

Fluorescent Lamps

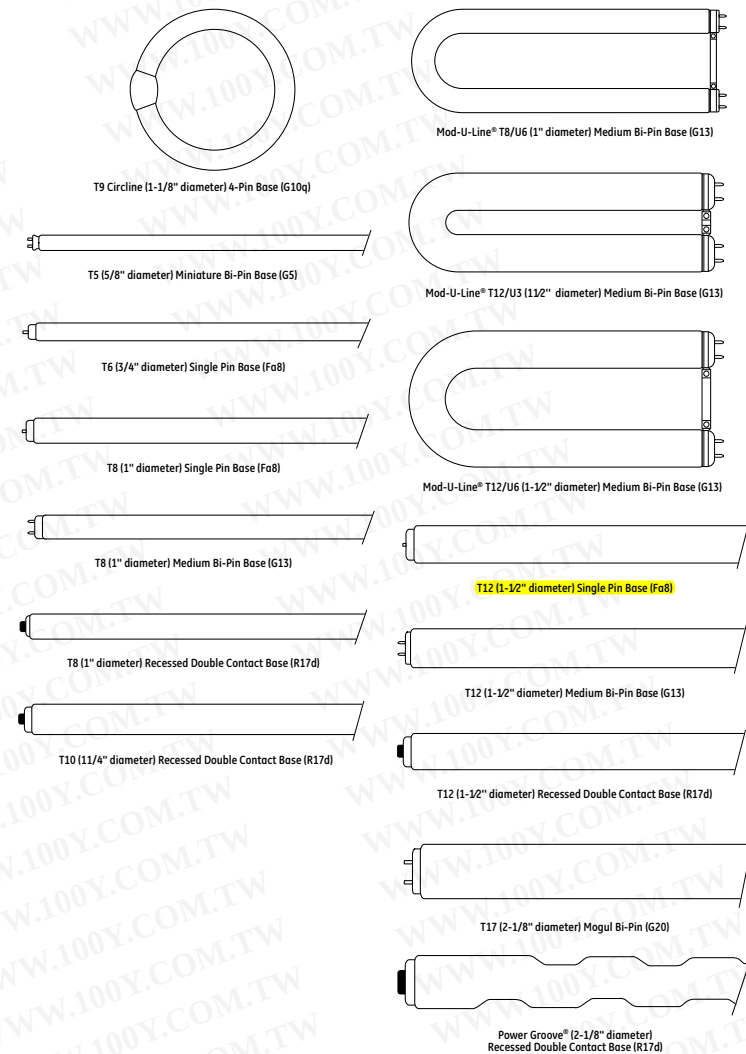
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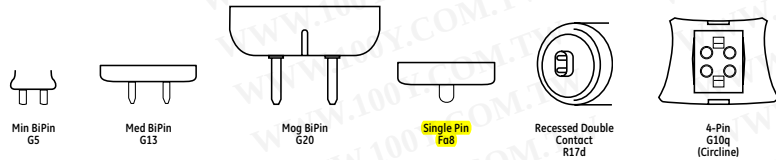
Lamp Locator (not drawn to scale)



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

Fluorescent Lamps

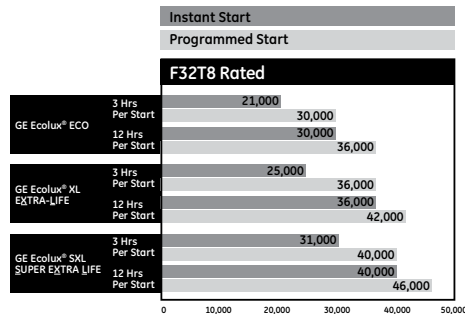
Base Identification



Introduction

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

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



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

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

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

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

Product Information

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

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

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

- High Output Watt-Miser®: Over 5% energy savings versus standard Starcoat® T5 HO lamps. Same lumen output. Great for use in high-bay systems.
- High Efficiency Watt-Misers®: Over 5% energy savings versus standard Starcoat® T5 HE lamps. Same lumen output. Available in four different lengths.
- High Lumen T5: 5% greater lumen output versus standard Starcoat® F28W/T5 lamps. Same wattage. Great for new commercial troffers.
- Excellent color rendering – 85 CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GE 8' T8 Lamps (pg 4-11)

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

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

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

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

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

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

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

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot-notes	Warning and Caution Notices	Additional Information
T5 Starcoat® Ecolux® Lamps																			
T5 High Efficiency																			
T5	Miniature Bi-Pin (G5)	14	21.6	31590	F14W/T5/B30/ECO	40	30000	36000	1350	1240	3000	85	☑				19	101	
		14	21.6	46671	F14W/T5/B35/ECO	40	30000	36000	1350	1240	3500	85	☑				19	101	
		14	21.6	46673	F14W/T5/B41/ECO	40	30000	36000	1350	1240	4100	85	☑				19	101	
		14	21.6	46674	F14W/T5/B50/ECO	40	30000	36000	1300	1190	5000	85	☑				19	101	
		14	21.6	46676	F14W/T5/B65/ECO	40	30000	36000	1250	1150	6500	85	☑				19	101	
		21	33.4	46677	F21W/T5/B30/ECO	40	30000	36000	2100	1930	3000	85	☑				19	101	
		21	33.4	46684	F21W/T5/B35/ECO	40	30000	36000	2100	1930	3500	85	☑				19	101	
		21	33.4	46687	F21W/T5/B41/ECO	40	30000	36000	2100	1930	4100	85	☑				19	101	
		21	33.4	46688	F21W/T5/B50/ECO	40	30000	36000	2000	1840	5000	85	☑				19	101	
		21	33.4	46689	F21W/T5/B65/ECO	40	30000	36000	1950	1790	6500	85	☑				19	101	
		28	45.2	46704	F28W/T5/B30/ECO	40	30000	36000	2900	2660	3000	85	☑				19	101	
		28	45.2	46705	F28W/T5/B35/ECO	40	30000	36000	2900	2660	3500	85	☑				19	101	
		28	45.2	46706	F28W/T5/B41/ECO	40	30000	36000	2900	2660	4100	85	☑				19	101	
		28	45.2	46707	F28W/T5/B50/ECO	40	30000	36000	2750	2530	5000	85	☑				19	101	
		28	45.2	46708	F28W/T5/B65/ECO	40	30000	36000	2700	2480	6500	85	☑				19	101	
		35	57.1	46724	F35W/T5/B30/ECO	40	30000	36000	3650	3350	3000	85	☑				19	101	
		35	57.1	46727	F35W/T5/B35/ECO	40	30000	36000	3650	3350	3500	85	☑				19	101	
		35	57.1	46735	F35W/T5/B41/ECO	40	30000	36000	3650	3350	4100	85	☑				19	101	
		35	57.1	46742	F35W/T5/B50/ECO	40	30000	36000	3500	3220	5000	85	☑				19	101	
		35	57.1	46743	F35W/T5/B65/ECO	40	30000	36000	3400	3120	6500	85	☑				19	101	
T5 High Output																			
T5	Miniature Bi-Pin (G5)	24	21.6	46699	F24W/T5/B30/ECO	40	30000	36000	2000	1840	3000	85	☑				19	101	
		24	21.6	46700	F24W/T5/B35/ECO	40	30000	36000	2000	1840	3500	85	☑				19	101	
		24	21.6	46701	F24W/T5/B41/ECO	40	30000	36000	2000	1840	4100	85	☑				19	101	
		24	21.6	46702	F24W/T5/B65/ECO	40	30000	36000	1900	1740	5000	85	☑				19	101	
		24	21.6	46703	F24W/T5/B85/ECO	40	30000	36000	1880	1740	6500	85	☑				19	101	
		39	33.4	46744	F39W/T5/B30/ECO	40	30000	36000	3500	3220	3000	85	☑				19	101	
		39	33.4	46745	F39W/T5/B35/ECO	40	30000	36000	3500	3220	3500	85	☑				19	101	
		39	33.4	46746	F39W/T5/B41/ECO	40	30000	36000	3500	3220	4100	85	☑				19	101	
		39	33.4	46747	F39W/T5/B50/ECO	40	30000	36000	3350	3080	5000	85	☑				19	101	
		39	33.4	46748	F39W/T5/B65/ECO	40	30000	36000	3330	3060	6500	85	☑				19	101	
		54	45.2	46759	F54W/T5/B30/ECO	40	30000	36000	5000	4600	3000	85	☑				19	101	
		54	45.2	46760	F54W/T5/B35/ECO	40	30000	36000	5000	4600	3500	85	☑				19	101	
		54	45.2	46761	F54W/T5/B41/ECO	40	30000	36000	5000	4600	4100	85	☑				19	101	
		54	45.2	46762	F54W/T5/B50/ECO	40	30000	36000	4800	4410	5000	85	☑				19	101	
		54	45.2	46763	F54W/T5/B65/ECO	40	30000	36000	4750	4370	6500	85	☑				19	101	
		80	57.1	46802	F80W/T5/B30/ECO	40	30000	36000	7000	6440	3000	85	☑				19	101	
		80	57.1	46803	F80W/T5/B35/ECO	40	30000	36000	7000	6440	3500	85	☑				19	101	
		80	57.1	46804	F80W/T5/B41/ECO	40	30000	36000	7000	6440	4100	85	☑				19	101	
		80	57.1	46805	F80W/T5/B50/ECO	40	30000	36000	6700	6160	5000	85	☑				19	101	
		80	57.1	46806	F80W/T5/B65/ECO	40	30000	36000	6650	6110	6500	85	☑				19	101	
Ultra Energy Saving T5 Lamps																			
T5 High Efficiency Watt-Miser®																			
T5	Miniature Bi-Pin (G5)	13	21.6	71632	F13T5/B30/WM/ECO	40	25000	30000	1350	1240	3000	85	☑	\$	+		19	101	
		13	21.6	71633	F13T5/B35/WM/ECO	40	25000	30000	1350	1240	3500	85	☑	\$	+		19	101	
		13	21.6	71634	F13T5/B41/WM/ECO	40	25000	30000	1350	1240	4100	85	☑	\$	+		19	101	
		13	21.6	71635	F13T5/B50/WM/ECO	40	25000	30000	1300	1190	5000	85	☑	\$	+		19	101	
		13	21.6	71636	F13T5/B65/WM/ECO	40	25000	30000	1250	1150	6500	85	☑	\$	+		19	101	
		20	33.4	71637	F20T5/B30/WM/ECO	40	25000	30000	2100	1930	3000	85	☑	\$	+		19	101	
		20	33.4	71638	F20T5/B35/WM/ECO	40	25000	30000	2100	1930	3500	85	☑	\$	+		19	101	
		20	33.4	71639	F20T5/B41/WM/ECO	40	25000	30000	2100	1930	4100	85	☑	\$	+		19	101	
		20	33.4	71640	F20T5/B50/WM/ECO	40	25000	30000	2000	1840	5000	85	☑	\$	+		19	101	
		20	33.4	71641	F20T5/B65/WM/ECO	40	25000	30000	1950	1790	6500	85	☑	\$	+		19	101	
		26	45.2	71642	F26T5/B30/WM/ECO	40	25000	30000	2900	2660	3000	85	☑	\$	+		19	101	
		26	45.2	71643	F26T5/B35/WM/ECO	40	25000	30000	2900	2660	3500	85	☑	\$	+		19	101	
		26	45.2	71644	F26T5/B41/WM/ECO	40	25000	30000	2900	2660	4100	85	☑	\$	+		19	101	
		26	45.2	71645	F26T5/B50/WM/ECO	40	25000	30000	2750	2530	5000	85	☑	\$	+		19	101	
		26	45.2	71646	F26T5/B65/WM/ECO	40	25000	30000	2700	2480	6500	85	☑	\$	+		19	101	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot-notes	Warning and Caution Notices	Additional Information	
Ultra Energy Saving T5 Lamps (continued)																				
T5 High Efficiency Watt-Miser® (continued)																				
T5	Miniature Bi-pin (G5)	33	57.1	71647	F33T5/B30/WM/ECO	40	25000	30000	3650	3350	3000	85	☑	\$	+		19	101		
		33	57.1	71648	F33T5/B35/WM/ECO	40	25000	30000	3650	3350	3500	85	☑	\$	+		19	101		
		33	57.1	71649	F33T5/B41/WM/ECO	40	25000	30000	3650	3350	4100	85	☑	\$	+		19	101		
		33	57.1	71650	F33T5/B50/WM/ECO	40	25000	30000	3500	3220	5000	85	☑	\$	+		19	101		
		33	57.1	71651	F33T5/B65/WM/ECO	40	25000	30000	3400	3120	6500	85	☑	\$	+		19	101		
T5 High Output Watt-Miser®																				
T5	Miniature Bi-Pin (G5)	51	45.2	71627	F54T5/B30/WM/ECO	40	25000	30000	5000	4600	3000	85	☑	\$	+		19	101		
		51	45.2	71628	F54T5/B35/WM/ECO	40	25000	30000	5000	4600	3500	85	☑	\$	+		19	101		
		51	45.2	71629	F54T5/B41/WM/ECO	40	25000	30000	5000	4600	4100	85	☑	\$	+		19	101		
		51	45.2 cm	71630	F54T5/B50/WM/ECO	40	25000	30000	4790	4410	5000	85	☑	\$	+		19	101		
		51	45.2	71631	F54T5/B65/WM/ECO	40	25000	30000	4750	4370	6500	85	☑	\$	+		19	101		
T5 High Lumen																				
T5	Miniature Bi-Pin (G5)	28	45.2 cm	71652	F28WTS/B30/HL/ECO	40	20000	24000	3050	2810	3000	85	☑	\$				19	101	
		28	45.2 cm	71653	F28WTS/B35/HL/ECO	40	20000	24000	3050	2810	3500	85	☑	\$				19	101	
		28	45.2 cm	71654	F28WTS/B41/HL/ECO	40	20000	24000	3050	2810	4100	85	☑	\$				19	101	
		28	45.2 cm	71655	F28WTS/B50/HL/ECO	40	20000	24000	2900	2670	5000	85	☑	\$				19	101	
		28	45.2 cm	71656	F28WTS/B65/HL/ECO	40	20000	24000	2850	2620	6500	85	☑	\$				19	101	
T5 Preheat Lamps																				
6" T5																				
T5	Miniature Bi-Pin (G5)	4	6.0	10004	F4T5/CW	24	5000		135	100	4100	60						101		
		4	6.0	15983	F4T5/CW CARD	10	5000		135	100	4100	60						101		
		4	6.0	29089	F4T5/MW/C/D	10	5000		140	105	3000	52						101		
9" T5																				
T5	Miniature Bi-Pin (G5)	6	9.0	10032	F6T5/CW	24	5000		295	235	4100	60						101		
		6	9.0	15986	F6T5/CW CARD	10	5000		295	235	4100	60						101		
		6	9.0	90062	F6T5/KL/CW	24	8000		260	210	4100	60						101		
		6	9.0	10028	F6T5/D	24	5000		230	185	6500	75	☑					101		
12" T5																				
T5	Miniature Bi-Pin (G5)	8	12.0	10059	F8T5/CW	24	5000		400	320	4100	60						101		
		8	12.0	15987	F8T5/CW CARD	10	5000		400	320	4100	60						101		
		8	12.0	90063	F8T5/KL/CW	24	8000		400	320	4100	60						101		
		8	12.0	10055	F8T5/D	24	5000		330	265	6500	75	☑					101		
		8	12.0	10064	F8T5/MW	24	5000		410	330	3000	52						101		
		8	12.0	25425	F8T5/MW/CARD	5	5000		410	330	3000	52						101		
21" T5																				
T5	Miniature Bi-Pin (G5)	13	21.0	10086	F13T5/CW	24	5000		850	705	4100	60						101		
		13	21.0	49333	F13T5/CW/C/D	5	5000		850	705	4100	60						101		
		13	21.0	90064	F13T5/KL/CW	24	8000		830	690	4100	60						101		
		13	21.0	10089	F13T5/MW	24	5000		870	720	3000	52						101		
		13	21.0	25426	F13T5/MW/CARD	5	5000		870	720	3000	52						101		
T8 Starcoat® Lamps																				
2" T8 Ecolux®																				
T8	Medium Bi-Pin (G13)	17	24.0	45741	F17T8/SP30/ECO	24	20000	24000	1125	1260	3000	78	☑					18	101	
		17	24.0	45743	F17T8/SP35/ECO	24	20000	24000	1125	1260	3500	78	☑					18	101	
		17	24.0	45748	F17T8/SP41/ECO	24	20000	24000	1125	1260	4100	78	☑					18	101	
		17	24.0	45742	F17T8/SPK30/ECO	24	20000	24000	1150	1280	3000	86	☑					18	101	
		17	24.0	45747	F17T8/SPK35/ECO	24	20000	24000	1150	1280	3500	86	☑					18	101	
		17	24.0	45749	F17T8/SPK41/ECO	24	20000	24000	1150	1280	4100	86	☑					18	101	
		2" T8 Ecolux® XL Extra-life																		
T8	Medium Bi-Pin (G13)	17	24.0	15476	F17T8/KL/SP30/ECO	24	24000	29000	1125	1260	3000	78	☑					18	101	
		17	24.0	15479	F17T8/KL/SP35/ECO	24	24000	29000	1125	1260	3500	78	☑					18	101	
		17	24.0	15480	F17T8/KL/SP41/ECO	24	24000	29000	1125	1260	4100	78	☑					18	101	
		17	24.0	15481	F17T8/KL/SPK30/ECO	24	24000	29000	1150	1280	3000	86	☑					18	101	
		17	24.0	15483	F17T8/KL/SPK35/ECO	24	24000	29000	1150	1280	3500	86	☑					18	101	
		17	24.0	15484	F17T8/KL/SPK41/ECO	24	24000	29000	1150	1280	4100	86	☑					18	101	
		17	24.0	10415	F17T8/KL/SPK30/ECO	24	24000	29000	1300	1235	5000	86	☑					18	101	
		17	24.0	16092	F17T8/KL/SPK65/ECO	24	24000	29000	1250	1125	6500	85	☑					18	101	

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Fluorescent Lamps

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

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

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

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

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

Fluorescent

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
3" T12 Ecolux® – Rapid Start (continued)																		
30W (continued)																		
T12	Medium Bi-Pin (G13)	30	36.0	80085	F30T12/CW/RS/ECO/6PK	24	18000	2200	1910	4100	60						101	
		30	36.0	80086	F30T12/D/RS/ECO	24	18000	1900	1650	6500	75	☞					101	Daylight
		30	36.0	80091	F30T12/NW/RS/ECO	24	18000	2275	1980	3000	52						101	Warm White
4" T12 – Rapid Start																		
34W Watt-Miser® Ecolux® – TCLP Compliant																		
T12	Medium Bi-Pin (G13)	34	48.0	23163	F34SP30RS/WM/ECO	30	20000	2750	2475	3000	70	☞	\$	→	Ⓢ	1	101	
		34	48.0	23165	F34SP35RS/WM/ECO	30	20000	2750	2475	3500	73	☞	\$	→	Ⓢ	1	101	
		34	48.0	21858	F34SP35/RS/WM/ECO/UPC/6P	24	20000	2750	2475	3500	73	☞	\$	→	Ⓢ	1	101	
		34	48.0	23166	F34SP41/RS/WM/ECO	30	20000	2750	2475	4100	72	☞	\$	→	Ⓢ	1	101	
		34	48.0	41563	F34SP65/RS/WM/ECO	30	20000	2650	2430	6500	75	☞	\$	→	Ⓢ	1	101	
		34	48.0	23157	F34SPK30/RS/WM/ECO	30	20000	2900	2610	3000	82	☞	\$	→	Ⓢ	1	101	
		34	48.0	23158	F34SPK35/RS/WM/ECO	30	20000	2900	2610	3500	82	☞	\$	→	Ⓢ	1	101	
		34	48.0	23159	F34SPK41/RS/WM/ECO	30	20000	2900	2610	4100	80	☞	\$	→	Ⓢ	1	101	
		34	48.0	80095	F34SPK50/RS/WM/ECO	30	20000	2700	2430	5000	80	☞	\$	→	Ⓢ	1	101	
		34	48.0	80092	F34C/50/RS/WM/ECO	30	20000	2000	1720	5000	90	☞	\$	→	Ⓢ	1	101	Chroma 50
		34	48.0	23010	F34CW/RS/WM/ECO	30	20000	2650	2280	4100	60		\$	→	Ⓢ	1	101	
		34	48.0	25391	F34CW/RS/WM/ECO/UPC	30	20000	2650	2280	4100	60		\$	→	Ⓢ	1	101	
		34	48.0	23485	F34CW/RS/WM/ECO/C10PK	10	20000	2650	2280	4100	60		\$	→	Ⓢ	1	101	
		34	48.0	80093	F34DX/RS/WM/ECO	30	20000	1950	1620	6500	84	☞	\$	→	Ⓢ	1	101	Daylight Deluxe
		34	48.0	80094	F34LW/RS/WM/ECO	30	20000	2825	2430	4200	49		\$	→	Ⓢ	1	101	Lite White
		34	48.0	45065	F34WW/RS/WM/ECO	30	20000	2700	2320	3000	52		\$	→	Ⓢ	1	101	Warm White
		34	48.0	25398	F34WW/RS/WM/ECO/UPC	30	20000	2700	2320	3000	52		\$	→	Ⓢ	1	101	Warm White
40W Ecolux® – TCLP Compliant																		
T12	Medium Bi-Pin (G13)	40	48.0	80099	F40SP30/ECO	30	20000	3250	2950	3000	70	☞			Ⓢ		101	
		40	48.0	80186	F40SP35/ECO	30	20000	3200	2910	3500	73	☞			Ⓢ		101	
		40	48.0	80187	F40SP41/ECO	30	20000	3200	2910	4100	72	☞			Ⓢ		101	
		40	48.0	23382	F40SP41/ECO/C	10	20000	3200	2910	4100	72	☞			Ⓢ		101	
		40	48.0	80188	F40SP65/ECO	30	20000	3050	2775	6500	75	☞			Ⓢ		101	
		40	48.0	25400	F40SP65/ECO/UPC	30	20000	3050	2775	6500	75	☞			Ⓢ		101	
		40	48.0	80189	F40SPK30/ECO	30	20000	3400	3090	3000	82	☞			Ⓢ		101	
		40	48.0	80190	F40SPK35/ECO	30	20000	3400	3090	3500	82	☞			Ⓢ		101	
		40	48.0	80191	F40SPK41/ECO	30	20000	3350	3050	4100	80	☞			Ⓢ		101	
		40	48.0	80199	F40SPK50/ECO	30	20000	3200	2860	5000	80	☞			Ⓢ		101	
		40	48.0	80096	F40C50/ECO	30	20000	2250	1870	5000	90	☞					101	Chroma 50
		40	48.0	25399	F40C50/ECO/UPC	30	20000	2250	1870	5000	90	☞					101	Chroma 50
		40	48.0	13795	F40C75 30PK	30	20000	1950	1680	7500	92	☞					101	Chroma 75, non-TCLP compliant
		40	48.0	13969	F40D/ULTRA/ECO6P	24	20000	3050	2775	6500	75	☞			Ⓢ		101	Daylight
		40	48.0	80097	F40DX/ECO	30	20000	2250	1910	6500	84	☞			Ⓢ		101	Daylight Deluxe
		40	48.0	40333	F40KB/ECO/2PK	9	20000	3400	3090	3000	70	☞			Ⓢ		104	Kitchen & Bath
		40	48.0	21323	F40KB/ECO 6PK	24	20000	3400	3090	3000	70	☞			Ⓢ		104	Kitchen & Bath
		40	48.0	80098	F40N/ECO	30	20000	2100	1740	3700	90	☞					101	Natural
		40	48.0	12224	F40/SUN/ECO/6PK	24	20000	2250	1870	5000	90	☞			Ⓢ		101	Sunlight
		40	48.0	14440	F40/RES/ECO/SUV	30	15000	3150	2860	4100	72	☞			Ⓢ		101	
		40	48.0	14433	F40/RES/ECO/SUV6	24	15000	3150	2860	4100	72	☞			Ⓢ		101	
		40	48.0	14441	F40/RES/ECO/TWN9	9	15000	3150	2860	4100	72	☞			Ⓢ		101	
40W Ecolux® XL Extra-life																		
T12	Medium Bi-Pin (G13)	40	48.0	80217	F40XL/SP30/ECO	30	24000	3300	2970	3000	75	☞			Ⓢ		101	
		40	48.0	80224	F40XL/SP35/ECO	30	24000	3300	2970	3500	75	☞			Ⓢ		101	
		40	48.0	80227	F40XL/SP41/ECO	30	24000	3300	2970	4100	73	☞			Ⓢ		101	
		40	48.0	80230	F40XL/SPK30/ECO	30	24000	3400	3060	3000	82	☞			Ⓢ		101	
		40	48.0	80248	F40XL/SPK35/ECO	30	24000	3400	3060	3500	82	☞			Ⓢ		101	
		40	48.0	80249	F40XL/SPK41/ECO	30	24000	3400	3060	4100	80	☞			Ⓢ		101	
		40	48.0	80250	F40XL/SPK50/ECO	30	24000	3350	3050	5000	80	☞			Ⓢ		101	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information			
T12 Lamps (continued)																					
4" T12 Rapid Start (continued)																					
25W Ecolux® Utility Shoplight																					
T12	Medium Bi-Pin (G13)	25	48.0	14450	F4825W/UTECOSLV	30	12000	1860	1675	4100	60						10	101			
		25	48.0	14456	F4825W/UTECOTWNI	9	12000	1860	1675	4100	60						10	101			
		25	48.0	14445	F4825W/UTECOUPC	30	12000	1860	1675	4100	60						10	101			
T12 Mod-U-Line®																					
T12 3-5/8" Spacing																					
T12	Medium Bi-Pin (G13)	40	22.5	15259	F40SP30/U/3	12	14000	2925	2660	3000	70	☞			Ⓢ		102				
		40	22.5	14228	F40SP35/U/3	12	14000	2925	2660	3500	73	☞			Ⓢ		102				
		40	22.5	15260	F40SP41/U/3	12	14000	2925	2660	4100	72	☞			Ⓢ		102				
		40	22.5	14814	F40SPK30/U/3	12	14000	3000	2730	3000	82	☞			Ⓢ		102				
		40	22.5	14813	F40SPK35/U/3	12	14000	3000	2730	3500	82	☞			Ⓢ		102				
		40	22.5	14649	F40SCW/U/3	12	14000	2725	2400	4100	75	☞			Ⓢ		102	Super Cool White			
T12 6" Spacing																					
T12	Medium Bi-Pin (G13)	40	22.5	15263	F40SP30/U/6	12	14000	3050	2780	3000	70	☞			Ⓢ		102				
		40	22.5	14227	F40SP35/U/6	12	14000	3050	2780	3500	73	☞			Ⓢ		102				
		40	22.5	22050	F40SP35/U/6/UPC	12	14000	3050	2780	3500	73	☞			Ⓢ		102				
		40	22.5	15265	F40SP41/U/6	12	14000	3050	2780	4100	72	☞			Ⓢ		102				
		40	22.5	14816	F40SPK30/U/6	12	14000	3100	2820	3000	82	☞			Ⓢ		102				
		40	22.5	14648	F40SCW/U/6	12	14000	2800	2460	4100	75	☞			Ⓢ		102	Super Cool White			
		40	22.5	25374	F40SCW/U/6/UPC/6P	6	14000	2800	2460	4100	75	☞			Ⓢ		102	Super Cool White			
		40	22.5	14815	F40SPK35/U/6	12	14000	3100	2820	3500	82	☞			Ⓢ		102				
40	22.5	14632	F40SWM/U/6	12	14000	2800	2460	3000	75	☞			Ⓢ		102	Super Warm White					
Watt-Miser® Energy Saving Lamps																					
T12 3-5/8" Spacing Watt-Miser®																					
T12	Medium Bi-Pin (G13)	35	22.5	12199	F35CW/U/3/W/M	12	14000	2200	2050	4100	60		\$	+	Ⓢ	1	102				
		35	22.5	12200	F35WW/U/3/W/M	12	14000	2300	2100	3000	52		\$	+	Ⓢ	1	102	Warm White			
T12 6" Spacing Watt-Miser®																					
T12	Medium Bi-Pin (G13)	35	22.5	12203	F35CW/U/6/W/M	12	14000	2300	2100	4100	60		\$	+	Ⓢ	1	102				
		35	22.5	14471	F35CW/U/6/W/M/UPC	12	14000	2300	2100	4100	60		\$	+	Ⓢ	1	102				
		35	22.5	23383	F35CW/U/6/W/M/C	6	14000	2300	2100	4100	60		\$	+	Ⓢ	1	102				
		35	22.5	12207	F35WW/U/6/W/M	12	14000	2350	2150	3000	52		\$	+	Ⓢ	1	102	Warm White			
T12 6" Spacing Watt-Miser® Ecolux®																					
T12	Medium Bi-Pin (G13)	35	22.5	15622	F35CW/U/6/W/M/ECO	12	18000	2600	2235	4100	62		\$	+	Ⓢ	1	102				
T12 Instant Start																					
T12	Single Pin (F8)	20	24.0	10691	F24T12/CW	24	7500	1050	900	4100	60							101			
		30	36.0 cm	10709	F36T12/CW	24	7500	2000	1800	4100	60								101		
		35	42.0	10735	F42T12/CW	24	7500	2400	2210	4100	60								101		
		40	48.0	15262	F48T12/SP35	24	9000	3000	2820	3500	73									101	
		40	48.0	15088	F48T12/SPK30	24	9000	3050	2870	3000	82	☞								101	
		40	48.0	15116	F48T12/SPK35	24	9000	3050	2870	3500	82	☞								101	
		40	48.0	10748	F48T12/CW	24	9000	2875	2650	4100	60									101	
		40	48.0	20461	F48T12/CW/UPC 6PK	24	9000	2875	2650	4100	60									101	
Watt-Miser® Energy Saving Lamps																					
T12	Single Pin (F8)	30	48.0	14319	F48T12/SP35/W/M	24	9000	2575	2420	3500	73	☞	\$	+			1	101			
		30	48.0	13048	F48T12/SP41/W/M	24	9000	2575	2420	4100	72	☞	\$	+			1	101			
		30	48.0	44967	F48T12/CW/W/M	24	9000	2475	2400	4100	60		\$	+			1	101			
8" T12 Instant Start																					
8" Instant Start Standard																					
T12	Single Pin (F8)	75	96.0	15357	F96T12SP30 15PK	15	12000	6500	6110	3000	70	☞				Ⓢ		101			
		75	96.0	14067	F96T12SP35 15PK	15	12000	6500	6110	3500	73	☞				Ⓢ		101			
		75	96.0	15358	F96T12/SP41 15PK	15	12000	6500	6110	4100	72	☞				Ⓢ		101			
		75	96.0	12127	F96T12/SP65	15	12000	6125	5760	6500	75	☞				Ⓢ		101			
		75	96.0	15110	F96T12SPK30 15PK	15	12000	6800	6390	3000	82	☞				Ⓢ		101			
		75	96.0	15101	F96T12SPK35 15PK	15	12000	6800	6390	3500	82	☞				Ⓢ		101			
		75	96.0	15335	F96T12SPK41 15PK	15	12000	6800	6390	4100	80	☞				Ⓢ		101			
		75	96.0	23466	F96T12/SPK50	15	12000	6250	5880	5000	80	☞				Ⓢ		101			
		75	96.0	14652	F96T12/DX	15	12000	4500	4050	6500	84	☞				Ⓢ		101	Daylight Deluxe		

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
8" T12 Instant Start (continued)																		
8" Instant Start XL Extra-life																		
T12	Single Pin (F8)	75	96.0	13725	F96T12/N/1SPK	15	12000	4250	3740	3700	90	Ⓔ					101	Natural
		75	96.0	13752	F96T12/C50	15	12000	4600	4050	5000	90	Ⓔ					101	Chroma 50
		75	96.0	11661	F96T12/XL/SP41	15	15000	6700	6180	4100	73	Ⓔ			Ⓔ		101	
		75	96.0	11664	F96T12/XL/SPX41	15	15000	6900	6370	4100	80	Ⓔ			Ⓔ		101	
Watt-Miser® Energy Saving Lamps																		
8" Instant Start Watt-Miser®																		
T12	Single Pin (F8)	60	96.0	14201	F96T12/SP30/WM/1SPK	15	12000	5700	5360	3000	70	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	13849	F96T12/SP35/WM/1SPK	15	12000	5700	5360	3500	73	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	21856	F96T12/SP35/WM/UPC	15	12000	5700	5360	3500	73	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	11217	F96T12/SP35/WM/C/10P	10	12000	5700	5360	3500	73	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	13758	F96T12/SP41/WM/1SPK	15	12000	5700	5360	4100	72	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	25171	F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60		\$	+	Ⓔ	1	101	
		60	96.0	12128	F96T12/SP65/WM	15	12000	5100	4800	6500	75	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	14629	F96T12/SPK30/WM/1SP	15	12000	6000	5640	3000	82	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	14630	F96T12/SPK35/WM/1SP	15	12000	6000	5640	3500	82	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	13756	F96T12/C50/WM/1SPK	15	12000	4000	3520	5000	90	Ⓔ	\$	+		1	101	Chroma 50
		60	96.0	13729	F96T12/CW/WM/1SPK	15	12000	5500	5060	4100	60		\$	+	Ⓔ	1	101	
		60	96.0	21713	F96T12/CW/WM/UPC/10PK	10	12000	5500	5060	4100	60		\$	+	Ⓔ	1	101	
		60	96.0	13742	F96T12/LW/WM/1SPK	15	12000	5800	5340	4200	49		\$	+	Ⓔ	1	101	Lite White
		60	96.0	13736	F96T12/LW/WM/1SPK	15	12000	5700	5240	3000	52		\$	+	Ⓔ	1	101	Warm White
8" Instant Start Watt-Miser® XL Extra-life																		
T12	Single Pin (F8)	60	96.0	12406	F96T12/XL/SP35/WM	15	15000	5900	5480	3500	75	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	12408	F96T12/XL/SP41/WM	15	15000	5900	5480	4100	73	Ⓔ	\$	+	Ⓔ	1	101	
8" Instant Start Watt-Miser® Ecolux®																		
T12	Single Pin (F8)	60	96.0	27233	F96T12/SP35/WM/ECO	15	12000	5700	5360	3500	73	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	27235	F96T12/SP41/WM/ECO	15	12000	5700	5360	4100	72	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	40373	F96T12/SP65/WM/ECO	15	12000	5100	4800	6500	75	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	27238	F96T12/SPK35/WM/ECO	15	12000	6000	5640	3500	82	Ⓔ	\$	+	Ⓔ	1	101	
		60	96.0	27186	F96T12/CW/WM/ECO	15	12000	5500	5060	4100	60		\$	+	Ⓔ	1	101	
T12 Other Lengths																		
5' T12 Instant Start																		
T12	Single Pin (F8)	50	60.0	23073	F60T12/CW/1SPK	15	12000	3600	3310	4100	60						101	
		50	60.0	23076	F60T12/D/1SPK	15	12000	3000	2760	6500	75	Ⓔ					101	Daylight
64" T12 Instant Start																		
T12	Single Pin (F8)	50	64.0	23082	F64T12/CW/1SPK	15	10000	3850	3540	4100	60						101	
		50	64.0	23085	F64T12/D/1SPK	15	10000	3300	3040	6500	75	Ⓔ					101	Daylight
6' T12 Instant Start																		
T12	Single Pin (F8)	55	72.0	15286	F72T12/SP35/1SPK	15	12000	4700	4420	3500	73	Ⓔ					101	
		55	72.0	15097	F72T12/SP41	15	12000	4700	4420	4100	72	Ⓔ					101	
		55	72.0	15117	F72T12/SPK30/1SPK	15	12000	4800	4510	3000	82	Ⓔ					101	
		55	72.0	15098	F72T12/SPK35/1SPK	15	12000	4800	4510	3500	82	Ⓔ					101	
		55	72.0	13743	F72T12/CW/1SPK	15	12000	4500	4140	4100	60						101	
		55	72.0	12525	F72T12/CW/UPC/10PK	10	12000	4500	4140	4100	60						101	
		55	72.0	13748	F72T12/D/1SPK	15	12000	3800	3500	6500	75	Ⓔ					101	Daylight
7' T12 Instant Start																		
T12	Single Pin (F8)	65	84.0	13764	F84T12/CW/1SPK	15	12000	5300	4880	4100	60						101	
T12 High Output (800mA) Rapid Start Recessed Double Contact																		
18" High Output																		
T12	Recessed Double Contact (R17d)	30	18.0	10204	F18T12/CW/HO	24	9000	1000	750	4100	60						101	
2' High Output																		
T12	Recessed Double Contact (R17d)	35	24.0	10261	F24T12/CW/HO	24	9000	1620	1345	4100	60						101	
		35	24.0	10275	F24T12/D/HO	24	9000	1400	1160	6500	74	Ⓔ					101	Daylight

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information		
T12 Lamps (continued)																				
T12 High Output (800mA) Rapid Start Recessed Double Contact (continued)																				
30" High Output																				
T12	Recessed Double Contact (R17d)	40	30.0	33707	F30T12/CW/HO	24	9000	2250	1950	4100	60						101			
3' High Output																				
T12	Recessed Double Contact (R17d)	45	36.0	10374	F36T12/CW/HO	24	9000	2800	2440	4100	60						101			
		45	36.0	10380	F36T12/D/HO	24	9000	2350	2040	6500	75	Ⓔ					101			
		45	36.0	10388	F36T12/SGN/HO	24	9000	2150	1830	5400	82	Ⓔ					101			
42" High Output																				
T12	Recessed Double Contact (R17d)	55	42.0	10559	F42T12/CW/HO	24	9000	3200	2790	4100	60						101			
		55	42.0	10560	F42T12/D/HO	24	9000	2900	2520	6500	74	Ⓔ					101	Daylight		
		55	42.0	10562	F42T12/SGN/HO	24	9000	2600	2215	5400	82	Ⓔ					101	Sign White		
4' High Output																				
T12	Recessed Double Contact (R17d)	60	48.0	15359	F48T12/SP30/HO	24	12000	4250	3830	3000	70	Ⓔ					101			
		60	48.0	15360	F48T12/SP35/HO	24	12000	4250	3830	3500	73	Ⓔ					101			
		60	48.0	15361	F48T12/SP41/HO	24	12000	4250	3830	4100	72	Ⓔ					101			
		60	48.0	15115	F48T12/SPK35/HO	24	12000	4350	3920	3500	82	Ⓔ					101			
		60	48.0	10773	F48T12/CW/HO	24	12000	3825	3320	4100	60						101			
		60	48.0	27313	F48T12/CW/HO/UFC	24	12000	4050	3520	4100	60						101			
		60	48.0	10778	F48T12/D/HO	24	12000	3400	2960	6500	75	Ⓔ					101	Daylight		
		60	48.0	10573	F48T12/SGN/HO	24	12000	3100	2640	5400	80	Ⓔ					101	Sign White		
4' High Output Watt-Miser® Energy Saving Lamps																				
T12	Recessed Double Contact (R17d)	55	48.0	15342	F48T12/SP35/HO/WM	24	12000	3850	3465	3500	73	Ⓔ	\$	+		1	101			
		55	48.0	11179	F48T12/LW/HO/WM	24	12000	3900	3390	4200	49		\$	+		1	101	Lite White		
5' High Output																				
T12	Recessed Double Contact (R17d)	75	60.0	23075	F60T12/CW/HO 15PK	15	12000	5150	4480	4100	60						101			
		75	60.0	23077	F60T12/D/HO 15PK	15	12000	4400	3830	6500	75	Ⓔ					101	Daylight		
		75	60.0	23081	F60T12/SGN/HO 15PK	15	12000	4000	3400	5400	82	Ⓔ					101	Sign White		
64" High Output																				
T12	Recessed Double Contact (R17d)	80	64.0	23083	F64T12/CW/HO/15PK	15	12000	5600	4870	4100	60						101			
		80	64.0	23087	F64T12/D/HO/15PK	15	12000	4750	4130	6500	75	Ⓔ					101	Daylight		
		80	64.0	23089	F64T12/SGN/HO/15PK	15	12000	4300	3660	5400	82	Ⓔ					101	Sign White		
6' High Output																				
T12	Recessed Double Contact (R17d)	85	72.0	15343	F72T12/SP30/HO/15PK	15	12000	6650	5990	3000	70	Ⓔ					101			
		85	72.0	15347	F72T12/SP35/HO/15PK	15	12000	6650	5990	3500	73	Ⓔ					101			
		85	72.0	15348	F72T12/SP41/HO/15PK	15	12000	6650	5990	4100	72	Ⓔ					101			
		85	72.0	15137	F72T12/SPK30/HO/15P	15	12000	6800	6120	3000	82	Ⓔ					101			
		85	72.0	15351	F72T12/SPK35/HO/15P	15	12000	6800	6120	3500	82	Ⓔ					101			
		85	72.0	13697	F72T12/CW/HO/15PK	15	12000	6350	5520	4100	60						101			
		85	72.0	13699	F72T12/D/HO/15PK	15	12000	5350	4650	6500	75	Ⓔ					101	Daylight		
		85	72.0	12527	F72T12/N/HO	10	12000	4300	3610	3700	90						101	Natural		
		85	72.0	13701	F72T12/SGN/HO/15PK	15	12000	4900	4170	5400	82	Ⓔ					101	Sign White		
		85	72.0	13702	F72T12/WM/HO/15PK	15	12000	6550	5700	3000	52						101	Warm White		
		7' High Output																		
		T12	Recessed Double Contact (R17d)	100	84.0	13766	F84T12/CW/HO/15PK	15	12000	7700	6700	4100	60						101	
100	84.0			13767	F84T12/D/HO/15PK	15	12000	6500	5660	6500	75	Ⓔ					101	Daylight		
100	84.0			13768	F84T12/SGN/HO/15PK	15	12000	6000	5100	5400	82	Ⓔ					101	Sign White		
8' High Output																				
T12	Recessed Double Contact (R17d)	110	96.0	15362	F96T12/SP30/HO/15PK	15	12000	9200	8280	3000	70	Ⓔ					101			
		110	96.0	15363	F96T12/SP35/HO/15PK	15	12000	9200	8280	3500	73	Ⓔ					101			
		110	96.0	15364	F96T12/SP41/HO/15PK	15	12000	9200	8280	4100	72	Ⓔ					101			
		110	96.0	12130	F96T12/SP65/HO	15	12000	8900	8010	6500	75	Ⓔ					101			
		110	96.0	15119	F96T12/SPK30/HO/15PK	15	12000	9350	8420	3000	82	Ⓔ					101			
		110	96.0	15352	F96T12SPK35HO15PK	15	12000	9350	8420	3500	82	Ⓔ					101			
		110	96.0	23020	F96T12/SPW41/HO/15PK	15	12000	9350	8420	4100	80	Ⓔ					101			
		110	96.0	13707	F96T12/C50/HO/15PK	15	12000	6750	5670	5000	90	Ⓔ					101	Chroma 50		
		110	96.0	14653	F96T12/DX/HO	15	12000	6600	5610	6500	84	Ⓔ					101	Daylight Deluxe		

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information	
T12 Lamps (continued)																			
T12 High Output (800mA) Rapid Start Recessed Double Contact (continued)																			
8' High Output Watt-Miser® Energy Saving Lamps																			
T12	Recessed Double Contact (R17d)	95	96.0	14069	F96T12/SP35/HQ/WM	15	12000	8350	7520	3500	73	☞	\$	→	⊙	1	101		
		95	96.0	13721	F96T12/SP41/HQ/WM15	15	12000	8350	7520	4100	72	☞	\$	→	⊙	1	101		
		95	96.0	12151	F96T12/SP65/HQ/WM	15	12000	7700	6930	6500	75	☞	\$	→	⊙	1	101		
		95	96.0	15120	F96T12/SPK30/HQ/WM	15	12000	8500	7650	3000	82	☞	\$	→	⊙	1	101		
		95	96.0	15122	F96T12/SPK35/HQ/WM	15	12000	8500	7650	3500	82	☞	\$	→	⊙	1	101		
		95	96.0	23069	F96T12/SPK41/HQ/WM	15	12000	8500	7650	4100	80	☞	\$	→	⊙	1	101		
		95	96.0	13716	F96T12/CW/HQ/WM/15PK	15	12000	8000	6960	4100	60		\$	→	⊙	1	101		
		95	96.0	21714	F96T12/CW/HQ/WM/UPC	15	12000	8000	6960	4100	60		\$	→	⊙	1	101		
		95	96.0	13720	F96T12/LW/HQ/WM	15	12000	8500	7900	4200	49		\$	→	⊙	1	101	Lite White	
		95	96.0	13719	F96T12/NW/HQ/WM/15PK	15	12000	8200	7130	3000	52		\$	→	⊙	1	101	Warm White	
8' High Output Watt-Miser® Ecolux®																			
T12	Recessed Double Contact (R17d)	95	96.0	16495	F96T12/CW/HQ/WM/ECO	15	12000	8000	6480	4100	60		\$	→	⊙	1	101		
T12 Very High Output (1500mA) Recessed Double Contact																			
T12	Recessed Double Contact (R17d)	110	48.0	10751	F48T12/CW/1500	24	10000	6200	4030	4100	60					4	101		
		165	72.0	13760	F72T12/CW/1500/15PK	15	10000	9000	6300	4100	60					4	101		
		185	96.0	13789	F96T12/CW/1500/WM/15PK	15	9000	12500	9380	4100	60		\$	→		4	101		
		215	96.0	13781	F96T12/CW/1500/15PK	15	10000	13500	10125	4100	60					4	101		
		215	96.0	13783	F96T12/D/1500/15PK	15	10000	11500	8630	6500	74	☞				4	101	Daylight	
T12 Preheat																			
15"																			
T12	Medium Bi-Pin (G13)	14	15.0	10116	F14T12/CW	24	9000	650	550	4100	60					101		Preheat	
		14	15.0	10117	F14T12/CW/6PK	24	9000	650	550	4100	60					101		Preheat	
		14	15.0	22979	F14T12/K8/6PK	24	9000	700	650	3000	70	☞				104		Preheat, Kitchen & Bath	
18"																			
T12	Medium Bi-Pin (G13)	15	18.0	10183	F15T12/CW/6PK	24	9000	760	685	4100	60					101		Preheat	
		15	18.0	22745	F15T12/K8/6PK	24	9000	785	730	3000	70	☞				104		Preheat, Kitchen & Bath	
		15	18.0	10185	F15T12/NW	24	9000	780	700	3000	52					101		Preheat	
24"																			
T12	Medium Bi-Pin (G13)	20	24.0	80048	F20T12/SP35/ECO	24	9000	1275	1200	3500	73	☞					101		Preheat
		20	24.0	15353	F20T12/SP41	24	9000	1275	1200	4100	72	☞					101		Preheat
		20	24.0	80049	F20T12/SPK35/ECO	24	9000	1300	1220	3500	82	☞					101		Preheat
		20	24.0	80044	F20T12/C50/ECO	24	9000	875	790	5000	90	☞					101		Preheat
		20	24.0	80045	F20T12/CW/ECO	24	9000	1200	1150	4100	60						101		Preheat
		20	24.0	80046	F20T12/CW/ECO/6PK	24	9000	1200	1150	4100	60						101		Preheat
		20	24.0	80047	F20T12/D/ECO	24	9000	1025	945	6500	75	☞					101		Preheat
		20	24.0	25575	F20T12/D/ECO/UPC	24	9000	1025	945	6500	75	☞					101		Preheat, Daylight
		20	24.0	21325	F20T12/K8/ECO	24	9000	1275	1200	3000	70	☞					104		Preheat, Kitchen & Bath
		20	24.0	14419	F20T12/SUN/ECO	24	9000	875	790	5000	90	☞					101		Preheat, Sunlight
		20	24.0	80050	F20T12/NW/ECO	24	9000	1250	1150	3000	52						101		Preheat, Warm White
		20	24.0	25577	F20T12/NW/ECO/UPC	24	9000	1250	1150	3000	52						101		Preheat, Warm White
Other Diameters																			
T6 Instant Start																			
T6	Single Pin (F8d)	25	42.0	12221	F42T6/SP35	24	7500	1830	1700	3500	73	☞					101		
		25	42.0	10720	F42T6/CW	24	7500	1750	1580	4100	60						101		
		25	42.0	10721	F42T6/NW	24	7500	1825	1640	3000	52						101		Warm White
		40	64.0	12223	F64T6/SP35	24	7500	2930	2720	3500	73	☞					101		
		40	64.0	10805	F64T6/CW	24	7500	2800	2520	4100	60						101		
T17	Mogul Bi-Pin (G20)	40	60.0	10575	F40T17/CW/IS	12	7500	2850	2620	4100	60			→		3	101	Use only w/ Instant Start Ballasts	

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information			
Other Diameters (continued)																					
Pg17 T17 Preheat																					
T17	Mogul Bi-Pin (G20)	82	60.0	43443	F90T17/CW/WM	12	9000	5750	5060	4100	60		\$	→		4	101				
		90	60.0	10643	F90T17/CW	12	9000	6000	5280	4100	60			→		4	101				
Power Groove Recessed Double Contact (1500mA)																					
PG17	Recessed Double Contact (R17d)	185	96.0	42666	F96PG17/CW/WM	8	12000	12700	9900	4100	60		\$	→		4	101				
		215	96.0	11009	F96PG17/CW	8	10000	14000	10915	4100	60			→		4	101				
		215	96.0	11018	F96PG17/D	8	10000	12100	9440	6500	74	☞				4	101	Daylight			
T9 Circul® Lamps																					
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	1000	825	4100	60						101				
		22	8.25	11026	FC8T9/D	12	12000	925	690	6500	75	☞					101	Daylight			
		22	8.25	11084	FC8T9/KB	6	12000	1400	1120	3000	82	☞					104	Kitchen & Bath			
		32	12.0	33890	FC12T9/CW	12	12000	1950	1460	4100	60						101				
		32	12.0	11039	FC12T9/D	12	12000	1675	1260	6500	75	☞					101	Daylight			
		32	12.0	11085	FC12T9/KB	6	12000	2400	1920	3000	82	☞					104	Kitchen & Bath			
		40	16.0	33893	FC16T9/CW	12	12000	2700	2030	4100	60						101				
		40	16.0	11052	FC16T9/D	12	12000	2250	1690	6500	75	☞					101	Daylight			
		Special Application Lamps																			
		covGuard® Shatter Resistant																			
		TS High Efficiency																			
TS	Miniature Bi-Pin (G5)	14	21.6	73194	F14W/TS/R30/ECO/CGV	40	20000	1310	1200	3000	85	☞					11, 13	103			
		14	21.6	73195	F14W/TS/R35/ECO/CGV	40	20000	1310	1200	3500	85	☞					11, 13	103			
		14	21.6	73196	F14W/TS/R41/ECO/CGV	40	20000	1310	1200	4100	85	☞					11, 13	103			
		14	21.6	73197	F14W/TS/R50/ECO/CGV	40	20000	1260	1155	5000	85	☞					11, 13	103			
		28	45.2	81546	F28W/TS/R30/ECO/CGV	40	20000	2813	2672	3000	85	☞					11, 13	103			
		28	45.2	81547	F28W/TS/R35/ECO/CGV	40	20000	2813	2672	3500	85	☞					11, 13	103			
		28	45.2	81548	F28W/TS/R41/ECO/CGV	40	20000	2813	2672	4100	85	☞					11, 13	103			
		28	45.2	81549	F28W/TS/R50/ECO/CGV	40	20000	2667	2534	5000	85	☞					11, 13	103			
		28	45.2	81550	F28W/TS/R65/ECO/CGV	40	20000	2319	2488	6500	85	☞					11, 13	103			
		TS High Output																			
		TS	Miniature Bi-Pin (G5)	24	21.6	71000	F24W/TS/R30/ECO/CGV	40	30000	1950	1853	3000	85	☞					11	103	Does not block UV
				24	21.6	70998	F24W/TS/R35/ECO/CGV	40	30000	1950	1853	3500	85	☞					11	103	Does not block UV
24	21.6			70997	F24W/TS/R41/ECO/CGV	40	30000	1950	1853	4100	85	☞					11	103	Does not block UV		
24	21.6			70999	F24W/TS/R50/ECO/CGV	40	30000	1850	1758	5000	85	☞					11	103	Does not block UV		
24	21.6			70996	F24W/TS/R65/ECO/CGV	40	30000	1800	1710	6500	85	☞					11	103	Does not block UV		
39	33.4			70995	F39W/TS/R30/ECO/CGV	40	30000	3400	3230	3000	85	☞					11	103	Does not block UV		
39	33.4			70994	F39W/TS/R35/ECO/CGV	40	30000	3400	3230	3500	85	☞					11	103	Does not block UV		
39	33.4			70993	F39W/TS/R41/ECO/CGV	40	30000	3400	3230	4100	85	☞					11	103	Does not block UV		
39	33.4			70991	F39W/TS/R50/ECO/CGV	40	30000	3250	3088	5000	85	☞					11	103	Does not block UV		
39	33.4			70990	F39W/TS/R65/ECO/CGV	40	30000	3250	3040	6500	85	☞					11	103	Does not block UV		
54	45.2			48433	F54TS/R30/HO/ECO/CGV	40	30000	4850	4560	3000	85	☞					11	103	Does not block UV		
54	45.2			48434	F54TS/R35/HO/ECO/CGV	40	30000	4850	4560	3500	85	☞					11	103	Does not block UV		
54	45.2			48458	F54TS/R41/HO/ECO/CGV	40	30000	4850	4560	4100	85	☞					11	103	Does not block UV		
54	45.2			80311	F54TS/R50/HO/ECO/CGV	40	30000	4650	4370	5000	85	☞					11	103	Does not block UV		
54	45.2			48469	F54TS/R65/HO/ECO/CGV	40	30000	4650	4320	6500	85	☞					11	103	Does not block UV		
TS High Output Watt-Miser®																					
TS	Miniature Bi-Pin (G5)			51	45.2	72985	F54TS/R30/WM/ECO/CGV	40	25000	4850	4560	3000	85	☞	\$	→		11	103	Does not block UV	
				51	45.2	72986	F54TS/R35/WM/ECO/CGV	40	25000	4850	4560	3500	85	☞	\$	→		11	103	Does not block UV	
		51	45.2	72987	F54TS/R41/WM/ECO/CGV	40	25000	4850	4560	4100	85	☞	\$	→		11	103	Does not block UV			
		51	45.2	72988	F54TS/R50/WM/ECO/CGV	40	25000	4650	4370	5000	85	☞	\$	→		11	103	Does not block UV			
		51	45.2	72989	F54TS/R65/WM/ECO/CGV	40	25000	4650	4320	6500	85	☞	\$	→		11	103	Does not block UV			
TS Preheat Lamps																					
TS	Miniature Bi-Pin (G5)	4	6.0	41435	F4TS/CW/CGV	24	5000	130	97	4100	60					11, 13	103				
		6	9.0	41106	F6TS/CW/CGV	24	5000	285	228	4100	60					11, 13	103				
		8	12.0	41107	F8TS/CW/CGV	24	5000	385	310	4100	60					11, 13	103				
		13	21.0	41108	F13TS/CW/CGV	24	5000	820	684	4100	60					11, 13	103				

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Special Application Lamps (continued)																		
covrGuard® Shatter Resistant (continued)																		
T6 Instant Start Lamps																		
T6	Single Pin (Fa8)	25	42.0	41140	F42T6/CW/CVG	24	7500	1690	1530	4100	60					11.13	103	
		25	42.0	41142	F42T6/SP35/CVG	24	7500	1770	1650	3500	73					11.13	103	
		25	42.0	41141	F42T6/MW/CVG	24	7500	1770	1590	3000	52					11.13	103	
		40	64.0	46422	F64T6/CW/CVG	24	7500	2710	2445	4100	60					11.13	103	
		40	64.0	41143	F64T6/SP35/CVG	24	7500	2840	2638	3500	73					11.13	103	
T8 Ecolux® w/ Starcoat®																		
2" T8 Ecolux® w/ Starcoat®																		
T8	Medium Bi-Pin (G13)	17	24.0	47417	F17T8SP30ECOCVG	24	20000	1280	1220	3000	78					11.13.18	103	
		17	24.0	15974	F17T8SP35ECOCVG	24	20000	1280	1220	3500	78					11.13.18	103	
		17	24.0	15977	F17T8SP41ECOCVG	24	20000	1280	1220	4100	78					11.13.18	103	
		17	24.0	11836	F17T8SPK30ECOCVG	24	20000	1310	1241	3000	85					11.13.18	103	
		17	24.0	15975	F17T8SPK35ECOCVG	24	20000	1310	1242	3500	86					11.13.18	103	
		17	24.0	15976	F17T8SPK41ECOCVG	24	20000	1310	1242	4100	86					11.13.18	103	
		17	24.0	28885	F17T8KLSPK50ECOCVG	24	24000	1310	1243	5000	86					11.13.18	103	
3" Ecolux® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	25	36.0	15978	F25T8SP30ECOCVG	24	20000	2020	1920	3000	78					11.13.18	103	
		25	36.0	15981	F25T8SP35ECOCVG	24	20000	2020	1920	3500	78					11.13.18	103	
		25	36.0	15984	F25T8SP41ECOCVG	24	20000	2020	1920	4100	78					11.13.18	103	
		25	36.0	15989	F25T8SPK30ECOCVG	24	20000	2080	1970	3000	86					11.13.18	103	
		25	36.0	15990	F25T8SPK35ECOCVG	24	20000	2080	1970	3500	86					11.13.18	103	
		25	36.0	15991	F25T8SPK41ECOCVG	24	20000	2080	1970	4100	86					11.13.18	103	
		25	36.0	28887	F25T8KLSPK50ECOCVG	24	24000	2080	1970	5000	86					11.13.18	103	
		25	36.0	72655	F25T8SPK65ECOCVG	24	20000	2080	1970	6500	86					11.13.18	103	
4" T8 (48") Ecolux® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	40803	F32T8SP30ECO/CVG	36	30000	2715	2580	3000	78				Ⓢ	11.13.18	103	
		32	48.0	40804	F32T8SP35ECO/CVG	36	30000	2715	2580	3500	78				Ⓢ	11.13.18	103	
		32	48.0	40812	F32T8SP41ECO/CVG	36	30000	2715	2580	4100	78				Ⓢ	11.13.18	103	
		32	48.0	18366	F32T8/SP50ECO/CVG	36	30000	2667	2532	5000	78				Ⓢ	11.13.18	103	
		40	48.0	18368	F32T8/SP65ECO/CVG	36	30000	2620	2488	6500	78				Ⓢ	11.13.18	103	
		32	48.0	41125	F32T8SPK30ECOCVG	36	30000	2860	2715	3000	86				Ⓢ	11.13.18	103	
		32	48.0	41126	F32T8SPK35ECOCVG	36	30000	2860	2715	3500	86				Ⓢ	11.13.18	103	
		32	48.0	41127	F32T8SPK41ECOCVG	36	30000	2860	2715	4100	86				Ⓢ	11.13.18	103	
4" T8 Ecolux® XL Extra-life w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	15972	F32T8KLSPK30ECOCVG	36	36000	2860	2715	3000	86				Ⓢ	11.13.18	103	
		32	48.0	15973	F32T8KLSPK35ECOCVG	36	36000	2860	2715	3500	86				Ⓢ	11.13.18	103	
		32	48.0	18369	F32T8KLSPK41ECOCVG	36	36000	2860	2715	4100	86				Ⓢ	11.13.18	103	
		32	48.0	23746	F32T8KLSPK50ECOCVG	36	36000	2715	2580	5000	86				Ⓢ	11.13.18	103	
Ultra Energy Saving T8 Lamps w/ covrGuard®																		
4" T8 Ecolux® 25 Watt Lamp																		
T8	Medium Bi-Pin (G13)	25	48.0	72812	F32T8/25WSPK30ECOCVG	36	40000	2328	2188	3000	85		\$	+	Ⓢ	1.11.13.18	103	
		25	48.0	72813	F32T8/25WSPK35ECOCVG	36	40000	2328	2188	3500	85		\$	+	Ⓢ	1.11.13.18	103	
		25	48.0	72814	F32T8/25WSPK41ECOCVG	36	40000	2328	2188	4100	82		\$	+	Ⓢ	1.11.13.18	103	
		25	48.0	72815	F32T8/25WSPK50ECOCVG	36	40000	2280	2143	5000	80		\$	+	Ⓢ	1.11.13.18	103	
4" T8 Ecolux® UltraMax® 28 Watt Lamp																		
T8	Medium Bi-Pin (G13)	28	48.0	73292	F28T8/MLSPK30ECO/CVG	36	36000	2643	2485	3000	85		\$	+	Ⓢ	1.11.13.18	103	
		28	48.0	73293	F28T8/MLSPK35ECO/CVG	36	36000	2643	2485	3500	85		\$	+	Ⓢ		103	
		28	48.0	73294	F28T8/MLSPK41ECO/CVG	36	36000	2643	2485	4100	82		\$	+	Ⓢ		103	
		28	48.0	73295	F28T8/MLSPK50ECO/CVG	36	36000	2546	2344	5000	80		\$	+	Ⓢ		103	
4" T8 Ecolux® Watt-Miser® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	30	48.0	40286	F30T8SP30ISWMCVG	36	30000	2765	2595	3000	84		\$	+	Ⓢ	1.11.13.18	103	
		30	48.0	40299	F30T8SP35ISWMCVG	36	30000	2765	2595	3500	83		\$	+	Ⓢ	1.11.13.18	103	
		30	48.0	40309	F30T8SP41ISWMCVG	36	30000	2765	2595	4100	81		\$	+	Ⓢ	1.11.13.18	103	
		30	48.0	47422	F30T8SP50ISWMCVG	36	30000	2568	2570	4100	80		\$	+	Ⓢ	1.11.13.18	103	

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

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information			
Special Application Lamps (continued)																					
Ultra Energy Saving T8 Lamps w/ covrGuard® (continued)																					
4" T8 Ecolux® Watt-Miser® XL Extra-Life w/Starcoat®																					
T8	Medium Bi-Pin (G13)	30	48.0	10023	F32T8KLSP30WMCVG	36	36000	2715	2545	3000	84	☞	\$	+	Ⓢ	11.13.18	103				
		30	48.0	40297	F32T8KLSP35WMCVG	36	36000	2715	2545	3500	83	☞	\$	+	Ⓢ	11.13.18	103				
		30	48.0	40310	F32T8KLSP41WMCVG	36	36000	2715	2545	4100	81	☞	\$	+	Ⓢ	11.13.18	103				
		30	48.0	47423	F32T8KLSP50WMCVG	36	36000	2619	2464	5000	80	☞	\$	+	Ⓢ	11.13.18	103				
4" T8 Ecolux® High Lumen XL Extra-Life w/Starcoat®																					
T8	Medium Bi-Pin (G13)	32	48.0	00267	F32T8KLSPK30HCVG	36	36000	3007	2228	3000	85	☞	\$		Ⓢ	11.13.18	103				
		32	48.0	00268	F32T8KLSPK35HCVG	36	36000	3007	2228	3500	85	☞	\$		Ⓢ	11.13.18	103				
		32	48.0	00269	F32T8KLSPK41HCVG	36	36000	3007	2228	4100	82	☞	\$		Ⓢ	11.13.18	103				
		32	48.0	80497	F32T8KLSPK50HCVG	36	36000	3910	2735		85	☞	\$		Ⓢ	11.13.18	103				
T8 Mod-U-Line® 6" Spacing																					
T8	Medium Bi-Pin (G13)	32	22.5	23655	F32T8/SP30U6/CVG	12	20000	2619	2488	3000	78	☞			Ⓢ	11.13	103				
		32	22.5	23656	F32T8/SP35U6/CVG	12	20000	2619	2488	3500	78	☞			Ⓢ	11.13	103				
		32	22.5	23657	F32T8/SP41U6/CVG	12	20000	2619	2488	4100	78	☞			Ⓢ	11.13	103				
		32	22.5	23658	F32T8/SPK30U6/CVG	12	20000	2716	2551	3000	86	☞			Ⓢ	11.13	103				
		32	22.5	23659	F32T8/SPK35U6/CVG	12	20000	2716	2551	3500	86	☞			Ⓢ	11.13	103				
		32	22.5	23660	F32T8/SPK41U6/CVG	12	20000	2716	2551	4100	86	☞			Ⓢ	11.13	103				
5" T8 w/Starcoat®																					
5" T8 (607) w/Starcoat®																					
T8	Medium Bi-Pin (G13)	40	60.0	41130	F40T8/SP35/CVG	24	20000	3490	3315	3500	75	☞				11.13	103				
		40	60.0	48092	F40T8/SP41/CVG	24	20000	3490	3315	4100	75	☞				11.13	103				
		40	60.0	14564	F40T8/SPK30/CVG	24	20000	3610	3250	3000	85	☞				11.13	103				
		40	60.0	41131	F40T8/SPK35/CVG	24	20000	3610	3250	3500	85	☞				11.13	103				
		40	60.0	47351	F40T8/SPK41/CVG	24	20000	3610	3250	4100	85	☞				11.13	103				
		T8 Instant Start w/Starcoat®																			
6" T8 (72") Instant Start																					
T8	Single Pin (F8)	35	72.0	41149	F72T8/CW/CVG	24	7500	2910	2640	4100	60					11.13	103				
8" T8 (96") Instant Start w/Starcoat®																					
T8	Single Pin (F8)	59	96.0	40094	F96T8/SP30/CVG	24	15000	5620	5335	3000	78	☞			Ⓢ	11.13	103				
		59	96.0	40095	F96T8/SP35/CVG	24	15000	5620	5335	3500	78	☞			Ⓢ	11.13	103				
		59	96.0	40096	F96T8/SP41/CVG	24	15000	5620	5335	4100	78	☞			Ⓢ	11.13	103				
		59	96.0	40099	F96T8/SPK30/CVG	24	15000	5770	5480	3000	86	☞			Ⓢ	11.13	103				
		59	96.0	40105	F96T8/SPK35/CVG	24	15000	5770	5480	3500	86	☞			Ⓢ	11.13	103				
		59	96.0	40106	F96T8/SPK41/CVG	24	15000	5770	5480	4100	86	☞			Ⓢ	11.13	103				
		59	96.0	48205	F96T8/SPK50/CVG	24	15000	5770	5480	5000	86	☞			Ⓢ	11.13	103				
		8" T8 High Output Lamps Recessed Double Contact w/Starcoat®																			
T8	Recessed Double Contact (R17d)	86	96.0	16822	F96T8/SP30HO/CVG	24	18000	7760	7370	3000	78	☞				11.12.13	103				
		86	96.0	40107	F96T8/SP35HO/CVG	24	18000	7760	7370	3500	78	☞				11.12.13	103				
		86	96.0	40108	F96T8/SP41HO/CVG	24	18000	7760	7370	4100	78	☞				11.12.13	103				
		86	96.0	16823	F96T8/SPK35HO/CVG	24	18000	7954	7566	3500	86	☞				11.12.13	103				
		86	96.0	42022	F96T8/SPK41HO/CVG	24	18000	7954	7566	4100	86	☞				11.12.13	103				
		86	96.0	81563	F96T8/SPK50HO/CVG	24	18000	7954	7566	5000	86	☞				11.12.13	103				
T8 Preheat Lamps																					
T8	Medium Bi-Pin (G13)	13	12.0	41109	F13T8/CW/CVG	24	7500	545	465	4100	60						11.13	103	Preheat		
		15	18.0	41110	F15T8/CW/CVG	24	7500	800	700	4100	60							11.13	103	Preheat	
		15	18.0	46627	F15T8/K9/CVG/UPC	24	7500	910	825	3000	70	☞						11.13	103	Preheat, Kitchen & Bath	
		15	18.0	46216	F15T8/SP35/CVG	24	7500	910	825	3500	75	☞							11.13	103	Preheat
		15	18.0	41111	F15T8/SPK35/CVG	24	7500	970	870	3500	82	☞							11.13	103	Preheat
		18	24.0	41117	F24T8/CW/IA/CVG	6	7500	1180	1000	4100	60								11.13	103	Preheat
		19	28.0	41121	F28T8/CW/IA/CVG	6	7500	1300	1110	4100	60								11.13	103	Preheat
		30	36.0	41122	F30T8/CW/CVG	24	7500	2100	1920	4100	60								11.13	103	Preheat
		30	36.0	46206	F30T8/SPK30/CVG	24	7500	2230	2070	3000	82	☞							11.13	103	Preheat

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information	
Special Application Lamps (continued)																			
T12 Rapid Start Lamps																			
3" Ecolux® T12 (S67)																			
T12	Medium Bi-Pin (G13)	30	36.0	80486	F30T12CW/RS/ECO/CVG	24	18000	2130	1850	4100	60					1113	103		
		30	36.0	80987	F30T12SPK30/ECO/CVG	24	18000	2300	2070	3000	60					1113	103		
		30	36.0	80487	F30T12SPK35/ECO/CVG	24	18000	2300	2070	3500	82					1113	103		
		30	36.0	80986	F30T12SP35/ECO/CVG	24	18000	2280	2050	3500	73					1113	103		
4" T12 Ecolux® Rapid Start Watt-Miser® Lamps (487)																			
T12	Medium Bi-Pin (G13)	40	48.0	80495	F40CW/ECO/CVG	30	20000	2950	2600	4100	70					1113	103		
		40	48.0	80992	F40CW/ECO/CVG/6PK	6	20000	2950	2600	4100	70					1113	103		
		40	48.0	80995	F40K8/ECO/CVG/6PK	24	20000	3290	2990	3000	70					Ⓢ	1113	103	Kitchen & Bath
		40	48.0	80988	F40SP30/ECO/CVG	30	20000	3150	2860	3000	70					Ⓢ	1113	103	
		40	48.0	80989	F40SP35/ECO/CVG	30	20000	3100	2820	3500	73					Ⓢ	1113	103	
		40	48.0	80990	F40SP65/ECO/CVG	30	20000	2950	2690	6500	75					Ⓢ	1113	103	
		40	48.0	80493	F40SPK30/ECO/CVG	30	20000	3290	2990	3000	82					Ⓢ	1113	103	
		40	48.0	80494	F40SPK35/ECO/CVG	30	20000	3290	2990	3500	82					Ⓢ	1113	103	
		40	48.0	80991	F40SPK41/ECO/CVG	30	20000	3240	2950	4100	80					Ⓢ	1113	103	
		40	48.0	80993	F40D/ECO/CVG	30	20000	2480	2170	6500	75					Ⓢ	1113	103	Daylight
		40	48.0	80994	F40DX/ECO/CVG	30	20000	2180	1850	6500	84					Ⓢ	1113	103	Daylight Deluxe
		40	48.0	80996	F40N/ECO/CVG	30	20000	2030	1680	3700	90						1113	103	Natural
		40	48.0	80496	F40C/50/ECO/CVG	30	20000	2180	1810	5000	90						1113	103	Chroma 50
		40	48.0	41133	F40C75/CVG	30	20000	1890	1630	7500	92						1113	103	Chroma 75, non-TCLP Compliant
		34	48.0	80489	F34SP35WM/ECO/CVG	30	20000	2660	2400	3500	73			\$	+	Ⓢ	1113	103	
		34	48.0	80490	F34SP41WM/ECO/CVG	30	20000	2660	2400	4100	72			\$	+	Ⓢ	1113	103	
		34	48.0	80491	F34SPK41WM/ECO/CVG	30	20000	2820	2530	4100	80			\$	+	Ⓢ	1113	103	
		34	48.0	80488	F34WRSWM/ECO/CVG	30	20000	2620	2250	3000	52			\$	+	Ⓢ	1113	103	Warm White
		34	48.0	71262	F34D/RSWM/ECO/CVG	30	20000	1890	1570	6500	84			\$	+	Ⓢ	1113	103	Daylight Deluxe
		34	48.0	80492	F34LW/RSWM/ECO/CVG	30	20000	2730	2350	4100	49			\$	+	Ⓢ	1113	103	Lite White
		34	48.0	40805	F34CWRSM/ECO/CVG	30	20000	2570	2210	4100	60			\$	+	Ⓢ	1113	103	
		34	48.0	41138	F34SPK30RSWM/ECO/CVG	30	20000	2810	2530	3000	82			\$	+	Ⓢ	1113	103	
		34	48.0	41139	F34SPK35RSWM/ECO/CVG	30	20000	2810	2530	3500	82			\$	+	Ⓢ	1113	103	
T12 Instant Start																			
T12	Single Pin (F8)	20	24.0	47342	F24T12/CW/CVG	24	7500	870	785	4100	60					1113	103		
		40	48.0	40127	F48T12/CW/CVG	24	9000	2780	2560	4100	60					1113	103		
		40	48.0	48091	F48T12/SP35/CVG	24	9000	2910	2730	3500	73					1113	103		
		40	48.0	41144	F48T12/SPK35/CVG	24	9000	2950	2780	3500	82					1113	103		
		50	60.0	41147	F60T12/CW/CVG	15	12000	3490	3210	4100	60					1113	103		
		55	72.0	46213	F72T12/SP35/CVG	15	12000	4550	4280	3500	73					1113	103		
		55	72.0	41151	F72T12/SPK30/CVG	15	12000	4650	4370	3000	82					1113	103		
		55	72.0	41153	F72T12/SPK35/CVG	15	12000	4650	4370	3500	82					1113	103		
		75	96.0	40117	F96T12/CW/CVG	15	12000	5960	5480	4100	60					1113	103		
		75	96.0	46215	F96T12/SP35/CVG	15	12000	6300	5920	3500	73					Ⓢ	1113	103	
		75	96.0	41157	F96T12/SPK30/CVG	15	12000	6590	6190	3000	82					Ⓢ	1113	103	
		75	96.0	41158	F96T12/SPK35/CVG	15	12000	6590	6190	3500	82					Ⓢ	1113	103	
T12	Single Pin (F8)	75	96.0	41159	F96T12/SPK41/CVG	15	12000	6590	6190	4100	80				Ⓢ	1113	103		
		75	96.0	41973	F96T12/DX/CVG	15	12000	4360	3920	6500	84				Ⓢ	1113	103	Daylight Deluxe	
		75	96.0	46208	F96T12/C50/CVG	15	12000	4460	3920	5000	90				Ⓢ	1113	103	Chroma 50	
T12 Instant Start - Watt-Miser® Energy Saving Lamps																			
8" T12 Rapid Start Watt-Miser® Lamps (967)																			
T12	Single Pin (F8)	58	96.0	45993	F96T12SP35WM/CVG	15	12000	5520	5190	3500	75		\$	+	Ⓢ	1113	103		
		60	96.0	40115	F96T12/CW/WM/CVG	15	12000	5330	4910	4100	60		\$	+	Ⓢ	1113	103		
		60	96.0	40124	F96T12SP35WM/CVG	15	12000	5520	5200	3500	73		\$	+	Ⓢ	1113	103		
8" T12 Ecolux® Rapid Start Watt-Miser® Lamps (967)																			
T12	Single Pin (F8)	60	96.0	40807	F96T12CW/WM/ECO/CVG	15	12000	5330		4100	60		\$	+	Ⓢ	1113	103		

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Special Application Lamps (continued)																			
T12 Mod-U-Line® 6" Spacing																			
T12	Medium Bi-Pin (G13)	40	22.5	23661	F40/SP30/U6/CVG	12	14000	2959	2697	3000	70				Ⓢ	11.13	103		
		40	22.5	23662	F40/SP35/U6/CVG	12	14000	2959	2697	3500	73				Ⓢ	11.13	103		
		35	22.5	23664	F35CW/ECO/CVUPC	12	14000	2522	2169	4100	60				Ⓢ	11.13	103		
T12 Preheat																			
T12	Medium Bi-Pin (G13)	15	18.0	41114	F15T12/CW/CVG	24	9000	735	660	4100	60						11.13	103	Preheat
		20	24.0	46377	F20T12/C50/CVG	24	9000	845	765	5000	90						11.13	103	Preheat, Chroma 50
		20	24.0	40125	F20T12/CW/CVG	24	9000	1160	1110	4100	60						11.13	103	Preheat
		20	24.0	41000	F20T12CW/CVG/UPC	24	9000	1160	1110	4100	60						11.13	103	Preheat, UPC
		20	24.0	46622	F20T12/KBCV/GUPC	24	9000	1230	1160	3000	70						11.13	103	Preheat, Kitchen & Bath, UPC
		20	24.0	46218	F20T12/SP35/CVG	24	9000	1230	1160	3500	73						11.13	103	Preheat
		20	24.0	41116	F20T12SPK35/CVG	24	9000	1260	1180	3500	82						11.13	103	Preheat
		25	33.0	41120	F25T12/WW/33/CVG	24	7500	1850	1160	3000	52						11.13	103	Preheat, Warm White
T12 High Output Lamps Recessed Double Contact																			
T12	Recessed Double Contact (R17d)	35	24.0	48990	F24T12/CW/HO/CVG	24	9000	1570	1300	4100	60						11.12,13	103	
		60	48.0	40129	F48T12/CW/HO/CVG	24	12000	3930	3410	4100	60						11.12,13	103	
		60	48.0	41146	F48T12SPK35/HO/CVG	24	12000	4220	3800	3500	82						11.12,13	103	
		60	48.0	41969	F48T12/D/HO/CVG	24	12000	3290	2870	6500	75						11.12,13	103	Daylight
		75	60.0	41148	F60T12/CW/HO/CVG	15	12000	4990	4340	4100	60						11.12,13	103	
		85	72.0	40811	F72T12/CW/HO/CVG	15	12000	6150	5350	4100	60						11.12,13	103	
		85	72.0	46207	F72T12SP35/HO/CVG	15	12000	6450	5810	3500	73						11.12,13	103	
		85	72.0	41152	F72T12SPK30/HO/CVG	15	12000	6590	5930	3000	82						11.12,13	103	
		85	72.0	41154	F72T12SPK35/HO/CVG	15	12000	6590	5930	3500	82						11.12,13	103	
		85	72.0	48994	F72T12/N/HO/CVG	10	12000	4170	3500	3700	90						11.12,13	103	Natural
		100	84.0	41156	F84T12/CW/HO/CVG	15	12000	7460	6490	4100	60						11.12,13	103	
		110	96.0	40808	F96T12CW/HO/CVG	15	12000	8630	7500	4100	60						11.12,13	103	
		110	96.0	46210	F96T12SP35/HO/CVG	15	12000	8920	8030	3500	73					Ⓢ	11.12,13	103	
		110	96.0	45264	F96T12SP65/HO/CVG	15	12000	8630	7760	6500	75					Ⓢ	11.12,13	103	
		110	96.0	41160	F96T12SPK30/HO/CVG	15	12000	9070	8160	3000	82					Ⓢ	11.12,13	103	
		110	96.0	41161	F96T12SPK35/HO/CVG	15	12000	9070	8160	3500	82					Ⓢ	11.12,13	103	
		110	96.0	41162	F96T12SPW1/HO/CVG	15	12000	9070	8160	4100	80					Ⓢ	11.12,13	103	
		110	96.0	46424	F96T12/D/HO/CVG	15	12000	7370	6410	6500	75					Ⓢ	11.12,13	103	Daylight
		110	96.0	46430	F96T12/DX/HO/CVG	15	12000	6400	5440	6500	84					Ⓢ	11.12,13	103	Daylight Deluxe
		T12 High Output Lamps Recessed Double Contact - Watt-Miser® Energy Saving Lamps																	
T12	Recessed Double Contact (R17d)	95	96.0	40116	F96T12CW/HO/MV/CVG	15	12000	7760	6750	4100	60		\$	+	Ⓢ	1.11,12,13	103		
		95	96.0	40118	F96T12SP35HO/MV/CVG	15	12000	8090	7290	3500	73		\$	+	Ⓢ	1.11,12,13	103		
		95	96.0	40123	F96T12SP4/HO/MV/CVG	15	12000	8090	7290	4100	72		\$	+	Ⓢ	1.11,12,13	103		
		95	96.0	16821	F96T12CW/HO/MV/ECV/CVG	15	12000	7760	6285	4100	60		\$	+	Ⓢ	1.11,12,13	103		
Germicidal covGuard®																			
T8																			
T8	Medium Bi-Pin (G13)	15	18.0	72761	G15T8/CVG	24	7500										9	106	
		25	18.0	72762	G25T8/CVG	24	7500										9	106	
		30	36.0	72763	G30T8/CVG	24	7500										9	106	
		55	36.0	72764	G55T8/HO/CVG	24	8000										9	106	
Blacklight covGuard®																			
T8																			
T8	Medium Bi-Pin (G13)	15	18.0	72939	F15T8BL/CVG 6PK	6	7500										8	105	
		15	18.0	72940	F15T8BLBL/CVG 6PK	6	7500										8	105	
T12																			
T12	Medium Bi-Pin (G13)	20	24.0	72941	F20T12BL/CVG 6PK	6	9000										8	105	
		20	24.0	72942	F20T12BLBL/CVG 6PK	6	9000										8	105	
		40	48.0	72943	F40T12BL/CVG 6PK	6	20000										8	105	
		40	48.0	72944	F40T12BLBL/CVG 6PK	6	20000										8	105	
Cold Temperature Lamps																			
T5																			
T5	Miniature Bi-Pin (G5)	54	45.2	81521	F54T5/B35/CT	36	30000	4500	4275	3500	86						11.13,17	101	Plastic Jacket
		54	45.2	81522	F54T5/B41/CT	36	30000	4500	4275	4100	86						11.13,17	101	Plastic Jacket

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Cold Temperature Lamps (continued)																		
T8																		
T8	Medium Bi-Pin (G13)	58	60.0	16148	F58T8/R35/CT	24	20000	4680	4450	3500	85	☞				11.13.17	101	Plastic Jacket
		58	60.0	23752	F58T8/R41/CT	24	20000	4680	4450	4100	85	☞				11.13.17	101	Plastic Jacket
		70	72.0	16149	F70T8/R35/CT	18	20000	5670	5386	3500	85	☞				11.13.17	101	Plastic Jacket
		70	72.0	23754	F70T8/R41/CT	18	20000	5670	5386	4100	85	☞				11.13.17	101	Plastic Jacket
High Output (800mA) Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	60	48.0	45976	F48T12/CW/HO-AT	12	12000	3710	3220	4100	60					11.13.17	101	Plastic Jacket w/ Vent Holes
		75	60.0	47353	F60T12/CW/HO-CT	12	12000	4990	4340	4100	60					11.13.17	101	Plastic Jacket
		85	72.0	47346	F72T12SP35/HO-CT	8	12000	6450	5810	3500	73	☞				11.13.17	101	Plastic Jacket
		85	72.0	48095	F72T12SPK35/HO-CT	8	12000	6590	5930	3500	82	☞				11.13.17	101	Plastic Jacket
		85	72.0	46199	F72T12/CW/HO-AT	8	12000	6150	5350	4100	60					11.13.17	101	Plastic Jacket w/ Vent Holes
		110	96.0	45979	F96T12SP35/HO-CT	8	12000	8920	8030	3500	73	☞				11.13.17	101	Plastic Jacket
		110	96.0	45912	F96T12/CW/HO-AT	8	12000	8630	7500	4100	60					11.13.17	101	Plastic Jacket w/ Vent Holes
		110	96.0	11918	F96T12/CW/HO/CT	15	12000	8900	7740	4100	60					11.13.17	101	Plastic Jacket
		110	96.0	11919	F96T12/D/HO/CT	15	12000	7600	6610	6500	75	☞				11.13.17	101	Plastic Jacket
T10 Very High Output (1500mA) Recessed Double Contact																		
T10	Recessed Double Contact (R17d)	110	48.0	10742	F48T10/CW	24	9000	6200		4100	60					4	101	
		110	48.0	46196	F48T10/CW-CT	12	9000	6010		4100	60					4.13.17	101	Plastic Jacket
		135	60.0	17135	F60T10/SP30	24	6000	8500		3000	70	☞				4	101	
		135	60.0	39157	F60T10/CW	24	6000	7000		4100	60					4	101	
		135	60.0	13002	F60T10/CW 6PK	6	6000	7000		4100	60					4	101	
		135	60.0	46197	F60T10/CW-CT	12	6000	6790		4100	60					4.13.17	101	Plastic Jacket
		160	72.0	13776	F72T10/CW 15PK	15	9000	9700		4100	60					4	101	
		160	72.0	46198	F72T10/CW-CT	8	9000	9400		4100	60					4.13.17	101	Plastic Jacket
T12 Very High Output (1500mA) Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	110	48.0	34206	F48T12/CW/1500/0	24	10000	7000		4100	60					4	101	
		110	48.0	46195	F48T12/CW/VHO/CT	12	10000	6790		4100	60					4.15.17	101	Plastic Jacket
		170	72.0	13762	F72T12CW1500/0	15	10000	10800		4100	60					4	101	
		170	72.0	46200	F72T12CW/VHO/CT	8	10000	10470		4100	60					4.15.17	101	Plastic Jacket
		220	96.0	13788	F96T12/CW/1500/0	15	10000	14400		4100	60					4	101	
		220	96.0	46202	F96T12CW/VHO-CT	8	10000	13960		4100	60					4.15.17	101	Plastic Jacket
Appliance Lamps																		
T8																		
T8	Medium Bi-Pin (G13)	18	22.0	10257	F22T8/D/4	24	7500	925	790	6500	75	☞					101	Daylight
		18	24.0	17705	F24T8/CW/4 6PK	24	7500	1225	1040	4100	60						101	
		19	26.0	10702	F26T8/CW/4	24	7500	1275	1085	4100	60						101	
		19	26.0	38199	F26T8/CW/4 6PK	24	7500	1275	1085	4100	60						101	
		19	28.0	17704	F28T8/CW/4 6PK	24	7500	1350	1145	4100	60						101	
		19	30.0	10349	F30T8/CW/4	24	7500	1375	1170	4100	60						101	
T12																		
T12	Medium Bi-Pin (G13)	21	30.0	10355	F30T12/CW	24	7500	1350	1220	4100	60						101	
		25	28.0	10282	F25T12CW/28 6PK	24	7500	1550	1390	4100	60						101	
		25	28.0	10286	F25T12/D/28	24	7500	1450	1310	6500	75	☞					101	Daylight
		25	33.0	38201	F25T12/CW/33 6PK	24	7500	1860	1675	4100	60						101	
		25	33.0	10299	F25T12/D/33	24	7500	1600	1440	6500	75	☞					101	Daylight
		25	33.0	10293	F25T12/WW/33	24	7500	1910	1720	3000	52						101	Warm White
Blacklight/Blacklight Blue Lamps																		
Blacklight																		
T8	Medium Bi-Pin (G13)	15	18.0	35884	F15T8/BL 6PK	24	7500									8	105	Blacklight, UVA Source
T12	Medium Bi-Pin (G13)	20	24.0	10244	F20T12/BL 6PK	24	9000									8	105	Blacklight, UVA Source
		40	22.5	40537	F40BL/U/3	12	14000									8	105	Blacklight, UVA Source, Mod-U-Line®, 3-5/8 Spacing Between Legs
		40	48.0	10526	F40BL 6PK	24	20000									8	105	Blacklight, UVA Source

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Blacklight/Blacklight Blue Lamps (continued)																		
Blacklight Blue																		
T5	Miniature Bi-Pin (G5)	4	6.0	10019	F4T5/BL8	24	5000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		8	12.0	10077	F8T5/BL8	24	5000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T8	Medium Bi-Pin (G13)	15	18.0	35885	F15T8/BL8 6PK	24	7500									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9	4-Pin (G10q)	22	8.25	25665	FC8T9/BL8	6	12000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium Bi-Pin (G13)	20	24.0	34747	F20T12/BL8 6PK	24	9000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		40	48.0	10531	F40BL8 6PK	24	20000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
Colored Lamps																		
T8																		
T8	Medium Bi-Pin (G13)	32	48.0	15992	F32T8/B/65ECOCVG	36	20000										103	Sleeved Rosco Blue 65
		32	48.0	15993	F32T8/G/89ECOCVG	36	20000										103	Sleeved Rosco Green 89
		32	48.0	15994	F32T8/R/24ECOCVG	36	20000										103	Sleeved Rosco Red 24
T12																		
T12	Medium Bi-Pin (G13)	40	48.0	10514	F40B 6PK	24	20000										101	Phosphor Blue
		40	48.0	10517	F40G 6PK	24	20000										101	Phosphor Green
		40	48.0	81003	F40T12/R24ECOCVG	30	20000										103	Sleeved Rosco Red 24
		40	48.0	81001	F40T12/B65ECOCVG	30	20000										103	Sleeved Rosco Blue 65
		40	48.0	81002	F40T12/G89ECOCVG	30	20000										103	Sleeved Rosco Green 89
		40	48.0	81002	F40T12/G89ECOCVG	30	20000										103	Sleeved Rosco Green 89
Preheat																		
T12	Medium Bi-Pin (G13)	20	24.0	48259	F20T12/R/24/CVG	24	9000										103	Sleeved Rosco Red 24
		20	24.0	48260	F20T12/B/65/CVG	24	9000										103	Sleeved Rosco Blue 65
		20	24.0	48261	F20T12/G/89/CVG	24	9000										103	Sleeved Rosco Green 89
		20	24.0	10231	F20T12/B 6PK	24	9000										101	Phosphor Blue
		20	24.0	10233	F20T12/G 6PK	24	9000										101	Phosphor Green
Gold Lamps																		
T5																		
T5	Miniature Bi-Pin (G5)	28	45.2	25768	F28T5/GO/CVG	40	20000	1986	1946								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T8																		
T8	Medium Bi-Pin (G13)	17	24.0	25779	F17T8/GO/ECOCVG	24	15000	970	950								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		25	36.0	25783	F25T8/GO/ECOCVG	24	15000	1590	1558								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		32	48.0	25784	F32T8/GO/ECOCVG	36	15000	2280	2235								103	Gold Sleeved, Blocks UV and Deep Blue Emissions

Fluorescent Lamps

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

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Plant and Aquarium/Terrarium Lamps (continued)																		
T8 (continued)																		
36" T8 Lamps																		
T8	Medium Bi-Pin (G13)	30	36.0	41374	F30T8/AR/FR 6PK	24	7500	675		4000	92						104	Aquarium Lamp Freshwater
		30	36.0	40904	F30T8/AR/FS/6PK	24	7500	1400		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		30	36.0	41376	F30T8/AR/SA 6PK	24	7500	315		10000	62						104	Aquarium Lamp Saltwater
T12																		
24" T12 Lamps																		
T12	Medium Bi-Pin (G13)	20	24.0	22908	F20T12/AR/FR 6PK	24	9000	600		4000	92						104	Aquarium Lamp Freshwater
		20	24.0	22911	F20T12/AR/FS 6PK	24	9000	950		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		20	24.0	22922	F20T12/AR/SA 6PK	24	9000	270		10000	62						104	Aquarium Lamp Saltwater
		20	24.0	49891	F20T12/PL/AQ/ECO	24	9000	750		3100	90						104	Plant & Aquarium Wide Spectrum
		20	24.0	22905	F20T12/SR 6PK	24	9000	875		5000	90						104	Aquarium/Terrarium Lamp
36" T12 Lamps																		
T12	Medium Bi-Pin (G13)	30	36.0	41378	F30T12/SR 6PK	24	18000	1100		5000	90						104	Aquarium/Terrarium Lamp
48" T12 Lamps																		
T12	Medium Bi-Pin (G13)	40	48.0	22909	F40T12/AR/FR 6PK	24	9000	1425		4000	92						104	Aquarium Lamp Freshwater
		40	48.0	22914	F40T12/AR/FS 6PK	24	9000	2350		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		40	48.0	22923	F40T12/AR/SA 6PK	24	9000	700		10000	62						104	Aquarium Lamp Saltwater
		40	48.0	49893	F40PL/AQ/ECO	24	20000	1900		3100	90						104	Plant & Aquarium Wide Spectrum
		40	48.0	22906	F40T12/SR 6PK	24	20000	2250		5000	90						104	Aquarium/Terrarium Lamp
Export Outside U.S. and Canada Only																		
T12	Medium Bi-Pin (G13)	40	22.5	14496	F40CW/U6/EX	12	14000	2800	2460	4100	60						102	6" Spacing Between Legs
		40	22.5	14498	F40D/U6/EX	12	14000	2350	2070	6500	75						102	Daylight, 6" Spacing Between Legs
		40	48.0	14656	F40CW/EX-30PK	30	20000	3050	2680	4100	60						101	
		40	48.0	14488	F40D/EX	30	20000	2550	2240	6500	75						101	Daylight
T12	Single Pin (Fa8)	75	96.0	12541	F96T12CW/EX-15PK	15	12000	6150	5660	4100	60						101	Daylight
		75	96.0	12543	F96T12/D/EX-15PK	15	12000	5250	4330	6500	75						101	Daylight
T12	Recessed Double Contact (R17d)	110	96.0	12540	F96T12CW/HO/EX	15	12000	8900	7740	4100	60						101	Daylight
		110	96.0	12542	F96T12D/HO/EX-15	15	12000	7600	6610	6500	75						101	Daylight
Consumer Products																		
T8																		
4" T8																		
T8	Medium Bi-Pin (G13)	32	48.0	15900	F32T8SP30ECO/UPC	36	20000	2800	2660	3000	78						101	
		32	48.0	15903	F32T8SP35ECO/UPC	36	20000	2800	2660	3500	78						101	
		32	48.0	11873	F32T8SP35ECO/2PK	12	20000	2800	2660	3500	78						101	
		32	48.0	15909	F32T8SP41ECO/UPC	36	20000	2800	2660	4100	78						101	
		32	48.0	15904	F32T8/SP41/ECO/C	12	20000	2800	2660	4100	78						101	
		32	48.0	16263	F32T8/RES/ECO/2PK	12	20000	2650	2385	4100	78						101	
		32	48.0	31231	F32T8/RES/ECO/2PK	24	15000	2650	2385	4100	78						101	
		32	48.0	49356	F32T8/KB/ECO/2PK	6	20000	2800	2660	4100	78						104	Kitchen & Bath
		32	48.0	49357	F32T8/KB/ECO/2PK-24	24	20000	2800	2660	3000	78						104	Kitchen & Bath
		32	48.0	29566	F32T8/D/ECO/2PK	24	20000	2700	2565	3000	78						101	Daylight
		32	48.0	87783	F32T8/D/ECO/2PK	6	20000	2700	2565	6500	78						101	Daylight
		8" T8																
T8	Single Pin (Fa8)	59	96.0	10401	F96T8/SP41/UPC	24	15000	5800	5500	4100	78						101	

Fluorescent Lamps

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Consumer Products (continued)																		
T12																		
4' F40 Ecolux® Standard																		
T12	Medium Bi-Pin (G13)	40	48.0	23382	F40SP4/ECO/C	10	20000	3200	2910	4100	72	☞			Ⓢ		101	
		40	48.0	25400	F40SP65/ECO/UPC	30	20000	3050	2775	6500	75	☞			Ⓢ		101	
		40	48.0	25399	F40CS0/ECO/UPC	30	20000	2250	1870	5000	90	☞					101	Chroma 50
		40	48.0	16083	F40D/ULTRA/ECO2PK	9	20000	3050	2775	6500	75	☞			Ⓢ		101	Daylight Ultra
		40	48.0	13969	F40D/ULTRA/ECO6P	24	20000	3050	2775	6500	75	☞			Ⓢ		101	Daylight Ultra
		40	48.0	40333	F40/KB/ECO/ 2PK	9	20000	3400	3090	3000	70	☞			Ⓢ		104	Kitchen & Bath
		40	48.0	21323	F40KB/ECO 6PK	24	20000	3400	3090	3000	70	☞			Ⓢ		104	Kitchen & Bath
		40	48.0	12224	F40/SUN/ECO/6PK	24	20000	2250	1870	5000	90	☞					101	Sunlight
		40	48.0	10949	F40/RES/ECO/L3P	9	20000	3200	2910	4100	72	☞			Ⓢ		101	
		40	48.0	14440	F40/RES/ECO/SLV	30	15000	3150	2860	4100	72	☞			Ⓢ		101	
		40	48.0	14433	F40/RES/ECO/SLV6	24	15000	3150	2860	4100	72	☞			Ⓢ		101	
		40	48.0	14441	F40/RES/ECO/TWIN9	9	15000	3150	2860	4100	72	☞			Ⓢ		101	
		40	48.0	48510	F40/RES/ECO/TWIN-15PK	15	15000	3150	2860	4100	72	☞			Ⓢ		101	
4' Ecolux® Utility Shoplight																		
T12	Medium Bi-Pin (G13)	25	48.0	14445	F4825/U/TECOUPC	30	12000	1860	1675	4100	60					10	101	
		25	48.0	14450	F4825/U/TECOSLV	30	12000	1860	1675	4100	60					10	101	
		25	48.0	14456	F4825/U/TECOTWN	9	12000	1860	1675	4100	60					10	101	
4' F34 Ecolux® Watt-Miser® Energy Saving Lamps																		
T12	Medium Bi-Pin (G13)	34	48.0	21858	F34SP35/RSWMECOUPC	24	20000	2750	2475	3500	73	☞	\$ -	+	Ⓢ	1	101	
		34	48.0	25391	F34CW/RSWMECOUPC	30	20000	2650	2280	4100	60		\$ -	+	Ⓢ	1	101	
		34	48.0	23485	F34CW/RSWMECO6PK	10	20000	2650	2280	4100	60		\$ -	+	Ⓢ	1	101	
		34	48.0	25398	F34W/RSWMECOUPC	30	20000	2700	2320	3000	52		\$ -	+	Ⓢ	1	101	Warm White
Mod-U-Line® Watt-Miser® U-Tubes																		
T12	Medium Bi-Pin (G13)	35	22.5	14471	F35CW/U/6/WM/UPC	12	14000	2300	2100	4100	60		\$ -	+	Ⓢ	1	102	
		35	22.5	23383	F35CW/U/6/WM/C	6	14000	2300	2100	4100	60		\$ -	+	Ⓢ	1	102	
Mod-U-Line® Standard U-Tubes																		
T12	Medium Bi-Pin (G13)	40	22.5	22050	F40SP35/U/6/UPC	12	14000	3050	2780	3500	73	☞			Ⓢ		102	
T12	Miniature Bi-Pin (G5)	40	22.5	25374	F40SCW/U/6/UPC/6PK	6	14000	2800	2460	4100	75	☞			Ⓢ		102	Super Cool White
T12 Instant Start																		
4' T12																		
T12	Single Pin (Fa8)	40	48.0	20461	F48T12CW/U/UPC 6PK	24	9000	2875	2650	4100	60						101	
8' T12																		
T12	Single Pin (Fa8)	75	96.0	10149	F96T12/SP41/UPC	15	12000	6500	6110	4100	72	☞			Ⓢ		101	
8' T12 Watt-Miser® Energy Saving Lamps																		
T12	Single Pin (Fa8)	60	96.0	21856	F96T12SP35WM/UPC	15	12000	5700	5360	3500	73	☞	\$ -	+	Ⓢ	1	101	
		60	96.0	11217	F96T12SP35WMC10PK	10	12000	5700	5360	3500	73	☞	\$ -	+	Ⓢ	1	101	
		60	96.0	25395	F96T12/SP41/WM/UPC	15	12000	5700	5360	4100	72	☞	\$ -	+	Ⓢ	1	101	
		60	96.0	21713	F96T12CW/WM/UPC10PK	10	12000	5500	5060	4100	60		\$ -	+	Ⓢ	1	101	
		60	96.0	25171	F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60		\$ -	+	Ⓢ	1	101	
8' T12 Ecolux® Watt-Miser® Energy Saving Lamps																		
T12	Single Pin (Fa8)	60	96.0	16816	F96T12CW/WM/ECO-S	15	12000	5500	5060	4100	60		\$ -	+	Ⓢ	1	101	
T12 Rapid Start																		
T12	Medium Bi-Pin (G13)	30	36.0	39176	F30T12/CW/RS 6PK	24	18000	2200	1910	4100	60						101	
		30	36.0	77119	F30T12/RS/KB/ECO	24	18000	2350	2120	3000	70	☞					104	Kitchen & Bath
T12 High Output Rapid Start Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	60	48.0	27133	F48T12/CW/HO/UPC	24	12000	4050	3520	4100	60						101	
		95	96.0	21714	F96T12C/HOW/WM/UPC	15	12000	8000	6960	4100	60		\$ -	+	Ⓢ	1	101	

Bulb Shape	Base	Watts		Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Preheat																			
T5																			
T5	Miniature Bi-Pin (G5)	4	6.0	15983	F4T5/CW CARD	10	5000	135	100	4100	60							101	Preheat
		6	9.0	15986	F6T5/CW CARD	10	5000	295	235	4100	60							101	Preheat
		8	12.0	15987	F8T5/CW CARD	10	5000	400	320	4100	60							101	Preheat
		8	12.0	25425	F8T5/WW/CARD	5	5000	410	330	3000	52							101	Preheat, Warm White
		13	21.0	49333	F13T5/CW/CD	5	5000	850	705	4100	60							101	Preheat, Warm White
		13	21.0	25426	F13T5/WW/CARD	5	5000	870	720	3000	52							101	Preheat, Warm White
T8																			
T8	Medium Bi-Pin (G13)	15	18.0	13968	F15T8/SUN 6PK	24	7500	620	525	5000	90	☞						101	Preheat, Sunlight
		15	18.0	21326	F15T8/KB 6PK	24	7500	940	850	3000	70	☞						104	Preheat, Kitchen & Bath
		15	18.0	10143	F15T8/CW 6PK	24	7500	825	725	4100	60							101	Preheat
		30	36.0	22747	F30T8/KB 6PK	24	7500	2125	1910	3000	70	☞						104	Preheat, Kitchen & Bath
T12																			
T12	Medium Bi-Pin (G13)	14	15.0	10117	F14T12/CW 6PK	24		650	550	4100	60							101	Preheat
		14	15.0	22979	F14T12/KB 6PK	24	9000	700	650	3000	70	☞						104	Preheat, Kitchen & Bath
		15	18.0	10183	F15T12/CW 6PK	24	9000	760	685	4100	60							104	Preheat, Kitchen & Bath
		15	18.0	22745	F15T12/KB 6PK	24	9000	785	730	3000	70	☞						104	Preheat, Kitchen & Bath
		20	24.0	80046	F20T12/CW/ECO6PK	24	9000	1200	1150	4100	60							101	Preheat
		20	24.0	25575	F20T12/D/ECO/UPC	24	9000	1025	945	6500	75	☞						101	Preheat, Daylight
		20	24.0	21325	F20T12/KB/ECO	24	9000	1275	1200	3000	70	☞						104	Preheat, Kitchen & Bath
		20	24.0	14419	F20T12/SUN/ECO	24	9000	875	790	5000	90	☞						101	Preheat, Sunlight
		20	24.0	25577	F20T12/WW/ECOUPC	24	9000	1250	1150	3000	52							101	Preheat, Warm White
		20	24.0	10231	F20T12/B 6PK	24	9000	450	330									101	Preheat
		20	24.0	10233	F20T12/G 6PK	24	9000	1575	957									101	Preheat
Blacklight																			
T8	Medium Bi-Pin (G13)	15	24.0	35884	F15T8/BL 6PK	24	7500										8	105	Blacklight, UVA Source
		T12	Medium Bi-Pin (G13)	20	24.0	10244	F20T12/BL 6PK	24	9000									8	105
		40		40.0	10526	F40BL 6PK	24	20000									8	105	Blacklight, UVA Source
Blacklight Blue																			
T8	Medium Bi-Pin (G13)	15	18.0	35885	F15T8/BLB 6PK	24	7500											101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium Bi-Pin (G13)	20	24.0	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 Bi-Pin (G13)	40	40.0	10531	F40BLB 6PK	24	20000											101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9 Circline®																			
T9	4-Pin (G10q)	20	6.5	42732	FC6T9/CW	12	12000	800	560	4100	60							101	
		20	8.25	33774	FC8T9/CW	12	12000	1100	825	4100	60							101	
		22	8.25	11026	FC8T9/D	12	12000	925	690	6500	75	☞						101	Daylight
		22	8.25	11084	FC8T9/KB	6	12000	1400	1120	3000	82	☞						104	Kitchen & Bath
		32	12.0	33890	FC12T9/CW	12	12000	1950	1460	4100	60							101	
		32	12.0	11039	FC12T9/D	12	12000	1675	1260	6500	75	☞						101	Daylight
		32	12.0	11085	FC12T9/KB	6	12000	2400	1920	3000	82	☞						104	Kitchen & Bath
		40	16.0	33893	FC16T9/CW	12	12000	2700	2030	4100	60							101	
		40	16.0	11052	FC16T9/D	12	12000	2250	1690	6500	75	☞						101	Daylight

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
covGuard® Shatter Resistant																		
T8 Preheat																		
T8	Medium Bi-Pin (G13)	15	18.0	46627	F15T8/WB/CVG/UPC	24	7500	910		3000	70	80				11.13	104	Kitchen & Bath
T12 Rapid Start																		
T12	Medium Bi-Pin (G13)	25	48.0	46625	F4825W/UTSLCVGUPC	30	12000	1800		4100	60					11.13	103	Kitchen & Bath
		40	48.0	80995	F40K8/ECO/CVGUPC	24	20000			3000	70	80				11.13	108	
		40	48.0	80999	F40CW/ECO/CVGUPC	30	20000			4100	70					11.13	103	
T12 Rapid Start Watt-Miser®																		
T12	Medium Bi-Pin (G13)	34	48.0	80997	F34CW/MMECCOCVGUPC	30	20000			4100	60		\$	+	Ⓢ	1.11.13		
T12 Preheat																		
T12	Medium Bi-Pin (G13)	20	24.0	80984	F20T12CW/ECOCVGUPC	24	9000			4100	60					11.13	103	Kitchen & Bath
		20	24.0	80985	F20T12K8/ECOCVGUPC	24	9000			3000	70	80				11.13	108	
T12 Instant Start																		
T12	Single Pin (FoB)	60	96.0	41002	F96T12CW/MW/CVG/UPC	15	12000	5330	4910	4100	60		\$	+		1.11.13	103	Watt-Miser®
Plant and Aquarium / Terrarium																		
T8	Medium Bi-Pin (G13)	14		41373	F14T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		14		40903	F14T8/AR/FS/6PK	24	7500	550		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		14		41375	F14T8/AR/SA 6PK	24	7500	190		10000	62						104	Aquarium Lamp Saltwater
		14		41377	F14T8/SR 6PK	24	7500	565		5000	90						104	Aquarium/Terrarium Lamp
		15		22907	F15T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		15		22910	F15T8/AR/FS 6PK	24	7500	675		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		15		22920	F15T8/AR/SA 6PK	24	7500	210		10000	62						104	Aquarium Lamp Saltwater
		15		49892	F15T8/PL/AQ 6PK	24	7500	510		3100	90						104	Plant & Aquarium Wide Spectrum
		15		22904	F15T8/SR 6PK	24	7500	620		5000	90						104	Aquarium/Terrarium Lamp
T12	Medium Bi-Pin (G13)	20		22908	F20T12/AR/FR 6PK	24	9000	600		4000	92						104	Aquarium Lamp Freshwater
		20		22911	F20T12/AR/FS 6PK	24	9000	950		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		20		22922	F20T12/AR/SA 6PK	24	9000	270		10000	62						104	Aquarium Lamp Saltwater
		20		49891	F20T12/PL/AQ/ECO	24	9000	750		3100	90						104	Plant & Aquarium Wide Spectrum
		20		22905	F20T12/SR 6PK	24	9000	875		5000	90						104	Aquarium/Terrarium Lamp
T8	Medium Bi-Pin (G13)	30		41374	F30T8/AR/FR 6PK	24	9000	675		4000	92						104	Aquarium Lamp Freshwater
		30		40904	F30T8/AR/FS/6PK	24	7500	1400		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		30		41376	F30T8/AR/SA 6PK	24	9000	315		10000	62						104	Aquarium Lamp Saltwater
T12	Medium Bi-Pin (G13)	30		41378	F30T12/SR 6PK	24	18000	1100		5000	90						104	Plant & Aquarium Wide Spectrum
		40		22909	F40T12/AR/FR 6PK	24	9000	1425		4000	92						104	Aquarium Lamp Freshwater
		40		22914	F40T12/AR/FS 6PK	24	9000	2350		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		40		22923	F40T12/AR/SA 6PK	24	9000	700		10000	62						104	Aquarium Lamp Saltwater
		40		49893	F40PL/AQ/ECO	24	20000	1900		3100	90						104	Plant & Aquarium Wide Spectrum
		40		22906	F40T12/SR 6PK	24	20000	2250		5000	90						104	Aquarium/Terrarium Lamp

Operating Notes

General Operation

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

Factors Affecting Lamp Performance

Ballasts

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

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

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

General Information

Lumens

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

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

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

Nominal Watts

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

Rated Life

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

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

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

Temperature

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

Luminaire

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

Starting

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

Performance Notes:

T8 Lamps:

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

T12 Lamps:

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

Color Temperature/Chromaticity

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

Scotopic/Photopic Ratio

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

Fluorescent Lamps

Scotopic/Photopic (S/P) Ratio:

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

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

Footnotes

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

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

Warning and Caution Notices

- 101**
⚠ **WARNING**
Risk of electric shock
 - Turn power off before inspection, installation or removal⚠ **CAUTION**
Lamp may shatter and cause injury if broken
 - Wear safety glasses and gloves when handling lamp
 - Do not use excessive force when installing lamp
- 102**
⚠ **WARNING**
Risk of electric shock
 - Turn power off before inspection, installation or removal⚠ **CAUTION**
Improper handling may cause breakage
 - Do not carry lamp by bracket**Lamp may shatter and cause injury if broken**
 - Wear safety glasses and gloves when handling lamp
 - Do not use excessive force when installing lamp
- 103**
⚠ **WARNING**
Risk of electric shock
 - Turn power off before inspection, installation or removal
- 104**
⚠ **WARNING**
Risk of electric shock
 - Turn power off before inspection, installation or removal
 - Avoid direct water/liquid contact⚠ **CAUTION**
Lamp may shatter and cause injury if broken
 - Wear safety glasses and gloves when handling lamp
 - Do not use excessive force when installing lamp
- 105**
⚠ **WARNING**
Risk of electric shock
 - Turn power off before inspection, installation or removal⚠ **CAUTION**
Lamp emits UV radiation which may cause eye/skin irritation. RG-1
 - Minimize exposure**Lamp may shatter and cause injury if broken**
 - Wear safety glasses and gloves when handling lamp
 - Do not use excessive force when installing lamp
- 106**
⚠ **WARNING**
Risk of electric shock
 - Turn power off before inspection, installation or removal**Lamp emits UV radiation which may cause eye/skin injury. RG-3**
 - Avoid exposure of eyes and skin to unshielded lamp⚠ **CAUTION**
Lamp may shatter and cause injury if broken
 - Wear safety glasses and gloves when handling lamp
 - Do not use excessive force when installing lamp
- 107**
⚠ **WARNING**
Risk of electric shock
 - Turn power off before inspection, installation or removal
 - Do not open – there are no serviceable parts inside
 - Do not drill or cut into plastic parts
 - Avoid direct water/liquid contact
 - Fully insert plug
 - Use indoors only⚠ **CAUTION**
Lamp may shatter and cause injury if broken
 - Wear safety glasses and gloves when handling lamp
 - Lamp is not replaceable. Do not attempt to remove lamp from fixture
 - Use in permanent installation only — not for portable use**Unit will fail if not installed properly**
 - Follow installation instructions
- 108**
⚠ **WARNING**
Risk of electric shock
 - Turn power off before inspection, installation or removal
 - Avoid direct water/liquid contact