101	
				12127	F96T12/SP65	15	12000	6125	5760	6500	75	Ⓢ		101	
				15110	F96T12/SPX30 15PK	15	12000	6800	6390	3000	82	Ⓢ		101	

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

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# Fluorescent Lamps

Bulb Base	Nominal Length Order	Watts in. Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot- notes	Warning and Cautions	Additional Information
						Initial	Mean	Output	K	CRI			
<b>T12 LAMPS (CONTINUED)</b>													
<b>8' T12 INSTANT START (CONTINUED)</b>													
<b>8' INSTANT START STANDARD (CONTINUED)</b>													
T12 Single Pin (Fa8)	75	96	15101 F96T12/SPX35 15PK	15	12000	6800	6390	3500	82	☉	☉		101
			15335 F96T12/SPX41 15PK	15	12000	6800	6390	4100	80	☉	☉		101
			23466 F96T12/SPX50 15PK	15	12000	6250	5880	5000	80	☉	☉		101
			14652 F96T12/DX	15	12000	4500	4050	6500	84	☉	☉		101 Daylight Deluxe
			13725 F96T12/N 15PK	15	12000	4250	3740	3700	90	☉	☉		101 Natural
			13752 F96T12/C50	15	12000	4600	4050	5000	90	☉	☉		101 Chroma 50
			25387 F96T12/C50/UPC	15	12000	4600	4050	5000	90	☉	☉		101 Chroma 50
<b>8' INSTANT START XL EXTRA-LIFE</b>													
T12 Single Pin (Fa8)	75	96	23576 F96T12/XL/SP35	15	15000	6700	6180	3500	75	☉	☉		101
			11661 F96T12/XL/SP41	15	15000	6700	6180	4100	73	☉	☉		101
			11664 F96T12/XL/SPX41	15	15000	6900	6370	4100	80	☉	☉		101
			11665 F96T12/XL/SPX50	15	15000	6425	5930	5000	80	☉	☉		101
<b>WATT-MISER® ENERGY SAVING LAMPS</b>													
<b>8' INSTANT START WATT-MISER®</b>													
T12 Single Pin (Fa8)	60	96	14201 F96T12/SP30/WM 15PK	15	12000	5700	5360	3000	70	☉	☉	⚡	101
			13849 F96T12/SP35/WM 15PK	15	12000	5700	5360	3500	73	☉	☉	⚡	101
			21856 F96T12/SP35/WM/UPC	15	12000	5700	5360	3500	73	☉	☉	⚡	101
			11217 F96T12/SP35/WM/C 10PK	10	12000	5700	5360	3500	73	☉	☉	⚡	101
			13758 F96T12/SP41/WM 15PK	15	12000	5700	5360	4100	72	☉	☉	⚡	101
			25395 F96T12/SP41/WM/UPC	15	12000	5700	5360	4100	72	☉	☉	⚡	101
			25171 F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60	☉	☉	⚡	101
			12128 F96T12/SP65/WM	15	12000	5100	4800	6500	75	☉	☉	⚡	101
			14629 F96T12/SPX30/WM 15PK	15	12000	6000	5640	3000	82	☉	☉	⚡	101
			14630 F96T12/SPX35/WM 15PK	15	12000	6000	5640	3500	82	☉	☉	⚡	101
			13756 F96T12/C50/WM 15PK	15	12000	4000	3520	5000	90	☉	☉	⚡	101 Chroma 50
			13729 F96T12/CW/WM15PK	15	12000	5500	5060	4100	60	☉	☉	⚡	101
			21713 F96T12/CW/WM/UPC 10PK	10	12000	5500	5060	4100	60	☉	☉	⚡	101
			13742 F96T12/LW/WM 15PK	15	12000	5800	5340	4200	49	☉	☉	⚡	101 Lite White
			13736 F96T12/WW/WM 15PK	15	12000	5700	5240	3000	52	☉	☉	⚡	101 Warm White
<b>8' INSTANT START WATT-MISER® XL EXTRA-LIFE</b>													
T12 Single Pin (Fa8)	60	96	12406 F96T12/XL/SP35/WM	15	15000	5900	5480	3500	75	☉	☉	⚡	101
			12408 F96T12/XL/SP41/WM	15	15000	5900	5480	4100	73	☉	☉	⚡	101
<b>8' INSTANT START WATT-MISER® ECOLUX®</b>													
T12 Single Pin (Fa8)	60	96	27233 F96T12/SP35/WM/ECO	15	12000	5700	5360	3500	73	☉	☉	⚡	101
			27235 F96T12/SP41/WM/ECO	15	12000	5700	5360	4100	72	☉	☉	⚡	101
			40373 F96T12/SP65/WM/ECO	15	12000	5100	4800	6500	75	☉	☉	⚡	101
			27237 F96T12/SPX30/WM/ECO	15	12000	6000	5640	3000	82	☉	☉	⚡	101
			27238 F96T12/SPX35/WM/ECO	15	12000	6000	5640	3500	82	☉	☉	⚡	101
			27186 F96T12/CW/WM/ECO	15	12000	5500	5060	4100	60	☉	☉	⚡	101
<b>T12 OTHER LENGTHS</b>													
<b>5' T12 INSTANT START</b>													
T12 Single Pin (Fa8)	50	60	23073 F60T12/CW 15PK	15	12000	3600	3310	4100	60				101
			23076 F60T12/D 15PK	15	12000	3000	2760	6500	75	☉	☉		101 Daylight
<b>64" T12 INSTANT START</b>													
T12 Single Pin (Fa8)	50	64	23082 F64T12/CW15PK	15	10000	3850	3540	4100	60				101
			23085 F64T12/D 15PK	15	10000	3300	3040	6500	75	☉	☉		101 Daylight

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Bulb Base	Nominal Length Order	Watts in.	Description	Case Qty.	Rated Life	Lumens Initial	Color Temp. Mean	K	CRI	Foot-notes	Warning and Cautions	Additional Information
<b>T12 LAMPS (CONTINUED)</b>												
<b>T12 OTHER LENGTHS (CONTINUED)</b>												
<b>6' T12 INSTANT START®</b>												
T12	Single Pin (Fa8)	55	72	15286 F72T12/SP35 15PK	15	12000	4700	4420	3500	73		101
				15097 F72T12/SP41	15	12000	4700	4420	4100	72		101
				15117 F72T12SPX30 15PK	15	12000	4800	4510	3000	82		101
				15098 F72T12/SPX35 15PK	15	12000	4800	4510	3500	82		101
				13743 F72T12/CW 15PK	15	12000	4500	4140	4100	60		101
				23385 F72T12/CW/C	10	12000	4500	4140	4100	60		101
				12525 F72T12/CW/UPC 10PK	10	12000	4500	4140	4100	60		101
				13748 F72T12/D 15PK	15	12000	3800	3500	6500	75		101 Daylight
<b>7' T12 INSTANT START®</b>												
T12	Single Pin (Fa8)	65	84	13764 F84T12/CW 15PK	15	12000	5300	4880	4100	60		101
<b>T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT</b>												
<b>18" HIGH OUTPUT</b>												
T12	R17d	30	18	10204 F18T12/CW/HO	24	9000	1000	750	4100	60		101
<b>2' HIGH OUTPUT</b>												
T12	R17d	35	24	10261 F24T12/CW/HO	24	9000	1620	1345	4100	60		101
				10275 F24T12/D/HO	24	9000	1400	1160	6500	74		101 Daylight
<b>30" HIGH OUTPUT</b>												
T12	R17d	40	30	33707 F30T12/CW/HO	24	9000	2250	1950	4100	60		101
<b>3' HIGH OUTPUT</b>												
T12	R17d	45	36	10374 F36T12/CW/HO	24	9000	2800	2440	4100	60		101
				10380 F36T12/D/HO	24	9000	2350	2040	6500	75		101
				10388 F36T12/SGN/HO	24	9000	2150	1830	5400	82		101
<b>42" HIGH OUTPUT</b>												
T12	R17d	55	42	10559 F42T12/CW/HO	24	9000	3200	2790	4100	60		101
				10560 F42T12/D/HO	24	9000	2900	2520	6500	74		101 Daylight
				10562 F42T12/SGN/HO	24	9000	2600	2215	5400	82		101 Sign White
<b>4' HIGH OUTPUT</b>												
T12	R17d	60	48	15359 F48T12/SP30/HO	24	12000	4250	3830	3000	70		101
				15360 F48T12/SP35/HO	24	12000	4250	3830	3500	73		101
				15361 F48T12/SP41/HO	24	12000	4250	3830	4100	72		101
				15115 F48T12/SPX35/HO	24	12000	4350	3920	3500	82		101
				10773 F48T12/CW/HO	24	12000	3825	3320	4100	60		101
				27313 F48T12/CW/HO/UPC	24	12000	3825	3320	4100	60		101
				10778 F48T12/D/HO	24	12000	3400	2960	6500	75		101 Daylight
				10573 F48T12/SGN/HO	24	12000	3100	2640	5400	80		101 Sign White
<b>4' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS</b>												
T12	R17d	55	48	15342 F48T12/SP35/HO/WM	24	12000	3850	3465	3500	73	1	101
				11179 F48T12/LW/HO/WM	24	12000	3900	3390	4200	49	1	101 Lite White
<b>5' HIGH OUTPUT</b>												
T12	R17d	75	60	23075 F60T12/CW/HO 15PK	15	12000	5150	4480	4100	60		101
				23077 F60T12/D/HO 15PK	15	12000	4400	3830	6500	75		101 Daylight
				23081 F60T12/SGN/HO 15PK	15	12000	4000	3400	5400	82		101 Sign White
<b>64" HIGH OUTPUT</b>												
T12	R17d	80	64	23083 F64T12/CW/HO 15PK	15	12000	5600	4870	4100	60		101
				23087 F64T12/D/HO 15PK	15	12000	4750	4130	6500	75		101 Daylight
				23089 F64T12/SGN/HO15PK	15	12000	4300	3660	5400	82		101 Sign White



Bulb Base	Nominal Length Order		Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot-notes	Warning and Cautions		Additional Information
	Watts	in.				Code	Initial	Mean	K	CRI		Temp.	Temp.	
<b>T12 LAMPS (CONTINUED)</b>														
<b>T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT (CONTINUED)</b>														
<b>6' HIGH OUTPUT</b>														
T12 R17d	85	72	15343 F72T12/SP30/HO 15PK	15	12000	6650	5990	3000	70	☉		101		
			15347 F72T12/SP35/HO 15PK	15	12000	6650	5990	3500	73	☉		101		
			15348 F72T12/SP41/HO 15PK	15	12000	6650	5990	4100	72	☉		101		
			15137 F72T12/SPX30/HO 15PK	15	12000	6800	6120	3000	82	☉		101		
			15351 F72T12/SPX35/HO 15PK	15	12000	6800	6120	3500	82	☉		101		
			13697 F72T12/CW/HO 15PK	15	12000	6350	5520	4100	60			101		
			13699 F72T12/D/HO 15PK	15	12000	5350	4650	6500	75	☉		101	Daylight	
			12527 F72T12/N/HO	10	12000	4300	3610	3700	90	☉		101	Natural	
			13701 F72T12/SGN/HO 15PK	15	12000	4900	4170	5400	82	☉		101	Sign White	
			13702 F72T12/WW/HO 15PK	15	12000	6550	5700	3000	52			101	Warm White	
<b>7' HIGH OUTPUT</b>														
T12 R17d	100	84	13766 F84T12/CW/HO 15PK	15	12000	7700	6700	4100	60			101		
			13767 F84T12/D/HO 15PK	15	12000	6500	5660	6500	75	☉		101	Daylight	
			13768 F84T12/SGN/HO 15PK	15	12000	6000	5100	5400	82	☉		101	Sign White	
<b>8' HIGH OUTPUT</b>														
T12 R17d	110	96	15362 F96T12/SP30/HO 15PK	15	12000	9200	8280	3000	70	☉	☉	101		
			15363 F96T12/SP35/HO 15PK	15	12000	9200	8280	3500	73	☉	☉	101		
			15364 F96T12/SP41/HO 15PK	15	12000	9200	8280	4100	72	☉	☉	101		
			12130 F96T12/SP65/HO	15	12000	8900	8010	6500	75	☉	☉	101		
			15119 F96T12/SPX30/HO 15PK	15	12000	9350	8420	3000	82	☉	☉	101		
			15352 F96T12/SPX35/HO 15PK	15	12000	9350	8420	3500	82	☉	☉	101		
			23070 F96T12/SPX41/HO 15PK	15	12000	9350	8420	4100	80	☉	☉	101		
			13707 F96T12/C50/HO 15PK	15	12000	6750	5670	5000	90	☉	☉	101	Chroma 50	
			14653 F96T12/DX/HO	15	12000	6600	5610	6500	84	☉	☉	101	Daylight Deluxe	
			13709 F96T12/N/HO 15PK	15	12000	6200	5210	3700	90	☉	☉	101	Natural	
<b>8' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS</b>														
T12 R17d	95	96	14069 F96T12/SP35/HO/WM	15	12000	8350	7520	3500	73	☉	☉	1	101	
			13721 F96T12/SP41/HO/WM 15PK	15	12000	8350	7520	4100	72	☉	☉	1	101	
			12131 F96T12/SP65/HO/WM	15	12000	7700	6930	6500	75	☉	☉	1	101	
			15120 F96T12/SPX30/HO/WM	15	12000	8500	7650	3000	82	☉	☉	1	101	
			15122 F96T12/SPX35/HO/WM	15	12000	8500	7650	3500	82	☉	☉	1	101	
			23069 F96T12/SPX41/HO/WM	15	12000	8500	7650	4100	80	☉	☉	1	101	
			13716 F96T12/CW/HO/WM 15PK	15	12000	8000	6960	4100	60	☉		1	101	
			21714 F96T12/CW/HO/WM/UPC	15	12000	8000	6960	4100	60	☉		1	101	
			13720 F96T12/LW/HO/WM	15	12000	8500	7900	4200	49	☉	☉	1	101	Lite White
			13719 F96T12/WW/HO/WM 15PK	15	12000	8200	7130	3000	52	☉	☉	1	101	Warm White
<b>8' HIGH OUTPUT WATT-MISER ECOLUX®</b>														
T12 R17d	95	96	16495 F96T12/CW/HO/WM/ECO	15	12000	8000	6480	4100	60	☉	☉	1	101	
<b>T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT</b>														
T12 R17d	110	48	10751 F48T12/CW/1500	24	10000	6200	4030	4100	60		4	101		
	165	72	13760 F72T12/CW/1500 15PK	15	10000	9000	6300	4100	60		4	101		
	185	96	13789 F96T12/CW/1500/WM 15PK	15	9000	12500	9380	4100	60	☉	4	101		
			13790 F96T12/LW/1500/WM 15PK	15	9000	13250	9940	4200	49	☉	4	101	Lite White	
	215	96	13781 F96T12/CW/1500 15PK	15	10000	13500	10125	4100	60		4	101		
			13783 F96T12/D/1500 15PK	15	10000	11500	8630	6500	74	☉	4	101	Daylight	
			13785 F96T12/WW/1500 15PK	15	10000	14000	10500	3000	52		4	101		

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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Color			Foot-notes	Warning and Cautions	Additional Information
							Initial Lumens	Mean Temp. K	CRI			
<b>T12 LAMPS (CONTINUED)</b>												
<b>T12 PREHEAT</b>												
<b>15"</b>												
T12	Medium BiPin (G13)	14	15	<b>10116</b> F14T12/CW	24	9000	650	550	4100	60		101 Preheat
				<b>10117</b> F14T12/CW 6PK	24	9000	650	550	4100	60		101 Preheat
				<b>22979</b> F14T12/KB 6PK	24	9000	700	650	3000	70	☞	104 Preheat, Kitchen & Bath
<b>18"</b>												
T12	Medium BiPin (G13)	15	18	<b>10183</b> F15T12/CW 6PK	24	9000	760	685	4100	60		10 Preheat
				<b>22745</b> F15T12/KB 6PK	24	9000	785	730	3000	70	☞	104 Preheat, Kitchen & Bath
				<b>10185</b> F15T12/WW	24	9000	780	700	3000	52		101 Preheat
<b>24"</b>												
T12	Medium BiPin (G13)	20	24	<b>14423</b> F20T12/SP35	24	9000	1275	1200	3500	73	☞	101 Preheat
				<b>15353</b> F20T12/SP41	24	9000	1275	1200	4100	72	☞	101 Preheat
				<b>15354</b> F20T12/SPX35	24	9000	1300	1220	3500	82	☞	101 Preheat
				<b>38114</b> F20T12/C50	24	9000	875	790	5000	90	☞	101 Preheat, Chroma 50
				<b>10213</b> F20T12/CW	24	9000	1200	1150	4100	60		101 Preheat
				<b>10214</b> F20T12/CW 6PK	24	9000	1200	1150	4100	60		101 Preheat
				<b>10205</b> F20T12/D	24	9000	1025	945	6500	75	☞	101 Preheat, Daylight
				<b>25575</b> F20T12/D/UPC	24	9000	1025	945	6500	75	☞	101 Preheat, Daylight
				<b>21325</b> F20T12/KB 6PK	24	9000	1275	1200	3000	70	☞	104 Preheat, Kitchen & Bath
				<b>14419</b> F20T12/SUN 6PK	24	9000	875	790	5000	90	☞	101 Preheat, Sunlight
				<b>10217</b> F20T12/WW	24	9000	1250	1150	3000	52		101 Preheat, Warm White
				<b>25577</b> F20T12/WW-UPC	24	9000	1250	1150	3000	52		101 Preheat, Warm White
<b>OTHER DIAMETERS</b>												
<b>T6 INSTANT START</b>												
T6	Single Pin (Fa8)	25	42	<b>12221</b> F42T6/SP35	24	7500	1830	1700	3500	73	☞	101
				<b>10720</b> F42T6/CW	24	7500	1750	1580	4100	60		101
				<b>10721</b> F42T6/WW	24	7500	1825	1640	3000	52		101 Warm White
		40	64	<b>12223</b> F64T6/SP35	24	7500	2930	2720	3500	73	☞	101
				<b>10805</b> F64T6/CW	24	7500	2800	2520	4100	60		101
				<b>10807</b> F64T6/WW	24	7500	2900	2610	3000	52		101 Warm White
<b>T17 INSTANT START</b>												
T17	Mogul BiPin (G20)	40	60	<b>10575</b> F40T17/CW/IS	12	7500	2850	2620	4100	60	3	101 Use only w/ instant start ballasts
<b>T17 PREHEAT</b>												
T17	Mogul BiPin (G20)	82	60	<b>43443</b> F90T17/CW/WM	12	9000	5750	5060	4100	60	4	101
		90	60	<b>10643</b> F90T17/CW	12	9000	6000	5280	4100	60	4	101
<b>PG17 POWER GROOVE RECESSED DOUBLE CONTACT (1500mA)</b>												
PG17	R17d	185	96	<b>42666</b> F96PG17/CW/WM	8	12000	12700	9900	4100	60	4	101
		215	96	<b>11009</b> F96PG17/CW	8	10000	14000	10915	4100	60	4	101
				<b>11018</b> F96PG17/D	8	10000	12100	9440	6500	74	☞	101 Daylight
<b>T9 CIRCLINE® LAMPS</b>												
T9	4 Pin (G10q)	20	6.5	<b>42732</b> FC6T9/CW	12	12000	800	560	4100	60		101
		22	8.25	<b>33774</b> FC8T9/CW	12	12000	1100	825	4100	60		101
				<b>11026</b> FC8T9/D	12	12000	925	690	6500	75	☞	101 Daylight
				<b>11084</b> FC8T9/KB	6	12000	1400	1120	3000	82	☞	104 Kitchen & Bath
		32	12	<b>33890</b> FC12T9/CW	12	12000	1950	1460	4100	60		101
				<b>11039</b> FC12T9/D	12	12000	1675	1260	6500	75	☞	101 Daylight
				<b>11085</b> FC12T9/KB	6	12000	2400	1920	3000	82	☞	104 Kitchen & Bath
		40	16	<b>33893</b> FC16T9/CW	12	12000	2700	2030	4100	60		101
				<b>11052</b> FC16T9/D	12	12000	2250	1690	6500	75	☞	101 Daylight



# Fluorescent Lamps

Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Warning			
							Initial	Mean	Foot-	Temp.	K	CRI	notes	and	Additional Information
<b>SPECIAL APPLICATION LAMPS</b>															
<b>COVERGUARD® SHATTER PROTECTED</b>															
<b>T5</b>															
<b>T5 HIGH EFFICIENCY</b>															
T5 Miniature BiPin (G5)	28	45.2	81546	F28T5/830ECO/CVG	40	20000	2840	2670	3000	85	⊕	11,13	103		
			81547	F28T5/835ECO/CVG	40	20000	2840	2670	3500	85	⊕	11,13	103		
			81548	F28T5/841ECO/CVG	40	20000	2840	2670	4100	85	⊕	11,13	103		
			81549	F28T5/850ECO/CVG	40	20000	2840	2670	5000	85	⊕	11,13	103		
			81550	F28T5/865ECO/CVG	40	20000	2840	2670	6500	85	⊕	11,13	103		
<b>T5 HIGH OUTPUT</b>															
T5 Miniature BiPin (G5)	54	45.2	48433	F54T5/830ECO/HO/CVG	40	30000	4850	4560	3000	85	⊕	11,13	103		
			48436	F54T5/835ECO/HO/CVG	40	30000	4850	4560	3500	85	⊕	11,13	103		
			48458	F54T5/841ECO/HO/CVG	40	30000	4850	4560	4100	85	⊕	11,13	103		
			80311	F54T5/850ECO/HO/CVG	40	30000	4650	4560	5000	85	⊕	11,13	103		
			48469	F54T5/865ECO/HO/CVG	40	30000	4600	4320	6500	85	⊕	11,13	103		
<b>T5 PREHEAT LAMPS</b>															
T5 Miniature BiPin (G5)	4	6	41435	F4T5/CW/CVG	24	5000	130	95	4100	60		11,13	103		
			6	9	41106	F6T5/CW/CVG	24	5000	285	225	4100	60		11,13	103
			8	12	41107	F8T5/CW/CVG	24	5000	385	310	4100	60		11,13	103
			13	21	41108	F13T5/CW/CVG	24	5000	820	680	4100	60		11,13	103
<b>T6</b>															
<b>T6 INSTANT START LAMPS</b>															
T6 Single Pin (Fa8)	25	42	41140	F42T6/CW/CVG	24	7500	1690	1530	4100	60		11,13	103		
			41142	F42T6/SP35/CVG	24	7500	1770	1640	3500	73	⊕	11,13	103		
			41141	F42T6/WW/CVG	24	7500	1770	1590	3000	52		11,13	103 Warm White		
	40	64	46422	F64T6/CW/CVG	24	7500	2710	2440	4100	60		11,13	103		
			41143	F64T6/SP35/CVG	24	7500	2840	2630	3500	73	⊕	11,13	103		
<b>T8 ECOLUX® W/ STARCOAT</b>															
<b>2' T8 ECOLUX® W/ STARCOAT</b>															
T8 Medium BiPin (G13)	17	24	47417	F17T8/SP30/ECO/CVG	24	20000	1280	1220	3000	78	⊕	11,13,18	103		
			15974	F17T8/SP35/ECO/CVG	24	20000	1280	1220	3500	78	⊕	11,13,18	103		
			15877	F17T8/SP41/ECO/CVG	24	20000	1280	1220	4100	78	⊕	11,13,18	103		
			15975	F17T8/SPX35/ECO/CVG	24	20000	1310	1242	3500	86	⊕	11,13,18	103		
			15976	F17T8/SPX41/ECO/CVG	24	20000	1310	1242	4100	86	⊕	11,13,18	103		
<b>3' T8 ECOLUX® W/ STARCOAT</b>															
T8 Medium BiPin (G13)	25	36	15978	F25T8/SP30/ECO/CVG	24	20000	2020	1920	3000	78	⊕	11,13,18	103		
			15981	F25T8/SP35/ECO/CVG	24	20000	2020	1920	3500	78	⊕	11,13,18	103		
			15984	F25T8/SP41/ECO/CVG	24	20000	2020	1920	4100	78	⊕	11,13,18	103		
			15989	F25T8/SPX30/ECOCVG	24	20000	2080	1970	3000	86	⊕	11,13,18	103		
			15990	F25T8/SPX35/ECOCVG	24	20000	2080	1970	3500	86	⊕	11,13,18	103		
			15991	F25T8/SPX41/ECOCVG	24	20000	2080	1970	4100	86	⊕	11,13,18	103		

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)

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



# Fluorescent Lamps

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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot-notes	Warning and Cautions	Additional Information
							Initial	Mean	Final	K	CRI			
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>														
<b>COVARGUARD® SHATTER PROTECTED (CONTINUED)</b>														
<b>T8 ECOLUX® W/ STARCOAT® (CONTINUED)</b>														
<b>4' T8 (48") ECOLUX® W/ STARCOAT®</b>														
T8	Medium BiPin (G13)	32	48	<b>40803</b> F32T8/SP30/ECO/CVG	36	20000	2715	2580	3000	78	80	1,13,18	103	
				<b>40804</b> F32T8/SP35/ECO/CVG	36	20000	2715	2580	3500	78	80	1,13,18	103	
				<b>40812</b> F32T8/SP41/ECO/CVG	36	20000	2715	2580	4100	78	80	1,13,18	103	
				<b>18366</b> F32T8/SP50/ECO/CVG	36	20000	2665	2530	5000	78	80	1,13,18	103	
				<b>18368</b> F32T8/SP65/ECO/CVG	36	20000	2620	2490	6500	78	80	1,13,18	103	
				<b>41125</b> F32T8/SPX30/ECO/CVG	36	20000	2860	2710	3000	86	80	1,13,18	103	
				<b>41126</b> F32T8/SPX35/ECO/CVG	36	20000	2860	2710	3500	86	80	1,13,18	103	
				<b>41127</b> F32T8/SPX41/ECO/CVG	36	20000	2860	2710	4100	86	80	1,13,18	103	
				<b>15971</b> F32T8/SPX50/ECO/CVG	36	20000	2715	2580	5000	86	80	1,13,18	103	
<b>4' T8 ECOLUX® XL EXTRA-LIFE W/ STARCOAT®</b>														
T8	Medium BiPin (G13)	32	48	<b>15972</b> F32T8/XL/SPX30ECO/CVG	36	20000	2860	2715	3000	86	80	1,13,18	103	
				<b>15973</b> F32T8/XL/SPX35ECO/CVG	36	20000	2860	2715	3500	86	80	1,13,18	103	
				<b>18369</b> F32T8/XL/SPX41ECO/CVG	36	20000	2860	2715	4100	86	80	1,13,18	103	
				<b>23746</b> F32T8/XL/SPX50ECO/CVG	36	20000	2860	2715	4100	86	80	1,13,18	103	
<b>4' T8 ECOLUX® SUPER LONG LIFE W/ STARCOAT®</b>														
T8	Medium BiPin (G13)	32	48	<b>14560</b> F32T8/SXL/SP35/ECO/CVG	36	30000	2765	2595	3500	83	80	1,13,18	103	
				<b>14551</b> F32T8/SXL/SP41/ECO/CVG	36	30000	2765	2595	4100	81	80	1,13,18	103	
<b>ULTRA ENERGY SAVING T8 LAMPS W/ COVARGUARD®</b>														
<b>4' T8 ECOLUX® WATT-MISER® W/ STARCOAT®</b>														
T8	Medium BiPin (G13)	32	48	<b>40286</b> F32T8/SP30/IS/WM/ECO/CVG	36	20000	2790	2620	3000	84	80	1,11,13,18	103	
				<b>40299</b> F32T8/SP35/IS/WM/ECO/CVG	36	20000	2765	2595	3500	83	80	1,11,13,18	103	
				<b>40309</b> F32T8/SP41/IS/WM/ECO/CVG	36	20000	2740	2570	4100	81	80	1,11,13,18	103	
				<b>47422</b> F32T8/SP50/IS/WM/ECO/CVG	36	20000	2740	2570	4100	81	80	1,11,13,18	103	
<b>4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE W/ STARCOAT®</b>														
T8	Medium BiPin (G13)	32	48	<b>10023</b> F32T8/XL/SP30/WM/ECOCVG	36	24000	2740	2570	3000	84	80	1,11,13,18	103	
				<b>40297</b> F32T8/XL/SP35/WM/ECOCVG	36	24000	2715	2545	3500	83	80	1,11,13,18	103	
				<b>40310</b> F32T8/XL/SP41/WM/ECOCVG	36	24000	2690	2520	4100	81	80	1,11,13,18	103	
				<b>47423</b> F32T8/XL/SP50/WM/ECOCVG	36	24000	2690	2520	4100	81	80	1,11,13,18	103	
<b>4' T8 ECOLUX® HIGH LUMEN XL EXTRA-LIFE W/ STARCOAT®</b>														
T8	Medium BiPin (G13)	32	48	<b>00267</b> F32T8/XL/SPX30/HL/ECO/CVG	36	24000	3005	2825	4100	82	80	1,13,18	103	
				<b>00268</b> F32T8/XL/SPX35/HL/ECO/CVG	36	24000	3005	2825	3500	85	80	1,13,18	103	
				<b>00269</b> F32T8/XL/SPX41/HL/ECO/CVG	36	24000	3005	2825	3000	85	80	1,13,18	103	
				<b>80497</b> F32T8/XL/SPX50/HL/ECO/CVG	36	24000	3005	2825	4100	82	80	1,13,18	103	
<b>T8 MOD-U-LINE® 6" SPACING</b>														
T8	Medium BiPin (G13)	32	22.5	<b>23655</b> F32T8/SP30/U6/CVG	12	20000	2640	2510	3000	78	80	11,13	103	
				<b>23656</b> F32T8/SP35/U6/CVG	12	20000	2640	2510	3500	78	80	11,13	103	
				<b>23657</b> F32T8/SP41/U6/CVG	12	20000	2640	2510	4100	78	80	11,13	103	
				<b>23658</b> F32T8/SPX30/U6/CVG	12	20000	2740	2575	3000	86	80	11,13	103	
				<b>23659</b> F32T8/SPX35/U6/CVG	12	20000	2740	2575	3500	86	80	11,13	103	
				<b>23660</b> F32T8/SPX41/U6/CVG	12	20000	2740	2575	4100	86	80	11,13	103	
<b>5' T8 W/ STARCOAT®</b>														
<b>5' T8 (60") W/ STARCOAT®</b>														
T8	Medium BiPin (G13)	40	60	<b>41130</b> F40T8/SP35/CVG	24	20000	3490	3140	3500	75	80	11,13	103	
				<b>41131</b> F40T8/SPX35/CVG	24	20000	3610	3240	3500	84	80	11,13	103	
				<b>47351</b> F40T8/SPX41/CVG	24	20000	3610	3250	4100	80	80	11,13	103	

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See [www.gelighting.com](http://www.gelighting.com) e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4.  
 All footnote references found at the end of this section. ⚡ Reduced Wattage ⚡ High Color Rendering.



Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Warning	
							Initial	Mean	CR	K	CRI	Foot- notes	and Cautions
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>													
<b>COVARGUARD® SHATTER PROTECTED (CONTINUED)</b>													
<b>T8 INSTANT START W/ STARCOAT®</b>													
<b>6' T8 (72") INSTANT START</b>													
T8	Single Pin (Fa8)	35	72	41149	F72T8/CW/CVG	24	7500	2910	2640	4100	60	11,13	103
<b>8' T8 (96") INSTANT START W/ STARCOAT®</b>													
T8	Single Pin (Fa8)	59	96	40094	F96T8/SP30/CVG	24	15000	5620	5330	3000	75	11,13	103
				40095	F96T8/SP35/CVG	24	15000	5620	5330	3500	75	11,13	103
				40096	F96T8/SP41/CVG	24	15000	5620	5330	4100	75	11,13	103
				40099	F96T8/SPX30/CVG	24	15000	5770	5480	3000	84	11,13	103
				40105	F96T8/SPX35/CVG	24	15000	5770	5480	3500	84	11,13	103
				40106	F96T8/SPX41/CVG	24	15000	5770	5480	4100	80	11,13	103
<b>8' T8 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT W/ STARCOAT®</b>													
T8	R17d	86	96	40107	F96T8/SP35/HO/CVG	24	18000	7760	6980	3500	75	11,12,13	103
				40108	F96T8/SP41/HO/CVG	24	18000	7760	6980	4100	75	11,12,13	103
<b>T8 PREHEAT LAMPS</b>													
T8	Medium BiPin (G13)	13	12	41109	F13T8/CW/CVG	24	7500	545	465	4100	60	11,13	103 Preheat
		15	18	41110	F15T8/CW/CVG	24	7500	800	700	4100	60	11,13	103 Preheat
				46627	F15T8/KB/CVG/UPC	24	7500	910	825	3000	70	11,13	103 Preheat, Kitchen & Bath
				46216	F15T8/SP35/CVG	24	7500	910	825	3500	75	11,13	103 Preheat
				41111	F15T8/SPX35/CVG	24	7500	970	870	3500	82	11,13	103 Preheat
		18	24	41117	F24T8/CW/4/CVG	6	7500	1180	1000	4100	60	11,13	103 Preheat
		19	28	41121	F28T8/CW/4/CVG	6	7500	1300	1110	4100	60	11,13	103 Preheat
		30	36	41122	F30T8/CW/CVG	24	7500	2100	1920	4100	60	11,13	103 Preheat
				46206	F30T8/SPX30/CVG	24	7500	2230	2070	3000	82	11,13	103 Preheat
<b>T12 RAPID START LAMPS</b>													
<b>3' ECOLUX® T12 (36")</b>													
T12	Medium BiPin (G13)	30	36	80486	F30T12/CW/RS/ECO/CVG	24	18000	2130	1850	4100	60	11,13	103
				80987	F30T12/SPX30/RS/ECO/CVG	24	18000	2300	2070	3000	82	11,13	103
				80487	F30T12/SPX35/RS/ECO/CVG	24	18000	2300	2070	3500	86	11,13	103
				80986	F30T12/SP35/ECO/CVG	24	18000	2280	2050	3500	73	11,13	103
<b>4' T12 ECOLUX® RAPID START LAMPS (48")</b>													
T12	Medium BiPin (G13)	40	48	80495	F40/CW/ECO/CVG	30	20000	2950	2600	4100	60	11,13	103
				80992	F40/CW/ECO/CVG 6PACK	6	20000	2950	2600	4100	60	11,13	103
				80995	F40/KB/ECO/CVG/UPC	24	20000	3290	2990	3000	82	11,13	103 Kitchen & Bath
				80988	F40T12/SP30/ECO/CVG	30	20000	3150	2860	3000	70	11,13	103
				80989	F40T12/SP35/ECO/CVG	30	20000	3100	2820	3500	73	11,13	103
				80990	F40/SP65/ECO/CVG	30	20000	2950	2690	6500	75	11,13	103
				80493	F40/SPX30/ECO/CVG	30	20000	3290	2990	3000	82	11,13	103
				80494	F40/SPX35/ECO/CVG	30	20000	3290	2990	3500	82	11,13	103
				80991	F40/SPX41/ECO/CVG	30	20000	3240	2950	4100	80	11,13	103
				80993	F40/D/ECO/CVG	30	20000	2470	2170	6250	75	11,13	103 Daylight
				80994	F40/DX/ECO/CVG	30	20000	2180	1850	6500	84	11,13	103 Daylight Deluxe
				80996	F40/N/ECO/CVG	30	20000	2030	1680	3700	90	11,13	103 Natural
				80496	F40/C50/ECO/CVG	30	20000	2180	1810	5000	90	11,13	103 Chroma 50
				41133	F40/C75/CVG	30	20000	1890	1630	7500	92	11,13	103 Chroma 75, non-TCLP Compliant



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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens				Color Temp.		Warning	
							Initial	Mean	K	CRI	K	CRI	Foot-notes	and Cautions
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>														
<b>COVARGUARD® SHATTER PROTECTED (CONTINUED)</b>														
<b>T12 RAPID START LAMPS (CONTINUED)</b>														
<b>4' T12 ECOLUX® RAPID START WATT-MISER® LAMPS (48")</b>														
T12	Medium BiPin (G13)	34	48	80489 F34/SP35/RS/WM/ECO/CVG	30	20000	2660	2400	3500	73	⚡	1,11,13	103	
				80490 F34/SP41/RS/WM/ECO/CVG	30	20000	2660	2400	4100	72	⚡	1,11,13	103	
				80491 F34/SPX41/RS/WM/ECO/CVG	30	20000	2820	2530	4100	80	⚡	1,11,13	103	
				80488 F34/WW/RS/WM/ECO/CVG	30	20000	2620	2250	3000	52	⚡	1,11,13	103	Warm White
				80492 F34/LW/RS/WM/ECO/CVG	30	20000	2730	2350	4200	49	⚡	1,11,13	103	Lite White
				40805 F34/CW/RS/WM/ECO/CVG	30	20000	2570	2210	4100	60	⚡	1,11,13	103	
				41138 F34/SPX30/RS/WM/ECO/CVG	30	20000	2810	2530	3000	82	⚡	1,11,13	103	
				41139 F34/SPX35/RS/WM/ECO/CVG	30	20000	2810	2530	3500	82	⚡	1,11,13	103	
<b>4' T12 RAPID START LAMPS UTILITY SHOPLIGHT (48")</b>														
T12	Medium BiPin (G13)	25	48	30		12000	1800	1620	4100	60		11,13	103	
<b>T12 INSTANT START</b>														
T12	Single Pin (Fa8)	20	24	47342 F24T12/CW/CVG	24	7500	870	785	4100	60		11,13	103	
		40	48	40127 F48T12/CW/CVG	24	9000	2780	2560	4100	60		11,13	103	
				48091 F48T12/SP35/CVG	24	9000	2910	2730	4100	60		11,13	103	
				41144 F48T12/SPX35/CVG	24	9000	2950	2780	3500	82	⚡	11,13	103	
		50	60	41147 F60T12/CW/CVG	15	12000	3490	3210	4100	60		11,13	103	
		55	72	46213 F72T12/SP35/CVG	15	12000	4550	4280	3500	73		11,13	103	
				41151 F72T12/SPX30/CVG	15	12000	4650	4370	3000	82	⚡	11,13	103	
				41153 F72T12/SPX35/CVG	15	12000	4650	4370	3500	82	⚡	11,13	103	
		75	96	40117 F96T12/CW/CVG	15	12000	5960	5480	4100	60		11,13	103	
				46215 F96T12/SP35/CVG	15	12000	6300	5920	3500	73		11,13	103	
				41157 F96T12/SPX30/CVG	15	12000	6590	6190	3000	82	⚡	11,13	103	
				41158 F96T12/SPX35/CVG	15	12000	6590	6190	3500	82	⚡	11,13	103	
				41159 F96T12/SPX41/CVG	15	12000	6590	6190	4100	80	⚡	11,13	103	
				41973 F96T12/DX/CVG	15	12000	4360	3920	6500	84	⚡	11,13	103	Daylight Deluxe
				46208 F96T12/C50/CVG	15	12000	4460	3920	5000	90	⚡	11,13	103	Chroma 50
<b>T12 INSTANT START ~ WATT-MISER® ENERGY SAVING LAMPS</b>														
<b>8' T12 RAPID START WATT-MISER® LAMPS (96")</b>														
T12	Single Pin (Fa8)	58	96	45993 F96T12/SP35/WMP/CVG	15	12000	5520	5190	3500	75	⚡	1,11,13	103	
		60	96	40115 F96T12/CW/WM/CVG	15	12000	5330	4910	4100	60	⚡	1,11,13	103	
		96		40124 F96T12/SP35/WM/CVG	15	12000	5520	5200	3500	73	⚡	1,11,13	103	
<b>8' T12 ECOLUX® RAPID START WATT-MISER® LAMPS (96")</b>														
T12	Single Pin (Fa8)	60	96	40807 F96T12/CW/WM/ECO/CVG	15	12000	5330	4910	4100	60		1,11,13	103	
<b>T12 MOD-U-LINE® ~ WATT-MISER® ENERGY SAVING LAMPS</b>														
T12	Medium BiPin (G13)	35	22.5	47694 F35/CW/U6/WM/CVG	10	14000	2230	2030	4100	60	⚡	1,11,13	103	6" Spacing Between Legs
<b>T12 MOD-U-LINE® 6" SPACING</b>														
T12	Medium BiPin (G13)	40	22.5	23661 F40T12/SP30/U6/CVG	10	14000	2230	2030	3000	73	⚡	11,13	103	
				23662 F40T12/SP35/U6/CVG	10	14000	2230	2030	3500	73	⚡	11,13	103	
				23664 F40T12/SP41/U6/CVG	10	14000	2230	2030	4100	73	⚡	11,13	103	



Bulb Base	Nominal Length Order	Watts in.	Description	Case Qty.	Rated Life	Initial Lumens	Mean Temp. K	Color CRI	Foot- notes	Warning and Cautions	Additional Information
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>											
<b>COVARGUARD® SHATTER PROTECTED (CONTINUED)</b>											
<b>T12 PREHEAT</b>											
T12 Medium BiPin (G13)	15 18	41114	F15T12/CW/CVG	24	9000	735 660	4100 60		11,13	103	Preheat
	20 24	46377	F20T12/C50/CVG	24	9000	845 765	5000 90	☞	11,13	103	Preheat, Chroma 50
		40125	F20T12/CW/CVG	24	9000	1160 1110	4100 60		11,13	103	Preheat
		41000	F20T12/CW/CVG/UPC	24	9000	1160 1110	4100 60		11,13	103	Preheat, UPC
		46622	F20T12/KB/CVG/UPC	24	9000	1230 1160	3000 70	☞	11,13	103	Preheat, Kitchen and Bath, UPC
		46218	F20T12/SP35/CVG	24	9000	1230 1160	3500 73	☞	11,13	103	Preheat
		41116	F20T12/SP35/CVG	24	9000	1260 1180	3500 82	☞	11,13	103	Preheat
	25 33	41120	F25T12/WW/33/CVG	24	7500	1850 1660	3000 52		11,13	103	Preheat, Warm White
<b>T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT</b>											
T12 R17d	35 24	48090	F24T12/CW/HO/CVG	24	9000	1570 1300	4100 60		11,12,13	103	
	60 48	40129	F48T12/CW/HO/CVG	24	12000	3930 3410	4100 60		11,12,13	103	
		41146	F48T12/SPX35/HO/CVG	24	12000	4220 3800	3500 82	☞	11,12,13	103	
		41969	F48T12/D/HO/CVG	24	12000	3290 2870	6500 75	☞	11,12,13	103	Daylight
	75 60	41148	F60T12/CW/HO/CVG	15	12000	4990 4340	4150 62		11,12,13	103	
	85 72	40811	F72T12/CW/HO/CVG	15	12000	6150 5350	4100 60		11,12,13	103	
		46207	F72T12/SP35/HO/CVG	15	12000	6450 5810	3500 73	☞	11,12,13	103	
		41152	F72T12/SPX30/HO/CVG	15	12000	6590 5930	3000 82	☞	11,12,13	103	
		41154	F72T12/SPX35/HO/CVG	15	12000	6590 5930	3500 82	☞	11,12,13	103	
		48094	F72T12/N/HO/CVG	10	12000	4170 3500	3700 90	☞	11,12,13	103	Natural
	100 84	41156	F84T12/CW/HO/CVG	15	12000	7460 6490	4100 60		11,12,13	103	
	110 96	40808	F96T12/CW/HO/CVG	15	12000	8630 7500	4100 60		11,12,13	103	
		46210	F96T12/SP35/HO/CVG	15	12000	8920 8030	3500 73	☞	11,12,13	103	
		45264	F96T12/SP65/HO/CVG	15	12000	8630 7760	6500 75	☞	11,12,13	103	
		41160	F96T12/SPX30/HO/CVG	15	12000	9070 8160	3000 82	☞	11,12,13	103	
		41161	F96T12/SPX35/HO/CVG	15	12000	9070 8160	3500 82	☞	11,12,13	103	
		41162	F96T12/SPX41/HO/CVG	15	12000	9070 8160	4100 80	☞	11,12,13	103	
		46424	F96T12/D/HO/CVG	15	12000	7370 6410	6500 75	☞	11,12,13	103	Daylight
		46430	F96T12/DX/HO/CVG	15	12000	6400 5440	6500 84	☞	11,12,13	103	Daylight Deluxe
<b>T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT ~ WATT-MISER® ENERGY SAVING LAMPS</b>											
T12 R17d	95 96	40116	F96T12/CW/HO/WM/CVG	15	12000	7760 6750	4100 60		1,11,12,13	103	
		40118	F96T12/SP35/HO/WM/CVG	15	12000	8090 7290	3500 73	☞	1,11,12,13	103	
		40123	F96T12/SP41/HO/WM/CVG	15	12000	8090 7290	4100 72	☞	1,11,12,13	103	
		16821	F96T12/CW/HO/WM/ECO/CVG	15	12000	7760 6285	4100 60		1,11,12,13	103	
<b>COLD TEMPERATURE</b>											
<b>T5</b>											
T5 Miniature BiPin (G5)	54 45.2	81521	F54T5/835	36	30000	4500 4275	3500 86	☞	11,13,17	101	Plastic jacket
		81522	F54T5/841	36	30000	4500 4275	4100 86	☞	11,13,17	101	Plastic jacket
<b>T8</b>											
T8 Medium BiPin (G13)	18 24	31147	F18WT8/835	12	20000	1215 1152	3500 86	☞	11,13,17	101	Plastic jacket
		31148	F18WT8/841	12	20000	1215 1152	4100 86	☞	11,13,17	101	Plastic jacket
	36 48	25763	F36WT8/835	30	20000	3015 2860	3500 86	☞	11,13,17	101	Plastic jacket
		25764	F36WT8/841	30	20000	3015 2860	4100 86	☞	11,13,17	101	Plastic jacket
	58 60	16148	F58WT8/835	24	20000	4680 4450	3500 86	☞	11,13,17	101	Plastic jacket
		23752	F58WT8/841	24	20000	4680 4450	4100 86	☞	11,13,17	101	Plastic jacket
	70 72	16149	F70WT8/835	18	20000	5670 5386	3500 86	☞	11,13,17	101	Plastic jacket
		23754	F70WT8/841	18	20000	5670 5386	4100 86	☞	11,13,17	101	Plastic jacket



# Fluorescent Lamps

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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Color Temp.			Foot-notes	Warning and Cautions	Additional Information
							Initial	Mean	K CRI			
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>												
<b>COLD TEMPERATURE (CONTINUED)</b>												
<b>INSTANT START</b>												
T12 Single Pin (Fa8)	75	96	47350	F96T12/CW-CT	15	12000	5960	5490	4100	60	11,13,17	101 Plastic jacket
<b>HIGH OUTPUT (800mA) RECESSED DOUBLE CONTACT</b>												
T12 R17d	35	24	48097	F24T12/CW/HO-CT	12	9000	1570	1300	4100	60	11,13,17	101 Plastic jacket
	60	48	48530	F48T12/SP35/HO-AT	12	12000	4120	3710	3500	73	11,13,17	101 Plastic jacket w/ vent holes
			47352	F48T12/SPX30/HO-CT	24	12000	4210	3800	3000	82	11,13,17	101 Plastic jacket
			45976	F48T12/CW/HO-AT	12	12000	3710	3220	4100	60	11,13,17	101 Plastic jacket w/ vent holes
	75	60	47353	F60T12/CW/HO-CT	12	12000	4990	4340	4100	60	11,13,17	101 Plastic jacket
	85	72	47346	F72T12/SP35/HO-CT	8	12000	6450	5810	3500	73	11,13,17	101 Plastic jacket
			46201	F72T12/SP41/HO-CT	8	12000	6450	5810	4100	72	11,13,17	101 Plastic jacket
			48095	F72T12/SPX35/HO-CT	8	12000	6590	5930	3500	82	11,13,17	101 Plastic jacket
			46199	F72T12/CW/HO-AT	8	12000	6150	5350	4100	60	11,13,17	101 Plastic jacket w/ vent holes
	110	96	45979	F96T12/SP35/HO-CT	8	12000	8920	8030	3500	73	11,13,17	101 Plastic jacket
			48096	F96T12/SPX35/HO-CT	8	12000	9060	8160	3500	82	11,13,17	101 Plastic jacket
			45912	F96T12/CW/HO-AT	8	12000	8630	7500	4100	60	11,13,17	101 Plastic jacket w/ vent holes
			11918	F96T12/CW/HO/CT	15	12000	8900	7740	4100	60	11,13,17	101 Plastic jacket
			11919	F96T12/D/HO/CT	15	12000	7600	6610	6500	75	11,13,17	101 Plastic jacket
<b>T10 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT</b>												
T10 R17d	110	48	10742	F48T10/CW	24	9000	6200		4100	60	4	101
			46196	F48T10/CW/VHO-CT	12	9000	6010		4100	60	13, 17	101 Plastic jacket
	135	60	17135	F60T10/SP30	24	6000	8500		3000	70	4	101
			39157	F60T10/CW	24	6000	7000		4100	60	4	101
			13002	F60T10/CW 6PK	6	6000	7000		4100	60	4	101
			46197	F60T10/CW/VHO-CT	12	6000	6790		4100	60	13, 17	101 Plastic jacket
	160	72	13776	F72T10/CW 15PK	15	9000	9700		4100	60	4	101
			46198	F72T10/CW/VHO-CT	8	9000	9400		4100	60	13, 17	101 Plastic jacket
<b>T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT</b>												
T12 R17d	110	48	34206	F48T12/CW/1500/0	24	10000	7000		4100	60	4	101
			46195	F48T12/CW/VHO-CT	12	10000	6790		4100	60	15, 17	101 Plastic jacket
	170	72	13762	F72T12/CW/1500/0	15	10000	10800		4100	60	4	101
			46200	F72T12/CW/VHO-CT	8	10000	10470		4100	60	15, 17	101 Plastic jacket
	220	96	13788	F96T12/CW/1500/0	15	10000	14400		4100	60	4	101
			46202	F96T12/CW/VHO-CT	8	10000	13960		4100	60	15, 17	101 Plastic jacket
<b>DIAZO REPROGRAPHIC 1500mA (SUPERBLUE)</b>												
<b>T12</b>												
T12 Medium BiPin (G13)	120	54	40092	F54" T12/SPB	24	2000					2	101
	125	59	39683	F59" T12/SPB	24	2000					2	101
<b>T17</b>												
T17 Mogul BiPin (G20)	180	54	26390	F54" T17/SPB	12	2000					2	101
<b>APPLIANCE</b>												
<b>T8</b>												
T8 Medium BiPin (G13)	18	22	10257	F22" T8/D/4	24	7500	925	790	6500	75		101 Daylight
			17705	F24" T8/CW/4 6PK	24	7500	1225	1040	4100	60		101
	19	26	10702	F26" T8/CW/4	24	7500	1275	1085	4100	60		101
			38199	F26" T8/CW/4 6PK	24	7500	1275	1085	4100	60		101
			17704	F28" T8/CW/4 6PK	24	7500	1350	1145	4100	60		101
	30		10349	F30" T8/CW/4	24	7500	1375	1170	4100	60		101



Bulb Base	Nominal Length Order	Watts in.	Description	Case Qty.	Rated Life	Lumens Initial	Temp. Mean	Color K CRI	Foot-notes	Warning and Cautions	Additional Information
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>											
<b>APPLIANCE (CONTINUED)</b>											
<b>T12</b>											
T12	Medium BiPin (G13)	21 30	10355 F30™T12/CW	24	7500	1350	1220	4100 60		101	
		25 28	10282 F25T12CW/28 6PK	24	7500	1550	1390	4100 60		101	
			10286 F25T12/D/28	24	7500	1450	1310	6500 75	☞	101	Daylight
		33	38201 F25T12/CW/33 6PK	24	7500	1860	1675	4100 60		101	
			10299 F25T12/D/33	24	7500	1600	1440	6500 75	☞	101	Daylight
			10293 F25T12/WW/33	24	7500	1910	1720	3000 52		101	Warm White
<b>BLACKLIGHT/BLACKLIGHT BLUE</b>											
<b>BLACKLIGHT</b>											
T8	Medium BiPin (G13)	15 18	35884 F15T8/BL 6PK	24	7500				8	105	Blacklight, UVA Source
T12	Medium BiPin (G13)	20 24	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
		48	10526 F40BL 6PK	24	20000				8	105	Blacklight, UVA Source
<b>BLACKLIGHT BLUE</b>											
T5	Miniature BiPin (G5)	4 6	10019 F4T5/BLB	24	5000				8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		8 12	10077 F8T5/BLB	24	5000				8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T8	Medium BiPin (G13)	15 18	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 BiPin (G13)	20 24	34747 F20T12/BLB 6PK	24	9000				8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		40 48	10531 F40BLB 6PK	24	20000				8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
<b>COLORED LAMPS</b>											
<b>T8</b>											
T8	Medium BiPin (G13)	32 48	15992 F32T8/R/24/ECO/CVG	36	20000					103	Sleeved Rosco Red 24
			15993 F32T8/B/65/ECO/CVG	36	20000					103	Sleeved Rosco Blue 65
			15994 F32T8/G/89/ECO/CVG	36	20000					103	Sleeved Rosco Green 89
<b>T12</b>											
T12	Medium BiPin (G13)	40 48	10514 F40/B 6 PK	24	20000	1200	720			101	Phosphor Blue
			10517 F40/G 6 PK	24	20000	4000	2000			101	Phosphor Green
			81003 F40T12/R24/ECO/CVG	30	20000					103	Sleeved Rosco Red 24
			81001 F40T12/B65/ECO/CVG	30	20000					103	Sleeved Rosco Blue 65
			81002 F40T12/G89/ECO/CVG	30	20000					103	Sleeved Rosco Green 89
<b>PREHEAT</b>											
T12	Medium BiPin (G13)	20 24	48259 F20T12/R/24/CVG	24	9000					103	Sleeved Rosco Red 24
			48260 F20T12/B/65/CVG	24	9000					103	Sleeved Rosco Blue 65
			48261 F20T12/G/89/CVG	24	9000					103	Sleeved Rosco Green 89
			10231 F20T12/B 6PK	24	9000	450	330			101	Phosphor Blue
			10233 F20T12/G 6PK	24	9000	1575	975			101	Phosphor Green
<b>GOLD</b>											
<b>T5 LAMPS</b>											
T5	Miniature BiPin (G5)	28 45.2	25768 F28T5/GO/CVG	40	20000	1986	1946	GoldN/A		103	



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Bulb Base	Nominal Length Order	Watts	in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot-notes	Warning and Cautions		Additional Information
								Initial	Mean	Final	K	CRI		Notes	Caution	
<b>GOLD (CONTINUED)</b>																
<b>T8 LAMPS</b>																
T8	Medium BiPin (G13)	17	24	25779	F17T8/GO/CVG	24	20000	970	950		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
		15	36	25783	F25T8/GO/CVG	24	20000	1590	1558		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
		32	48	25784	F32T8/GO/CVG	36	20000	2280	2235		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
		36	48	81334	F36T8/GO/CVG	25	20000	2600	2545		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
		58	60	80053	F58T8/GO/CVG	25	20000	4080	4000		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
		59	96	25810	F96T8/GO/CVG	24	20000	4492	4400		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
<b>T12 LAMPS</b>																
T12	Medium BiPin (G13)	40	48	25850	F40/GO/CVG	30	20000	2510	2460		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
	Single Pin (Fa8)	55	72	25854	F72T12/GO/CVG	15	12000	4150	4070		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
		75	96	25852	F96T12/GO/CVG	15	12000	5640	5530		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
	R17d	110	96	25853	F96T12/GO/HO/CVG	15	12000	8010	7850		Gold/N/A		103	Gold Sleeved, Blocks UV and Deep Blue Emissions		
<b>GROCERY DISPLAY LAMPS</b>																
T12	Medium BiPin (G13)	40	48	81000	F40T12/FL/ECO/CVG	30	20000	1925	1450	2750						CovRFresh®
<b>GERMICIDAL</b>																
T5	Miniature BiPin (G5)	4	6	15872	G4T5	24	6000					9, 16	106	Clear, UVC Source		
		6	8	15873	G6T5	24	6000					9, 16	106	Clear, UVC Source		
		8	12	11077	G8T5	24	6000					9, 16	106	Clear, UVC Source		
		11	11.9	29495	G11T5	24	8000					9, 16	106	Clear, UVC Source		
		16	8.91	16495	G16T5	24	8000					9, 16	106	Clear, UVC Source		
	Single Pin (Fa8)	39	36	15874	G36T5	24	9000					9, 16	106	Clear, UVC Source		
		65	64	15864	G64T5	24	9000					9, 16	106	Clear, UVC Source		
<b>GERMICIDAL (CONTINUED)</b>																
T8	Medium BiPin (G13)	10	13.6	29498	G10T8	24	6000					9, 16	106	Clear, UVC Source		
		15	18	11078	G15T8	24	8000					9, 16	106	Clear, UVC Source		
		25	18	11082	G25T8	24	8000					9, 16	106	Clear, UVC Source		
		30	36	11080	G30T8	24	8000					9, 16	106	Clear, UVC Source		
		36	48	29499	G36T5	24	8000					9, 16	106	Clear, UVC Source		
		55	36	15875	G55T8/HO	24	8000					9, 16	106	Clear, UVC Source		
T10	Medium BiPin (G13)	20	24	15876	G20T10	24	8000					9, 16	106	Clear, UVC Source		
		40	48	29532	G40T10	24	8000					9, 16	106	Clear, UVC Source		
<b>PLANT AND AQUARIUM/TERRARIUM</b>																
<b>T8 LAMPS</b>																
<b>15" T8 LAMPS</b>																
T8	Medium BiPin (G13)	14	15	41373	F14T8/AR/FR 6PK	24	7500	360	4000	92			104	Aquarium Lamp Freshwater		
				40903	F14T8/AR/FS/6PK	24	7500	550	9325	64			104	Aquarium Lamp Fresh and Saltwater		
				41375	F14T8/AR/SA 6PK	24	7500	190	1000062				104	Aquarium Lamp Saltwater		
				41377	F14T8/SR 6PK	24	7500	565	5000	90			104	Aquarium/Terrarium Lamp		
<b>18" T8 LAMPS</b>																
T8	Medium BiPin (G13)	15	18	22907	F15T8/AR/FR 6PK	24	7500	425	4000	92			104	Aquarium Lamp Freshwater		
				22910	F15T8/AR/FS 6PK	24	7500	675	9325	64			104	Aquarium Lamp Fresh and Saltwater		

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# Fluorescent Lamps

Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot-notes	Warning and Cautions	Additional Information	
							Initial	Mean	Final	K	CRI				
<b>PLANT AND AQUARIUM/TERRARIUM (CONTINUED)</b>															
<b>T8 LAMPS (CONTINUED)</b>															
<b>18" T8 LAMPS (CONTINUED)</b>															
T8	Medium BiPin (G13)	15	18	22920	F15T8/AR/SA 6PK	24	7500	210	1000	62		104	Aquarium Lamp	Saltwater	
				49892	F15T8/PL/AQ 6PK	24	7500	510	3100	90	☞	104	Plant & Aquarium Wide Spectrum		
				22904	F15T8/SR 6PK	24	7500	620	5000	90	☞	104	Aquarium/Terrarium Lamp		
<b>36" T8 LAMPS</b>															
T8	Medium BiPin (G13)	30	36	41374	F30T8/AR/FR 6PK	24	9000	630	4000	92	☞	104	Aquarium Lamp	Freshwater	
				40904	F30T8/AR/FS 6PK	24	9000	1400	9235	64		104	Aquarium Lamp	Fresh and Saltwater	
				41376	F30T8/AR/SA 6PK	24	9000	315	10000	62		104	Aquarium Lamp	Saltwater	
<b>T12 LAMPS</b>															
<b>24" T12 LAMPS</b>															
T12	Medium BiPin (G13)	20	24	22908	F20T12/AR/FR 6PK	24	9000	600	4000	92	☞	104	Aquarium Lamp	Freshwater	
				22911	F20T12/AR/FS 6PK	24	9000	950	9325	64		104	Aquarium Lamp	Fresh and Saltwater	
				22922	F20T12/AR/SA 6PK	24	9000	270	1000	62		104	Aquarium Lamp	Saltwater	
				49891	F20T12/PL/AQ 6PK	24	9000	750	3100	90	☞	104	Plant & Aquarium Wide Spectrum		
				22905	F20T12/SR 6PK	24	9000	875	5000	90	☞	104	Aquarium/Terrarium Lamp		
<b>36" T12 LAMPS</b>															
T12	Medium BiPin (G13)	30	36	41378	F30T12/SR 6PK	24	18000	1100	5000	90	☞	104	Aquarium/Terrarium Lamp		
<b>48" T12 LAMPS</b>															
T12	Medium BiPin (G13)	40	48	22909	F40T12/AR/FR 6PK	24	9000	1425	4000	92	☞	104	Aquarium Lamp	Freshwater	
				22914	F40T12/AR/FS 6PK	24	9000	2350	9325	64		104	Aquarium Lamp	Fresh and Saltwater	
				22923	F40T12/AR/SA 6PK	24	9000	700	1000	62		104	Aquarium Lamp	Saltwater	
				49893	F40PL/AQ 6PK	24	20000	1900	3100	90	☞	104	Plant & Aquarium Wide Spectrum		
				22906	F40T12/SR 6PK	24	20000	2250	5000	90	☞	104	Aquarium/Terrarium Lamp		
<b>EXPORT OUTSIDE U.S. AND CANADA ONLY</b>															
T12	Medium BiPin (G13)	40	22.5	14496	F40CW/U/6/EX	12	14000	2800	2460	4100	60		102	6" Spacing Between Legs	
				14498	F40D/U/6/EX	12	14000	2350	2070	6500	75	☞	102	Daylight, 6" Spacing Between Legs	
		40	48	14656	F40CW/EX-30PK	30	20000	3050	2680	4100	60		101		
				14488	F40D/EX	30	20000	2550	2240	6500	75	☞	101	Daylight	
		Single Pin (Fa8)	75	96	12541	F96T12CW/EX-15PK	15	12000	6150	5660	4100	60		101	
					12543	F96T12/D/EX-15PK	15	12000	5250	4330	6500	75	☞	101	Daylight
R17d	110	96	12540	F96T12CW/HO/EX	15	12000	8900	7740	4100	60		101			
			12542	F96T12D/HO/EX-15	15	12000	7600	6610	6500	75	☞	101	Daylight		
<b>CONSUMER PRODUCTS</b>															
<b>T8</b>															
<b>4' T8</b>															
T8	Medium BiPin (G13)	32	48	15900	F32T8/SP30/ECO/UPC	36	20000	2800	2660	3000	78	☞ ☞	101		
				15903	F32T8/SP35/ECO/UPC	36	20000	2800	2660	3500	78	☞ ☞	101		
				11873	F32T8/SP35/ECO 12PK	12	20000	2800	2660	3500	78	☞ ☞	101		
				15909	F32T8/SP41/ECO/UPC	36	20000	2800	2660	4100	78	☞ ☞	101		
				15904	F32T8/SP41/ECO/C	12	20000	2800	2660	4100	78	☞ ☞	101		
				16263	F32T8/RESI/ECO/2PK	6	15000	2650	2385	4100	78	☞ ☞	101		
				31231	F32T8/RES/ECO/2PK	24	15000	2650	2385	4100	78	☞ ☞	101		
				49356	F32T8/KB/ECO/2PK	6	20000	2800	2660	3000	78	☞ ☞	104	Kitchen & Bath	
				49357	F32T8/KB/ECO/2PK-24	24	20000	2800	2660	3000	78	☞ ☞	104	Kitchen & Bath	
				29566	F32T8/D/ECO/2PK	24	20000	2700	2565	6500	78	☞ ☞	101	Daylight	
				87783	F32T8/D/ECO/TW	6	20000	2700	2565	6500	78	☞ ☞	101	Daylight	

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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Color				Foot-notes	Warning and Cautions	Additional Information		
							Initial Lumens	Mean Temp. K	CRI	Temp. K					
<b>CONSUMER PRODUCTS (CONTINUED)</b>															
<b>T8</b>															
<b>8' T8</b>															
T8	Single Pin (Fa8)	59	96	10401	F96T8/SP41/UPC	24	15000	5800	5500	4100	78	Ⓢ	101		
<b>T12</b>															
<b>4' F40 ECOLUX® STANDARD</b>															
T12	Medium BiPin (G13)	40	48	23382	F40SP41/ECO/C	10	20000	3200	2910	4100	72	Ⓢ	101		
				25400	F40SP65/ECO/UPC	30	20000	3050	2775	6500	75	Ⓢ	101		
				25399	F40/C50/ECO/UPC	30	20000	2250	1870	5000	90	Ⓢ	101	Chroma 50	
				16083	F40D/ULTRA/ECO/2PK	9	20000	3050	2775	6500	75	Ⓢ	101	Daylight Ultra	
				13969	F40D/ULTRA/ECO/6PK	24	20000	3050	2775	6500	75	Ⓢ	101	Daylight Ultra	
				40333	F40/KB/ECO 2PK	9	20000	3400	3090	3000	70	Ⓢ	104	Kitchen & Bath	
				21323	F40/KB/ECO 6PK	24	20000	3400	3090	3000	70	Ⓢ	104	Kitchen & Bath	
				12224	F40/SUN/ECO/6PK	24	20000	2250	1870	5000	90	Ⓢ	101	Sunlight	
				10949	F40/RES/ECO/LL/2PK	9	20000	3200	2910	4100	72	Ⓢ	101		
				14440	F40/RES/ECO/SLV	30	15000	3150	2860	4100	72	Ⓢ	101		
				14433	F40/RES/ECO/SLV 6PK	24	15000	3150	2860	4100	72	Ⓢ	101		
				14441	F40/RES/ECO/TWIN-9PK	9	15000	3150	2860	4100	72	Ⓢ	101		
				48510	F40/RES/ECO/TWIN-15PK	15	15000	3150	2860	4100	72	Ⓢ	101		
<b>4' ECOLUX® UTILITY SHOPLIGHT</b>															
T12	Medium BiPin (G13)	25	48	14445	F48"/25W/UTECOUPC	30	12000	1860	1675	4100	60		10	101	
				14450	F48"/25W/UTECOSLV	30	12000	1860	1675	4100	60		10	101	
				14456	F48"/25W/UTECOTWNN	9	12000	1860	1675	4100	60		10	101	
				48511	F48"/25W/UTECO2PK	15	12000	1860	1675	4100	60		10	101	
<b>4' F34 ECOLUX® WATT-MISER® ENERGY SAVING LAMPS</b>															
T12	Medium BiPin (G13)	34	48	25401	F34/SP30/RS/WM/ECO/UPC	30	20000	2750	2475	3000	70	Ⓢ	1	101	
				23486	F34/SP35/WM/ECO/C	10	20000	2750	2475	3500	73	Ⓢ	1	101	
				21858	F34/SP35/RS/WM/ECO/UPC	24	20000	2750	2475	3500	73	Ⓢ	1	101	
				40372	F34/SP41/RS/WM/ECO	24	20000	2750	2475	4100	72	Ⓢ	1	101	
				25397	F34/SP41/RS/WM/ECO/UPC	30	20000	2750	2475	4100	72	Ⓢ	1	101	
				25391	F34/CW/RS/WM/ECO/UPC	30	20000	2650	2280	4100	60	Ⓢ	1	101	
				23485	F34/CW/RS/WM/ECO/C 10PK	10	20000	2650	2280	4100	60	Ⓢ	1	101	
				25398	F34/WW/RS/WM/ECO/UPC	30	20000	2700	2320	3000	52	Ⓢ	1	101	Warm White
<b>MOD-U-LINE® WATT-MISER® U-TUBES</b>															
T12	Medium BiPin (G13)	35	22.5	14471	F35/CW/U/6/WM/UPC	12	14000	2300	2100	4100	60	Ⓢ	1	102	
				23383	F35/CW/U/6/WM/C	6	14000	2300	2100	4100	60	Ⓢ	1	102	
<b>MOD-U-LINE® STANDARD U-TUBES</b>															
T12	Medium BiPin (G13)	40	22.5	22050	F40/SP35/U/6/UPC	12	14000	3050	2780	3500	73	Ⓢ		102	
				25374	F40/SCW/U/6/UPC 6PK	6	14000	2800	2460	4100	75	Ⓢ		102	Super Cool White
<b>T12 INSTANT START</b>															
<b>4' T12</b>															
T12	Single Pin (Fa8)	40	48	20461	F48T12/CW/UPC 6PK	24	9000	2875	2650	4100	60			101	
<b>8' T12</b>															
T12	Single Pin (Fa8)	75	96	10149	F96T12/SP41/UPC	15	12000	6500	6110	4100	72	Ⓢ		101	

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						Initial	Mean	Temp. K	CRI	Temp. K			
<b>CONSUMER PRODUCTS (CONTINUED)</b>													
<b>T12 (CONTINUED)</b>													
<b>8' T12 WATT-MISER® ENERGY SAVING LAMPS</b>													
T12 Single Pin (Fa8)	60	96	21856 F96T12/SP35/WM/UPC	15	12000	5700	5360	3500	73	⊕ ⚡	1	101	
			11217 F96T12/SP35/WM/C 10PK	10	12000	5700	5360	3500	73	⊕ ⚡	1	101	
			25395 F96T12/SP41/WM/UPC	15	12000	5700	5360	4100	72	⊕ ⚡	1	101	
			21713 F96T12/CW/WM/UPC 10PK	10	12000	5500	5060	4100	60	⊕ ⚡	1	101	
			25171 F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60	⊕ ⚡	1	101	
<b>8' T12 ECOLUX® WATT-MISER® ENERGY SAVING LAMPS</b>													
T12 Single Pin (Fa8)	60	96	16816 F96T12/CW/WM/ECO	15	12000	5500	5060	4100	60	⊕ ⚡	1	101	
<b>T12 RAPID START</b>													
T12 Medium BiPin (G13)	30	36	39176 F30T12/CW/RS 6PK	24	18000	2200	1910	4100	60			101	
			77119 F30T12/RS/KB/PM	24	18000	2350	2120	3000	70	⚡		104	Kitchen & Bath
<b>T12 HIGH OUTPUT RAPID START RECESSED DOUBLE CONTACT</b>													
T12 R17d	60	48	27313 F48T12/CW/HO/UPC	24	12000	4050	3520	4100	60			101	
	95	96	21714 F96T12/CW/HO/WM/UPC	15	12000	8000	6960	4100	60	⊕ ⚡	1	101	
<b>PREHEAT</b>													
<b>T5</b>													
T5 Miniature BiPin (G5)	4	6	15983 F4T5/CW CARD	10	5000	135	100	4100	60			101	Preheat
	6	9	15986 F6T5/CW CARD	10	5000	295	235	4100	60			101	Preheat
	8	12	15987 F8T5/CW CARD	10	5000	400	320	4100	60			101	Preheat
			25425 F8T5/WW/CARD	5	5000	410	330	3000	52			101	Preheat, Warm White
	13	21	25426 F13T5/WW/CARD	5	5000	870	720	3000	52			101	Preheat, Warm White
<b>T8</b>													
T8 Medium BiPin (G13)	15	18	13968 F15T8/SUN 6PK	24	7500	620	525	5000	90	⚡		101	Preheat, Sunlight
	30	36	22747 F30T8/KB 6PK	24	7500	2125	1910	3000	70	⚡		104	Preheat, Kitchen & Bath
	15	18	46982 F15T12/KB-TP	24	9000	785	730	3000	70	⚡		104	Preheat, Kitchen & Bath
			46981 F15T8/KB-TP	24	7500	940	850	3000	70	⚡		104	Preheat, Kitchen & Bath
			21326 F15T8/KB/6PK	24	7500	940	850	3000	70	⚡		104	Preheat, Kitchen & Bath
			10143 F15T8/CW/6PK	24	7500	825	725	4100	60	⚡		101	Preheat
			46980 F15T8/SUN-TP	24	7500	620	525	5000	90	⚡		101	Preheat, Sunlight
<b>T12</b>													
T12 Medium BiPin (G13)	14	15	10117 F14T12/CW 6PK	24	9000	650	550	4100	60			101	Preheat
			22979 F14T12/KB 6PK	24	9000	700	650	3000	70	⚡		104	Preheat, Kitchen & Bath
	15	18	10183 F15T12/CW 6PK	24	9000	760	685	4100	60			104	Preheat, Kitchen & Bath
			22745 F15T12/KB 6PK	24	9000	785	730	3000	70			104	Preheat, Kitchen & Bath
	20	24	80046 F20T12/CW/ECO/6PK	24	9000	1200	1150	4100	60			101	Preheat
			25575 F20T12/D/ECO/UPC	24	9000	1025	945	6500	75	⚡		101	Preheat, Daylight
			21325 F20T12/KB/ECO/6PK	24	9000	1275	1200	3000	70	⚡		104	Preheat, Kitchen & Bath
			14419 F20T12/SUN/ECO/6PK	24	9000	875	790	5000	90	⚡		101	Preheat, Sunlight
			25577 F20T12/WW/ECO/UPC	24	9000	1250	1150	3000	52			101	Preheat, Warm White
			10231 F20T12/B 6PK	24	9000	450	330					101	Preheat
			10233 F20T12/G 6PK	24	9000	1575	957					101	Preheat
			46914 F20T12/KB/ECO-TP	24	9000	1275	1200	3000	70	⚡		104	Preheat, Kitchen & Bath
			46826 F20T12/SUN/ECO-TP	24	9000	875	790	5000	90	⚡		101	Preheat, Sunlight
	30	36	46917 F30T12/KB/ECO-TP	24	18000	2350	2120	3000	70	⚡		104	Preheat, Kitchen & Bath

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Bulb Base	Nominal Length Order	Watts in.	Code	Description	Case Qty.	Rated Life	Lumens			Color Temp.		Foot-notes	Warning and Cautions		Additional Information
							Initial	Mean	Final	K	CRI		Notes	Additional Information	
<b>CONSUMER PRODUCTS (CONTINUED)</b>															
<b>BLACKLIGHT</b>															
T8 Medium BiPin (G13)	15	18	35884	F15T8/BL 6PK	24	7500						8	105	Blacklight, UVA Source	
T12	20	24	10244	F20T12/BL 6PK	24	9000						8	105	Blacklight, UVA Source	
	40	48	10526	F40BL 6PK	24	20000						8	105	Blacklight, UVA Source	
<b>BLACKLIGHT BLUE</b>															
T8 Medium BiPin (G13)	15	18	35885	F15T8/BLB 6PK	24	7500							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
T12 Medium BiPin (G13)	20	24	34747	F20T12/BLB 6PK	24	9000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
T9 4 Pin (G10q)	22	8.25	25665	FC8T9/BLB	6	12000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
T12 Medium BiPin (G13)	40	48	10531	F40BLB 6PK	24	20000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
<b>T9 CIRCLINE®</b>															
T9 4 Pin (G10q)	20	6.5	42732	FC6T9/CW	12	12000	800	560	4100	60			101		
	22	8.25	33774	FC8T9/CW	12	12000	1100	825	4100	60			101		
			11026	FC8T9/D	12	12000	925	690	6500	75	☞		101	Daylight	
			11084	FC8T9/KB	6	12000	1400	1120	3000	82	☞		104	Kitchen & Bath	
	32	12	33890	FC12T9/CW	12	12000	1950	1460	4100	60			101		
			11039	FC12T9/D	12	12000	1675	1260	6500	75	☞		101	Daylight	
			11085	FC12T9/KB	6	12000	2400	1920	3000	82	☞		104	Kitchen & Bath	
	40	16	33893	FC16T9/CW	12	12000	2700	2030	4100	60			101		
			11052	FC16T9/D	12	12000	2250	1690	6500	75	☞		101	Daylight	
<b>COVERGUARD® SHATTER RESISTANT</b>															
<b>T8 PREHEAT</b>															
T8 Medium BiPin (G13)	15	18	46627	F15T8/KB/CVG/UPC	24	7500	910	825	3000	70	☞	11, 13	104	Kitchen & Bath	
<b>T12 RAPID START</b>															
T12 Medium BiPin (G13)	25	48	46625	F48"/25W/UTSL/CVG/UPC	30	12000	1800	1620	4100	60		11, 13	103		
	40	48	80995	F40/KB/ECO/CVG/UPC	24	20000	3290	2990	3000	82	☞	11, 13	108	Kitchen & Bath	
			80999	F40/CW/ECO/CVG/UPC	30	20000	2930	2370	4100	60		11, 13	103		
<b>T12 RAPID START WATT-MISER®</b>															
T12 Medium BiPin (G13)	34	48	80997	F34/CW/WM/ECO/CVG/UPC	30	20000	2570	2210	4100	60	⚡	1, 11, 13	103		
<b>T12 PREHEAT</b>															
T12 Medium BiPin (G13)	20	24	80984	F20T12/CW/ECO/CVG/UPC	24	9000	1160	1110	4100	60		11, 13	103		
			80985	F20T12/KB/ECO/CVG/UPC	24	9000	1230	1160	3000	70	☞	11, 13	108	Kitchen & Bath	
<b>T12 INSTANT START</b>															
T12 Single Pin (Fa8)	60	96	41002	F96T12/CW/WM/CVG/UPC	15	12000	5330	4910	4100	60	⚡	1, 11, 13	103	Watt-Miser®	
<b>PLANT AND AQUARIUM / TERRARIUM</b>															
T8 Medium BiPin (G13)	14	15	41373	F14T8/AR/FR 6PK	24	7500	360	4000	92		☞		104	Aquarium Lamp Freshwater	
			40903	F14T8/AR/FS/6PK	24	7500	550	9325	64				104	Aquarium Lamp Fresh and Saltwater	
			41375	F14T8/AR/SA 6PK	24	7500	190	1000062					104	Aquarium Lamp Saltwater	
			41377	F14T8/SR 6PK	24	7500	565	5000	90		☞		104	Aquarium/Terrarium Lamp	
	15	18	22907	F15T8/AR/FR 6PK	24	7500	425	4000	92		☞		104	Aquarium Lamp Freshwater	
			22910	F15T8/AR/FS 6PK	24	7500	675	9325	64				104	Aquarium Lamp Fresh and Saltwater	
			22920	F15T8/AR/SA 6PK	24	7500	210	1000062					104	Aquarium Lamp Saltwater	
			49892	F15T8/PL/AQ 6PK	24	7500	510	3100	90		☞		104	Plant & Aquarium Wide Spectrum	
			22904	F15T8/SR 6PK	24	7500	620	5000	90		☞		104	Aquarium/Terrarium Lamp	



Bulb Base	Nominal Length Order	Watts in.	Code Description	Case Qty.	Rated Life		Lumens Initial Mean	Color Temp.		Foot- notes	Warning and Cautions Additional Information	
					3hr/ Start	12hr/ Start		K	CRI			
<b>CONSUMER PRODUCTS (CONTINUED)</b>												
<b>PLANT AND AQUARIUM / TERRARIUM (CONTINUED)</b>												
T12	Medium BiPin (G13)	20	24	<b>22908 F20T12/AR/FR 6PK</b>	24	9000	600	4000	92	☞	104	Aquarium Lamp Freshwater
				<b>22911 F20T12/AR/FS 6PK</b>	24	9000	950	9325	64		104	Aquarium Lamp Fresh and Saltwater
				<b>22922 F20T12/AR/SA 6PK</b>	24	9000	270	10000	62		104	Aquarium Lamp Saltwater
				<b>49891 F20T12/PL/AQ 6PK</b>	24	9000	750	3100	90	☞	104	Plant & Aquarium Wide Spectrum
				<b>22905 F20T12/SR 6PK</b>	24	9000	875	5000	90	☞	104	Aquarium/Terrarium Lamp
T8	Medium BiPin (G13)	30	36	<b>41374 F30T8/AR/FR 6PK</b>	24	9000	630	4000	92	☞	104	Aquarium Lamp Freshwater
				<b>40904 F30T8/AR/FS 6PK</b>	24	9000	1400	9235	64		104	Aquarium Lamp Fresh and Saltwater
				<b>41376 F30T8/AR/SA 6PK</b>	24	9000	315	10000	62		104	Aquarium Lamp Saltwater
T12	Medium BiPin (G13)	30	36	<b>41378 F30T12/SR 6PK</b>	24	18000	1100	5000	90	☞	104	Plant & Aquarium Wide Spectrum
		40	48	<b>22909 F40T12/AR/FR 6PK</b>	24	9000	1425	4000	92	☞	104	Aquarium Lamp Freshwater
				<b>22914 F40T12/AR/FS 6PK</b>	24	9000	2350	9325	64		104	Aquarium Lamp Fresh and Saltwater
				<b>22923 F40T12/AR/SA 6PK</b>	24	9000	700	10000	62		104	Aquarium Lamp Saltwater
				<b>49893 F40PL/AQ 6PK</b>	24	20000	1900	3100	90	☞	104	Plant & Aquarium Wide Spectrum
				<b>22906 F40T12/SR 6PK</b>	24	20000	2250	5000	90	☞	104	Aquarium/Terrarium Lamp

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## 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.

**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. 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 3 hours per start.



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## 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. The watts shown for self ballasted lamps are nominal system watts.

### RATED LIFE

The rated life (hours) is the approximate median life when lamps are operated for three hours per start under laboratory conditions using ballasts which meet industry standards or GE Lighting specifications where no industry standards exist. Rated life for self-ballasted lamps is the approximate median life when operated for three hours per start under laboratory conditions. Some lamps are rated at 12 hours per start where noted.

## FOOTNOTES

### # Footnote

- 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. 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 F28/UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart programmed rapid start ballasts.
- Reprographic Peak Emission 417nm. 2000 hours useful life; burning hours longer.
- F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.
- Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.
- 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).
- Performance data based on engineering estimates.
- CAUTION: Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.
- 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.
- Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
- Lumen rating based on approximate 3% reduction in light output with CovRguard® sleeving.
- Do not use CovRguard® HO lamps in watertight or airtight fixtures.
- Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
- Life rating is based on 12 hrs. per start.
- Lumen rating based on approximate 3% reduction in light output with jacket.
- Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
- Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).
- 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.
- T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)

### Performance Notes:

#### T8 Lamps:

- Rated life for F32T8, F32T8/XL or SXL, and F32T8/HL/XL lamps is rated life on **rapid start and instant start** circuits. See product section for lamp specific ratings.
- Rated life for F32T8/WM and F32T8/WM/XL and the F28T8/UMX lamps is rated life on **instant start** circuits.
- Rated life for F17T8 and F25T8 (including XL versions), as well as, 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.

### 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	F17 and F25T8	S/P Ratio	SP50	1.9
865	2.2	SPX30	1.3	SP65	2.1
F28T8	S/P Ratio	SPX35	1.5	F32T8 and F32T8/HL	S/P Ratio
SP30	1.3	SPX41	1.8	SPX30	1.3
SP35	1.5	SPX50	2.0	SPX35	1.5
SP41	1.8	SPX65	2.3	SPX41	1.8
SP50	2.0			SPX50	2.0
				SPX65	2.3



## 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



## FLUORESCENT LAMP CROSS REFERENCE

GE Description	Osram Sylvania Description	Philips Description
<b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b>		
<b>APPLIANCE</b>		
F24T8/CW/4	F18T8/CW/K/24	F18T8/CW/24
F26T8/CW/4 (19W)	F18T8/CW/K/26	F16T8/CW/26 (16W)
F28T8/CW/4 (19W)	F18T8/CW/K/28	F17T8/CW/28 (17W)
F30T8/CW/4	F18T8/CW/K/30	F18T8/CW/30 (18W)
F25T12/CW/33	F25T12/CW/33	—
<b>ECOLUX® T8 SP</b>		
	<b>OCTRON®</b>	<b>TL70</b>
F17T8/SP30/ECO	F017/730/ECO	F17T8/TL730/ALTO
F17T8/SP35/ECO	F017/735/ECO	F17T8/TL735/ALTO
F17T8/SP41/ECO	F017/741/ECO	F17T8/TL741/ALTO
F25T8/SP30/ECO	F025/730/ECO	F25T8/TL730/ALTO
F25T8/SP35/ECO	F025/735/ECO	F25T8/TL735/ALTO
F25T8/SP41/ECO	F025/741/ECO	F25T8/TL741/ALTO
F32T8/SP30/ECO	F032/730/ECO	F32T8/TL730/ALTO
F32T8/SP35/ECO	F032/735/ECO	F32T8/TL735/ALTO
F32T8/SP41/ECO	F032/741/ECO	F32T8/TL741/ALTO
F32T8/SP50/ECO	F032/750/ECO	F32T8/TL750/ALTO
F32T8/SP65/ECO	F032/765/ECO	—
<b>ECOLUX® T8 SPX</b>		
	<b>OCTRON®</b>	<b>TL80</b>
F17T8/SPX30/ECO	F017/830/ECO	F17T8/TL830/ALTO
F17T8/SPX35/ECO	F017/835/ECO	F17T8/TL835/ALTO
F17T8/SPX41/ECO	F017/841/ECO	F17T8/TL841/ALTO
F25T8/SPX30/ECO	F025/830/ECO	F25T8/TL830/ALTO
F25T8/SPX35/ECO	F025/835/ECO	F25T8/TL835/ALTO
F25T8/SPX41/ECO	F025/841/ECO	F25T8/TL841/ALTO
F32T8/SPX30/ECO	F032/830/ECO	F32T8/TL830/ALTO
F32T8/SPX35/ECO	F032/835/ECO	F32T8/TL835/ALTO
F32T8/SPX41/ECO	F032/841/ECO	F32T8/TL841/ALTO
F32T8/SPX50/ECO	F032/850/ECO	F32T8/TL850/ALTO
<b>ECO EXTRA-LIFE T8 SP</b>		
F17T8/XL/SP30/ECO	F017/730/XP/ECO	—
F17T8/XL/SP35/ECO	F017/735/XP/ECO	—
F17T8/XL/SP41/ECO	F017/741/XP/ECO	—
F25T8/XL/SP30/ECO	F025/730/XP/ECO	—
F25T8/XL/SP35/ECO	F025/735/XP/ECO	—
F25T8/XL/SP41/ECO	F025/741/XP/ECO	—
F32T8/XL/SP30/ECO	F032/730/XP/ECO	F32T8/TL730 PLUS/ALTO
F32T8/XL/SP35/ECO	F032/735/XP/ECO	F32T8/TL735 PLUS/ALTO
F32T8/XL/SP41/ECO	F032/741/XP/ECO	F32T8/TL741 PLUS/ALTO

GE Description	Osram Sylvania Description	Philips Description
<b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b>		
<b>ECO EXTRA-LIFE T8 SPX XP/ECO PLUS/ALTO</b>		
F17T8/XL/SPX30/ECO	F017/830/XP/ECO	F17T8/TL830/PLUS/ALTO
F17T8/XL/SPX35/ECO	F017/835/XP/ECO	F17T8/TL835/PLUS/ALTO
F17T8/XL/SPX41/ECO	F017/841/XP/ECO	F17T8/TL841/PLUS/ALTO
F17T8/XL/SPX50/ECO	F017/850/XP/ECO	F17T8/TL850/PLUS/ALTO
F17T8/XL/SPX65/ECO	F017/865/XP/ECO	F17T8/TL865/PLUS/ALTO
F25T8/XL/SPX30/ECO	F025/830/XP/ECO	F25T8/TL830/PLUS/ALTO
F25T8/XL/SPX35/ECO	F025/835/XP/ECO	F25T8/TL835/PLUS/ALTO
F25T8/XL/SPX41/ECO	F025/841/XP/ECO	F25T8/TL841/PLUS/ALTO
F25T8/XL/SPX50/ECO	F025/850/XP/ECO	F25T8/TL850/PLUS/ALTO
F25T8/XL/SPX65/ECO	F025/865/XP/ECO	F25T8/TL865/PLUS/ALTO
F32T8/XL/SPX30/ECO	F032/830/XP/ECO	F32T8/TL830 PLUS/ALTO
F32T8/XL/SPX35/ECO	F032/841/XP/ECO	F32T8/TL835 PLUS/ALTO
F32T8/XL/SPX41/ECO	F032/835/XP/ECO	F32T8/TL841 PLUS/ALTO
F32T8/XL/SPX50/ECO	F032/850/XP/ECO	F32T8/TL850 PLUS/ALTO
F32T8/XL/SPX65/ECO	F032/865/XP/ECO	F32T8/TL865 PLUS/ALTO
<b>4' T8 HIGH LUMEN (HL)</b>		
F32T8/XL/SPX30/HL/ECO	F032/830/XPS/ALTO	F32T8/ADV830/ALTO
F32T8/XL/SPX35/HL/ECO	F032/835/XPS/ALTO	F32T8/ADV835/ALTO
F32T8/XL/SPX41/HL/ECO	F032/841/XPS/ALTO	F32T8/ADV841/ALTO
F32T8/XL/SPX50/HL/ECO	F032/850/XPS/ALTO	F32T8/ADV850/ALTO
<b>4' T8 WATT-MISER®</b>		
F32T8/SP30/IS/WM/ECO	F032/730/SS/ECO	—
F32T8/SP35/IS/WM/ECO	F032/735/SS/ECO	—
F32T8/SP41/IS/WM/ECO	F032/741/SS/ECO	—
F32T8/SP50/IS/WM/ECO	F032/750/SS/ECO	—
<b>4' T8 WATT-MISER® EXTRA-LIFE</b>		
F32T8/XL/SP30/WM/ECO	—	F32T8/ADV830/EW/LL/ALTO
F32T8/XL/SP35/WM/ECO	—	F32T8/ADV835/EW/LL/ALTO
F32T8/XL/SP41/WM/ECO	—	F32T8/ADV841/EW/LL/ALTO
F32T8/XL/SP50/WM/ECO	—	F32T8/ADV850/EW/LL/ALTO
<b>4' T8 ULTRAMAX™ 28W</b>		
F28T8/SP30/UMX/ECO	F028/830/XP/SS/ECO	—
F28T8/SP30/UMX/ECO	F028/835/XP/SS/ECO	—
F28T8/SP30/UMX/ECO	F028/841/XP/SS/ECO	—
<b>4' T8 VERY LONG LIFE (SXL)</b>		
F32T8/SXL/SP30/ECO	F032/830/XPS/ECO	F32T8/TL830 PLUS/ALTO
F32T8/SXL/SP35/ECO	F032/835/XPS/ECO	F32T8/TL830 PLUS/ALTO
F32T8/SXL/SP41/ECO	F032/841/XPS/ECO	F32T8/TL830 PLUS/ALTO
<b>4' T12 WATT-MISER® F40</b>		
F34/CW/RS/WM/ECO	F34CW/SS/ECO	F34CW/RS/EW/ALTO
F34WW/RS/WM/ECO	F34WW/SS/ECO	F34WW/RS/EW/ALTO
F34/SP30/RS/WM/ECO	F34/D30/SS/ECO	F34/SPEC30/RS/EW/ALTO
F34/SP35/RS/WM/ECO	F34/D35/SS/ECO	F34/SPEC35/RS/EW/ALTO
F34/SP41/RS/WM/ECO	F34/D41/SS/ECO	F34/SPEC41/RS/EW/ALTO
F34/SP50/RS/WM/ECO	—	—
F34/SP65/RS/WM/ECO	—	—

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GE Description	Osram Sylvania Description	Philips Description
<b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b>		
<b>4' T12 WATT-MISER® F40 SPX</b>		
F34/SPX30/RS/WM/ECO	F34/D830/SS/ECO	F34/30U/RS/EW/ALTO
F34/SPX35/RS/WM/ECO	F34/D835/SS/ECO	F34/35U/RS/EW/ALTO
F34/SPX41/RS/WM/ECO	F34/D841/SS/ECO	F34/41U/RS/EW/ALTO
<b>8' T12 WATT-MISER® (WM)</b>		
F96T12/SP30/WM/ECO	F96T12/D30/SS/ECO	F96T12/SPEC30/EW/ALTO
F96T12/SP35/WM/ECO	F96T12/D35/SS/ECO	F96T12/SPEC35/EW/ALTO
F96T12/SP41/WM/ECO	F96T12/D41/SS/ECO	F96T12/SPEC41/EW/ALTO
F96T12/SP65/WM/ECO	F96T12/D65/SS (not ECO)	—
F96T12/SPX30/WM/ECO	F96T12/D830/SS/ECO	F96T12/30U/EW/ALTO
F96T12/SPX35/WM/ECO	F96T12/D835/SS/ECO	F96T12/35U/EW/ALTO
F96T12/SPX41/WM/ECO	F96T12/D841/SS/ECO	F96T12/41U/EW/ALTO
F96T12/SP30/ECO	F96T12/D30/ECO	F96T12/SPEC30/ALTO
F96T12/SP35/ECO	F96T12/D35/ECO	F96T12/SPEC35/ALTO
F96T12/SP41/ECO	F96T12/D41/ECO	F96T12/SPEC41/ALTO
F96T12/SPX30/ECO	F96T12/D830/ECO	F96T12/SPEC30U/ALTO
F96T12/SPX35/ECO	F96T12/D835/ECO	F96T12/SPEC35U/ALTO
F96T12/SPX41/ECO	F96T12/D841/ECO	F96T12/SPEC41U/ALTO
<b>8' T12 HIGH OUTPUT (WM)</b>		
F96T12/CW/HO/WM/ECO	F96T12/CW/HO/SS/ECO	F96T12/CW/HO/EW/ALTO
<b>T5 AND T5/HO</b>		
F14W/T5/830/ECO	FP14/830/ECO	F14T5/830/ALTO
F14W/T5/835/ECO	FP14/835/ECO	F14T5/835/ALTO
F14W/T5/841/ECO	FP14/841/ECO	F14T5/841/ALTO
F14W/T5/850/ECO	—	—
F14W/T5/865/ECO	—	—
F21W/T5/830/ECO	FP21/830/ECO	F21T5/830/ALTO
F21W/T5/835/ECO	FP21/835/ECO	F21T5/835/ALTO
F21W/T5/841/ECO	FP21/841/ECO	F21T5/841/ALTO
F21W/T5/850/ECO	—	—
F21W/T5/865/ECO	—	—
F28W/T5/830/ECO	FP28/830/ECO	F28T5/830/ALTO
F28W/T5/835/ECO	FP28/835/ECO	F28T5/835/ALTO
F28W/T5/841/ECO	FP28/841/ECO	F28T5/841/ALTO
F28W/T5/850/ECO	—	—
F28W/T5/865/ECO	FP28/865/ECO	—
F35W/T5/830/ECO	FP35/830/ECO	F35T5/830
F35W/T5/835/ECO	FP35/835/ECO	F35T5/835
F35W/T5/841/ECO	FP35/841/ECO	F35T5/841
F35W/T5/850/ECO	—	—
F35W/T5/865/ECO	—	—
F24W/T5/830/ECO	FP24/830/HO/ECO	F24T5/830/HO/ALTO
F24W/T5/835/ECO	FP24/835/HO/ECO	F24T5/835/HO/ALTO
F24W/T5/841/ECO	FP24/841/HO/ECO	F24T5/841/HO/ALTO
F24W/T5/850/ECO	—	—

GE Description	Osram Sylvania Description	Philips Description
<b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b>		
<b>T5 AND T5/HO (CONTINUED)</b>		
F24W/T5/865/ECO	—	—
F39W/T5/830/ECO	FP39/830/HO/ECO	F39T5/830/HO/ALTO
F39W/T5/835/ECO	FP39/835/HO/ECO	F39T5/835/HO/ALTO
F39W/T5/841/ECO	FP39/841/HO/ECO	F39T5/841/HO/ALTO
F39W/T5/850/ECO	—	—
F39W/T5/865/ECO	—	—
F54W/T5/830/ECO	FP54/830/HO/ECO	F54T5/830/HO/ALTO
F54W/T5/835/ECO	FP54/835/HO/ECO	F54T5/835/HO/ALTO
F54W/T5/841/ECO	FP54/841/HO/ECO	F54T5/841/HO/ALTO
F54W/T5/850/ECO	FP54/850/HO/ECO	F54T5/850/HO/ALTO
F54W/T5/865/ECO	FP54/865/HO/ECO	F54T5/865/HO/ALTO
F49W/T5/830/ECO	—	—
F49W/T5/835/ECO	—	—
F49W/T5/841/ECO	—	—
F49W/T5/850/ECO	—	—
F49W/T5/865/ECO	—	—
F80W/T5/830/ECO	FP80/830/HO	F80T5/830/HO
F80W/T5/835/ECO	FP80/835/HO	F80T5/835/HO
F80W/T5/841/ECO	FP80/841/HO	F80T5/841/HO
F80W/T5/850/ECO	—	—
F80W/T5/865/ECO	—	—
<b>OTHER RAPID START</b>		
F96PG17/CW/WM	—	—
F34CW/U/6/WM/ECO	FB34/CW/6/SS/ECO	FB34/CW/6/EW/ALTO
F40CW/U/3	—	—
F40CW/U/6	FB40CW/6	—
F48T12/CW/1500	F48T12/CW/VHO	F48T12/CW/VHO
F48PG17/CW	—	—
F72T12/CW/1500	F72T12/CW/VHO	F72T12/CW/VHO
F72PG17/CW	—	—
F96T12/CW/1500	F96T12/CW/VHO	F96T12/CW/VHO
F96PG17/CW	—	—
F48T12/CW/1500/0	F48T12/CW/VHO/LT	F48T12/CW/VHO-0
F48T12/CW/VHO/0	—	—
F60T10/CW	F60T12/CW/VHO/LT	F60T12/CW/VHO-0
F72T12/CW/1500/0	F72T12/CW/VHO/LT	F72T12/CW/VHO-0
F96T12/CW/1500/0	F96T12/CW/VHO/LT	F96T12/CW/VHO-0
F48T10J/CW	FJ48T12/CW/VHO/LT	FJ48T12/CW/VHO-0
F60T10J/CW	—	FJ60T12/CW/VHO-0
F72T10J/CW	FJ72T12/CW/VHO/LT	FJ72T12/CW/VHO-0
F96T10J/CW	FJ96T12/CW/VHO/LT	FJ96T12/CW/VHO-0

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## GE ULTRAMAX® INSTANT START BALLASTS

### GE REVOLUTIONIZES LIGHTING AGAIN WITH BREAKTHROUGH TECHNOLOGY

In the GE labs, our engineers have developed a breed of ballasts to make lighting systems that save more energy, are more adaptable, and deliver optimal lamp performance. The innovative, patented technology in our new UltraMax® electronic ballasts exceeds expectations, and is like nothing else available.

### MULTI-VOLTAGE TECHNOLOGY MEANS A SINGLE ULTRAMAX® MODEL HANDLES VOLTAGE FROM 120 THROUGH 277

UltraMax® Ballasts can virtually “read” the incoming voltage and adapt automatically to any voltage from 108V to 305V. The benefits of Multi-Voltage Control (MVC) are obvious:

- Fewer models handle more jobs, eliminating inventory hassles.
- MVC simplifies installation and eliminates guesswork at the job site.
- MVC compensates for incoming voltage fluctuations or variations from unreliable power.

### THE ULTRAMAX® IS THE ONLY FULL LINE OF T8 BALLASTS WITH A UL TYPE CC ANTI-ARC RATING

UL Type CC Rating is a stringent designation of protection against arcing in electrical devices. GE's Arc-Guard design eliminates the damaging effects arcing can have on lamps, ballasts and sockets.

### HIGH EFFICIENCY DELIVERS OVER 40% ENERGY SAVINGS

Ballasts are the new frontier of energy efficiency. Systems combining UltraMax® electronic ballasts and T8/WM lamps can deliver over 40% energy savings over standard electromagnetically ballasted T12 systems. Since energy costs are typically 80% of the overall cost of light, a more efficient system can pay for itself in a very short time and provide an excellent return on investment.

### ULTRAMAX® IS ULTRA LAMP FRIENDLY

With an industry low lamp current crest factor (LCCF) of <1.5, UltraMax® ensures optimal lamp operation and maximum lamp life, which can save on lamp and maintenance costs.

### ACTIVE CURRENT REGULATION (ACR) TECHNOLOGY IS A PATENTED ADVANTAGE

The UltraMax® ballast's patented ACR modular design means individual inverter modules regulate the output current to each lamp. So, unlike conventional ballasts, if one lamp fails, the remaining lamps are not forced to operate at a higher current. This ensures optimal lamp performance.

### ANTI-STRIATION CONTROL FOR BETTER LIGHT QUALITY, WITH NO STRIATIONS

The UltraMax® is the only line of T8 ballasts with Anti-Striation Control. This advanced technology eliminates the maintenance issues caused by striating lamps, often referred to as spiraling or swirling. This provides a flicker- and worry-free environment.

### COMPARE THE ENERGY USE OF A THREE LAMP FIXTURE

Technology	Watts
Standard T12/WM System	117
Standard Electronic T8 System	87
UltraMax™ L System With GE F28T8	65

### FULLY PARALLEL INDEPENDENT LAMP OPERATION MAKES SYSTEM EASIER TO MAINTAIN

If one lamp fails, all the others in the system stay lit. That means system maintenance is easier to manage.

### ULTRAMAX® IS ULTRA-COOL

The UltraMax® ballast's high efficiency design results in ultra-cool operation that can provide additional AC energy savings, especially during peak demand periods.

### A BIG IDEA IN A SMALL PACKAGE

The UltraMax® ballast housing is smaller, lower-profile and lightweight. That can be a big help in retrofits. It also means future fixture designs can be more compact and streamlined.

### EVERY UNIT IS TESTED AND PROVEN BEFORE IT'S SHIPPED

GE does 100% burn-in on every UltraMax™ ballast using our extreme open/short test, which simulates undesirable and harsh-use situations, so you are assured of a system you can rely on right out of the box.

### GE SIX SIGMA QUALITY BACKED BY A FULL 5-YEAR LIMITED WARRANTY

The UltraMax® balast is designed by GE's expert engineers and custom-manufactured to our exacting Six Sigma specifications, all backed by a full 5-year warranty. When used with GE T8 Lamps you also get our Total Performance System Warranty which can cover lamps up to 3 years depending on your annual usage. Contact your GE Representative for more details.

### A FULL FAMILY OF HIGH EFFICIENCY MULTI-VOLTAGE BALLASTS FOR ALL T8 APPLICATIONS



**The Low watt option** for Max energy savings. With a ballast factor of .77, the L line is the most energy efficient choice. It provides adequate illumination for most applications. For 1, 2, 3, and 4 T8 lamps in 2', 3', and 4' lengths.



**The Normal light option** balances efficiency and illumination. The most-used type of ballast, the N line saves energy without sacrificing lumens. A ballast factor of .87 meets most application needs. For 1, 2, 3, and 4 T8 lamps in 2', 3', 4', and 8' lengths.



**The choice for High light output.** With a ballast factor of 1.15, UltraMax® H delivers the most lumens for maximum light or when you want more savings using fewer lamps. This is the first high-efficiency high-light output line for 2, 3 and 4 T8 lamps.

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Ballasts

## ULTRASTART® PROGRAMMED START BALLASTS

### FEATURES AND BENEFITS

#### Longer Lamp Life in Frequently Switched Applications

- UltraStart® extends lamp life by 18% to greater than 200% versus instant start ballasts in frequently switched applications, saving you money in maintenance costs and replacement lamps.
- Program Start ballasts are required in any applications using sensors or where extended lamp life is a primary concern. Operation of instant start ballast systems in frequently-switched applications in conjunction with automated controls (such as, but not limited to, occupancy sensor) will void lamp warranties.

#### Same Energy Savings as High-Efficiency Instant Start Ballasts

- GE UltraStart® ballasts operate at an industry high 90%+ efficiency. Traditional PS ballasts typically operate between 79-86%.

#### Simplify Installation with Multi-Voltage Technology

- The UltraStart® T5 and UltraStart® T8 XL and H ballasts incorporate Multi-Voltage technology. UltraStart® can virtually “read” the incoming voltage and adapt automatically to any voltage from 108V to 305V. Fewer models handle more jobs with Multi-Voltage technology, and it eliminates guess work at the job site. Multi-Voltage BallastsControl (MVC) also compensates for incoming voltage fluctuations or variations from unreliable power.

#### Lower Maintenance Costs with Parallel Mode Operation

- Most PS ballasts operate in series mode, meaning if one bulb goes out, they all go out. GE UltraStart® T8 ballasts operate in parallel mode, meaning if one bulb goes out, others stay on.

#### Fast Starting Time

- GE UltraStart® T8 ballasts start in visually the same time as instant start ballasts (less than 0.7 seconds)—a significant improvement versus

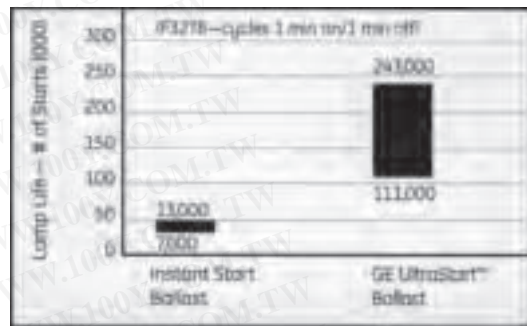
traditional PS ballasts. An important feature when using sensors and the annoying delay of waiting for the lights to turn on with traditional PS ballasts.

#### Complies with (RoHS) Restrictions of Hazardous Materials Standards.

### GE LAMP LIFE RANGE—INSTANT START VS. PROGRAMMED START\*\*

GE lamp life studies have shown that lamp life is up to 20 times longer in rapid cycle testing. Lamp life tests have demonstrated 111,000 to 243,000 starts on F32T8 lamps with GE UltraStart® ballasts as opposed to only 7,000 to 13,000 starts with standard instant start ballasts. UltraStart® maximizes lamp life in frequently switched applications and where lamp life is a primary concern. GE UltraStart® ballasts and lamps provide guaranteed performance with the GE Total System Limited Warranty.

\*\*GE 2004-2005 lamp testing @ industry standard B50 rapid cycle testing.



Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
<b>ULTRAMAX® INSTANT START MULTI-VOLTAGE HIGH EFFICIENCY</b>							
49706	GE132MAX-L/ULTRA	1- F32T8 120 to 277 "L" .77BF	Instant Start	Low	Parallel	Standard	10
49771	GE132MAX-N/ULTRA	1- F32T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
23939	GE132MAX-N-IP	1- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
49775	GE232MAX-H/ULTRA	2 or 1- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
47548	GE232MAX-H-42T	2 or 1- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
49707	GE232MAX-L/ULTRA	2 or 1- F32T8 120 to 277 "L" .77 BF	Instant Start	Low	Parallel	Standard	10
47546	GE232MAX-L-42T	2 or 1- F32T8 120 to 277 "L" .77 BF Pallet Pack	Instant Start	Low	Parallel	Pallet Pack	420
49772	GE232MAX-N/ULTRA	2 or 1- F32T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
31052	GE232MAX-N-42T	2 or 1- F32T8 120 to 277 "N" .87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
23940	GE232MAX-N-IP	2 or 1- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
49776	GE332MAX-H/ULTRA	3 or 2- F32T8 120 to 277	Instant Start	High	Parallel	Standard	10
47549	GE332MAX-H-42T	3 or 2- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
49708	GE332MAX-L/ULTRA	3 or 2- F32T8 120 to 277 "L" .77 BF	Instant Start	Low	Parallel	Standard	10
31055	GE332MAX-L-42T	3 or 2- F32T8 120 to 277 "L" .77 BF Pallet Pack	Instant Start	Low	Parallel	Pallet Pack	420
49773	GE332MAX-N/ULTRA	3 or 2- F32T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
31053	GE332MAX-N-42T	3 or 2- F32T8 120 to 277 "N" .87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
23941	GE332MAX-N-IP	3 or 2- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
49777	GE432MAX-H/ULTRA	4 or 3- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
47550	GE432MAX-H-42T	4 or 3- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
49709	GE432MAX-L/ULTRA	4 or 3- F32T8 120 to 277 "L" .77 BF	Instant Start	Low	Parallel	Standard	10
47547	GE432MAX-L-42T	4 or 3- F32T8 120 to 277 "L" .77 BF Pallet Pack	Instant Start	Low	Parallel	Pallet Pack	420
49774	GE432MAX-N/ULTRA	4 or 3- F32T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
31054	GE432MAX-N-42T	4 or 3- F32T8 120 to 277 "N" .87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
23942	GE432MAX-N-IP	4 or 3- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4



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Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
<b>ULTRAMAX™ INSTANT START MULTI-VOLTAGE HIGH EFFICIENCY (CONTINUED)</b>							
49766	GE159MAX-N/ULTRA	1- F96T8 120 to 277	Instant Start	Normal	Parallel	Standard	10
49767	GE259MAX-N/ULTRA	2 or 1- F96T8 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
23954	GE259MAX-N-IP	2 or 1- F96T8 120 to 277 "N" .87 BF I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
<b>ULTRASTART™ T8 PROGRAM START</b>							
29621	GE-232-120-PS-N	2 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29630	GE-232-120PS-N-T	2 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29622	GE-232-277-PS-N	2 F32T8 277V Normal Light .87 BF<10% THD	Programmed Start	Normal	Parallel	Standard	10
29632	GE-232-277PS-N-T	2 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29675	GE-232-MVPS-H	2 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Standard	10
29651	GE-232-MV-PS-H-T	2 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Pallet Pack	420
29671	GE-232-MVPS-XL	2 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD	Programmed Start	Ultra Low	Parallel	Standard	10
29665	GE-232-MVPS-XL-T	2 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD	Programmed Start	Ultra Low	Parallel	Pallet Pack	420
29623	GE-332-120-PS-N	3 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29633	GE-332-120PS-N-T	3 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29624	GE-332-277-PS-N	3 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29634	GE-332-277PS-N-T	3 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29676	GE-332-MVPS-H	3 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Standard	10
29656	GE-332-MV-PS-H-T	3 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Pallet Pack	420
29672	GE-332-MVPS-XL	3 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD	Programmed Start	Ultra Low	Parallel	Standard	10
29666	GE-332-MVPS-XL-T	3 F32T8 120V-277V Extra Low Watt .60 BF<10% THD	Programmed Start	Ultra Low	Parallel	Pallet Pack	420
29625	GE-432-120-PS-N	4 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29635	GE-432-120PS-N-T	4 F32T8 120V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29627	GE-432-277-PS-N	4 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Standard	10
29650	GE-432-277PS-N-T	4 F32T8 277V Normal Light .87 BF<10% THD UltraStart	Programmed Start	Normal	Parallel	Pallet Pack	420
29678	GE-432-MVPS-H	4 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Standard	8
29657	GE-432-MV-PS-H-T	4 F32T8 120V-277V High Light 1.15 BF<10% THD UltraStart	Programmed Start	High	Parallel	Pallet Pack	420
<b>RAPID START T12 HIGH OUTPUT</b>							
80162	B295SR120HP	2- F96T12HOES RS 120	Rapid Start	Normal	Series	Standard	6
80163	B295SR277HP	2- F96T12HOES RS 277	Rapid Start	Normal	Series	Standard	6
<b>ULTRASTART® T5 PROGRAM START</b>							
29726	GE454MVPSN1	4 or 2- F54T5HO 120 to 277 UltraStart PRS	Programmed Start	Normal	Series-Parallel	Standard	12
29717	GE454MVPSN1-B	4 or 2- F54T5HO 120 to 277 UltraStart PRS Pallet Pack	Programmed Start	Normal	Series-Parallel	Pallet Pack	420

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Ballasts

Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
<b>T5 PROGRAMMED START MULTI-VOLT 120V - 277V</b>							
47534	B224PUNV-C0G1C	2- F24T5HO PRS UNV 50/60 Hz	Programmed Start	Normal	Series	Standard	10
47536	B228PUNV-C0G1C	2- F28T5 PRS UNV 50/60 Hz	Programmed Start	Normal	Series	Standard	10
47540	B239PUNV-D0G1C	2- F39T5HO PRS UNV 50/60 Hz	Programmed Start	Normal	Series	Standard	10
47542	B254PUNV-DGE1C	2- F54T5HO PRS UNV 50/60 Hz	Programmed Start	Normal	Series	Standard	10
<b>PROLINE™ T8 INSTANT START</b>							
23680	GE-132-120-N	1 F32T8 120V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24161	GE-132-120-N-84T	1 F32T8 120V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23681	GE-132-277-N	1 F32T8 277V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24162	GE-132-277-N-84T	1 F32T8 277V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23671	GE-232-120-N	2 or 1- F32T8 120V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24163	GE-232-120-N-84T	2 or 1- F32T8 120V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23672	GE-232-277-N	2 or 1- F32T8 277V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24164	GE-232-277-N-84T	2 or 1- F32T8 277V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23673	GE-332-120-N	3 or 2- F32T8 120V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24165	GE-332-120-N-84T	3 or 2- F32T8 120V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23674	GE-332-277-N	3 or 2- F32T8 277V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24166	GE-332-277-N-84T	3 or 2- F32T8 277V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23675	GE-432-120-N	4 or 3- F32T8 120V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24167	GE-432-120-N-84T	4 or 3- F32T8 120V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23676	GE-432-277-N	4 or 3- F32T8 277V "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24168	GE-432-277-N-84T	4 or 3- F32T8 277V "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23677	GE-259-120-N	2 or 1 F96T8 120v Normal Light .87 BF<10%THD	Instant Start	Normal	Parallel	Standard	10
24169	GE-259-120-N-84T	2 or 1- F96T8 120v "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
23678	GE-259-277-N	2 or 1- F96T8 277v "N".87 BF	Instant Start	Normal	Parallel	Standard	10
24170	GE-259-277-N-84T	2 or 1- F96T8 277v "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	840
<b>MULTI-VOLT PROLINE™ T8 INSTANT START 120-277V</b>							
30189	GE-132-MV-N	1- F32T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30268	GE-132-MV-N-42T	1- F32T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30198	GE-232-MV-H2 or	1- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
30275	GE-232-MV-H-42T	2 or 1- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
30247	GE-232-MV-L	2 or 1- F32T8 120 to 277 "L".77 BF	Instant Start	Low	Parallel	Standard	10
30191	GE-232-MV-N	2 or 1- F32T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30269	GE-232-MV-N-42T	2 or 1- F32T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30199	GE-332-MV-H	3 or 2- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
30296	GE-332-MV-H-42T	3 or 2- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
30255	GE-332-MV-L	3 or 2- F32T8 120 to 277	Instant Start	Low	Parallel	Standard	10
30309	GE-332-MV-L-42T	3 or 2- F32T8 120 to 277	Instant Start	Low	Parallel	Standard	420
30192	GE-332-MV-N	3 or 2- F32T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30270	GE-332-MV-N-42T	3 or 2- F32T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30219	GE-432-MV-H	4 or 3- F32T8 120 to 277 "H" 1.15 BF	Instant Start	High	Parallel	Standard	10
30303	GE-432-MV-H-42T	4 or 3- F32T8 120 to 277 "H" 1.15 BF Pallet Pack	Instant Start	High	Parallel	Pallet Pack	420
30262	GE-432-MV-L	4 or 3- F32T8 120 to 277	Instant Start	Low	Parallel	Standard	10
30310	GE-432-MV-L-42T	4 or 3- F32T8 120 to 277	Instant Start	Low	Parallel	Pallet Pack	420
30193	GE-432-MV-N	4 or 3- F32T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30271	GE-432-MV-N-42T	4 or 3- F32T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30195	GE-159-MV-N	1- F96T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30274	GE-159-MV-N-42T	1- F96T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420
30194	GE-259-MV-N	2 or 1- F96T8 120 to 277 "N".87 BF	Instant Start	Normal	Parallel	Standard	10
30272	GE-259-MV-N-42T	2 or 1- F96T8 120 to 277 "N".87 BF Pallet Pack	Instant Start	Normal	Parallel	Pallet Pack	420



Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
<b>MULTI-VOLT PROLINE™ T8 INSTANT START 120-277V (CONTINUED)</b>							
30176	GE-286-HO-MV-N	2 or 1- F96T8HO IS 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Standard	10
30187	GE-286-HO-MV-N-P	2 or 1- F96T8HO IS 120 to 277 "N" .87 BF	Instant Start	Normal	Parallel	Pallet Pack	420
<b>MULTI-VOLT PROLINE™ T12 ELECTRONIC T12 120-277V</b>							
24107	GE-240-RS-MV-N	2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF	Rapid Start	Normal	Parallel	Standard	10
24773	GE-240RS-MV-N-DIY	2 or 1- F40 or F34T12 RS 120 to 277 I-Pack 4/carton	Rapid Start	Normal	Parallel	DIY	4
24109	GE-340-RS-MV-N	3 or 2- F40 or F34T12 Rapid Start 120 to 277	Rapid Start	Normal	Parallel	Standard	10
24774	GE-340RS-MV-N-DIY	3 or 2- F40 or F34T12 RS 120 to 277 I-Pack 4/carton	Rapid Start	Normal	Parallel	DIY	4
24776	GE-260IS-MV-N-DIY	2 or 1- F96T12 IS 120 to 277; I-Pack 4/carton	Instant Start	Normal	Parallel	DIY	4
24108	GE-260-IS-MV-N	2 or 1- F96T12 Instant Start 120 to 277	—	High	Parallel	Standard	6
<b>OTHER INSTANT START</b>							
80148	B259I120RHH	2 F96T8 IS 120 60 HBEX	Instant Start	High	Parallel	Standard	6
80149	B259I277RHH	2 F96T8 IS 277 60 HBCX	Instant Start	High	Parallel	Standard	6
80136	B332I347HP	3- F32T8 IS 347 60Hz <10% THD "N" BF	Instant Start	Normal	Parallel	Standard	10
80277	B332I347HPL	3- F32T8 IS 347 <10% THD "L" BF	Instant Start	Low	Parallel	Standard	10
<b>T8 DIMMING</b>							
80353	B132R120V5	1- F32T8 DIM 100 to 5% RS 120	Rapid Start	Normal	Series	Standard	10
80355	B232SR120V5	2- F32T8 DIM 100 to 5% RS 120	Rapid Start	Normal	Series	Standard	10
80362	B232SR277S50	2- F32T8 Switch 100 / 50% RS 277	Rapid Start	Normal	Series	Standard	10
80356	B232SR277V5	2- F32T8 DIM 100 to 5% RS 277	Rapid Start	Normal	Series	Standard	10
80357	B332SR120V5	3- F32T8 DIM 100 to 5% RS 120	Rapid Start	Normal	Series	Standard	10
80358	B332SR277V5	3- F32T8 DIM 100 to 5% RS 277	Rapid Start	Normal	Series	Standard	10
<b>MAGNETIC T12, T8, CIRCLELINE® BALLASTS</b>							
89711	GEM120-PH-120-DIY	1- F20T12 F15T8 F1512 120V Magnetic Ballast(200H2)	Preheat	Normal	Series	DIY	10
89712	GEM120-TC-120-DIY	1- F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (546BTCP)	Trigger Start	Normal	Series	DIY	4
89714	GEM140-HRS-120-DIY	1- F40T12 F40T12 120V Magnetic Ballast (412LSLHTCP)	Rapid Start	Normal	Series	DIY	4
89709	GEM140-RS-120-DIY	1- F40T12 F30T12 F48/25W 120V Magnetic Ballast (413CTCP)	Rapid Start	Normal	Series	DIY	4
86158	GEM140-RS-277-IP	2- F40T12, F40T10, 120V, Magnetic Ballast, (446LSLHTCP)	Rapid Start	Normal	Series	Individual Pack	10
89719	GEM196-IS-120-DIY	1- F96T12 120V Magnetic Ballast (822BRTCP)	Instant Start	Normal	Series	DIY	4
86372	GEM196-IS-120-IP	1- F96T12 IS 120 Magnetic Ballast (822BRTCP)	Instant Start	Normal	Series	Individual Pack	6
86381	GEM196-IS-277	1- F96T12 IS 277 Magnetic Ballast (828BRTCP)	Instant Start	Normal	Series	Individual Pack	6
86231	GEM1F4T5-PH-120	1- F20T12, F15T8, F15T12, F14T12, 120V, Magnetic (546BTCP)	Preheat	Normal	Series	Individual Pack	20
89720	GEM1FC16T9-RS-120	2- FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP)	Rapid Start	Normal	Series	DIY	4
86132	GEM1FC16T9-RS-120-IP	1- F96T12, IS, 277V, Magnetic Ballast (828BRTCP)	Rapid Start	Normal	Series	Individual Pack	10
89722	GEM1FC8T9-RS-120-DIY	1- FC8T9 RS 120V Magnetic Ballast (547RSWSTCP)	Rapid Start	Normal	Series	DIY	4
86227	GEM1FC8T9-RS-120-IP	1- FC8T9 RS 120V Magnetic Ballast (547RSWSTCP)	Rapid Start	Normal	Series	Individual Pack	10
89717	GEM1FC12T9-RS-120	2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP)	Rapid Start	Normal	Series	Standard	4
80819	GEM220-TS-120-DIY	2- F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (447LRVLTCP)	Trigger Start	Normal	Series	DIY	4
80644	GEM230-RS-120	2- F30T12 120V Magnetic Ballast (573LTCP)	Rapid Start	Normal	Series	DIY	4
87125	GEM232T8-RS-120	2- F32T8 RS 120V Magnetic Ballast (M232SR120C)	Rapid Start	Normal	Series	Individual Pack	10
87130	GEM232T8-RS-277	2- F32T8 RS 277V Magnetic Ballast (M232SR277C)	Rapid Start	Normal	Series	Individual Pack	10
89710	GEM240-HRS-120-DIY	2- F40T12 F40T12 120V Magnetic Ballast (420LTCP)	Mod. Rapid Start	Normal	Series	DIY	4



Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
<b>MAGNETIC T12, T8, CIRCLELINE® BALLASTS (CONTINUED)</b>							
86206	GEM240-IS-277-IP	2- F40T12 F40T10 IS 277V Magnetic Ballast (532BRTCP)	Instant Start	Normal	Series	Individual Pack	6
89707	GEM240-RS-120-DIY	2- F40T12 F40T10 120V Magnetic Ballast (446LSLHTCP)	Rapid Start	Normal	Series	Pallet Pack	72
46958	GEM240-RS-120-DIY	2 F40T12 F40T10 120V Magnetic Ballast	Rapid Start	Normal	Series	DIY	6
86139	GEM240-RS-120-IP	2- F40T12 RS 120V Magnetic Ballast (446LSLHTCP)	Rapid Start	Normal	Series	Individual Pack	10
89713	GEM240-RS-277-DIY	2- F40T12 F40T10 277V Magnetic Ballast (443LSLHTCP)	Rapid Start	Normal	Series	DIY	4
86124	GEM240-RS-277-IP	2- F40T12 RS 277V Magnetic Ballast (443LSLHTCP)	Rapid Start	Normal	Series	Individual Pack	10
86341	GEM240-RS-220	2- F40T12 F40T10 220V Magnetic Ballast (754LTCP)	Rapid Start	Normal	Series	Standard	10
86176	GEM272HO-RS-120	2- F72T12HO RS 120V Magnetic Ballast (490XLHTCP)	Rapid Start	Normal	Series	Individual Pack	4
89718	GEM296HO-RS-120-DIY	2- F96T12HO F72T12HO 120V Magnetic Ballast (480SLHTCP)	Rapid Start	Normal	Series	DIY	2
86164	GEM296HO-RS-120-IP	2- F96T12HO F72T12HO RS 120V Magnetic Ballast (480SLHTCP)	Rapid Start	Normal	Series	DIY	4
86171	GEM296HO-RS-2772	F96T12 HO RS 277V Magnetic Ballast (487SLHTCP)	Rapid Start	Normal	Series	Individual Pack	4
89708	GEM296-IS-120-DIY2	F96T12 IS 120V Magnetic Ballast (806SLHTCP)	Instant Start	Normal	Series	Pallet Pack	48
46965	GEM296-IS-120-DIY2	F96T12 IS 120V Magnetic Ballast 60 HBCB	Instant Start	Normal	Series	DIY	4
86360	GEM296-IS-120-IP2	F96T12 IS 120V Magnetic Ballast (806SLHTCP)	Instant Start	Normal	Series	Individual Pack	6
89715	GEM296-IS-277-DIY2	F96T12 IS 277V Magnetic Ballast (827SLHTCP)	Instant Start	Normal	Series	DIY	4
86379	GEM296-IS-277-IP2	F96T12 IS 277V Magnetic Ballast (827SLHTCP)	Instant Start	Normal	Series	Individual Pack	6
<b>MAGNETIC T12 SIGN BALLASTS</b>							
88921	USB-0412-12-IP	04 to 12 foot 1 to 2 lamps	Rapid Start	Normal	Series	Individual Pack	4
88931	USB-0816-14-IP	08 to 16 feet 1 to 4 lamps	Rapid Start	Normal	Series	Individual Pack	4
88934	USB-1632-24-IP	16 to 32 feet 2 to 4 lamps	Rapid Start	Normal	Series	Individual Pack	2
88936	USB-1024-14-IP	10 to 24 feet 1 to 4 lamps	Rapid Start	Normal	Series	Individual Pack	2
88939	USB-2036-46-IP	20 to 36 feet 4 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
88940	USB-2048-46-IP	20 to 48 feet 4 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
<b>MAGNETIC T12 SIGN MAX-3 SERIES BALLASTS</b>							
88918	USB-0218-16-IP	Max 3 02 to 18 feet 1 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
88919	USB-1048-16-IP	Max 3 10 to 48 feet 1 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
88920	USB-1232-16-IP	Max 3 12 to 32 feet 1 to 6 lamps	Rapid Start	Normal	Series	Individual Pack	2
<b>MAGNETIC BALLASTS FOR COMPACT FLUORESCENT LAMPS</b>							
87533	GEM1CF13-PH-120	1- CFT/Q13W/GX23 Pre Heat 120 (4111H2P)	Preheat	Normal	Series	Standard	20
87623	GEM2FT36-RS-120	2- FT36W/2G11 RS 120 (4150P)	Rapid Start	Normal	Series	Standard	10
87625	GEM2FT40-RS-120	2- FT40W/2G11RS RS 120 (4152P)	Rapid Start	Normal	Series	Standard	10
87634	GEM1CF579-PH-277	1- CFT579Q9W/G23 Pre Heat 277 (4205F2P)	Preheat	Normal	Series	Standard	20
87655	GEM2CF13-PH-277	2- CFT/Q13W/GX23 Pre Heat 277 (4214PBES)	Preheat	Normal	Series	Standard	10
87700	GEM2CF24-PH-277	2- CFQ26W/G24d Pre Heat 277 (4226PBES)	Preheat	Normal	Parallel	Standard	10
<b>ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS</b>							
80669	C213UNVBE-IP	2 or 1- CFQ13W/G24q PS UNV Bottom Exit	Prog. Rapid Start	Normal	Series	Individual Pack	10
80671	C213UNVBES-IP	2 or 1- CFQ13W/G24q PS UNV Bottom Exit w/ Studs	Prog. Rapid Start	Normal	Series	Individual Pack	10
80673	C213UNVSE-IP	2 or 1- CFQ13W/G24q PS UNV Side Exit (most common)	Prog. Rapid Start	Normal	Series	Individual Pack	10
80675	C218UNVBEIP	2 or 1- CFQ18W/G24q PS UNV Bottom Exit	Prog. Rapid Start	Normal	Series	Individual Pack	10
80677	C218UNVBES-IP	2 or 1- CFQ18W/G24q PS UNV Bottom Exit w/ Studs	Prog. Rapid Start	Normal	Series	Individual Pack	10
80679	C218UNVSE-IP	2 or 1- CFQ18W/G24q PS UNV Side Exit (most common)	Prog. Rapid Start	Normal	Series	Individual Pack	10
80683	C240PUNVHP-B-IP	2 or 1- FT40W/2G11 PS UNV	Prog. Rapid Start	Normal	Series	Individual Pack	10
80680	C240SI120RH-IP	2- FT40W/2G11 IS 120	Instant Start	Normal	Series	Individual Pack	10
80681	C240SI277RH-IP	2- FT40W/2G11- IS 277	Instant Start	Normal	Series	Individual Pack	10



Product Code	Description	Application	Starting Method	Ballast Factor	Lamp Wiring	Package Type	Units Per Carton
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### ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS (CONTINUED)

47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/ Studs	Prog. Rapid Start	Normal	Series	Individual Pack	10
47509	C242UNVSE-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Side Exit	Prog. Rapid Start	Normal	Series	Individual Pack	10
80685	C2642UNVBE-IP	2 or 1- CF 26 42w PS UNV	Prog. Rapid Start	Normal	Series	Individual Pack	10
80687	C2642UNVBES-IP	2 or 1- CF 26 42w PS UNV	Prog. Rapid Start	Normal	Series	Individual Pack	10
80689	C2642UNVSE-IP	1/2 CF 26 42W PS UNV 60 HBXX	Prog. Rapid Start	Normal	Series	Individual Pack	10
80690	C340SI120RH-IP	3- FT40W/2G11 IS 120	Instant Start	Normal	Series	Individual Pack	10
80691	C340SI277RH-IP	3- FT40W/2G11 IS 277	Instant Start	Normal	Series	Individual Pack	10

### ELECTRONIC HID

29377	GE-MH-250-400-MA	1- 250 to 400w UltraMax HID Electronic 208-277 50-60Hz	M155, M154, M153, M131	Electronic		Standard Pack	1
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Product Code	Description	Application*	ANSI Lamp/ Ballast	Circuit Type	Frame Size (H x L)	Package Type	Units Per Carton
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### DISTRIBUTOR REPLACEMENT BALLAST KITS - METAL HALIDE

86824	M50MLTLC3M500K	1- 50w MH M110 or M148 Quad	M110	HX-HPF	3x4	Distributor Kit	6
86847	M70MLTLC3M500K	1- 70w MH M 98 or M143 Quad	M98	HX-HPF	3x4	Distributor Kit	6
86839	M7048TLC3M500K	1- 70w MH M 98 or M143 480	M98	HX-HPF	3x4	Distributor Kit	6
86675	M100MLTLC3M500K	1- 100w MH M 90 or M140 Quad	M90, M92, M140	HX-HPF	4.25x5.75	Distributor Kit	6
86667	M10048TLC3M500K	1- 100w MH M 90 or M140 480	M90, M92, M140	HX-HPF	3x4	Distributor Kit	6
86718	M150MLTLC3M500K	1- 150w MH M102 or M142 Quad	M102, M142	HX-HPF	3x4	Distributor Kit	6
86711	M15048TLC3M500K	1- 150w MH M102 or M142 480	M102, M142, M107	HX-HPF	3x4	Distributor Kit	6
86741	M175MLTAC3M500K	1- 175w MH M 57 or H 39 Quad	M57, H39, M107	CWA	3x4	Distributor Kit	6
87210	M175ML5AC3M500K	1- 175w MH M 57 or H 39 Multi-5 for all voltages	M57, H39, M109	CWA	3x4	Distributor Kit	6
86765	M250MLTAC3M500K	1- 250w MH M 58 or H 37 Quad	M58, H37	CWA	3x4	Distributor Kit	6
87211	M250ML5AC3M500K	1- 250w MH M 58 or H 37 Multi-5 small standard frame	M58, H37	CWA	3x4	Distributor Kit	6
49763	M250ML5AC3M555K	1- 250w MH M 58 or H 37 Multi-5 with Lamp (555K)	M58, H37	CWA	3x4	Distributor Kit	1
87212	M250ML5AC4M500K	1- 250w MH M 58 or H 37 Multi-5 large frame	M59, H33	CWA	4.25x4.75	Distributor Kit	3
49742	M250ML5AC4M555K	1- 250w MH M 58 or H 37 Multi-5 with Lamp (555K)	M59, H33	CWA	4.25x4.75	Distributor Kit	1
86814	M400MLTAC4M500K	1- 400w MH M 59 or H 33 Quad	M59, H33	CWA	4.25x4.75	Distributor Kit	3
86803	M40048TAC4M500K	1- 400w MH M 59 or H 33 480	M59, H33	CWA	4.25x4.75	Distributor Kit	3
86808	M400ML5AC4M500K	1- 400w MH M 59 or H 33 Multi-5 for all voltages	M58, H37	CWA	4.25x4.75	Distributor Kit	3
49745	M400ML5AC4M555K	1- 400w MH M 59 or H 33 Multi-5 with Lamp (555K)	M58, H37	CWA	4.25x4.75	Distributor Kit	1
86650	M100048TAC5M500K	1- 1000w MH M 47 or H 36 480	M47, H36	CWA	4.25x5.75	Distributor Kit	2
86655	M1000MLTAC5M500K	1- 1000w MH M 47 or H 36 Quad	M47, H36	CWA	4.25x5.75	Distributor Kit	2
87213	M1000ML5AC5M500K	1- 1000w MH M 47 or H 36 Multi-5 for all voltages	M47, H36	CWA	4.25x5.75	Distributor Kit	2
86698	M1500MLTAC5M500K	1- 1500w MH M 48 Quad	M48	CWA	4.25x5.75	Distributor Kit	2
86693	M150048TAC5M500K	1- 1500w MH M 48 480	M48	CWA	4.25x5.75	Distributor Kit	2

### DISTRIBUTOR REPLACEMENT BALLAST KITS - PULSE START METAL HALIDE

86876	P17548TAC3M500K	1- 175w PS M137 or M152 480	M152, M137	CWA	3x4	Distributor Kit	6
86885	P175MLTAC3M500K	1- 175w PS M137 or M 152 Quad	M153, M 137	CWA	3x4	Distributor Kit	6
86926	P25048TAC4M500K	1- 250w PS M138 or M153 480	M153, M138	CWA	4.25x4.75	Distributor Kit	3
86935	P250MLTAC4M500K	1- 250w PS M138 or M153 Quad	M153, M138	CWA	4.25x4.75	Distributor Kit	3
86952	P32048TAC4M500K	1- 320w PS M132 or M154 480	M154, M132	CWA	4.25x4.75	Distributor Kit	3
86968	P320TRIAC4M502K	1- 320w PS M132 or M154 TRI-Voltage 120 277 347	M154, M132	CWA	4.25x4.75	Distributor Kit	3
86959	P320MLTAC4M500K	1- 320w PS M132 or 154 Quad	M154, M132	CWA	4.25x4.75	Distributor Kit	3
86984	P350MLTAC4M500K	1- 350w PS M131 Quad	M131	CWA	4.25x4.75	Distributor Kit	3
42692	P350277RC5M500K	1- 350w PS M131 277 Reactor	M131	RX-NPF	3.75x4.5	Distributor Kit	3
86999	P40048TAC4M500K	1- 400w PS M135 now M155 480	M155, M135	CWA	4.25x4.75	Distributor Kit	3

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 勝特力电子(深圳) 86-755-83298787  
 Http://www.100y.com.tw



Ballasts

Product Code	Description	Application*	ANSI Lamp/Ballast	Circuit Type	Frame Size (H x L)	Package Type	Units Per Carton
<b>DISTRIBUTOR REPLACEMENT BALLAST KITS - PULSE START METAL HALIDE (CONTINUED)</b>							
87008	P400MLTAC4M500K	1- 400w PS M135 or M155 Quad	M155,M135	CWA	4.25x4.75	Distributor Kit	3
46934	P750MLTAC5M500K	1-750w PS M149 Quad	M149	CWA	4.25x5.75	Distributor Kit	2
46936	P75048TAC5M500K	1-750w PS M149 480	M149	CWA	4.25x5.75	Distributor Kit	2
<b>DISTRIBUTOR REPLACEMENT BALLAST KITS - HIGH PRESSURE SODIUM</b>							
87152	S50MLTLC3M500K	1- 50w S68 Quad	S68	HX-HPF	3x4	Distributor Kit	6
86587	S70MLTLC3M500K	1- 70w S62 Quad	S62	HX-HPF	3x4	Distributor Kit	6
86456	S7048TLC3M500K	1- 70w S62 480	S62	HX-HPF	3x4	Distributor Kit	6
87074	S100MLTLC3M500K	1- 100w S54 Quad	S54	HX-HPF	3x4	Distributor Kit	6
87068	S10048TLC3M500K	1- 100w S54 480	S54	HX-HPF	3x4	Distributor Kit	6
87094	S150MLTLC3M500K	1- 150w S55 Quad	S55	HX-HPF	3x4	Distributor Kit	6
87087	S15048TLC3M500K	1- 150w S55 480	S55	HX-HPF	3x4	Distributor Kit	6
87214	S250ML5AC4M500K	1- 250w S50 Multi-5 for all voltages	S50	CWA	4.25x4.75	Distributor Kit	3
49757	S250ML5AC4M555K	1- 250w S50 Multi-5 with Lamp (555K)	S50	CWA	4.25x4.75	Distributor Kit	1
87121	S250MLTAC4M500K	1- 250w S50 Quad	S50	CWA	4.25x4.75	Distributor Kit	3
87164	S400MLTAC4M500K	1- 400w S51 Quad smaller standard frame	S51	CWA	4.25x4.75	Distributor Kit	3
87175	S400MLTAC5M500K	1- 400w S51 Quad	S51	CWA	4.25x5.75	Distributor Kit	2
87217	S400ML5AC5M500K	1- 400w S51 Multi-5 for all voltages	S51	CWA	4.25x5.75	Distributor Kit	2
49758	S400ML5AC4M555K	1- 400w S51 Multi-5 with lamp (555K)	S52	CWA	4.25x4.75	Distributor Kit	1
87215	S400ML5AC4M500K	1- 400w S51 Multi-5 in smaller standard frame	S51	CWA	4.25x4.75	Distributor Kit	3
87198	S40048TAC4M500K	1- 400w S51 480 in smaller frame	S51	CWA	4.25x4.75	Distributor Kit	3
87206	S40048TAC5M500K	1- 400w S51 480	S51	CWA	4.25x5.75	Distributor Kit	2
87056	S1000MLTAC5M500K	1- 1000w S52 Quad	S52	CWA	4.25x5.75	Distributor Kit	2
87048	S100048TAC5M500K	1- 1000w S52 480	S52	CWA	4.25x5.75	Distributor Kit	2
87218	S1000ML5AC5M500K	1- 1000w S52 Multi-5 for all voltages	S52	CWA	4.25x5.75	Distributor Kit	2
<b>DISTRIBUTOR REPLACEMENT BALLAST KITS - MERCURY</b>							
86519	H100MLTAC3M500K	1- 100w H36 Quad	H38, H44	CWA	3x4	Distributor Kit	6
86527	H175MLTAC3M500K	1- 175w H39 Quad	H39	CWA	3x4	Distributor Kit	6
86542	H400MLTAC4M500K	1- 400w H39 Quad	H33	CWA	4.25x4.75	Distributor Kit	3
<b>METAL HALIDE</b>							
86576	11210277CTC000C	1- 70w M85 120/277 Enclosed & Potted	M85	HX-HPF	0	Standard	4
86578	11210506CTC000C	1- 70w M98 120/277 Enclosed & Potted	M98	HX-HPF	0	Standard	4
86574	11210239CTC000I	1- 100w M90 120/277 Enclosed & Potted	M90	HX-HPF	0	Standard	4
86563	1110245SCTC000I	1- 175w M57 120/277 Enclosed & Potted	M57, H39	CWA	0	Standard	2
86564	1110246CTC000C	1- 250w M58 120/277 Enclosed & Potted	M58, H37	CWA	0	Standard	2
42670	1110-247SC-TC	1- 400w M59 120/277 Enclosed & Potted F-can	M59, H33	CWA	0	Standard	2
80728	1111-247SCTC000I	1- 400w M59 120/277 Enclosed & Potted	M59, H33	CWA	0	Standard	4
<b>HIGH PRESSURE SODIUM</b>							
86605	1233142U000I	1- 70w S62 120 Reactor-NPF	S62	R-NPF	0	Standard	6
86596	12210237CTC000I	1- 70w S62 120/277 E & P F-can built-in starter	S62	HX-HPF	0	Standard	4
86606	1233154U000I	1- 150w S55 120 Reactor-NPF	S55	R-NPF	0	Standard	6

\*Quad = 120V, 208V, 240V, 277V  
 Multi 5 = 120V, 208V, 240V, 277V, 480V