

Fluorescent Lamps

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Fluorescent Lamps

Special Application Lamps

covRguard® Shatter Resistant
 T5 High Efficiency, T5 High Output, T5 High Output
 Watt-Miser®, T5 Preheat Lamps.....4-17

T8 Ecolux® w/Starcoat®
 2' T8 Ecolux® w/Starcoat®, 3' Ecolux® w/Starcoat®,
 4' T8 (48") Ecolux® w/Starcoat®, 4' T8 Ecolux®
 XL Extra-life w/Starcoat®4-18

Ultra Energy Saving T8 Lamps w/covRguard®
 4' T8 Ecolux® 25 Watt Lamp, 4' T8 Ecolux®
 UltraMax® 28 Watt Lamp, 4' T8 Ecolux®
 High Lumen XL Extra-Life w/Starcoat®4-18

5' T8 w/Starcoat®
 5' T8 (60") w/Starcoat®4-18

T8 Instant Start w/Starcoat®
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8' T8 High Output Lamps Recessed Double Contact
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4' T12 Ecolux® Rapid Start Watt-Miser®
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T12 High Output Lamps Recessed Double
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T12 High Output Lamps Recessed Double
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High Output (800mA) Recessed
 Double Contact.....4-20

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Plant and Aquarium/Terrarium Lamps
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Export Outside U.S. and Canada Only

Consumer Products

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T12
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T12 Instant Start
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T12 Rapid Start4-22

T12 High Output Rapid Start Recessed
 Double Contact.....4-23

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Blacklight, Blacklight Blue4-23

T9 Circline®4-23

covRguard® Shatter Resistant

T8 Preheat.....4-24

T12 Rapid Start Watt-Miser®, T12 Preheat.....4-24

Plant and Aquarium/Terrarium

Operating Notes

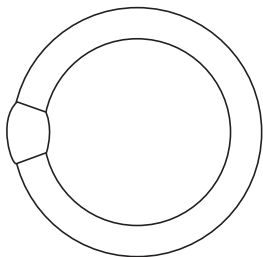
General Information

Scotopic/Photopic (S/P) Ratio

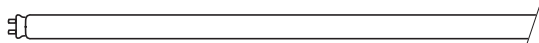
Footnotes

Warning and Caution Notices

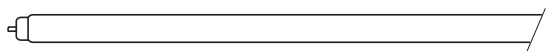
Lamp Locator (not drawn to scale)



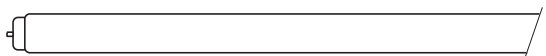
T9 Circline (1-1/8" diameter) 4-Pin Base (G10q)



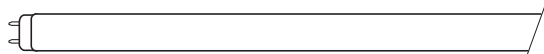
T5 (5/8" diameter) Miniature Bi-Pin Base (G5)



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



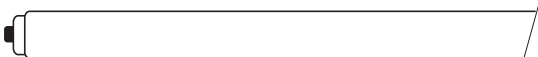
T8 (1" diameter) Single Pin Base (Fa8)



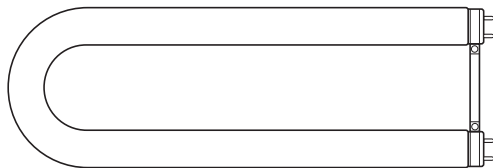
T8 (1" diameter) Medium Bi-Pin Base (G13)



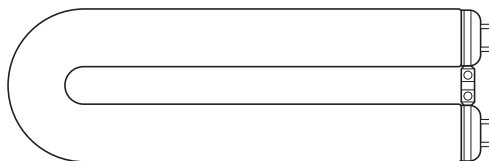
T8 (1" diameter) Recessed Double Contact Base (R17d)



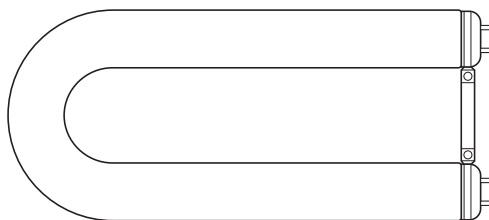
T10 (1 1/4" diameter) Recessed Double Contact Base (R17d)



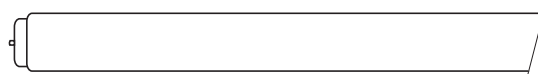
Mod-U-Line® T8/U6 (1" diameter) Medium Bi-Pin Base (G13)



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



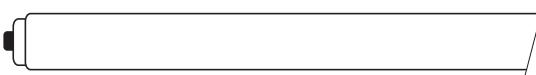
Mod-U-Line® T12/U6 (1-1/2" diameter) Medium Bi-Pin Base (G13)



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



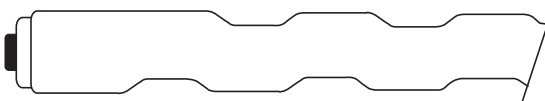
T12 (1-1/2" diameter) Medium Bi-Pin Base (G13)



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



T17 (2-1/8" diameter) Mogul Bi-Pin (G20)



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

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

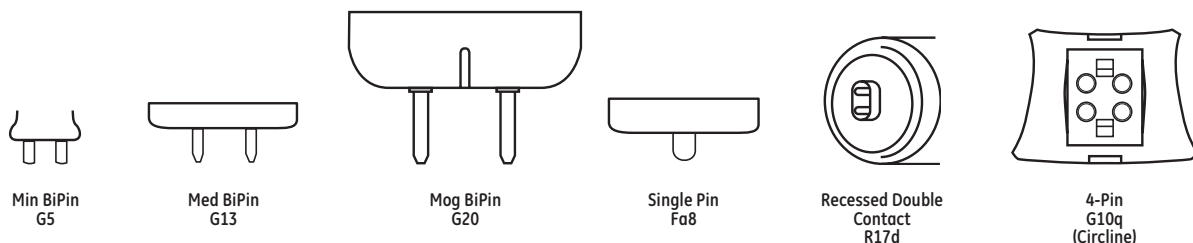
Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Fluorescent Lamps

Base Identification



Introduction

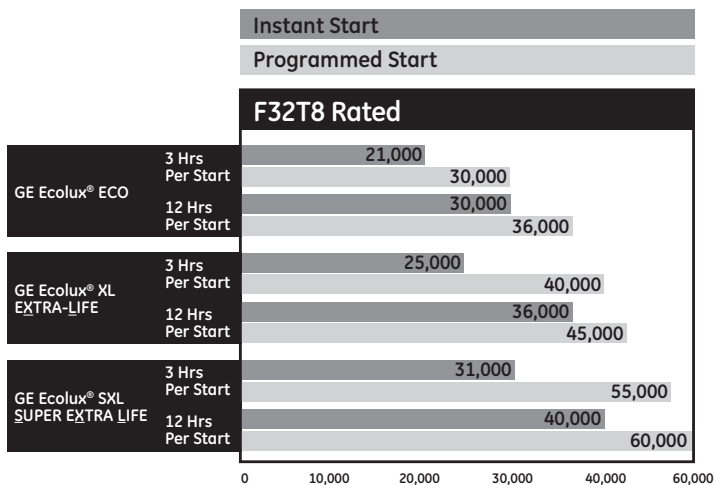
GE introduced the first fluorescent lamp in 1939. Today, these lamps have become almost a universal standard in office and other lighting applications. The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- 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 36,000 to 55,000 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.

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®	Curvalume®	U-Bent
Power Groove®	—	—
Specification Series (SP)	Designer® Series (D)	SPEC Series
Specification Series (SPX)	Designer® "800" Series	Ultralume™
Starcoat®	—	—
T5	Pentron®	Silhouette™
T8	Octron®	TL70/TL80™
T10/1500MA	VHO/LT	—
/1500	VHO	VHO
Watt-Miser®	SuperSaver®	Econ-o-Watt
Watt-Miser® Plus	SuperSaver Plus®	—
XL	XP	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.



Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 operating hours.

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® F28WT5 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 Ultra Energy Saving Ecolux® T5 High Output 47 Watt Watt-Miser® (pg 4-9)

- GE's highest efficiency and lowest wattage T5 HO combination at 102 LPW
- Relamp existing full wattage 54W lamp with the 47W T5 lamp and saves energy
- 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 – 94-95% 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 and SXL Super Long Life lamps (pgs 4-9 to 4-10)

- Same great features of the T8 Starcoat® Ecolux®...with longer life... up to 67% longer than standard T8 lamps

GE Ultra Energy Saving T8 Lamps 2ft and 3ft T8 Watt-Misers® (pg 4-10 to 4-11)

- Energy-saving alternative to standard 2ft and 3ft T8 lamps. Up to 12% energy savings versus standard F17T8 and/or F25T8 lamps, with approximately 10% light loss.
- 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.
- Longer rated life at 50,000 hours depending on ballast type and burn cycle
- Operates on any ANSI compliant T8 Instant Start or Programmed 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)
- Approximately 10% less light

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 ANSI compliant T8 Instant Start or Programmed Start ballast
- Also approved for use on GE UltraStart® PRS ballast
- 80+ CRI (Color Rendering Index) and TCLP compliant
- Approximately 4% less light

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
- 33% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE 8' T8 Lamps (pg 4-11 to 4-12)

- Single-pin based lamps designed to operate on Instant Start Ballast

GE 8' T8 Watt-Miser® Plus and 49W Energy Saving Lamps (pg 4-11)

- One of the most efficient fluorescent products available, up to 107 LPW
- Energy savings...8.5% to 17% less energy consumed than standard F96T8 lamps
- Watt-Miser® Plus has same light output as standard lamps; 49W is approximately 14% less light
- Excellent color rendering – 80+ CRI
- 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

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Fluorescent Lamps

Product Information (continued)

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

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

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Relamp existing F31T8 Mod-U-Line® with F29T8 or F26T8 Mod-U-Line® and save up to 16% in energy
- Longer lamp life than T12 Mod-U-Line® – 24,000 hours
- Approximately 8 to 17% less light

GE 4' T12 Watt-Miser® Ecolux® Energy Saving Lamps (WM) (pg 4-14)

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent with approximately 15% light loss
- TCLP compliant, lowering disposal costs where applicable (state and local regulations vary, consult your state EPA)

GE T12 High Output Lamps (pg 4-15 to 4-16)

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

GE T12 Very High Output Lamps (pg 4-16)

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

covRguard® Shatter Resistant Fluorescent Lamps (pg 4-17)

- Polycarbonate shield helps to contain shattered glass particles if lamp is broken, protecting people, food and other valuable items
- UV-blocking properties guard against fading and UV degradation
- Available in a variety of colors for decorative and architectural applications

GE Cold-Temperature Lamps (pg 4-19)

- Specifically designed for cold-temperature applications such as freezers and coolers, display cases and outdoor areas
- Available in T5, T8, T10 and T12 versions
- Rated nominal watts and initial lumens are peak values. Actual watt and lumen values may be somewhat lower in service, depending on ambient conditions.

GE Appliance Lamps (pg 4-20)

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

GE Blacklight/Blacklight Blue Lamps (pg 4-20)

- Blacklight (BL) lamps are commonly used in insect traps
- Blacklight Blue (BLB) lamps are often used decoratively in disco lighting and theatrical applications. These lamps are produced with a special dark blue glass that filters most visible light.

GE Gold Lamps (pg 4-21)

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

GE Germicidal Lamps (pg 4-21)

- Clear lamps with special UV transmitting glass
- The 254nm radiation from appropriately designed and installed devices using the lamps can inactivate many forms of bacteria and other organisms
- Used in air, water and surface purification devices

Headings in this catalog section

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

families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.

Order Code:

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

Nominal Length (in):

Lamp length including base and/or pins.

Watts:

Energy used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Bulb Shape:

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

Base:
The type of base.

Description:
The lamp's identification code.

Case Quantity:
Number of product units packed in a case.

Rated Life - Hours:
Lamp burning hours to median life expectancy.

Initial Lumens:
Lamp light output after the initial 100 hours of operation.

Mean Lumens:
Lamp light output at 40% of rated lamp life or 8K hours for lamps exceeding 20K hours life.

Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Color Rendering Index (CRI or R_a):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

High Color Rendering:

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

Reduced Wattage:

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

Warning and Caution Notices:

See page 4-27 for more information.

Footnotes:

Related footnotes, see page 4-26

Additional Information:

Typical application and/or other important information.

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	Footnotes	Warning and Caution Notices	Additional Information
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T5 Starcoat Ecolux® Lamps

High Efficiency																			
T5	Miniature Bi-Pin (G5)	14	21.6	31590	F14W/T5/830/ECO	40	30000	36000	1350	1240	3000	85				19	101		

F 14W/T5/830 / ECO

Identifies as Fluorescent lamp.

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

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

Identifies the lamp finish or color.

Identifies TCLP compliance.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

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



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	Footnotes	Warning and Caution Notices	Additional Information
T5 Starcoat® Ecolux® Lamps																		
T5 High Efficiency																		
T5	Miniature Bi-Pin (G5)	14	21.6	31590	F14W/T5/830/ECO	40	30000	36000	1350	1240	3000	85	☺			19	101	
		14	21.6	46671	F14W/T5/835/ECO	40	30000	36000	1350	1240	3500	85	☺			19	101	
		14	21.6	46673	F14W/T5/841/ECO	40	30000	36000	1350	1240	4100	85	☺			19	101	
		14	21.6	46674	F14W/T5/850/ECO	40	30000	36000	1300	1190	5000	85	☺			19	101	
		14	21.6	46676	F14W/T5/865/ECO	40	30000	36000	1250	1150	6500	85	☺			19	101	
		21	33.4	46677	F21W/T5/830/ECO	40	30000	36000	2100	1930	3000	85	☺			19	101	
		21	33.4	46684	F21W/T5/835/ECO	40	30000	36000	2100	1930	3500	85	☺			19	101	
		21	33.4	46687	F21W/T5/841/ECO	40	30000	36000	2100	1930	4100	85	☺			19	101	
		21	33.4	46688	F21W/T5/850/ECO	40	30000	36000	2000	1840	5000	85	☺			19	101	
		21	33.4	46689	F21W/T5/865/ECO	40	30000	36000	1950	1790	6500	85	☺			19	101	
		28	45.2	46704	F28W/T5/830/ECO	40	30000	36000	2900	2660	3000	85	☺			19	101	
		28	45.2	46705	F28W/T5/835/ECO	40	30000	36000	2900	2660	3500	85	☺			19	101	
		28	45.2	46706	F28W/T5/841/ECO	40	30000	36000	2900	2660	4100	85	☺			19	101	
		28	45.2	46707	F28W/T5/850/ECO	40	30000	36000	2750	2530	5000	85	☺			19	101	
		28	45.2	46708	F28W/T5/865/ECO	40	30000	36000	2700	2480	6500	85	☺			19	101	
		35	57.1	46724	F35W/T5/830/ECO	40	30000	36000	3650	3350	3000	85	☺			19	101	
		35	57.1	46727	F35W/T5/835/ECO	40	30000	36000	3650	3350	3500	85	☺			19	101	
		35	57.1	46735	F35W/T5/841/ECO	40	30000	36000	3650	3350	4100	85	☺			19	101	
		35	57.1	46742	F35W/T5/850/ECO	40	30000	36000	3500	3220	5000	85	☺			19	101	
		35	57.1	46743	F35W/T5/865/ECO	40	30000	36000	3400	3120	6500	85	☺			19	101	
T5 High Output																		
T5	Miniature Bi-Pin (G5)	24	21.6	46699	F24W/T5/830/ECO	40	30000	36000	2000	1840	3000	85	☺			19	101	
		24	21.6	46700	F24W/T5/835/ECO	40	30000	36000	2000	1840	3500	85	☺			19	101	
		24	21.6	46701	F24W/T5/841/ECO	40	30000	36000	2000	1840	4100	85	☺			19	101	
		24	21.6	46702	F24W/T5/850/ECO	40	30000	36000	1900	1740	5000	85	☺			19	101	
		24	21.6	46703	F24W/T5/865/ECO	40	30000	36000	1880	1740	6500	85	☺			19	101	
		39	33.4	46744	F39W/T5/830/ECO	40	30000	36000	3500	3220	3000	85	☺			19	101	
		39	33.4	46745	F39W/T5/835/ECO	40	30000	36000	3500	3220	3500	85	☺			19	101	
		39	33.4	46746	F39W/T5/841/ECO	40	30000	36000	3500	3220	4100	85	☺			19	101	
		39	33.4	46747	F39W/T5/850/ECO	40	30000	36000	3350	3080	5000	85	☺			19	101	
		39	33.4	46748	F39W/T5/865/ECO	40	30000	36000	3330	3060	6500	85	☺			19	101	
		54	45.2	46759	F54W/T5/830/ECO	40	30000	36000	5000	4600	3000	85	☺			19	101	
		54	45.2	46760	F54W/T5/835/ECO	40	30000	36000	5000	4600	3500	85	☺			19	101	
		54	45.2	46761	F54W/T5/841/ECO	40	30000	36000	5000	4600	4100	85	☺			19	101	
		54	45.2	46762	F54W/T5/850/ECO	40	30000	36000	4800	4410	5000	85	☺			19	101	
		54	45.2	46763	F54W/T5/865/ECO	40	30000	36000	4750	4370	6500	85	☺			19	101	
		80	57.1	46802	F80W/T5/830/ECO	40	30000	36000	7000	6440	3000	85	☺			19	101	
		80	57.1	46803	F80W/T5/835/ECO	40	30000	36000	7000	6440	3500	85	☺			19	101	
		80	57.1	46804	F80W/T5/841/ECO	40	30000	36000	7000	6440	4100	85	☺			19	101	
		80	57.1	46805	F80W/T5/850/ECO	40	30000	36000	6700	6160	5000	85	☺			19	101	
		80	57.1	46806	F80W/T5/865/ECO	40	30000	36000	6650	6110	6500	85	☺			19	101	
T5 High Output Extra-Life																		
T5	Miniature Bi-Pin (G5)	54	45	68836	F54T5/XL/830/ECO	40	50000	60000	5000	4600	3000	84	☺			19	101	
		54	45	68837	F54T5/XL/835/ECO	40	50000	60000	5000	4600	3500	84	☺			19	101	
		54	45	68838	F54T5/XL/841/ECO	40	50000	60000	5000	4600	4100	84	☺			19	101	
		54	45	68839	F54T5/XL/850/ECO	40	50000	60000	4800	4410	5000	84	☺			19	101	
		54	45	68840	F54T5/XL/865/ECO	40	50000	60000	4750	4370	6500	84	☺			19	101	
Ultra Energy Saving T5 Lamps																		
T5 High Efficiency Watt-Miser®																		
T5	Miniature Bi-Pin (G5)	13	21.6	71632	F14T5/830/WM/ECO	40	25000	30000	1350	1240	3000	85	☺	\$	☺	19	101	
		13	21.6	71633	F14T5/835/WM/ECO	40	25000	30000	1350	1240	3500	85	☺	\$	☺	19	101	
		13	21.6	71634	F14T5/841/WM/ECO	40	25000	30000	1350	1240	4100	85	☺	\$	☺	19	101	
		13	21.6	71635	F14T5/850/WM/ECO	40	25000	30000	1300	1190	5000	85	☺	\$	☺	19	101	
		13	21.6	71636	F14T5/865/WM/ECO	40	25000	30000	1250	1150	6500	85	☺	\$	☺	19	101	
		20	33.4	71637	F21T5/830/WM/ECO	40	25000	30000	2100	1930	3000	85	☺	\$	☺	19	101	
		20	33.4	71638	F21T5/835/WM/ECO	40	25000	30000	2100	1930	3500	85	☺	\$	☺	19	101	
		20	33.4	71639	F21T5/841/WM/ECO	40	25000	30000	2100	1930	4100	85	☺	\$	☺	19	101	
		20	33.4	71640	F21T5/850/WM/ECO	40	25000	30000	2000	1840	5000	85	☺	\$	☺	19	101	
		20	33.4	71641	F21T5/865/WM/ECO	40	25000	30000	1950	1790	6500	85	☺	\$	☺	19	101	
		26	45.2	71642	F28T5/830/WM/ECO	40	25000	30000	2900	2660	3000	85	☺	\$	☺	19	101	
		26	45.2	71643	F28T5/835/WM/ECO	40	25000	30000	2900	2660	3500	85	☺	\$	☺	19	101	
		26	45.2	71644	F28T5/841/WM/ECO	40	25000	30000	2900	2660	4100	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	Footnotes	Warning and Caution Notices	Additional Information				
Ultra Energy Saving T5 Lamps (continued)																						
T5 High Efficiency Watt-Miser® (continued)																						
T5	Miniature Bi-pin (G5)	26	45.2	71645	F28T5/850/WM/ECO	40	25000	30000	2750	2530	5000	85	☺	\$	↗	19	101					
		26	45.2	71646	F28T5/865/WM/ECO	40	25000	30000	2700	2480	6500	85	☺	\$	↗	19	101					
		33	57.1	71647	F35T5/830/WM/ECO	40	25000	30000	3650	3350	3000	85	☺	\$	↗	19	101					
		33	57.1	71648	F35T5/835/WM/ECO	40	25000	30000	3650	3350	3500	85	☺	\$	↗	19	101					
		33	57.1	71649	F35T5/841/WM/ECO	40	25000	30000	3650	3350	4100	85	☺	\$	↗	19	101					
		33	57.1	71650	F35T5/850/WM/ECO	40	25000	30000	3500	3220	5000	85	☺	\$	↗	19	101					
		33	57.1	71651	F35T5/865/WM/ECO	40	25000	30000	3400	3120	6500	85	☺	\$	↗	19	101					
T5 High Output Watt-Miser®																						
T5	Miniature Bi-Pin (G5)	51	45.2	71627	F54T5/830/WM/ECO	40	30000	36000	5000	4600	3000	85	☺	\$	↗	19	101					
		51	45.2	71628	F54T5/835/WM/ECO	40	30000	36000	5000	4600	3500	85	☺	\$	↗	19	101					
		51	45.2	71629	F54T5/841/WM/ECO	40	30000	36000	5000	4600	4100	85	☺	\$	↗	19	101					
		51	45.2	71630	F54T5/850/WM/ECO	40	30000	36000	4790	4410	5000	85	☺	\$	↗	19	101					
		51	45.2	71631	F54T5/865/WM/ECO	40	30000	36000	4750	4370	6500	85	☺	\$	↗	19	101					
T5 High Output 47W Watt-Miser®																						
T5	Miniature Bi-Pin (G5)	47	45.2	62020	F54T5/47W/830/ECO	40	30000	36000	4800	4410	3000	84	☺	\$	↗	19	101					
		47	45.2	62021	F54T5/47W/835/ECO	40	30000	36000	4800	4410	3500	84	☺	\$	↗	19	101					
		47	45.2	62022	F54T5/47W/841/ECO	40	30000	36000	4800	4410	4100	84	☺	\$	↗	19	101					
		47	45.2	62023	F54T5/47W/850/ECO	40	30000	36000	4600	4230	5000	84	☺	\$	↗	19	101					
		47	45.2	62024	F54T5/47W/865/ECO	40	30000	36000	4550	4180	6500	84	☺	\$	↗	19	101					
T5 High Lumen																						
T5	Miniature Bi-Pin (G5)	28	45.2	71652	F28WTS/830/HL/ECO	40	20000	24000	3050	2810	3000	85	☺	\$			19	101				
		28	45.2	71653	F28WTS/835/HL/ECO	40	20000	24000	3050	2810	3500	85	☺	\$			19	101				
		28	45.2	71654	F28WTS/841/HL/ECO	40	20000	24000	3050	2810	4100	85	☺	\$			19	101				
		28	45.2	71655	F28WTS/850/HL/ECO	40	20000	24000	2900	2670	5000	85	☺	\$			19	101				
		28	45.2	71656	F28WTS/865/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/CB	10	5000		135	100	4100	60							101			
		4	6.0	29089	F4T5/WW/CB	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/CB	10	5000		295	235	4100	60								101		
		6	9.0	90062	F6T5/XL/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/CB	10	5000		400	320	4100	60								101		
		8	12.0	90063	F8T5/XL/CW	24	8000		400	320	4100	60								101		
		8	12.0	10055	F8T5/D	24	5000		330	265	6500	75								101		
		8	12.0	10064	F8T5/WW	24	5000		410	330	3000	52									101	
		8	12.0	25425	F8T5/WW/CB	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/CB	5	5000		850	705	4100	60								101		
		13	21.0	90064	F13T5/XL/CW	24	8000		830	690	4100	60								101		
		13	21.0	10089	F13T5/WW	24	5000		870	720	3000	52								101		
		13	21.0	25426	F13T5/WW/CB	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	30000	36000	1325	1260	3000	78					18,20	101				
		17	24.0	45743	F17T8/SP35/ECO	24	30000	36000	1325	1260	3500	78					18,20	101				
		17	24.0	45748	F17T8/SP41/ECO	24	30000	36000	1325	1260	4100	78					18,20	101				
		17	24.0	45742	F17T8/SPX30/ECO	24	30000	36000	1350	1280	3000	85	☺				18,20	101				
		17	24.0	45747	F17T8/SPX35/ECO	24	30000	36000	1350	1280	3500	85	☺				18,20	101				
		17	24.0	45749	F17T8/SPX41/ECO	24	30000	36000	1350	1280	4100	85	☺				18,20	101				
2' T8 Ecolux® XL Extra-life																						
T8	Medium Bi-Pin (G13)	17	24.0	15476	F17T8/XL/SP30/ECO	24	40000	45000	1325	1260	3000	78					18,20	101				
		17	24.0	15479	F17T8/XL/SP35/ECO	24	40000	45000	1325	1260	3500	78					18,20	101				
		17	24.0	15480	F17T8/XL/SP41/ECO	24	40000	45000	1325	1260	4100	78					18,20	101				
		17	24.0	15481	F17T8/XL/SPX30/ECO	24	40000	45000	1350	1280	3000	85	☺				18,20	101				

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 4-26).

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	Footnotes	Warning and Caution Notices	Additional Information	
T8 Starcoat® Lamps (continued)																			
2' T8 Ecolux® XL Extra-life (continued)																			
T8	Medium Bi-Pin (G13)	17	24.0	15483	F17T8/XL/SPX35/ECO	24	40000	45000	1350	1280	3500	85	☺			18,20	101		
		17	24.0	15484	F17T8/XL/SPX41/ECO	24	40000	45000	1350	1280	4100	85	☺			18,20	101		
		17	24.0	10415	F17T8/XL/SPX50/ECO	24	40000	45000	1300	1235	5000	82	☺			18,20	101		
		17	24.0	16092	F17T8/XL/SPX65/ECO	24	40000	45000	1250	1125	6500	78	☺			18,20	101		
2' T8 Ecolux® 17 Watt Super Long Life																			
T8	Medium Bi-Pin (G13)	17	24.0		F17T8/SXL/SPX35/ECO	24	55000	57000			3500	85	☺			18,21	101		
		17	24.0		F17T8/SXL/SPX41/ECO	24	55000	57000			4100	85	☺			18,21	101		
		17	24.0		F17T8/SXL/SPX50/ECO	24	55000	57000			5000	82	☺			18,21	101		
3' T8 Ecolux®																			
T8	Medium Bi-Pin (G13)	25	36.0	45750	F25T8/SP30/ECO	24	30000	36000	2080	1970	3000	78				18,20	101		
		25	36.0	45754	F25T8/SP35/ECO	24	30000	36000	2080	1970	3500	78				18,20	101		
		25	36.0	45756	F25T8/SP41/ECO	24	30000	36000	2080	1970	4100	78				18,20	101		
		25	36.0	45753	F25T8/SPX30/ECO	24	30000	36000	2150	2040	3000	85	☺			18,20	101		
		25	36.0	45755	F25T8/SPX35/ECO	24	30000	36000	2150	2040	3500	85	☺			18,20	101		
		25	36.0	45757	F25T8/SPX41/ECO	24	30000	36000	2150	2040	4100	85	☺			18,20	101		
3' T8 Ecolux® XL Extra-life																			
T8	Medium Bi-Pin (G13)	25	36.0	15486	F25T8/XL/SP30/ECO	24	40000	45000	2080	1970	3000	78				18,20	101		
		25	36.0	15487	F25T8/XL/SP35/ECO	24	40000	45000	2080	1970	3500	78				18,20	101		
		25	36.0	15488	F25T8/XL/SP41/ECO	24	40000	45000	2080	1970	4100	78				18,20	101		
		25	36.0	15489	F25T8/XL/SPX30/ECO	24	40000	45000	2150	2040	3000	85	☺			18,20	101		
		25	36.0	15490	F25T8/XL/SPX35/ECO	24	40000	45000	2150	2040	3500	85	☺			18,20	101		
		25	36.0	15491	F25T8/XL/SPX41/ECO	24	40000	45000	2150	2040	4100	85	☺			18,20	101		
		25	36.0	10416	F25T8/XL/SPX50/ECO	24	40000	45000	2050	1950	5000	82	☺			18,20	101		
		25	36.0	16314	F25T8/XL/SPX65/ECO	24	40000	45000	1950	1755	6500	78	☺			18,20	101		
3' T8 Ecolux® 25 Watt Super Long Life																			
T8	Medium Bi-Pin (G13)	25	36.0		F25T8/SXL/SPX35/ECO	24	55000	57000			3500	85	☺			18,21	101		
		25	36.0		F25T8/SXL/SPX41/ECO	24	55000	57000			4100	85	☺			18,21	101		
		25	36.0		F25T8/SXL/SPX50/ECO	24	55000	57000			5000	82	☺			18,21	101		
4' T8 Ecolux®																			
T8	Medium Bi-Pin (G13)	32	48.0	66347	F32T8/SPP30/ECO	36	30000	36000	2900	2725	3000	80	☺			18,21	101		
		32	48.0	66348	F32T8/SPP35/ECO	36	30000	36000	2900	2725	3500	80	☺			18,21	101		
		32	48.0	66349	F32T8/SPP41/ECO	36	30000	36000	2900	2725	4100	80	☺			18,21	101		
		32	48.0	66350	F32T8/SPP50/ECO	36	30000	36000	2900	2725	5000	80	☺			18,21	101		
		32	48.0	66351	F32T8/SPP65/ECO	36	30000	36000	2900	2725	6500	78	☺			18,21	101		
		32	48.0	68850	F32T8/SPX30/ECO2	36	30000	36000	2925	2770	3000	85	☺			18,21	101		
		32	48.0	68851	F32T8/SPX35/ECO2	36	30000	36000	2925	2770	3500	85	☺			18,21	101		
		32	48.0	68852	F32T8/SPX41/ECO2	36	30000	36000	2925	2770	4100	85	☺			18,21	101		
		32	48.0	68853	F32T8/SPX50/ECO2	36	30000	36000	2900	2755	5000	82	☺			18,21	101		
		32	48.0	66342	F32T8/SPX65/ECO2	36	30000	36000	2900	2755	6500	78	☺			18,21	101		
		4' T8 Ecolux® XL Extra-life																	
T8	Medium Bi-Pin (G13)	32	48.0	68854	F32T8/XL/SPX30/ECO2	36	40000	45000	2925	2770	3000	85	☺			18,21	101		
		32	48.0	68855	F32T8/XL/SPX35/ECO2	36	40000	45000	2925	2770	3500	85	☺			18,21	101		
		32	48.0	68856	F32T8/XL/SPX41/ECO2	36	40000	45000	2925	2770	4100	85	☺			18,21	101		
		32	48.0	68857	F32T8/XL/SPX50/ECO2	36	40000	45000	2850	2700	5000	82	☺			18,21	101		
		32	48.0	68858	F32T8/XL/SPX65/ECO2	36	40000	45000	2750	2610	6500	78	☺			18,21	101		
4' T8 Ecolux® Super Long Life																			
T8	Medium Bi-Pin (G13)	32	48.0	73093	F32T8/SXL/SPX30/ECO	36	65000	67000	2850	2675	3000	85	☺			18,21	101		
		32	48.0	73094	F32T8/SXL/SPX35/ECO	36	65000	67000	2850	2675	3500	85	☺			18,21	101		
		32	48.0	73095	F32T8/SXL/SPX41/ECO	36	65000	67000	2850	2675	4100	82	☺			18,21	101		
		32	48.0	73096	F32T8/SXL/SPX50/ECO	36	65000	67000	2800	2630	5000	80	☺			18,21	101		
4' T8 Ecolux® High Color Rendering																			
T8	Medium Bi-Pin (G13)	32	48	66343	F32T8/C50/ECO	36	30000	36000	1700	1600	5000	90	☺						Chroma 50
		32	48	66344	F32T8/C75/ECO	36	30000	36000	1700	1600	7500	93	☺						Chroma 75
Ultra Energy Saving T8 Lamps																			
2' T8 Ecolux® Watt-Miser® 15 Watt Lamp																			
T8	Medium Bi-Pin (G13)	15	24.0	72132	F17T8/XL/SPX30/WM/ECO	24	45000	50000	1200	1130	3000	85	☺	\$	✶	1,18,20	101		
		15	24.0	72133	F17T8/XL/SPX35/WM/ECO	24	45000	50000	1200	1130	3500	85	☺	\$	✶	1,18,20	101		
		15	24.0	72134	F17T8/XL/SPX41/WM/ECO	24	45000	50000	1200	1130	4100	82	☺	\$	✶	1,18,20	101		
		15	24.0	72135	F17T8/XL/SPX50/WM/ECO	24	45000	50000	1175	1105	5000	80	☺	\$	✶	1,18,20	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	Footnotes	Warning and Caution Notices	Additional Information
Ultra Energy Saving T8 Lamps (continued)																		
3' T8 Ecolux® Watt-Miser® 22 Watt Lamp																		
T8	Medium Bi-Pin (G13)	22	36.0	72136	F25T8/XL/SPX30/WM/ECO	24	45000	50000	1925	1810	3000	85	☺	\$	✖	1,18,20	101	
		22	36.0	72137	F25T8/XL/SPX35/WM/ECO	24	45000	50000	1925	1810	3500	85	☺	\$	✖	1,18,20	101	
		22	36.0	72138	F25T8/XL/SPX41/WM/ECO	24	45000	50000	1925	1810	4100	82	☺	\$	✖	1,18,20	101	
		22	36.0	72139	F25T8/XL/SPX50/WM/ECO	24	45000	50000	1900	1785	5000	80	☺	\$	✖	1,18,20	101	
4' T8 Ecolux® 25 Watt Lamp																		
T8	Medium Bi-Pin (G13)	25	48.0	66467	F32T8/25W/SPP35/ECO	36	40000	45000	2500	2350	3500	80	☺	\$	✖	1,18,21	101	CEE Approved
		25	48.0	66468	F32T8/25W/SPP41/ECO	36	40000	45000	2500	2350	4100	80	☺	\$	✖	1,18,21	101	CEE Approved
		25	48.0	66469	F32T8/25W/SPP50/ECO	36	40000	45000	2500	2350	5000	80	☺	\$	✖	1,18,21	101	CEE Approved
		25	48.0	72128	F32T8/25W/SPX30/ECO	36	50000	55000	2500	2350	3000	85	☺	\$	✖	1,18,21	101	CEE Approved
		25	48.0	72129	F32T8/25W/SPX35/ECO	36	50000	55000	2500	2350	3500	85	☺	\$	✖	1,18,21	101	CEE Approved
		25	48.0	72130	F32T8/25W/SPX41/ECO	36	50000	55000	2500	2350	4100	85	☺	\$	✖	1,18,21	101	CEE Approved
		25	48.0	72131	F32T8/25W/SPX50/ECO	36	50000	55000	2500	2350	5000	80	☺	\$	✖	1,18,21	101	CEE Approved
4' T8 Ecolux® 25 Watt Super Long Life																		
T8	Medium Bi-Pin (G13)	25	48.0	93905	F32T825W/SXL/SPX35/ECO	36	80,000	84,000	2,400	2,260	3500	82	☺	\$	✖	18, 21	101	CEE Approved
		25	48.0	93906	F32T825W/SXL/SPX41/ECO	36	80,000	84,000	2,400	2,260	4100	82	☺	\$	✖	18, 21	101	CEE Approved
		25	48.0	93907	F32T825W/SXL/SPX50/ECO	36	80,000	84,000	2,400	2,260	5000	80	☺	\$	✖	18, 21	101	CEE Approved
4' T8 Ecolux® UltraMax® 28 Watt Lamp																		
T8	Medium Bi-Pin (G13)	28	48.0	66471	F28T8/XL/SPP35/ECO	36	40000	45000	2600	2440	3500	80	☺	\$	✖	1,18,21	101	CEE Approved
		28	48.0	66472	F28T8/XL/SPP41/ECO	36	40000	45000	2600	2440	4100	80	☺	\$	✖	1,18,21	101	CEE Approved
		28	48.0	66473	F28T8/XL/SPP50/ECO	36	40000	45000	2600	2440	5000	80	☺	\$	✖	1,18,21	101	CEE Approved
		28	48.0	72863	F28T8/XL/SPX30/ECO	36	45000	50000	2675	2515	3000	85	☺	\$	✖	1,18,21	101	CEE Approved
		28	48.0	72864	F28T8/XL/SPX35/ECO	36	45000	50000	2675	2515	3500	85	☺	\$	✖	1,18,21	101	CEE Approved
		28	48.0	72866	F28T8/XL/SPX41/ECO	36	45000	50000	2675	2515	4100	82	☺	\$	✖	1,18,21	101	CEE Approved
		28	48.0	72867	F28T8/XL/SPX50/ECO	36	45000	50000	2675	2515	5000	80	☺	\$	✖	1,18,21	101	CEE Approved
		28	48.0	66346	F28T8/XL/SPX65/ECO	36	45000	50000	2600	2440	6500	80	☺	\$	✖	1,18,21	101	CEE Approved
4' T8 Ecolux® UltraMax® 28 Watt Super Long Life																		
T8	Medium Bi-Pin (G13)	28	48.0	93902	F28T8/SXL/SPX35/ECO	36	80,000	84,000	2,600	2,440	3500	82	☺	\$	✖	18, 21	101	CEE Approved
		28	48.0	93903	F28T8/SXL/SPX41/ECO	36	80,000	84,000	2,600	2,440	4100	82	☺	\$	✖	18, 21	101	CEE Approved
		28	48.0	93904	F28T8/SXL/SPX50/ECO	36	80,000	84,000	2,600	2,440	5000	80	☺	\$	✖	18, 21	101	CEE Approved
4' T8 Ecolux® High Lumen																		
T8	Medium Bi-Pin (G13)	32	48.0	10327	F32T8/XL/SPX30/HL/ECO	36	40000	45000	3100	2915	3000	85	☺	\$		18,21	101	CEE Approved
		32	48.0	10326	F32T8/XL/SPX35/HL/ECO	36	40000	45000	3100	2915	3500	85	☺	\$		18,21	101	CEE Approved
		32	48.0	10322	F32T8/XL/SPX41/HL/ECO	36	40000	45000	3100	2915	4100	82	☺	\$		18,21	101	CEE Approved
		32	48.0	42556	F32T8/XL/SPX50/HL/ECO	36	40000	45000	3000	2820	5000	80	☺	\$		18,21	101	CEE Approved
8' T8 Lamps																		
8' T8 XL Extra-Life																		
T8	Single Pin (Fa8)	59	96.0	67969	F96T8/XL/SPP35	24	24000	30000	5800	5220	3500	80	☺				101	
		59	96.0	67970	F96T8/XL/SPP41	24	24000	30000	5800	5220	4100	80	☺				101	
		59	96.0	67971	F96T8/XL/SPP50	24	24000	30000	5800	5220	5000	80	☺				101	
		59	96.0	68868	F96T8/XL/SPX30/2	24	24000	30000	5950	5650	3000	85	☺				101	
		59	96.0	68869	F96T8/XL/SPX35/2	24	24000	30000	5950	5650	3500	85	☺				101	
		59	96.0	68870	F96T8/XL/SPX41/2	24	24000	30000	5950	5650	4100	85	☺				101	
		59	96.0	68871	F96T8/XL/SPX50/2	24	24000	30000	5950	5650	5000	82	☺				101	
8' T8 XL Extra-Life Watt-Miser® Plus Energy Saving Lamps																		
T8	Single Pin (Fa8)	54	96.0	66891	F96T8/54W/SPP35	24	24000	30000	5250	4900	3500	80	☺	\$	✖	1	101	
		54	96.0	66892	F96T8/54W/SPP41	24	24000	30000	5250	4900	4100	80	☺	\$	✖	1	101	
		54	96.0	47076	F96T8/XL/SP35/WMP	24	24000	30000	5800	5450	3500	85	☺	\$	✖	1	101	
		54	96.0	47103	F96T8/XL/SP41/WMP	24	24000	30000	5800	5450	4100	82	☺	\$	✖	1	101	
		54	96.0	66889	F96T8/XL/SP50/WMP	24	24000	30000	5500	5160	5000	80	☺	\$	✖	1	101	
		54	96.0	66890	F96T8/XL/SP65/WMP	24	24000	30000	5400	5020	6500	78	☺	\$	✖	1	101	
8' T8 49W XL Extra-Life Watt-Miser® Energy Saving Lamps																		
T8	Single Pin (Fa8)	49	96.0	66894	F96T8/49W/SPP35	24	24000	30000	4800	4500	3500	80	☺	\$	✖	1	101	
		49	96.0	66895	F96T8/49W/SPP41	24	24000	30000	4800	4500	4100	80	☺	\$	✖	1	101	
		49	96.0	79401	F96T8/49W/SPX30	24	24000	30000	5000	4700	3000	84	☺	\$	✖	1	101	
		49	96.0	79402	F96T8/49W/SPX35	24	24000	30000	5000	4700	3500	84	☺	\$	✖	1	101	
		49	96.0	79403	F96T8/49W/SPX41	24	24000	30000	5000	4700	4100	83	☺	\$	✖	1	101	

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information
8' T8 Lamps (continued)																		
8' T8 Instant Start																		
T8	Single Pin (Fa8)	50	96.0	10912	F96T8/CW	24	7500		4050	3730	4100	60					101	
8' T8 High Output																		
8' T8 High Output – Recessed Double Contact																		
T8	Recessed Double Contact (R17d)	86	96.0	12536	F96T8/SP30/HO	24	18000		8000	7600	3000	78					101	
		86	96.0	12537	F96T8/SP35/HO	24	18000		8000	7600	3500	78					101	
		86	96.0	12538	F96T8/SP41/HO	24	18000		8000	7600	4100	78					101	
		86	96.0	12533	F96T8/SPX35/HO	24	18000		8200	7800	3500	85	☺				101	
		86	96.0	12534	F96T8/SPX41/HO	24	18000		8200	7800	4100	85	☺				101	
		86	96.0	12535	F96T8/SPX50/HO	24	18000		8200	7800	5000	82	☺				101	
		86	96.0	66897	F96T8/SPX65/HO	24	18000		8000	7500	6500	78	☺				101	
T8 Mod-U-Line®																		
T8 1-5/8" Spacing Ecolux®																		
T8	Medium Bi-Pin (G13)	31	22.5	72117	F31T8/SPX30/U/ECO	15	24000		2775	2440	3000	82	☺			20	102	
		31	22.5	72118	F31T8/SPX35/U/ECO	15	24000		2775	2440	3500	82	☺			20	102	
		31	22.5	72119	F31T8/SPX41/U/ECO	15	24000		2775	2440	4100	82	☺			20	102	
T8 1-5/8" 29W Ecolux®																		
T8	Medium Bi-Pin (G13)	29	22.5	62172	F29T8/SPX30/U/ECO	15	24000		2500	2200	3000	82	☺	\$	➔	20	102	
		29	22.5	62173	F29T8/SPX35/U/ECO	15	24000		2500	2200	3500	82	☺	\$	➔	20	102	
		29	22.5	62174	F29T8/SPX41/U/ECO	15	24000		2500	2200	4100	82	☺	\$	➔	20	102	
T8 1-5/8" 26W Ecolux®																		
T8	Medium Bi-Pin (G13)	26	22.5	62169	F26T8/SPX30/U/ECO	15	24000		2250	1980	3000	82	☺	\$	➔	20	102	
		26	22.5	62170	F26T8/SPX35/U/ECO	15	24000		2250	1980	3500	82	☺	\$	➔	20	102	
		26	22.5	62171	F26T8/SPX41/U/ECO	15	24000		2250	1980	4100	82	☺	\$	➔	20	102	
T8 6" Spacing																		
T8	Medium Bi-Pin (G13)	32	22.5	68920	F32T8/SPX30/U6/2	12	20000		2800	2630	3000	82	☺			20	102	
		32	22.5	68921	F32T8/SPX35/U6/2	12	20000		2800	2630	3500	82	☺			20	102	
		32	22.5	68922	F32T8/SPX41/U6/2	12	20000		2800	2630	4100	82	☺			20	102	
		32	22.5	68923	F32T8/SPX50/U6/2	12	20000		2660	2510	5000	82	☺			20	102	
T8 6" Spacing Ecolux®																		
T8	Medium Bi-Pin (G13)	32	22.5	28145	F32T8/SP30/U6/ECO	12	20000		2700	2375	3000	78				20	102	
		32	22.5	28149	F32T8/SP35/U6/ECO	12	20000		2700	2375	3500	78				20	102	
		32	22.5	28152	F32T8/SP41/U6/ECO	12	20000		2700	2375	4100	78				20	102	
		32	22.5	72111	F32T8/SPX30/U6/ECO	12	20000		2800	2465	3000	82	☺			20	102	
		32	22.5	72112	F32T8/SPX35/U6/ECO	12	20000		2800	2465	3500	82	☺			20	102	
		32	22.5	72113	F32T8/SPX41/U6/ECO	12	20000		2800	2465	4100	82	☺			20	102	
T8 6" Spacing Ecolux® Watt-Miser® 30 Watt Lamp																		
T8	Medium Bi-Pin (G13)	30	22.5	72114	F32T8/SPX30/U6/WM/ECO	12	24000		2800	2465	3000	82	☺	\$	➔	20	102	
		30	22.5	72115	F32T8/SPX35/U6/WM/ECO	12	24000		2800	2465	3500	82	☺	\$	➔	20	102	
		30	22.5	72116	F32T8/SPX41/U6/WM/ECO	12	24000		2800	2465	4100	82	☺	\$	➔	20	102	
T8 6" Spacing Ecolux® 28 Watt Lamp																		
T8	Medium Bi-Pin (G13)	28	23.0	67394	F28T8/SPX30/U6/ECO	12	20000		2500	2200	3000	82	☺	\$	➔	20	102	
		28	23.0	67395	F28T8/SPX35/U6/ECO	12	20000		2500	2200	3500	82	☺	\$	➔	20	102	
		28	23.0	67396	F28T8/SPX41/U6/ECO	12	20000		2500	2200	4100	82	☺	\$	➔	20	102	
Other T8 Lengths																		
18" T8 w/Starcoat®																		
T8	Medium Bi-Pin (G13)	15	18.0	49489	F15T8/XL/SPX65	24	24000		875	785	6500	85	☺				101	
5' T8 w/Starcoat®																		
T8	Medium Bi-Pin (G13)	40	60.0	22660	F40T8/SPX30	24	20000		3725	3350	3000	84	☺				101	
		40	60.0	22661	F40T8/SPX35	24	20000		3725	3350	3500	84	☺				101	
		40	60.0	22662	F40T8/SPX41	24	20000		3725	3350	4100	84	☺				101	
6' T8 Instant Start																		
T8	Single Pin (Fa8)	35	72.0	10829	F72T8/CW	24	7500		3000	2730	4100	60					101	Not for sale for use in OR
		35	72.0	10835	F72T8/MW 6PK	6	7500		3100	2820	3000	52					101	Warm White, Not for sale for use in OR

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information	
T8 PolyLux																			
2' T8 PolyLux																			
T8	Medium Bi-Pin (G13)	18	24.0	93311	F18T8/835/XLR	25	20000		1350	1280	3500	85	☺				101		
		18	24.0	93317	F18T8/841/XLR	25	20000		1350	1280	4100	85	☺					101	
4' T8 PolyLux																			
T8	Medium Bi-Pin (G13)	36	48.0	19991	F36WT8/835/XLR	25	20000		3350	3180	3500	85	☺					101	
		36	48.0	16856	F36WT8/841/XLR	25	20000		3350	3180	3500	85	☺						101
5' T8 PolyLux																			
T8	Medium Bi-Pin (G13)	58	60.0	40120	F58T8/835/PLY/XLR	25	20000		5200	4940	3500	85	☺					101	
		58	60.0	40081	F58T8/841/PLY/XLR	25	20000		5200	4940	4000	85	☺						101
6' T8 PolyLux																			
T8	Medium Bi-Pin (G13)	70	70.0	62572	F70T8/835/PLY/XLR	25	20000		6000	5985	3500	85	☺					101	
		70	70.0	62573	F70T8/840/PLY/XLR	25	20000		6000	5985	4100	85	☺						101
T8 Preheat																			
12" T8																			
T8	Medium Bi-Pin (G13)	13	12.0	10098	F13T8/CW	24	7500		565	480	4100	60						101	
15" T8																			
T8	Medium Bi-Pin (G13)	14	15.0	10104	F14T8/CW	24	7500		685	580	4100	60						101	
18" T8																			
T8	Medium Bi-Pin (G13)	15	18.0	17911	F15T8/SP35	24	7500		940	850	3500	75						101	
		15	18.0	19643	F15T8/SP41	24	7500		940	850	4100	72						101	
		15	18.0	19644	F15T8/SPX30	24	7500		1000	900	3000	82	☺					101	
		15	18.0	19645	F15T8/SPX35	24	7500		1000	900	3500	82	☺					101	
		15	18.0	10142	F15T8/CW	24	7500		825	725	4100	60						101	
		15	18.0	10143	F15T8/CW 6PK	24	7500		825	725	4100	60						101	
		15	18.0	10134	F15T8/D	24	7500		700	615	6500	75						101	Daylight
		15	18.0	21326	F15T8/KB 6PK	24	7500		940	850	3000	70						104	Kitchen & Bath
		15	18.0	13968	F15T8/SUN 6PK	24	7500		620	525	5000	90	☺					101	Sunlight
15	18.0	10147	F15T8/WW	24	7500		845	745	3000	52						101	Warm White		
36" T8																			
T8	Medium Bi-Pin (G13)	30	36.0	10316	F30T8/CW 6PK	24	7500		2150	1980	4100	60						101	
		30	36.0	10310	F30T8/D	24	7500		1850	1625	6500	75						101	Daylight
		30	36.0	22747	F30T8/KB 6PK	24	7500		2125	1910	3000	70						104	Kitchen & Bath
T12 Lamps																			
3' T12 Ecolux® - Rapid Start																			
25W																			
T12	Medium Bi-Pin (G13)	25	36.0	80080	F25T12/SP30/RS/WM/ECO	24	18000		2025	1780	3000	70		\$	☹			101	
		25	36.0	80081	F25T12/SP35/RS/WM/ECO	24	18000		2025	1780	3500	73		\$	☹			101	
		25	36.0	80065	F25T12/CWRSWM/ECO	24	18000		1925	1640	4100	60		\$	☹			101	
		25	36.0	80077	F25T12/WW/RS/WM/ECO	24	18000		1975	1640	3000	52		\$	☹			101	Warm White
30W																			
T12	Medium Bi-Pin (G13)	30	36.0	80087	F30T12/SP35/RS/ECO	24	18000		2350	2120	3500	73						101	
		30	36.0	80088	F30T12/SP41/RS/ECO	24	18000		2350	2120	4100	72						101	
		30	36.0	80089	F30T12/SPX30/RS/ECO	24	18000		2375	2140	3000	82	☺					101	
		30	36.0	80090	F30T12/SPX35/RS/ECO	24	18000		2375	2140	3500	82	☺					101	
		30	36.0	80083	F30T12/C50/RS/ECO	24	18000		1650	1350	5000	90	☺					101	Chroma 50
		30	36.0	80084	F30T12/CW/RS/ECO	24	18000		2200	1910	4100	60						101	
		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/WW/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	66474	F34CX41/WM/ECO	30	20000		2500	2200	4100	87	☺	\$	☹	1	101		
		34	48.0	66649	F34CW/C/WM/ECO	30	15000		1800	1500	4100	87	☺	\$	☹	1	101		
		34	48.0	80092	F34C50/RS/WM/ECO	30	20000		2000	1720	5000	90	☺	\$	☹	1	101	Chroma 50	
		34	48.0	80093	F34DX/RS/WM/ECO	30	20000		1750	1450	6500	90	☺	\$	☹	1	101	Daylight Deluxe	

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
4' T12 – Rapid Start (continued)																		
40W Ecolux® – TCLP Compliant																		
T12	Medium Bi-Pin (G13)	40	48.0	66650	F40UT/ECO/UPC	30	15000		2100	1900	4100	87	☺				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	Not for Sale for Use in CA, VM, OR
		40	48.0	80097	F40DX/ECO	30	20000		2050	1740	6500	90	☺				101	Daylight Deluxe
		40	48.0	80098	F40N/ECO	30	20000		2100	1740	3700	90	☺				101	Natural
		40	48.0	12224	F40SUN/ECO 6PK	24	20000		2250	1870	5000	90	☺				101	Sunlight
Watt-Miser® Energy Saving Lamps																		
T12 3-5/8" Spacing Watt-Miser®																		
T12	Medium Bi-Pin (G13)	35	22.5	68050	F35/CW/C/U3/W/M	12	14000		1650	1400	4100	87						
		35	23.0	66854	F35/CX41/U3/W/M	12	14000		2300	2185	4100	87	☺	\$	↔	1	102	
T12 6" Spacing Watt-Miser®																		
T12	Medium Bi-Pin (G13)	35	22.5	68051	F35/CW/C/U6/W/M	12	14000		1650	1400	4100	87						
		35	23.0	66855	F35/CX41/U6/W/M	12	14000		2300	2185	4100	87	☺	\$	↔	1	102	
		35	23.0	66851	F35/CX41/U6WMUPC	12	14000		2300	2185	4100	87	☺	\$	↔	1	102	
T12 Instant Start																		
T12	Single Pin (Fa8)	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/SPX30	24	9000		3050	2870	3000	82	☺					101
		40	48.0	15116	F48T12/SPX35	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 (Fa8)	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 (Fa8)	75	96.0	14652	F96T12/DX	15	12000		4300	3870	6500	90	☺				101	Daylight Deluxe
		75	96.0	13725	F96T12/N 15PK	15	12000		4250	3740	3700	90	☺				101	Natural
		75	96.0	13752	F96T12/C50	15	12000		4600	4050	5000	90	☺				101	Chroma 50
Watt-Miser® Energy Saving Lamps																		
8" Instant Start Watt-Miser®																		
T12	Single Pin (Fa8)	60	96.0	13756	F96T12/C50/W/M 15PK	15	12000		4000	3520	5000	90	☺	\$	↔	1	101	Chroma 50
8" Instant Start Watt-Miser® XL Extra-life																		
T12	Single Pin (Fa8)	60	96.0	68052	F96T12/CW/C/W/M	15	12000		3600	2900	4100	90						
		60	96.0	66857	F96T12XL/HL35/W/M	15	12000		5900	5480	3500	80	☺	\$	↔	1	101	
		60	96.0	66858	F96T12XL/HL41/W/M	15	12000		5900	5480	4100	80	☺	\$	↔	1	101	
		60	96.0	66859	F96T12XL/HL50/W/M	15	12000		5900	5480	5000	80	☺	\$	↔	1	101	
		60	96.0	66860	F96T12XL/HL65/W/M	15	12000		5700	5290	6500	78	☺	\$	↔	1	101	
		60	96.0	66856	F96T12XL/HL35/W/M/UPC	15	12000		5900	5480	3500	80	☺	\$	↔	1	101	
60	96.0	66852	F96T12XL/HL41/W/M/UPC	15	12000		5900	5480	4100	80	☺	\$	↔	1	101			
T12 Other Lengths																		
5' T12 Instant Start																		
T12	Single Pin (Fa8)	50	60.0	23073	F60T12/CW 15PK	15	12000		3600	3310	4100	60					101	
		50	60.0	23076	F60T12/D 15PK	15	12000		3000	2760	6500	75					101	Daylight
64" T12 Instant Start																		
T12	Single Pin (Fa8)	50	64.0	23082	F64T12/CW15PK	15	10000		3850	3540	4100	60					101	
		50	64.0	23085	F64T12/D 15PK	15	10000		3300	3040	6500	75					101	Daylight

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information	
T12 Lamps (continued)																			
T12 Other Lengths (continued)																			
6' T12 Instant Start																			
T12	Single Pin (Fa8)	55	72.0	15286	F72T12/SP35 15PK	15	12000		4700	4420	3500	73					101		
		55	72.0	15097	F72T12/SP41	15	12000		4700	4420	4100	72					101		
		55	72.0	15117	F72T12/SPX30 15PK	15	12000		4800	4510	3000	82	☺				101		
		55	72.0	15098	F72T12/SPX35 15PK	15	12000		4800	4510	3500	82	☺				101		
		55	72.0	13743	F72T12/CW 15PK	15	12000		4500	4140	4100	60						101	
		55	72.0	12525	F72T12/CW/UPC 10PK	10	12000		4500	4140	4100	60						101	
		55	72.0	13748	F72T12/D 15PK	15	12000		3800	3500	6500	75						101	Daylight
7' T12 Instant Start																			
T12	Single Pin (Fa8)	65	84.0	13764	F84T12/CW 15PK	15	12000		5300	4880	4100	60					101		
T12 High Output (800mA) Rapid Start Recessed Double Contact																			
18" High Output																			
T12	Recessed Double Contact (R17d)	30	18.0	10204	F18T12/CW/HO	24	9000		1000	750	4100	60					101		
2' High Output																			
T12	Recessed Double Contact (R17d)	35	24.0	10261	F24T12/CW/HO	24	9000		1620	1345	4100	60					101		
		35	24.0	10275	F24T12/D/HO	24	9000		1400	1160	6500	74					101	Daylight	
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/SPX35/HO	24	12000		4350	3920	3500	82	☺				101		
		60	48.0	10773	F48T12/CW/HO	24	12000		3825	3320	4100	60					101		
		60	48.0	27313	F48T12/CW/HO/UPC	24	12000		4050	3520	4100	60					101		
		60	48.0	10778	F48T12/D/HO	24	12000		3400	2960	6500	75					101	Daylight	
		60	48.0	10573	F48T12/SGN/HO	24	12000		3100	2640	5400	80	☺				101	Sign White	
		4' High Output Watt-Miser® Energy Saving Lamps																	
T12	Recessed Double Contact (R17d)	55	48.0	15342	F48T12/SP35/HO/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	

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information	
T12 Lamps (continued)																			
T12 High Output (800mA) Rapid Start Recessed Double Contact (continued)																			
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/SPX30/HO 15PK	15	12000		6800	6120	3000	82	☺				101		
		85	72.0	15351	F72T12/SPX35/HO 15PK	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/WW/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	13707	F96T12/C50/HO 15PK	15	12000		6750	5670	5000	90	☺				101	Chroma 50	
		110	96.0	14653	F96T12/DX/HO	15	12000		6100	5185	6500	90	☺				101	Daylight Deluxe	
8' High Output Watt-Miser® Energy Saving Lamps																			
T12	Recessed Double Contact (R17d)	95	96.0	66861	F96T12/HL30/HO/WM	15	12000		8850	7920	3000	77	☺	\$	↔	1	101		
		95	96.0	66862	F96T12/HL41/HO/WM	15	12000		8850	7920	4100	77	☺	\$	↔	1	101		
		95	96.0	66853	F96T12/HL41/HO/WM/UPC	15	12000		8850	7920	4100	77	☺	\$	↔	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/KB 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/KB 6PK	24	9000		785	730	3000	70					104	Preheat, Kitchen & Bath	
		15	18.0	10185	F15T12/WW	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/SPX35/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/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	80050	F20T12/WW/ECO	24	9000		1250	1150	3000	52					101	Preheat, Warm White	
		20	24.0	25577	F20T12/WW/ECO/UPC	24	9000		1250	1150	3000	52					101	Preheat, Warm White	
Other Diameters																			
T6 Instant Start																			
T6	Single Pin (Fa8)	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/WW	24	7500		1825	1640	3000	52					101	Warm White	
		40	64.0	10805	F64T6/CW	24	7500		2800	2520	4100	60					101		
		40	64.0	10807	F64T6/WW	24	7500		2900	2610	3000	52					101	Warm White	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information			
Other Diameters (continued)																					
T17 Instant Start																					
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			
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 Circline® 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		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	
		Special Application Lamps																			
covGuard® Shatter Resistant																					
T5 High Efficiency																					
T5	Miniature Bi-Pin (G5)	14	21.6	73194	F14W/T5/830/ECO/CVG	40	30000	36000	1310	1200	3000	85	☺				11,13	103	Blocks UV		
		14	21.6	73195	F14W/T5/835/ECO/CVG	40	30000	36000	1310	1200	3500	85	☺					11,13	103	Blocks UV	
		28	45.2	81546	F28W/T5/830/ECO/CVG	40	30000	36000	2813	2672	3000	85	☺					11,13	103	Blocks UV	
		28	45.2	81547	F28W/T5/835/ECO/CVG	40	30000	36000	2813	2672	3500	85	☺						11,13	103	Blocks UV
		28	45.2	81548	F28W/T5/841/ECO/CVG	40	30000	36000	2813	2672	4100	85	☺						11,13	103	Blocks UV
		28	45.2	81549	F28W/T5/850/ECO/CVG	40	30000	36000	2667	2534	5000	85	☺						11,13	103	Blocks UV
		28	45.2	81550	F28W/T5/865/ECO/CVG	40	30000	36000	2319	2488	6500	85	☺						11,13	103	Blocks UV
		T5 High Output																			
T5	Miniature Bi-Pin (G5)	24	21.6	71000	F24W/T5/830/ECO/CVG	40	30000	36000	1950	1853	3000	85	☺				11	103			
		24	21.6	70998	F24W/T5/835/ECO/CVG	40	30000	36000	1950	1853	3500	85	☺					11	103		
		24	21.6	70997	F24W/T5/841/ECO/CVG	40	30000	36000	1950	1853	4100	85	☺					11	103		
		24	21.6	70999	F24W/T5/850/ECO/CVG	40	30000	36000	1850	1758	5000	85	☺						11	103	
		39	33.4	70995	F39W/T5/830/ECO/CVG	40	30000	36000	3400	3230	3000	85	☺						11	103	
		39	33.4	70994	F39W/T5/835/ECO/CVG	40	30000	36000	3400	3230	3500	85	☺						11	103	
		39	33.4	70993	F39W/T5/841/ECO/CVG	40	30000	36000	3400	3230	4100	85	☺						11	103	
		39	33.4	70990	F39W/T5/865/ECO/CVG	40	30000	36000	3200	3040	6500	85	☺						11	103	
		54	45.2	48433	F54T5/830/HO/ECO/CVG	40	30000	36000	4850	4560	3000	85	☺						11	103	
		54	45.2	48436	F54T5/835/HO/ECO/CVG	40	30000	36000	4850	4560	3500	85	☺						11	103	
		54	45.2	48458	F54T5/841/HO/ECO/CVG	40	30000	36000	4850	4560	4100	85	☺						11	103	
		54	45.2	80311	F54T5/850/HO/ECO/CVG	40	30000	36000	4650	4370	5000	85	☺						11	103	
		54	45.2	48469	F54T5/865/HO/ECO/CVG	40	30000	36000	4650	4320	6500	85	☺						11	103	
		T5 High Output Watt-Miser®																			
T5	Miniature Bi-Pin (G5)	51	45.2	72986	F54T5/835/WM/ECO/CVG	40	30000	36000	4850	4560	3500	85	☺	\$	↔	11	103				
		51	45.2	72987	F54T5/841/WM/ECO/CVG	40	30000	36000	4850	4560	4100	85	☺	\$	↔	11	103				
		51	45.2	72988	F54T5/850/WM/ECO/CVG	40	30000	36000	4650	4370	5000	85	☺	\$	↔	11	103				
		47	45.0	65106	F54T5/47W/841CVG	40	30000	36000	4728	4343	4100	85	☺	\$	↔	11	103				
		47	45.0	65107	F54T5/47W/850CVG	40	30000	36000	4531	4167	5000	85	☺	\$	↔	11	103				
T5 Preheat Lamps																					
T5	Miniature Bi-Pin (G5)	8	12.0	41107	F8T5/CW/CVG	24	5000		385	310	4100	60					11,13	103	Blocks UV		
		13	21.0	41108	F13T5/CW/CVG	24	5000		820	684	4100	60						11,13	103	Blocks UV	

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information
Special Application Lamps (continued)																		
T8 Ecolux® w/ Starcoat®																		
2' T8 Ecolux® w/ Starcoat®																		
T8	Medium Bi-Pin (G13)	17	24.0	15974	F17T8SP35ECCOCVG	24	30000	36000	1280	1220	3500	78				11,13,18	103	Blocks UV
		17	24.0	15977	F17T8SP41ECCOCVG	24	30000	36000	1280	1220	4100	78				11,13,18	103	Blocks UV
		17	24.0	15975	F17T8SPX35ECCOCVG	24	30000	36000	1310	1242	3500	85	☺			11,13,18	103	Blocks UV
		17	24.0	15976	F17T8SPX41ECCOCVG	24	30000	36000	1310	1242	4100	85	☺			11,13,18	103	Blocks UV
		17	24.0	28885	F17T8LSPX50ECCOCVG	24	40000	45000	1310	1243	5000	82	☺			11,13,18	103	Blocks UV
3' Ecolux® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	25	36.0	15978	F25T8SP30ECCOCVG	24	30000	36000	2020	1920	3000	78				11,13,18	103	Blocks UV
		25	36.0	15981	F25T8SP35ECCOCVG	24	30000	36000	2020	1920	3500	78				11,13,18	103	Blocks UV
		25	36.0	15984	F25T8SP41ECCOCVG	24	30000	36000	2020	1920	4100	78				11,13,18	103	Blocks UV
		25	36.0	15989	F25T8SP30ECCOCVG	24	30000	36000	2080	1970	3000	85	☺			11,13,18	103	Blocks UV
		25	36.0	15990	F25T8SP35ECCOCVG	24	30000	36000	2080	1970	3500	85	☺			11,13,18	103	Blocks UV
		25	36.0	15991	F25T8SPX41ECCOCVG	24	30000	36000	2080	1970	4100	85	☺			11,13,18	103	Blocks UV
		25	36.0	28887	F25T8LSPX50ECCOCVG	24	40000	45000	1990	1890	5000	82	☺			11,13,18	103	Blocks UV
4' T8 (48") Ecolux® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	94838	F32T8SP30ECCOCVG	36	30000	36000	2800	2640	3000	80				11,13,18	103	Blocks UV
		32	48.0	94839	F32T8SP35ECCOCVG	36	30000	36000	2800	2640	3500	80				11,13,18	103	Blocks UV
		32	48.0	94861	F32T8SP41ECCOCVG	36	30000	36000	2800	2640	4100	80				11,13,18	103	Blocks UV
		32	48.0	94842	F32T8SP50ECCOCV	36	30000	36000	2800	2640	5000	80				11,13,18	103	Blocks UV
		32	48.0	94843	F32T8SPX65ECCOCV	36	30000	36000	2800	2670	6500	78				11,13,18	103	Blocks UV
		32	48.0	41125	F32T8SP30ECCOCVG	36	30000	36000	2860	2715	3000	85	☺			11,13,18	103	Blocks UV
		32	48.0	41126	F32T8SP35ECCOCVG	36	30000	36000	2860	2715	3500	85	☺			11,13,18	103	Blocks UV
		32	48.0	41127	F32T8SPX41ECCOCVG	36	30000	36000	2860	2715	4100	85	☺			11,13,18	103	Blocks UV
		32	48.0	15971	F32T8SPX50ECCOCVG	36	30000	36000	2715	2580	5000	82	☺			11,13,18	103	Blocks UV
4' T8 Ecolux® XL Extra-life w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	15972	F32T8LSPX30ECCOCVG	36	40000	45000	2860	2715	3000	85	☺			11,13,18	103	Blocks UV
		32	48.0	15973	F32T8LSPX35ECCOCVG	36	40000	45000	2860	2715	3500	85	☺			11,13,18	103	Blocks UV
		32	48.0	18369	F32T8LSPX41ECCOCVG	36	40000	45000	2860	2715	4100	85	☺			11,13,18	103	Blocks UV
		32	48.0	23746	F32T8LSPX50ECCOCVG	36	40000	45000	2715	2580	5000	82	☺			11,13,18	103	Blocks UV
Ultra Energy Saving T8 Lamps w/ covRguard®																		
4' T8 Ecolux® 25 Watt Lamp																		
T8	Medium Bi-Pin (G13)	25	48.0	72814	F32T8/25WSPX41ECCOCVG	36	40000	46000	2425	2350	4100	82	☺	\$	↗	1,11,13,18	103	Blocks UV
		25	48.0	72815	F32T8/25WSPX50ECCOCVG	36	40000	46000	2425	2350	5000	80	☺	\$	↗	1,11,13,18	103	Blocks UV
4' T8 Ecolux® UltraMax® 28 Watt Lamp																		
T8	Medium Bi-Pin (G13)	28	48.0	73292	F28T8/XLSPX30ECCOCV	36	40000	46000	2595	2440	3000	85	☺	\$	↗	1,11,13,18	103	Blocks UV, CEE Approved
		28	48.0	73293	F28T8/XLSPX35ECCOCV	36	40000	46000	2595	2440	3500	85	☺	\$	↗		103	Blocks UV, CEE Approved
		28	48.0	73294	F28T8/XLSPX41ECCOCV	36	40000	46000	2595	2440	4100	82	☺	\$	↗		103	Blocks UV, CEE Approved
		28	48.0	73295	F28T8/XLSPX50ECCOCV	36	40000	46000	2595	2440	5000	80	☺	\$	↗		103	Blocks UV
4' T8 Ecolux® High Lumen XL Extra-Life w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	00268	F32T8XLSPX35HCVG	36	40000	45000	3007	2827	3500	85	☺	\$		11,13,18	103	Blocks UV
		32	48.0	00269	F32T8XLSPX41HCVG	36	40000	45000	3007	2827	4100	82	☺	\$		11,13,18	103	Blocks UV
		32	48.0	80497	F32T8XLSPX50HCVG	36	40000	45000	2910	2735	5000	80	☺	\$		11,13,18	103	Blocks UV
5' T8 w/Starcoat®																		
5' T8 (60") w/Starcoat®																		
T8	Medium Bi-Pin (G13)	40	60.0	41131	F40T8/SPX35/CVG	24	20000		3610	3250	3500	84	☺			11,13	103	Blocks UV
		40	60.0	47351	F40T8/SPX41/CVG	24	20000		3610	3250	4100	84	☺			11,13	103	Blocks UV
T8 Instant Start w/Starcoat®																		
8' T8 (96") Instant Start w/Starcoat®																		
T8	Single Pin (Fa8)	59	96.0	94856	F96T8XL/SPX30/CVG	24	24000	30000	5750	5480	3000	85				11,13	103	Blocks UV
		59	96.0	94859	F96T8XL/SPX35/CVG	24	24000	30000	5600	5060	3500	80				11,13	103	Blocks UV
		59	96.0	94860	F96T8XL/SPX41/CVG	24	24000	30000	5600	5060	4100	80				11,13	103	Blocks UV
		59	96.0	40099	F96T8XL/SPX30CVG	24	24000	30000	5770	5480	3000	85	☺			11,13	103	Blocks UV
		59	96.0	40105	F96T8XL/SPX35/CVG	24	24000	30000	5770	5480	3500	85	☺			11,13	103	Blocks UV
		59	96.0	40106	F96T8XL/SPX41/CVG	24	24000	30000	5770	5480	4100	85	☺			11,13	103	Blocks UV
		59	96.0	48205	F96T8XL/SPX50/CVG	24	24000	30000	5770	5480	5000	82	☺			11,13	103	Blocks UV

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information	
Special Application Lamps (continued)																			
8' T8 High Output Lamps Recessed Double Contact w/Starcoat®																			
T8	Recessed Double Contact (R17d)	86	96.0	40107	F96T8/SP35HO/CVG	24	18000		7760	7370	3500	78				11,12,13	103	Blocks UV	
		86	96.0	40108	F96T8/SP41HO/CVG	24	18000		7760	7370	4100	78				11,12,13	103	Blocks UV	
		86	96.0	81563	F96T8/SPX50HO/CVG	24	18000		7954	7566	5000	82	☺			11,12,13	103	Blocks UV	
T8 Preheat Lamps																			
T8	Medium Bi-Pin (G13)	13	12.0	41109	F13T8/CW/CVG	24	7500		545	465	4100	60				11,13	103	Blocks UV	
		15	18.0	41110	F15T8/CW/CVG	24	7500		800	700	4100	60				11,13	103	Blocks UV	
		15	18.0	46627	F15T8/KB/CVG/UPC	24	7500		910	825	3000	70				11,13	103	Blocks UV	
		15	18.0	46216	F15T8/SP35/CVG	24	7500		910	825	3500	75				11,13	103	Blocks UV	
		15	18.0	41111	F15T8/SPX35/CVG	24	7500		970	870	3500	82	☺			11,13	103	Blocks UV	
T12 Rapid Start Lamps																			
3' Ecolux® T12 (36")																			
T12	Medium Bi-Pin (G13)	30	36.0	80486	F30T12CWRESECOVCV	24	18000		2130	1850	4100	60				11,13	103	Blocks UV	
4' T12 Ecolux® Rapid Start Watt-Miser® Lamps (48")																			
T12	Medium Bi-Pin (G13)	40	48.0	80994	F40DX/ECO/CVG	30	20000		1988	1687	6500	90	☺			11,13	103	Daylight Deluxe	
		40	48.0	80496	F40/CSO/ECO/CVG	30	20000		2180	1810	5000	90	☺			11,13	103	Chroma 50	
T12 Instant Start																			
T12	Single Pin (Fa8)	40	48.0	40127	F48T12/CW/CVG	24	9000		2780	2560	4100	60				11,13	103		
		40	48.0	41144	F48T12/SPX35/CVG	24	9000		2950	2780	3500	82	☺			11,13	103		
		50	60.0	41147	F60T12CW/CVG	15	12000		3490	3210	4100	60				11,13	103		
		55	72.0	41153	F72T12/SPX35/CVG	15	12000		4650	4370	3500	82	☺			11,13	103		
T12 Instant Start - Watt-Miser® Energy Saving Lamps																			
8' T12 Rapid Start Watt-Miser® Lamps (96")																			
T12	Single Pin (Fa8)	60	96.0	26038	F96T12XLHL41WMCV	15	12000		5723	5315	4100	80	☺	\$	↖	1,11,14	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	
T12 High Output Lamps Recessed Double Contact																			
T12	Recessed Double Contact (R17d)	60	48.0	40129	F48T12/CW/HO/CVG	24	12000		3930	3410	4100	60				11,12,13	103		
		75	60.0	41148	F60T12/CW/HO/CVG	15	12000		4990	4340	4100	60				11,12,13	103		
		85	72.0	40811	F72T12CW/HO/CVG	15	12000		6150	5350	4100	60				11,12,13	103		
		85	72.0	46207	F72T12SP35HO/CVG	15	12000		6450	5810	3500	73				11,12,13	103		
		85	72.0	41152	F72T12SPX30HOCVG	15	12000		6590	5930	3000	82	☺			11,12,13	103		
		85	72.0	41154	F72T12SPX35HOCVG	15	12000		6590	5930	3500	82	☺			11,12,13	103		
		110	96.0	46430	F96T12/DX/HO/CVG	15	12000		5917	5029	6500	90	☺			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	26039	F96T12HL41HOWMCV	15	12000		8580	7680	4100	77	☺	\$	↖	1,11,12,13	103		
Germicidal covRguard®																			
T8																			
T8	Medium Bi-Pin (G13)	15	18.0	72761	G15T8/CVG	24	7500									9	106		
Cold Temperature Lamps																			
T5																			
T5	Miniature Bi-Pin (G5)	54	45.2	81522	F54T5/841/CT	36	30000	36000	4500	4275	4100	85	☺			11,13,17	101	Plastic Jacket	
T8																			
T8	Medium Bi-Pin (G13)	58	60.0	16148	F58T8/835/CT	24	20000		4680	4450	3500	85	☺			11,13,17	101	Plastic Jacket	
		58	60.0	23752	F58T8/841/CT	24	20000		4680	4450	4100	85	☺			11,13,17	101	Plastic Jacket	
		70	72.0	16149	F70T8/835/CT	18	20000		5670	5386	3500	85	☺			11,13,17	101	Plastic Jacket	
		70	72.0	23754	F70T8/841/CT	18	20000		5670	5386	4100	85	☺			11,13,17	101	Plastic Jacket	

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 4-26).

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information	
Cold Temperature Lamps (continued)																			
High Output (800mA) Recessed Double Contact																			
T12	Recessed Double Contact (R17d)	85	72.0	46199	F72T12/CW/HO-CT	8	12000		6150	5350	4100	60				11,13,17	101	Plastic Jacket	
		110	96.0	11918	F96T12/CW/HO/CT	15	12000		8900	7740	4100	60				11,13,17	101		
		110	96.0	11919	F96T12/D/HO/CT	15	12000		7600	6610	6500	75				11,13,17	101		
T10 Very High Output (1500mA) Recessed Double Contact																			
T10	Recessed Double Contact (R17d)	110	48.0	10742	F48T10/CW	24	9000		6200	10742	4100	60				4	101		
		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	F48T12CW/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			
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		1150	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	
		17	24.0	72759	F17T8/BLB/6PK	24	7000									8	105	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
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	
Blacklight Blue																			
T5	Miniature Bi-Pin (G5)	4	6.0	10019	F4T5/BLB	24	5000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
		8	12.0	10077	F8T5/BLB	24	5000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
T8	Medium Bi-Pin (G13)	15	18.0	35885	F15T8/BLB 6PK	24	7500									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
T12	Medium Bi-Pin (G13)	20	24.0	34747	F20T12/BLB 6PK	24	9000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
		40	48.0	10531	F40BLB 6PK	24	20000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information	
Colored Lamps																			
T8																			
T8	Medium Bi-Pin (G13)	32	48.0	94847	F32T8/B/65ECOCVG2	36	20000										103	Sleeved Rosco Blue 65	
		32	48.0	94849	F32T8/G/89ECOCVG2	36	20000										103	Sleeved Rosco Green 89	
		32	48.0	94850	F32T8/R/24ECOCVG2	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	
Preheat																			
T12	Medium Bi-Pin (G13)	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	
T12																			
T12	Medium Bi-Pin (G13)	40	48.0	25850	F40/GO/CVG	30	20000		2510	2460							103	Gold Sleeved, Blocks UV and Deep Blue Emissions	
T12	Single Pin (Fa8)	55	72.0	25854	F72T12/GO/CVG	15	12000		4150	4070							103	Gold Sleeved, Blocks UV and Deep Blue Emissions	
		55	96.0	25852	F96T12/GO/CVG	15	12000		5640	5530							103	Gold Sleeved, Blocks UV and Deep Blue Emissions	
T12	Recessed Double Contact (R17d)	110	96.0	25853	F96T12/GO/HO/CVG	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
T5	Single Pin (Fa8)	39	36.0	15874	G36T5	24	9000										16	106	Clear, UVC Source
		65	64.0	15864	G64T5	24	9000									16	106	Clear, UVC Source	
T5	4-Pin (G10q)	16	13.0	29502	G16T5/4P/SE	24	8000									9,16	106	Clear, UVC Source	
		39	34.0	29503	G36T5/4P/SE	24	9000								9,16	106	Clear, UVC Source		
		65	64.0	29504	G64T5/4P/SE	24	9000								9,16	106	Clear, UVC Source		
T8	Medium Bi-Pin (G13)	9.5	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		
T10	Medium Bi-Pin (G13)	55	36.0	15875	G55T8/HO	24	8000									16	106	Clear, UVC Source	
		20	24.0	15876	G20T10	24	8000								9,16	106	Clear, UVC Source		
Plant and Aquarium/Terrarium Lamps																			
T8																			
18" T8 Lamps																			
T8	Medium Bi-Pin (G13)	15	18.0	22910	F15T8/AR/FS 6PK	24	7500		675		9325	64					104	Aquarium Lamp Freshwater & Saltwater	
		15	18.0	49892	F15T8/PL/AQ 6PK	24	7500		510		3100	90					104	Plant & Aquarium Wide Spectrum	

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information
Plant and Aquarium/Terrarium Lamps (continued)																		
T12																		
24" T12 Lamps																		
T12	Medium Bi-Pin (G13)	20	24.0	49891	F20T12/PL/AQ/ECO	24	9000		750		3100	90	☺				104	Plant & Aquarium Wide Spectrum
48" T12 Lamps																		
T12	Medium Bi-Pin (G13)	40	48.0	49893	F40PL/AQ/ECO	24	20000		1900		3100	90	☺				104	Plant & Aquarium Wide Spectrum
Export Outside U.S. and Canada Only																		
T12	Medium Bi-Pin (G13)	40	22.5	14496	F40CW/U/6/EX	12	14000		2800	2460	4100	60					102	6" Spacing Between Legs
		40	22.5	14498	F40D/U/6/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	F96T12D/EX 15PK	15	12000		5250	4330	6500	75					101	Daylight
T12	Recessed Double Contact (R17d)	110	96.0	12540	F96T12CW/HO/EX	15	12000		8900	7740	4100	60					101	
		110	96.0	12542	F96T12D/HO/EX15	15	12000		7600	6610	6500	75					101	Daylight
Consumer Products																		
T8																		
4' T8																		
T8	Medium Bi-Pin (G13)	32	48.0	66834	F32T8/KBP/2PK-24	24	20000		2900	2600	3000	80	☺				101	
		32	48.0	66829	F32T8/KBP/ECO/2P	6	20000		2900	2600	3000	80	☺				101	
		32	48.0	66837	F32T8/WS/ECO/2P	24	20000		2900	2600	3500	80	☺				101	
		32	48.0	66826	F32T8/GB/ECO/UPC	36	20000		2900	2600	4100	80	☺				101	
		32	48.0	66833	F32T8/GB/2PK-24	24	20000		2900	2600	4100	80	☺				101	
		32	48.0	66828	F32T8/GB/ECO/2P	6	20000		2900	2600	4100	80	☺				101	
		32	48.0	66836	F32T8/UT/2P-24	24	15000		1800	1600	4100	87	☺				101	
		32	48.0	66827	F32T8/UT/ECO/UPC	36	15000		1800	1600	4100	87	☺				101	
		32	48.0	66831	F32T8/UT/ECO/2P	6	15000		1800	1600	4100	87	☺				101	
		32	48.0	66832	F32T8/CL/2PK-24	24	20000		2900	2600	5000	80	☺				101	
		32	48.0	66835	F32T8/AS/ECO/2P	24	20000		2900	2600	6500	80	☺				101	
		32	48.0	66830	F32T8/AS/2PK-24	6	20000		2900	2600	6500	80	☺				101	
T12																		
4' F40 Ecolux® Standard																		
T12	Medium Bi-Pin (G13)	40	48.0	25399	F40C50/ECO/UPC	30	20000		2250	1870	5000	90	☺				101	Chroma 50
		40	48.0	12224	F40/SUN/ECO/6PK	24	20000		2250	1870	5000	90					101	Sunlight
		40	48.0	66655	F40/KBP/ECO/2P	9	20000		2900	2600	3000	87	☺				101	
		40	48.0	66652	F40/GB/ECO/2P	9	20000		2900	2600	4100	87	☺				101	
		40	48.0	66651	F40/UT/ECO/2P	9	15000		2100	1900	4100	87	☺				101	
		40	48.0	66653	F40/CL/ECO/2P	9	20000		2900	2600	5000	87	☺				101	
		40	48.0	66654	F40/AS/ECO/2P	9	20000		2900	2600	6500	87	☺				101	
		40	48.0	66650	F40UT/ECO/UPC	30	15000		2100	1900	4100	87	☺				101	
Mod-U-Line® Watt-Miser® U-Tubes																		
T12	Medium Bi-Pin (G13)	35	23.0	66851	F35/CX41/U6WMUPC	12	14000		2300	2185	4100	87	☺	\$	➔	1	102	
T12 Instant Start																		
4' T12																		
T12	Single Pin (Fa8)	40	48.0	20461	F48T12CW/UPC 6PK	24	9000		2875	2650	4100	60					101	
8' T12 Watt-Miser® Energy Saving Lamps																		
T12	Single Pin (Fa8)	60	96.0	66856	F96T12/XL/HL35/WM/UPC	15	12000		5900	5480	3500	80	☺	\$	➔	1	101	
		60	96.0	66852	F96T12/XL/HL41/WM/UPC	15	12000		5900	5480	4100	80	☺	\$	➔	1	101	
T12 Rapid Start																		
T12	Medium Bi-Pin (G13)	30	36.0	77119	F30T12/RS/KB/ECO	24	18000		2350	2120	3000	70					104	Kitchen & Bath

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information		
Consumer Products (continued)																				
T12 High Output Rapid Start Recessed Double Contact																				
T12	Recessed Double Contact (R17d)	60	48.0	27313	F48T12/CW/HO/UPC	24	12000		4050	3520	4100	60					101			
Preheat																				
T5																				
T5	Miniature Bi-Pin (G5)	4	6.0	15983	F4T5/CW/CB	10	5000		135	100	4100	60					101	Preheat		
		6	9.0	15986	F6T5/CW/CB	10	5000		295	235	4100	60					101	Preheat		
		8	12.0	67419	F8T5/KB/RVL/CB	10	5000		400	320	2600	75							Reveal	
		8	12.0	15987	F8T5/CW/CB	10	5000		400	320	4100	60						101	Preheat	
		8	12.0	25425	F8T5/WW/CB	5	5000		410	330	3000	52						101	Preheat, Warm White	
		13	21.0	67420	F13T5/KB/RVL/CB	5	5000		880	640	2600	75								Reveal
		13	21.0	49333	F13T5/CW/CB	5	5000		850	705	4100	60						101		
		13	21.0	25426	F13T5/WW/CB	5	5000		870	720	3000	52						101	Preheat, Warm White	
T8																				
T8	Medium Bi-Pin (G13)	18	15.0	79043	F15T8/KB/RVL 6PK	24	7500		825	743	2600	60					104	Reveal		
		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		
		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		
		24	20.0	79042	F20T12/KB/ECO/RVL	24	9000		1125	1012	2600	60						104	Reveal	
		20	24.0	80046	F20T12/CW/ECO 6PK	24	9000		1200	1150	4100	60						101	Preheat	
		20	24.0	25575	F20T12/DJ/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/ECO/UPC	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	Blacklight, UVA Source		
		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		
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			
		22	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		

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3 hr/ start)	Rated Life (12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Warning and Caution Notices	Additional Information
covGuard® Shatter Resistant																		
T8 Preheat																		
T8	Medium Bi-Pin (G13)	15	18.0	46627	F15T8/KB/CVG/UPC	24	7500		910	825	3000	70				11,13	103	Blocks UV
T12 Rapid Start Watt-Miser®																		
T12	Medium Bi-Pin (G13)	34	48.0	26044	F34CX41WMECOCCVG	30	20000		2400	2130	4100	87	☞	\$	*	1,11,13	101	Blocks UV
T12 Preheat																		
T12	Medium Bi-Pin (G13)	20	24.0	80984	F20T12CWECOCVGUPC	24	9000		1160	1110	4100	60				11,13	103	Blocks UV
Plant and Aquarium / Terrarium																		
T8	Medium Bi-Pin (G13)	15		22910	F15T8/AR/FS 6PK	24	7500		675		9325	64					104	Aquarium Lamp Fresh-water & Saltwater
		15	18.0	49892	F15T8/PL/AQ 6PK	24	7500		510		3100	90					104	Plant & Aquarium Wide Spectrum
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	49891	F20T12/PL/AQ/ECO	24	9000		750		3100	90	☞				104	Plant & Aquarium Wide Spectrum
		40	48.0	49893	F40PL/AQ/ECO	24	20000		1900		3100	90	☞				104	Plant & Aquarium Wide Spectrum

Operating Notes

General Operation

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

Factors Affecting Lamp Performance

Ballasts

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

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

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

Ballast Factor – This is the percentage of a lamp’s rated lumen output that can be expected when operated on a specific, commercially available ballast 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.

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 for lamp classification purposes 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.

Performance Notes:

T8 Lamps:

- Rated life for 2 ft through 4 ft. Starcoat® 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.

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beem and Automotive

Projection

Fluorescent Lamps

Scotopic/Photopic (S/P) Ratio:

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T5	S/P Ratio
830	1.3
835	1.5
841	1.7
850	1.9
865	2.2
F28T8	S/P Ratio
SP30	1.3
SP35	1.5
SP41	1.8
SP50	2.0

F17 and F25T8	S/P Ratio
SP30	1.3
SP35	1.4
SP41	1.6
F17 and F25T8	S/P Ratio
SPX30	1.3
SPX35	1.5
SPX41	1.8
SPX50	2.0
SPX65	2.3

F32 and F32T8/WM	S/P Ratio
SP30	1.3
SP35	1.4
SP41	1.6
SP50	1.9
SP65	2.1
F32T8 and F32T8/HL	S/P Ratio
SPX30	1.3
SPX35	1.5
SPX41	1.8
SPX50	2.0
SPX65	2.3

Footnotes

- 1 Watt-Miser®, Watt-Miser® Plus, F28T8, F32T8/25W and Energy Efficient (EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. These lamps are not recommended for use with dimming systems. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F34 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps and F28UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart® programmed rapid start ballasts.
- 3 F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.
- 4 Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.
- 6 Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).
- 7 Performance data based on engineering estimates.
- 8 **CAUTION:** Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.
- 9 **WARNING:** Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.
- 10 Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
- 11 Lumen rating based on approximate 3% reduction in light output with covRguard® sleeving.
- 12 Do not use covRguard® HO lamps in watertight or airtight fixtures.
- 13 Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
- 14 Life rating is based on 12 hrs. per start.
- 15 Lumen rating based on approximate 3% reduction in light output with jacket.
- 16 Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
- 17 Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).
- 18 T8 lamps run on Instant Start ballasts should not be used in conjunction with electronic controls such as occupancy sensors. The frequent switching will significantly impact lamp life and void any warranties. Programmed Rapid Start ballasts such as GE's UltraStart® ballast should be used in these situations.
- 19 T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)
- 20 Rated life is given for programmed start ballasts. Life ratings are based on engineering data with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 25% shorter on instant start ballasts as compared to programmed start ballasts.
- 21 Rated life is given for programmed start ballasts. Life ratings are based on engineering data with lamps cycled every 3 or 12 operating hours. See chart on page 4-4 for more details.

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

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⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Improper handling may cause breakage

- Do not carry lamp by bracket

Lamp may shatter and cause injury if broken

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

103

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

104

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

⚠ CAUTION

Lamp may shatter and cause injury if broken

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

105

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

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

- Minimize exposure

Lamp may shatter and cause injury if broken

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

106

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

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

- Avoid exposure of eyes and skin to unshielded lamp

⚠ CAUTION

Lamp may shatter and cause injury if broken

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

107

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not open – there are no serviceable parts inside
- Do not drill or cut into plastic parts
- Avoid direct water/liquid contact
- Fully insert plug
- Use indoors only

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Lamp is not replaceable. Do not attempt to remove lamp from fixture
- Use in permanent installation only – not for portable use

Unit will fail if not installed properly

- Follow installation instructions

108

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

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