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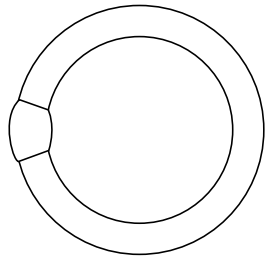
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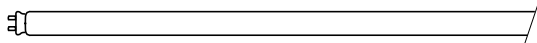
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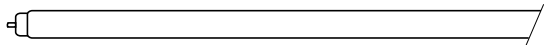
## LAMP LOCATOR (NOT DRAWN TO SCALE)



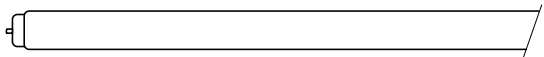
**T9 Circline (1½" diameter) 4-Pin Base (G10q)**



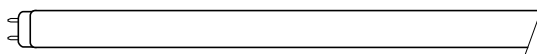
**T5 (5/8" diameter) Miniature Bipin Base (G5)**



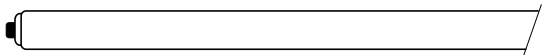
**T6 (¾" diameter) Single Pin Base (Fa8)**



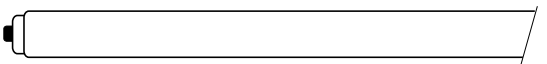
**T8 (1" diameter) Single Pin Base (Fa8)**



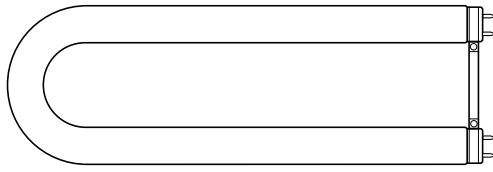
**T8 (1" diameter) Medium Bipin Base (G13)**



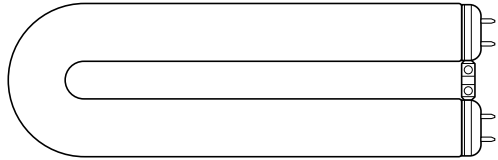
**T8 (1" diameter) Recessed Double Contact Base (R17d)**



**T10 (1¼" diameter) Recessed Double Contact Base (R17d)**



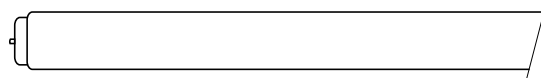
**Mod-U-Line® T8/U6 (1" diameter) Medium Bipin Base (G13)**



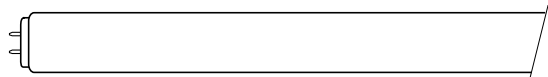
**Mod-U-Line® T12/U3 (1½" diameter) Medium Bipin Base (G13)**



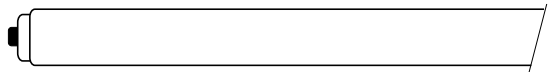
**Mod-U-Line® T12/U6 (1½" diameter) Medium Bipin Base (G13)**



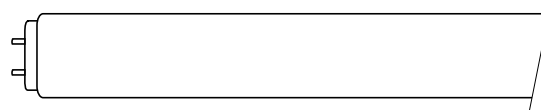
**T12 (1½" diameter) Single Pin Base (Fa8)**



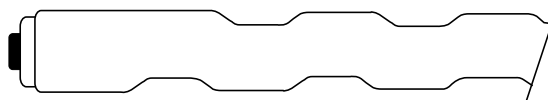
**T12 (1½" diameter) Medium Bipin Base (G13)**



**T12 (1½" diameter) Recessed Double Contact Base (R17d)**



**T17 (2½" diameter) Mogul Bipin (G20)**



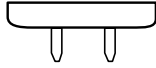
**Power Groove® (2½" diameter) Recessed Double Contact Base (R17d)**



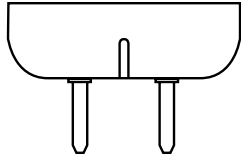
## BASE IDENTIFICATION



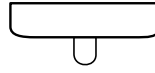
*Min Bipin  
G5*



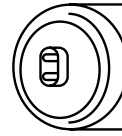
*Med Bipin  
G13*



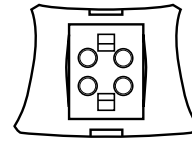
*Mog Bipin  
G20*



*Single Pin  
Fa8*



*Recessed Double  
Contact  
R17d*



*4-Pin  
G10q  
(Circline)*

## INTRODUCTION

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

- Low Operating Cost:**  
Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy saving versions often designated in this catalog by Watt-Miser® (WM).
- Long Life:**  
Life ratings for fluorescent lamps range from 6000 to 30,000 hours based on the industry standard of 3 burning hours per start, except where noted.
- Light Quality:**  
GE Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 95%.
- Flexibility:**  
Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.
- Fast Starting:**  
Rapid-Start and Instant-Start lamps typically start within 1 second of being turned on.

### FLUORESCENT BRAND NAME CROSS-REFERENCE

GE	OSRAM/SYLVANIA	PHILIPS
Aquarium/Terrarium	—	—
Chroma 50	Design 50®	Colortone 50
CovRguard®	—	—
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®	—	—
T8	Octron®	TL70/TL80™
T10/1500MA	VHO/LT	—
/1500	VHO	VHO
Watt-Miser®	SuperSaver®	Econ-o-Watt
Watt-Miser® Plus	SuperSaver Plus®	—
XL	XP	Advantage

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

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



## PRODUCT INFORMATION

### GE T5 STARCOAT® LAMPS (pgs 4-7 to 4-8)

- Used in a variety of applications from indirect fixtures in commercial office buildings to warehouses and manufacturing facilities
- Many combinations of wattage and length provide flexibility of fixture design and ceiling layout

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

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

### GE STARCOAT® ECOLUX® XL EXTRA-LIFE LAMPS (pgs 4-8 to 4-9)

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

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

- Energy-saving replacement lamp for all standard T8's on Instant Start Ballast systems
- Up to 5% savings over 32W T8 systems with maintained light levels
- Operates on any standard T8 Instant Start Ballast
- Available in XL version – 20% longer life than standard T8 lamps
- All T8 Watt-Miser® lamps are TCLP Compliant and may reduce disposal costs
- 81+ CRI (Color Rendering Index)

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

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax™ ballast product family
- 82+ CRI (Color Rendering Index) and TCLP Compliant

### ULTRA~NEW CONSTRUCTION (ENERGY-SAVING ALTERNATIVE) GE T8 32W HIGH LUMEN LAMPS (HL) (pg 4-9)

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

### GE T8 MOD-U-LINE® U-SHAPED FLUORESCENT LAMPS (pg 4-10)

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

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

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

### GE 8' T8 SLIMLINE™ WATT-MISER® (XL) EXTRA LIFE LAMPS (ENERGY-SAVINGS ALTERNATIVE) (pg 4-10)

- Extra-life... lasts 17% longer than standard F96T8 lamps for reduced lamp replacement and maintenance cost
- Maximum energy savings... up to 3.5% less energy consumed than standard F96T8 lamps
- Same light output as standard Slimline™ lamps
- Excellent color... color enhanced SP and SPX versions

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

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

### GE 4' T12 RAPID START LAMPS (pgs 4-12 to 4-13 and 4-28 to 4-29)

- Popular for commercial lighting
- Upgrade new and existing facilities easily... change the lamp to SP/SPX color-improved lamps, available in Watt-Miser® version

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

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent

### GE T12 MOD-U-LINE® U-SHAPED LAMPS (pgs 4-13 to 4-14 and 4-28)

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

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

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

### GE T12 VERY HIGH OUTPUT LAMPS (pg 4-18)

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



## PRODUCT INFORMATION (CONTINUED)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### GE BALLASTS

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

- Energy efficient – GE offers a highly efficient system to dramatically reduce electricity costs... GE UltraMax™ Ballasts
- Outstanding quality
- Technical hotline provides specification and application support
- Electromagnetic, HID, CFL, and Sign ballasts also available from GE Lighting

See **GE Ballast System Catalog** (#16122) for more information.

### ULTRAMAX™ BALLAST (pgs 4-34 to 4-36)

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





## 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:**

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

**Base:**

The type of base.

**Mean Lumens:**

Lamp light output at 40% of rated lamp life.

**Initial Lumens:**

Lamp light output after the initial 100 hours of operation.

**Rated Life - Hours:**

Lamp burning hours to median life expectancy.

**Case Quantity:**

Number of product units packed in a case.

**Description:**

The lamp's identification code.

**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<sub>a</sub>):**

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.



Means this lamp meets Federal Minimum Efficiency Standards.



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



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

**Additional Information:**

Typical application and/or other important information.

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

## F 25 T8 / SPX30 / ECO

Identifies as Fluorescent lamp.

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

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

Identifies the lamp finish or color.

Identifies TCLP compliance.

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

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

## GE T8 ULTRA "ENERGY SAVING PRODUCTS"

**REPLACEMENT FOR T8**

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

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

For use on Instant Start Ballasts.

**RETROFIT FOR T12**

**F28T8/SP/UMX/ECO**

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

Designed for optimal use on the GE UltraMax™ Ballast.

**NEW CONSTRUCTION**

**F32T8/XL/SPX/HL/ECO**

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



Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. Mean K	CRI	Foot- notes	Warning and Cautions	Additional Information		
<b>T5 STARCOAT® LAMPS</b>															
<b>HIGH EFFICIENCY</b>															
T5	Miniature BiPin (G5)	14	21.6	39964	F14W/T5/830	40	20000	1350	1269	3000	85	☞	101		
				39961	F14W/T5/835	40	20000	1350	1269	3500	85	☞	101		
				39973	F14W/T5/841	40	20000	1350	1269	4100	85	☞	101		
				90222	F14W/T5/865	40	20000	1350	1269	6500	85	☞	101		
		21	33.4	39976	F21W/T5/830	40	20000	2100	1974	3000	85	☞	101		
				39977	F21W/T5/835	40	20000	2100	1974	3500	85	☞	101		
				39978	F21W/T5/841	40	20000	2100	1974	4100	85	☞	101		
				39979	F21W/T5/865	40	20000	2100	1974	6500	85	☞	101		
		28	45.2	39982	F28W/T5/830	40	20000	2900	2726	3000	85	☞	101		
				39983	F28W/T5/835	40	20000	2900	2726	3500	85	☞	101		
				39984	F28W/T5/841	40	20000	2900	2726	4100	85	☞	101		
				39985	F28W/T5/865	40	20000	2900	2726	6500	85	☞	101		
		35	57.1	39989	F35W/T5/830	40	20000	3650	3431	3000	85	☞	101		
				39990	F35W/T5/835	40	20000	3650	3431	3500	85	☞	101		
				39991	F35W/T5/841	40	20000	3650	3431	4100	85	☞	101		
				39992	F35W/T5/865	40	20000	3650	3431	6500	85	☞	101		
<b>HIGH OUTPUT</b>															
T5	Miniature BiPin (G5)	24	21.6	39998	F24W/T5/830	40	20000	2000	1880	3000	85	☞	101		
				90196	F24W/T5/835	40	20000	2000	1880	3500	85	☞	101		
				90197	F24W/T5/841	40	20000	2000	1880	4100	85	☞	101		
				90198	F24W/T5/865	40	20000	2000	1880	6500	85	☞	101		
		39	33.4	90201	F39W/T5/830	40	20000	3500	3290	3000	85	☞	101		
				90202	F39W/T5/835	40	20000	3500	3290	3500	85	☞	101		
				90203	F39W/T5/841	40	20000	3500	3290	4100	85	☞	101		
				90204	F39W/T5/865	40	20000	3500	3290	6500	85	☞	101		
		49	57.1	90219	F49W/T5/830	40	20000	4900	4606	3000	85	☞	101		
				90221	F49W/T5/835	40	20000	4900	4606	3500	85	☞	101		
				90223	F49W/T5/841	40	20000	4900	4606	4100	85	☞	101		
				90224	F49W/T5/865	40	20000	4900	4606	6500	85	☞	101		
		54	45.2	90232	F54W/T5/830	40	20000	5000	4700	3000	85	☞	101		
				90206	F54W/T5/835	40	20000	5000	4700	3500	85	☞	101		
				90209	F54W/T5/841	40	20000	5000	4700	4100	85	☞	101		
				90211	F54W/T5/865	40	20000	5000	4700	6500	85	☞	101		
		80	57.1	90226	F80W/T5/830	40	20000	7000	6580	3000	85	☞	101		
				90227	F80W/T5/835	40	20000	7000	6580	3500	85	☞	101		
				90228	F80W/T5/841	40	20000	7000	6580	4100	85	☞	101		
				90229	F80W/T5/865	40	20000	7000	6580	6500	85	☞	101		
		<b>T5 PREHEAT LAMPS</b>													
		<b>6" T5</b>													
		T5	Miniature BiPin (G5)	4	6	10004	F4T5/CW	24	5000	135	100	4100	60		101
						15983	F4T5/CW CARD	10	5000	135	100	4100	60		101
<b>9" T5</b>															
T5	Miniature BiPin (G5)	6	9	10032	F6T5/CW	24	5000	295	235	4100	60		101		
				15986	F6T5/CW CARD	10	5000	295	235	4100	60		101		
				10028	F6T5/D	24	5000	230	185	6500	75	☞	101		

# Fluorescent Lamps



Bulb	Base	Nominal Length Order		Description	Case Qty.	Rated Life (hours)	Lumens			Color Temp.		Foot-notes	Warning and Cautions	Additional Information
		Watts	in.				Code	Initial	Mean	K	CRI			
<b>T5 PREHEAT LAMPS (CONTINUED)</b>														
<b>12" T5</b>														
T5	Miniature BiPin (G5)	8	12	10059	F8T5/CW	24	5000	400	320	4100	60		101	
				15987	F8T5/CW CARD	10	5000	400	320	4100	60		101	
				10055	F8T5/D	24	5000	330	265	6500	75	☞	101	
				10064	F8T5/WW	24	5000	410	330	3000	52		101	
				25425	F8T5/WW/CARD	5	5000	410	330	3000	52		101	
<b>21" T5</b>														
T5	Miniature BiPin (G5)	13	21	10086	F13T5/CW	24	5000	850	705	4100	60		101	
				10089	F13T5/WW	24	5000	870	720	3000	52		101	
				25426	F13T5/WW/CARD	5	5000	870	720	3000	52		101	
<b>T8 STARCOAT® LAMPS</b>														
<b>2' T8 ECOLUX® - TCLP COMPLIANT</b>														
T8	Medium BiPin (G13)	17	24	45741	F17T8/SP30/ECO	24	20000	1325	1260	3000	78	☞	101	
				45743	F17T8/SP35/ECO	24	20000	1325	1260	3500	78	☞	101	
				45748	F17T8/SP41/ECO	24	20000	1325	1260	4100	78	☞	101	
				45742	F17T8/SPX30/ECO	24	20000	1350	1280	3000	86	☞	101	
				45747	F17T8/SPX35/ECO	24	20000	1350	1280	3500	86	☞	101	
				45749	F17T8/SPX41/ECO	24	20000	1350	1280	4100	86	☞	101	
<b>2' T8 ECOLUX® XL EXTRA-LIFE</b>														
T8	Medium BiPin (G13)	17	24	15476	F17T8/XL/SP30/ECO	24	24000	1325	1260	3000	78	☞	101	
				15479	F17T8/XL/SP35/ECO	24	24000	1325	1260	3500	78	☞	101	
				15480	F17T8/XL/SP41/ECO	24	24000	1325	1260	4100	78	☞	101	
				15481	F17T8/XL/SPX30/ECO	24	24000	1350	1280	3000	86	☞	101	
				15483	F17T8/XL/SPX35/ECO	24	24000	1350	1280	3500	86	☞	101	
				15484	F17T8/XL/SPX41/ECO	24	24000	1350	1280	4100	86	☞	101	
				16092	F17T8/XL/SPX65/ECO	24	24000	1250	1125	6500	85	☞	101	
<b>3' T8 ECOLUX® - TCLP COMPLIANT</b>														
T8	Medium BiPin (G13)	25	36	45750	F25T8/SP30/ECO	24	20000	2080	1970	3000	78	☞	101	
				45754	F25T8/SP35/ECO	24	20000	2080	1970	3500	78	☞	101	
				45756	F25T8/SP41/ECO	24	20000	2080	1970	4100	78	☞	101	
				45753	F25T8/SPX30/ECO	24	20000	2150	2040	3000	86	☞	101	
				45755	F25T8/SPX35/ECO	24	20000	2150	2040	3500	86	☞	101	
				45757	F25T8/SPX41/ECO	24	20000	2150	2040	4100	86	☞	101	
<b>3' T8 ECOLUX® XL EXTRA-LIFE</b>														
T8	Medium BiPin (G13)	25	36	15486	F25T8/XL/SP30/ECO	24	24000	2080	1970	3000	78	☞	101	
				15487	F25T8/XL/SP35/ECO	24	24000	2080	1970	3500	78	☞	101	
				15488	F25T8/XL/SP41/ECO	24	24000	2080	1970	4100	78	☞	101	
				15489	F25T8/XL/SPX30/ECO	24	24000	2150	2040	3000	86	☞	101	
				15490	F25T8/XL/SPX35/ECO	24	24000	2150	2040	3500	86	☞	101	
				15491	F25T8/XL/SPX41/ECO	24	24000	2150	2040	4100	86	☞	101	
				16314	F25T8/XL/SPX65/ECO	24	24000	1950	1755	6500	85	☞	101	



Bulb	Base	Nominal Length Watts	Order in. Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. Mean K	CRI	Foot- notes	Warning and Cautions	Additional Information
<b>T8 STARCOAT® LAMPS (CONTINUED)</b>												
<b>4' T8 ECOLUX® - TCLP COMPLIANT</b>												
T8	Medium BiPin (G13)	32	48	26666 F32T8/SP30/ECO	36	20000	2800	2660	3000	78	Ⓢ Ⓡ	101
				26667 F32T8/SP35/ECO	36	20000	2800	2660	3500	78	Ⓢ Ⓡ	101
				11873 F32T8/SP35/ECO 12PK	12	20000	2800	2660	3500	78	Ⓢ Ⓡ	101
				26668 F32T8/SP41/ECO	36	20000	2800	2660	4100	78	Ⓢ Ⓡ	101
				16090 F32T8/SP50/ECO	36	20000	2750	2610	5000	78	Ⓢ Ⓡ	101
				16091 F32T8/SP65/ECO	36	20000	2700	2565	6500	78	Ⓢ Ⓡ	101
				25611 F32T8/SPX30/ECO	36	20000	2950	2800	3000	86	Ⓢ Ⓡ	101
				25612 F32T8/SPX35/ECO	36	20000	2950	2800	3500	86	Ⓢ Ⓡ	101
				25613 F32T8/SPX41/ECO	36	20000	2950	2800	4100	86	Ⓢ Ⓡ	101
				42064 F32T8/SPX50/ECO	36	20000	2800	2660	5000	86	Ⓢ Ⓡ	101
<b>4' T8 ECOLUX® XL EXTRA-LIFE</b>												
T8	Medium BiPin (G13)	32	48	27616 F32T8/XL/SP30/ECO	36	24000	2800	2660	3000	78	Ⓢ Ⓡ	101
				27617 F32T8/XL/SP35/ECO	36	24000	2800	2660	3500	78	Ⓢ Ⓡ	101
				27618 F32T8/XL/SP41/ECO	36	24000	2800	2660	4100	78	Ⓢ Ⓡ	101
				27619 F32T8/XL/SPX30/ECO	36	24000	2950	2800	3000	86	Ⓢ Ⓡ	101
				27620 F32T8/XL/SPX35/ECO	36	24000	2950	2800	3500	86	Ⓢ Ⓡ	101
				27621 F32T8/XL/SPX41/ECO	36	24000	2950	2800	4100	86	Ⓢ Ⓡ	101
				16313 F32T8/XL/SPX50/ECO	36	24000	2800	2660	5000	86	Ⓢ Ⓡ	101
				16089 F32T8/XL/SPX65/ECO	36	24000	2750	2475	6500	85	Ⓢ Ⓡ	101
<b>4' T8 ECOLUX® SUPER LONG LIFE</b>												
T8	Medium BiPin (G13)	32	48	49702 F32T8/SXL/SP30/ECO	36	30000	2850	2675	3000	84	Ⓢ Ⓡ	101
				49778 F32T8/SXL/SP35/ECO	36	30000	2850	2675	3500	83	Ⓢ Ⓡ	101
				49779 F32T8/SXL/SP41/ECO	36	30000	2850	2675	4100	81	Ⓢ Ⓡ	101
<b>ULTRA ENERGY SAVING T8 LAMPS</b>												
<b>4' T8 ECOLUX® WATT-MISER®</b>												
T8	Medium BiPin (G13)	30	48	48277 F32T8/SP30/IS/WM/ECO	36	20000	2875	2700	3000	84	Ⓢ Ⓡ ⚡	101
				48278 F32T8/SP35/IS/WM/ECO	36	20000	2850	2675	3500	83	Ⓢ Ⓡ ⚡	101
				48279 F32T8/SP41/IS/WM/ECO	36	20000	2825	2650	4100	81	Ⓢ Ⓡ ⚡	101
<b>4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE</b>												
T8	Medium BiPin (G13)	30	48	48521 F32T8/XL/SP30/WM/ECO	36	24000	2825	2650	3000	84	Ⓢ Ⓡ ⚡	101
				48522 F32T8/XL/SP35/WM/ECO	36	24000	2800	2625	3500	83	Ⓢ Ⓡ ⚡	101
				48523 F32T8/XL/SP41/WM/ECO	36	24000	2775	2600	4100	81	Ⓢ Ⓡ ⚡	101
<b>4' T8 ECOLUX® ULTRAMAX™ - DESIGNED FOR OPTIMAL PERFORMANCE ON GE ULTRAMAX™ BALLASTS</b>												
T8	Medium BiPin (G13)	28	48	00255 F28T8/SP30/UMX/ECO	36	18000	2750	2585	3000	85	Ⓢ Ⓡ ⚡	101
				00256 F28T8/SP35/UMX/ECO	36	18000	2750	2585	3500	85	Ⓢ Ⓡ ⚡	101
				00257 F28T8/SP41/UMX/ECO	36	18000	2750	2585	4100	82	Ⓢ Ⓡ ⚡	101
<b>4' T8 ECOLUX® HIGH LUMEN</b>												
T8	Medium Bipin (G13)	32	48	10327 F32T8/XL/SPX30/HL/ECO	36	24000	3100	2915	3000	85	Ⓢ Ⓡ	101
				10326 F32T8/XL/SPX35/HL/ECO	36	24000	3100	2915	3500	85	Ⓢ Ⓡ	101
				10322 F32T8/XL/SPX41/HL/ECO	36	24000	3100	2915	4100	82	Ⓢ Ⓡ	101

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

# Fluorescent Lamps



Bulb	Base	Nominal Length Watts	Order in. Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. Mean K	CRI	Foot- notes	Warning and Cautions	Additional Information
<b>T8 STARCOAT® LAMPS (CONTINUED)</b>												
<b>T8 MOD-U-LINE®</b>												
<b>T8 1<sup>5</sup>/<sub>8</sub>" SPACING</b>												
T8	Medium BiPin (G13)	31	22.5	41776 F31T8/SPX30/U	15	20000	2725	2500	3000	82	Ⓢ	105
				41777 F31T8/SPX35/U	15	20000	2725	2500	3500	82	Ⓢ	105
				41778 F31T8/SPX41/U	15	20000	2725	2500	4100	82	Ⓢ	105
<b>T8 6" SPACING</b>												
T8	Medium BiPin (G13)	32	22.5	10479 F32T8/SP30/U/6	12	20000	2700	2565	3000	78	Ⓢ	105
				23585 F32T8/SP35/U/6	12	20000	2700	2565	3500	78	Ⓢ	105
				10480 F32T8/SP41/U/6	12	20000	2700	2565	4100	78	Ⓢ	105
				10483 F32T8/SPX30/U/6	12	20000	2800	2630	3000	86	Ⓢ	105
				10485 F32T8/SPX35/U/6	12	20000	2800	2630	3500	86	Ⓢ	105
				10488 F32T8/SPX41/U/6	12	20000	2800	2630	4100	86	Ⓢ	105
				10489 F32T8/SPX50/U/6	12	20000	2660	2510	5000	86	Ⓢ	105
<b>F25T12 FOR T8 BALLASTS</b>												
T12	Medium BiPin (G13)	25	48	11439 F25T12/SP30	30	15000	2300	2140	3000	70	Ⓢ	101
				11440 F25T12/SP35	30	15000	2300	2140	3500	70	Ⓢ	101
				11442 F25T12/SP41	30	15000	2300	2140	4100	70	Ⓢ	101
<b>8' T8 LAMPS</b>												
<b>8' T8</b>												
T8	Single Pin (Fa8)	59	96	23407 F96T8/SP30	24	15000	5800	5500	3000	78	Ⓢ	101
				23411 F96T8/SP35	24	15000	5800	5500	3500	78	Ⓢ	101
				23412 F96T8/SP41	24	15000	5800	5500	4100	78	Ⓢ	101
				23414 F96T8/SPX30	24	15000	5950	5650	3000	86	Ⓢ	101
				23415 F96T8/SPX35	24	15000	5950	5650	3500	86	Ⓢ	101
				23416 F96T8/SPX41	24	15000	5950	5650	4100	86	Ⓢ	101
				23575 F96T8/SPX50	24	15000	5950	5650	5000	86	Ⓢ	101
<b>8' T8 XL EXTRA-LIFE</b>												
T8	Single Pin (Fa8)	59	96	41889 F96T8/XL/SP30	24	18000	5800	5500	3000	78	Ⓢ	101
				41890 F96T8/XL/SP35	24	18000	5800	5500	3500	78	Ⓢ	101
				41891 F96T8/XL/SP41	24	18000	5800	5500	4100	78	Ⓢ	101
				41892 F96T8/XL/SPX30	24	18000	5950	5650	3000	86	Ⓢ	101
				41893 F96T8/XL/SPX35	24	18000	5950	5650	3500	86	Ⓢ	101
				41894 F96T8/XL/SPX41	24	18000	5950	5650	4100	86	Ⓢ	101
				45497 F96T8/XL/SPX50	24	18000	5950	5650	5000	86	Ⓢ	101
<b>WATT-MISER® ENERGY SAVING LAMPS</b>												
<b>8' T8 WATT-MISER® XL EXTRA-LIFE</b>												
T8	Single Pin (Fa8)	57	96	48524 F96T8/XL/SP30/WM	24	18000	5800	5450	3000	84	Ⓢ	101
				48525 F96T8/XL/SP35/WM	24	18000	5800	5450	3500	83	Ⓢ	101
				48526 F96T8/XL/SP41/WM	24	18000	5800	5450	4100	81	Ⓢ	101
<b>8' T8 HIGH OUTPUT</b>												
<b>8' T8 HIGH OUTPUT - RECESSED DOUBLE CONTACT</b>												
T8	R17d	86	96	12536 F96T8/SP30/HO	24	18000	8000	7600	3000	78	Ⓢ	101
				12537 F96T8/SP35/HO	24	18000	8000	7600	3500	78	Ⓢ	101
				12538 F96T8/SP41/HO	24	18000	8000	7600	4100	78	Ⓢ	101
				12533 F96T8/SPX35/HO	24	18000	8200	7800	3500	86	Ⓢ	101
				12534 F96T8/SPX41/HO	24	18000	8200	7800	4100	86	Ⓢ	101
				12535 F96T8/SPX50/HO	24	18000	8200	7800	5000	86	Ⓢ	101

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



Bulb	Base	Nominal Length Order		Description	Case Qty.	Rated Life (hours)	Color			Foot-notes	Warning and Cautions	Additional Information
		Watts	in.				Code	Lumens Initial	Temp. Mean K			
<b>8' T8 INSTANT START</b>												
T8	Single Pin (Fa8)	50	96	10912 F96T8/CW	24	7500	4050	3730	4100	60		101
<b>OTHER T8 LENGTHS</b>												
<b>18" T8 W/ STARCOAT®</b>												
T8	Medium BiPin (G13)	15	18	49489 FE15T8/XL/SPX65	24	24000	875	785	6500	85	☞	101 Use With Electronic Ballast Only
<b>5' T8 W/ STARCOAT®</b>												
T8	Medium BiPin (G13)	40	60	15950 F40T8/SP30	24	20000	3600	3240	3000	75	☞	101
				15951 F40T8/SP35	24	20000	3600	3240	3500	75	☞	101
				15952 F40T8/SP41	24	20000	3600	3240	4100	75	☞	101
				22660 F40T8/SPX30	24	20000	3725	3350	3000	84	☞	101
				22661 F40T8/SPX35	24	20000	3725	3350	3500	84	☞	101
				22662 F40T8/SPX41	24	20000	3725	3350	4100	84	☞	101
<b>6' T8 INSTANT START</b>												
T8	Single Pin (Fa8)	35	72	10829 F72T8/CW	24	7500	3000	2730	4100	60		101
				10835 F72T8/WW 6PK	6	7500	3100	2820	3000	52		101 Warm White
<b>T8 POLYLUX</b>												
<b>6' T8 POLYLUX</b>												
T8	Medium Bipin (G13)	58	60	35444 F58W/T8/835/PLYLX	25	15000	5400		3500	85	☞	101
				35445 F58W/T8/840/PLYLX	25	15000	5400		4000	85	☞	101
<b>7' T8 POLYLUX</b>												
T8	Medium Bipin (G13)	70	72	35579 F70W/T8/835/PLYLX	25	15000	6550		3500	85	☞	101
				35580 F70W/T8/840/PLYLX	25	15000	6550		4000	85	☞	101
<b>T8 PREHEAT</b>												
<b>12" T8</b>												
T8	Medium BiPin (G13)	13	12	10098 F13T8/CW	24	7500	565	480	4100	60		101
<b>15" T8</b>												
T8	Medium BiPin (G13)	14	15	10104 F14T8/CW	24	7500	685	580	4100	60		101
<b>18" T8</b>												
T8	Medium BiPin (G13)	15	18	17911 F15T8/SP35	24	7500	940	850	3500	75	☞	101
				19643 F15T8/SP41	24	7500	940	850	4100	72	☞	101
				19644 F15T8/SPX30	24	7500	1000	900	3000	82	☞	101
				19645 F15T8/SPX35	24	7500	1000	900	3500	82	☞	101
				10142 F15T8/CW	24	7500	825	725	4100	60		101
				10143 F15T8/CW 6PK	24	7500	825	725	4100	60		101
				10134 F15T8/D	24	7500	700	615	6500	75	☞	101 Daylight
				21326 F15T8/KB 6PK	24	7500	940	850	3000	70	☞	101 Kitchen & Bath
				13968 F15T8/SUN 6PK	24	7500	620	525	5000	90	☞	101 Sunlight
				10147 F15T8/WW	24	7500	845	745	3000	52		101 Warm White
<b>36" T8</b>												
T8	Medium BiPin (G13)	30	36	16323 F30T8/SPX30	24	7500	2300	2140	3000	82	☞	101
				10316 F30T8/CW 6PK	24	7500	2175	1980	4100	60		101
				10310 F30T8/D	24	7500	1850	1625	6500	75	☞	101 Daylight
				22747 F30T8/KB 6PK	24	7500	2125	1910	3000	70	☞	101 Kitchen & Bath
				10318 F30T8/WW	24	7500	2150	1880	3000	52		101 Warm White

# Fluorescent Lamps



Bulb	Base	Nominal Length Watts	Order in.	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. K	CRI	Foot- notes	Warning and Cautions	Additional Information
<b>T12 LAMPS</b>												
<b>3' T12 LAMPS - RAPID START</b>												
<b>25W</b>												
T12	Medium BiPin (G13)	25	36	14447 F25T12/SP30/RS/WM 24PK	24	18000	2025	1780	3000	70	⚡ 1	101
				14425 F25T12/SP35/RS/WM 24PK	24	18000	2025	1780	3500	73	⚡ 1	101
				44599 F25T12/CW/RS/WM	24	18000	1925	1640	4100	60	⚡ 1	101
				44600 F25T12/WW/RS/WM	24	18000	1975	1680	3000	52	⚡ 1	101 Warm White
<b>30W</b>												
T12	Medium BiPin (G13)	30	36	15085 F30T12/SP35/RS	24	18000	2350	2120	3500	73	⚡	101
				15267 F30T12/SP41/RS	24	18000	2350	2120	4100	72	⚡	101
				15108 F30T12/SPX30/RS	24	18000	2375	2140	3000	82	⚡	101
				15355 F30T12/SPX35/RS	24	18000	2375	2140	3500	82	⚡	101
				38115 F30T12/C50/RS	24	18000	1650	1350	5000	90	⚡	101 Chroma 50
				10357 F30T12/CW/RS	24	18000	2200	1910	4100	60	⚡	101
				39176 F30T12/CW/RS 6PK	24	18000	2200	1910	4100	60	⚡	101
				10365 F30T12/D/RS	24	18000	1900	1650	6500	75	⚡	101 Daylight
				10359 F30T12/WW/RS	24	18000	2275	1980	3000	52	⚡	101 Warm White
<b>4' T12 LAMPS - RAPID START</b>												
<b>32W WATT-MISER® PLUS</b>												
T12	Medium BiPin (G13)	32	48	14225 F40/SP35/RS/WMP 30PK	30	20000	2650	2400	3500	80	⚡ 1	101
				14221 F40/CW/RS/WMP 30PK	30	20000	2500	2200	4100	60	⚡ 1	101
<b>34W WATT-MISER®</b>												
T12	Medium BiPin (G13)	34	48	14200 F34/SP30/RS/WM 30PK	30	20000	2750	2475	3000	70	⚡ 1	101
				25401 F34/SP30/RS/WM/UPC	30	20000	2750	2475	3000	70	⚡ 1	101
				13807 F34/SP35/RS/WM 30PK	30	20000	2750	2475	3500	73	⚡ 1	101
				21858 F34/SP35/RS/WM/UPC 6PK	24	20000	2750	2475	3500	73	⚡ 1	101
				23486 F34/SP35/WM/C 10PK	10	20000	2750	2475	3500	73	⚡ 1	101
				13809 F34/SP41/RS/WM 30PK	30	20000	2750	2475	4100	72	⚡ 1	101
				25397 F34/SP41/RS/WM/UPC	30	20000	2750	2475	4100	72	⚡ 1	101
				12134 F34/SP65/RS/WM	30	20000	2650	2430	6500	75	⚡ 1	101
				14627 F34/SPX30/RS/WM 30PK	30	20000	2900	2610	3000	82	⚡ 1	101
				14628 F34/SPX35/RS/WM 30PK	30	20000	2900	2610	3500	82	⚡ 1	101
				14811 F34/SPX41/RS/WM 30PK	30	20000	2900	2610	4100	80	⚡ 1	101
				23459 F34/SPX50/RS/WM	30	20000	2700	2430	5000	80	⚡ 1	101
				19217 F34/C50/RS/WM	30	20000	2000	1720	5000	90	⚡ 1	101 Chroma 50
				13803 F34/CW/RS/WM 30PK	30	20000	2650	2280	4100	60	⚡ 1	101
				25391 F34/CW/RS/WM/UPC	30	20000	2650	2280	4100	60	⚡ 1	101
				23485 F34/CW/RS/WM/C 10PK	10	20000	2650	2280	4100	60	⚡ 1	101
				14655 F34/DX/RS/WM	30	20000	1950	1620	6500	84	⚡ 1	101 Daylight Deluxe
				13822 F34/LW/RS/WM 30PK	30	20000	2825	2430	4200	49	⚡ 1	101 Lite White
				13821 F34/WW/RS/WM 30PK	30	20000	2700	2320	3000	52	⚡ 1	101 Warm White
				25398 F34/WW/RS/WM/UPC	30	20000	2700	2320	3000	52	⚡ 1	101 Warm White
<b>34W WATT-MISER® ECOLUX® - TCLP COMPLIANT</b>												
T12	Medium BiPin (G13)	34	48	23163 F34/SP30/RS/WM/ECO	30	20000	2750	2475	3000	70	⚡ 1	101
				23165 F34/SP35/RS/WM/ECO	30	20000	2750	2475	3500	73	⚡ 1	101
				23166 F34/SP41/RS/WM/ECO	30	20000	2750	2475	4100	72	⚡ 1	101
				41563 F34/SP65/RS/WM/ECO	30	20000	2650	2430	6500	75	⚡ 1	101
				23157 F34/SPX30/RS/WM/ECO	30	20000	2900	2610	3000	82	⚡ 1	101
				23158 F34/SPX35/RS/WM/ECO	30	20000	2900	2610	3500	82	⚡ 1	101

© Means this lamp meets Federal Minimum Efficiency Standards.

# Fluorescent Lamps



Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. K	CRI	Foot- notes	Warning and Cautions	Additional Information	
<b>T12 LAMPS (CONTINUED)</b>														
<b>4' T12 LAMPS - RAPID START (CONTINUED)</b>														
<b>34W WATT-MISER® ECOLUX® - TCLP COMPLIANT (CONTINUED)</b>														
T12	Medium BiPin (G13)	34	48	23159	F34/SPX41/RS/WM/ECO	30	20000	2900	2610	4100	80	Ⓢ ⚡	1	101
				23010	F34/CW/RS/WM/ECO	30	20000	2650	2280	4100	60	Ⓢ ⚡	1	101
				45065	F34/WW/RS/WM/ECO	30	20000	2700	2320	3000	52	Ⓢ ⚡	1	101 Warm White
<b>40W</b>														
T12	Medium BiPin (G13)	40	48	15075	F40/SP30 30PK	30	20000	3250	2950	3000	70	Ⓢ Ⓢ		101
				15077	F40/SP35 30PK	30	20000	3200	2910	3500	73	Ⓢ Ⓢ		101
				15078	F40/SP41 30PK	30	20000	3200	2910	4100	72	Ⓢ Ⓢ		101
				23382	F40/SP41/C	10	20000	3200	2910	4100	72	Ⓢ Ⓢ		101
				12133	F40/SP65	30	20000	3050	2775	6500	75	Ⓢ Ⓢ		101
				25400	F40/SP65/UPC	30	20000	3050	2775	6500	75	Ⓢ Ⓢ		101
				15079	F40/SPX30 30PK	30	20000	3400	3090	3000	82	Ⓢ Ⓢ		101
				15083	F40/SPX35 30PK	30	20000	3400	3090	3500	82	Ⓢ Ⓢ		101
				15084	F40/SPX41 30PK	30	20000	3350	3050	4100	80	Ⓢ Ⓢ		101
				23457	F40/SPX50	30	20000	3200	2860	5000	80	Ⓢ Ⓢ		101
				13794	F40/C50 30PK	30	20000	2250	1870	5000	90	Ⓢ		101 Chroma 50
				25399	F40/C50/UPC	30	20000	2250	1870	5000	90	Ⓢ		101 Chroma 50
				13795	F40/C75 30PK	30	20000	1950	1680	7500	92	Ⓢ		101 Chroma 75
				13969	F40/D/ULTRA 6PK	24	20000	3050	2775	6500	75	Ⓢ Ⓢ		101 Daylight
				14654	F40/DX	30	20000	2250	1910	6500	84	Ⓢ Ⓢ		101 Daylight Deluxe
				40333	F40/KB/2PK/PP	9	20000	3400	3090	3000	70	Ⓢ Ⓢ		104 Kitchen & Bath
				21323	F40/KB 6PK	24	20000	3400	3090	3000	70	Ⓢ Ⓢ		104 Kitchen & Bath
				13797	F40/N 30PK	30	20000	2100	1740	3700	90	Ⓢ		101 Natural
				12224	F40/SUN 6PK	24	20000	2250	1870	5000	90	Ⓢ		101 Sunlight
				14440	F40/RES/SLV	30	15000	3150	2860	4100	72	Ⓢ Ⓢ		101
				14433	F40/RES/SLV 6PK	24	15000	3150	2860	4100	72	Ⓢ Ⓢ		101
				14441	F40/RES/TWIN 9PK	9	15000	3150	2860	4100	72	Ⓢ Ⓢ		101
<b>40W XL EXTRA-LIFE</b>														
T12	Medium BiPin (G13)	40	48	18337	F40/XL/SP30	30	24000	3300	2970	3000	75	Ⓢ Ⓢ		101
				18338	F40/XL/SP35	30	24000	3300	2970	3500	75	Ⓢ Ⓢ		101
				18342	F40/XL/SP41	30	24000	3300	2970	4100	73	Ⓢ Ⓢ		101
				18331	F40/XL/SPX30	30	24000	3400	3060	3000	82	Ⓢ Ⓢ		101
				18332	F40/XL/SPX35	30	24000	3400	3060	3500	82	Ⓢ Ⓢ		101
				18333	F40/XL/SPX41	30	24000	3400	3060	4100	80	Ⓢ Ⓢ		101
				23471	F40/XL/SPX50	30	24000	3350	3050	5000	80	Ⓢ Ⓢ		101
<b>25W UTILITY SHOPLIGHT</b>														
T12	Medium BiPin (G13)	25	48	14450	F48/25W/UTSL/SLV	30	12000	1860	1675	4100	60		10	101
				14456	F48/25W/UTSL/TWN	9	12000	1860	1675	4100	60		10	101
				14445	F48/25W/UTSL/UPC	30	12000	1860	1675	4100	60		10	101
<b>T12 MOD-U-LINE®</b>														
<b>T12 3 5/8" SPACING</b>														
T12	Medium BiPin (G13)	40	22.5	15259	F40/SP30/U/3	12	14000	2925	2660	3000	70	Ⓢ Ⓢ		105
				14228	F40/SP35/U/3	12	14000	2925	2660	3500	73	Ⓢ Ⓢ		105
				15260	F40/SP41/U/3	12	14000	2925	2660	4100	72	Ⓢ Ⓢ		105
				14814	F40/SPX30/U/3	12	14000	3000	2730	3000	82	Ⓢ Ⓢ		105
				14813	F40/SPX35/U/3	12	14000	3000	2730	3500	82	Ⓢ Ⓢ		105
				14649	F40/SCW/U/3	12	14000	2725	2400	4100	75	Ⓢ Ⓢ		105 Super Cool White

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

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

# Fluorescent Lamps



Bulb	Base	Nominal Length Watts	Order in.	Description	Case Qty.	Rated Life (hours)	Lumens			Color Temp.		Foot- notes	Warning and Cautions	Additional Information
							Initial	Mean	K	CRI	K			
<b>T12 LAMPS (CONTINUED)</b>														
<b>T12 MOD-U-LINE® (CONTINUED)</b>														
<b>T12 6" SPACING</b>														
T12	Medium BiPin (G13)	40	22.5	15263 F40/SP30/U/6	12	14000	3050	2780	3000	70	Ⓢ		105	
				14227 F40/SP35/U/6	12	14000	3050	2780	3500	73	Ⓢ		105	
				22050 F40/SP35/U/6/UPC	12	14000	3050	2780	3500	73	Ⓢ		105	
				15265 F40/SP41/U/6	12	14000	3050	2780	4100	72	Ⓢ		105	
				14816 F40/SPX30/U/6	12	14000	3100	2820	3000	82	Ⓢ		105	
				14815 F40/SPX35/U/6	12	14000	3100	2820	3500	82	Ⓢ		105	
				14648 F40/SCW/U/6	12	14000	2800	2460	4100	75	Ⓢ		105	Super Cool White
				25374 F40/SCW/U6/UPC 6PK	6	14000	2800	2460	4100	75	Ⓢ		105	Super Cool White
				14632 F40/SWW/U/6	12	14000	2800	2460	3000	75	Ⓢ		105	Super Warm White
<b>WATT-MISER® ENERGY SAVING LAMPS</b>														
<b>T12 3 5/8" SPACING WATT-MISER®</b>														
T12	Medium BiPin (G13)	35	22.5	12199 F35/CW/U/3/WM	12	14000	2200	2050	4100	60	Ⓢ	⚡ 1	105	
				12200 F35/WW/U/3/WM	12	14000	2300	2100	3000	52	Ⓢ	⚡ 1	105	Warm White
<b>T12 6" SPACING WATT-MISER®</b>														
T12	Medium BiPin (G13)	35	22.5	12203 F35/CW/U/6/WM	12	14000	2300	2100	4100	60	Ⓢ	⚡ 1	105	
				14471 F35/CW/U/6/WM/UPC	12	14000	2300	2100	4100	60	Ⓢ	⚡ 1	105	
				23383 F35/CW/U6/WM/C	6	14000	2300	2100	4100	60	Ⓢ	⚡ 1	105	
				12207 F35/WW/U/6/WM	12	14000	2350	2150	3000	52	Ⓢ	⚡ 1	105	Warm White
<b>T12 6" SPACING WATT-MISER® ECOLUX®</b>														
T12	Medium BiPin (G13)	34	22.5	15622 F34/CW/U/6/WM/ECO	12	18000	2600	2235	4200	62	Ⓢ	⚡ 1	105	
<b>T12 INSTANT START</b>														
T12	Single Pin (Fa8)	20	24	10691 F24T12/CW	24	7500	1050	900	4100	60			101	
		30	36	10709 F36T12/CW	24	7500	2000	1800	4100	60			101	
		35	42	10735 F42T12/CW	24	7500	2400	2210	4100	60			101	
		40	48	15262 F48T12/SP35	24	9000	3000	2820	3500	73	Ⓢ		101	
				15088 F48T12/SPX30	24	9000	3050	2870	3000	82	Ⓢ		101	
				15116 F48T12/SPX35	24	9000	3050	2870	3500	82	Ⓢ		101	
				10748 F48T12/CW	24	9000	2875	2650	4100	60			101	
				20461 F48T12/CW/UPC 6PK	24	9000	2875	2650	4100	60			101	
<b>WATT-MISER® ENERGY SAVING LAMPS</b>														
T12	Single Pin (Fa8)	30	48	14319 F48T12/SP35/WM	24	9000	2575	2420	3500	73	Ⓢ	⚡ 1	101	
				13048 F48T12/SP41/WM	24	9000	2575	2420	4100	72	Ⓢ	⚡ 1	101	
				44967 F48T12/CW/WM	24	9000	2475	2400	2210	60		⚡ 1	101	
<b>8' T12 INSTANT START</b>														
<b>8' INSTANT START STANDARD</b>														
T12	Single Pin (Fa8)	75	96	15357 F96T12/SP30 15PK	15	12000	6500	6110	3000	70	Ⓢ		101	
				14067 F96T12/SP35 15PK	15	12000	6500	6110	3500	73	Ⓢ		101	
				15358 F96T12/SP41 15PK	15	12000	6500	6110	4100	72	Ⓢ		101	
				12127 F96T12/SP65	15	12000	6125	5760	6500	75	Ⓢ		101	
				15110 F96T12/SPX30 15PK	15	12000	6800	6390	3000	82	Ⓢ		101	
				15101 F96T12/SPX35 15PK	15	12000	6800	6390	3500	82	Ⓢ		101	
				15335 F96T12/SPX41 15PK	15	12000	6800	6390	4100	80	Ⓢ		101	
				23466 F96T12/SPX50 15PK	15	12000	6250	5880	5000	80	Ⓢ		101	
				14652 F96T12/DX	15	12000	4500	4050	6500	84	Ⓢ		101	Daylight Deluxe
				13725 F96T12/N 15PK	15	12000	4250	3740	3700	90	Ⓢ		101	Natural

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Bulb	Base	Nominal Length Watts	Order in.	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. Mean K	CRI	Foot- notes	Warning and Cautions	Additional Information
<b>T12 LAMPS (CONTINUED)</b>												
<b>8' T12 INSTANT START (CONTINUED)</b>												
<b>8' INSTANT START STANDARD (CONTINUED)</b>												
T12	Single Pin (Fa8)	75	96	13752 F96T12/C50	15	12000	4600	4050	5000	90	Ⓢ	101 Chroma 50
				25387 F96T12/C50/UPC	15	12000	4600	4050	5000	90	Ⓢ	101 Chroma 50
<b>8' INSTANT START XL EXTRA-LIFE</b>												
T12	Single Pin (Fa8)	75	96	23576 F96T12/XL/SP35	15	15000	6700	6180	3500	75	Ⓢ	101
				11661 F96T12/XL/SP41	15	15000	6700	6180	4100	73	Ⓢ	101
				11663 F96T12/XL/SPX35	15	15000	6900	6370	3500	82	Ⓢ	101
				11664 F96T12/XL/SPX41	15	15000	6900	6370	4100	80	Ⓢ	101
				11665 F96T12/XL/SPX50	15	15000	6425	5930	5000	80	Ⓢ	101
<b>WATT-MISER® ENERGY SAVING LAMPS</b>												
T12	Single Pin (Fa8)	58	96	40511 F96T12/SP35/WMP	15	12000	5700	5360	3500	75	Ⓢ	101
		60	96	14201 F96T12/SP30/WM 15PK	15	12000	5700	5360	3000	70	Ⓢ	101
				13849 F96T12/SP35/WM 15PK	15	12000	5700	5360	3500	73	Ⓢ	101
				21856 F96T12/SP35/WM/UPC	15	12000	5700	5360	3500	73	Ⓢ	101
				11217 F96T12/SP35/WM/C 10PK	10	12000	5700	5360	3500	73	Ⓢ	101
				13758 F96T12/SP41/WM 15PK	15	12000	5700	5360	4100	72	Ⓢ	101
				25395 F96T12/SP41/WM/UPC	15	12000	5700	5360	4100	72	Ⓢ	101
				12128 F96T12/SP65/WM	15	12000	5100	4800	6500	75	Ⓢ	101
				14629 F96T12/SPX30/WM 15PK	15	12000	6000	5640	3000	82	Ⓢ	101
				14630 F96T12/SPX35/WM 15PK	15	12000	6000	5640	3500	82	Ⓢ	101
				13756 F96T12/C50/WM 15PK	15	12000	4000	3520	5000	90	Ⓢ	101 Chroma 50
				13729 F96T12/CW/WM15PK	15	12000	5500	5060	4100	60	Ⓢ	101
				21713 F96T12/CW/WM/UPC 10PK	10	12000	5500	5060	4100	60	Ⓢ	101
				13742 F96T12/LW/WM 15PK	15	12000	5800	5340	4200	49	Ⓢ	101 Lite White
				13736 F96T12/WW/WM 15PK	15	12000	5700	5240	3000	52	Ⓢ	101 Warm White
				25171 F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60	Ⓢ	101
<b>8' INSTANT START WATT-MISER® XL EXTRA-LIFE</b>												
T12	Single Pin (Fa8)	60	96	12406 F96T12/XL/SP35/WM	15	15000	5900	5480	3500	75	Ⓢ	101
				12408 F96T12/XL/SP41/WM	15	15000	5900	5480	4100	73	Ⓢ	101
<b>8' INSTANT START WATT-MISER® ECOLUX®</b>												
T12	Single Pin (Fa8)	60	96	27232 F96T12/SP30/WM/ECO	15	12000	5700	5360	3000	70	Ⓢ	101
				27233 F96T12/SP35/WM/ECO	15	12000	5700	5360	3500	73	Ⓢ	101
				27235 F96T12/SP41/WM/ECO	15	12000	5700	5360	4100	72	Ⓢ	101
				40373 F96T12/SP65/WM/ECO	15	12000	5100	4800	6500	75	Ⓢ	101
				27237 F96T12/SPX30/WM/ECO	15	12000	6000	5640	3000	82	Ⓢ	101
				27238 F96T12/SPX35/WM/ECO	15	12000	6000	5640	3500	82	Ⓢ	101
				27239 F96T12/SPX41/WM/ECO	15	12000	6000	5640	4100	80	Ⓢ	101
				27186 F96T12/CW/WM/ECO	15	12000	5500	5060	4100	60	Ⓢ	101
<b>8' INSTANT START WATT-MISER® PLUS ECOLUX®</b>												
T12	Single Pin (Fa8)	58	96	40782 F96T12/SP35/WMP/ECO	15	12000	5700	5360	3500	75	Ⓢ	101
<b>T12 OTHER LENGTHS</b>												
<b>5' T12 INSTANT START</b>												
T12	Single Pin (Fa8)	50	60	23073 F60T12/CW 15PK	15	12000	3600	3310	4100	60		101
				23076 F60T12/D 15PK	15	12000	3000	2760	6500	75	Ⓢ	101

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

# Fluorescent Lamps



Bulb	Base	Nominal Length Watts	Order in.	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. Mean K	CRI	Foot- notes	Warning and Cautions	Additional Information
<b>T12 LAMPS (CONTINUED)</b>												
<b>T12 OTHER LENGTHS (CONTINUED)</b>												
<b>64" T12 INSTANT START</b>												
T12	Single Pin (Fa8)	50	64	23082 F64T12/CW15PK	15	10000	3850	3540	4100	60		101
				23085 F64T12/D 15PK	15	10000	3300	3040	6500	75	⚡	101
<b>6' T12 INSTANT START</b>												
T12	Single Pin (Fa8)	55	72	15286 F72T12/SP35 15PK	15	12000	4700	4420	3500	73	⚡	101
				15097 F72T12/SP41	15	12000	4700	4420	4100	72	⚡	101
				15117 F72T12/SPX30 15PK	15	12000	4800	4510	3000	82	⚡	101
				15098 F72T12/SPX35 15PK	15	12000	4800	4510	3500	82	⚡	101
				13743 F72T12/CW 15PK	15	12000	4500	4140	4100	60		101
				23385 F72T12/CW/C	10	12000	4500	4140	4100	60		101
				12525 F72T12/CW/UPC 10PK	10	12000	4500	4140	4100	60		101
				13748 F72T12/D 15PK	15	12000	3800	3500	6500	75	⚡	101 Daylight
<b>7' T12 INSTANT START</b>												
T12	Single Pin (Fa8)	65	84	13764 F84T12/CW 15PK	15	12000	5300	4880	4100	60		101
<b>T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT</b>												
<b>18" HIGH OUTPUT</b>												
T12	R17d	30	18	10204 F18T12/CW/HO	24	9000	1000	750	4100	60		101
<b>2' HIGH OUTPUT</b>												
T12	R17d	35	24	10261 F24T12/CW/HO	24	9000	1620	1345	4100	60		101
				10275 F24T12/D/HO	24	9000	1400	1160	6500	74	⚡	101 Daylight
<b>30" HIGH OUTPUT</b>												
T12	R17d	40	30	33707 F30T12/CW/HO	24	9000	2250	1950	4100	60		101
<b>3' HIGH OUTPUT</b>												
T12	R17d	45	36	10374 F36T12/CW/HO	24	9000	2800	2440	4100	60		101
				10380 F36T12/D/HO	24	9000	2350	2040	6500	75	⚡	101
				10388 F36T12/SGN/HO	24	9000	2150	1830	5400	82	⚡	101
<b>42" HIGH OUTPUT</b>												
T12	R17d	55	42	10559 F42T12/CW/HO	24	9000	3200	2790	4100	60		101
				10560 F42T12/D/HO	24	9000	2900	2520	6500	74	⚡	101 Daylight
				10562 F42T12/SGN/HO	24	9000	2600	2215	5400	82	⚡	101 Sign White
<b>4' HIGH OUTPUT</b>												
T12	R17d	60	48	15359 F48T12/SP30/HO	24	12000	4250	3830	3000	70	⚡	101
				15360 F48T12/SP35/HO	24	12000	4250	3830	3500	73	⚡	101
				15361 F48T12/SP41/HO	24	12000	4250	3830	4100	72	⚡	101
				15115 F48T12/SPX35/HO	24	12000	4350	3920	3500	82	⚡	101
				10773 F48T12/CW/HO	24	12000	3825	3320	4100	60		101
				27313 F48T12/CW/HO/UPC	24	12000	3825	3320	4100	60		101
				10778 F48T12/D/HO	24	12000	3400	2960	6500	75	⚡	101 Daylight
				10573 F48T12/SGN/HO	24	12000	3100	2640	5400	80	⚡	101 Sign White
<b>4' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS</b>												
T12	R17d	55	48	15342 F48T12/SP35/HO/WM	24	12000	3850	3465	3500	73	⚡	101
				11179 F48T12/LW/HO/WM	24	12000	3900	3390	4200	49	⚡	101 Lite White
<b>5' HIGH OUTPUT</b>												
T12	R17d	75	60	23075 F60T12/CW/HO 15PK	15	12000	5150	4480	4100	60		101
				23077 F60T12/D/HO 15PK	15	12000	4400	3830	6500	75	⚡	101 Daylight
				23081 F60T12/SGN/HO 15PK	15	12000	4000	3400	5400	82	⚡	101 Sign White



Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Foot- notes	Warning and Cautions	Additional Information
<b>T12 LAMPS (CONTINUED)</b>														
<b>T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT (CONTINUED)</b>														
<b>64" HIGH OUTPUT</b>														
T12	R17d	80	64	23083	F64T12/CW/HO 15PK	15	12000	5600	4870	4100	60		101	
				23087	F64T12/D/HO 15PK	15	12000	4750	4130	6500	75	Ⓢ	101 Daylight	
				23089	F64T12/SGN/HO15PK	15	12000	4300	3660	5400	82	Ⓢ	101 Sign White	
<b>6' HIGH OUTPUT</b>														
T12	R17d	85	72	15343	F72T12/SP30/HO 15PK	15	12000	6650	5990	3000	70	Ⓢ	101	
				15347	F72T12/SP35/HO 15PK	15	12000	6650	5990	3500	73	Ⓢ	101	
				15348	F72T12/SP41/HO 15PK	15	12000	6650	5990	4100	72	Ⓢ	101	
				15137	F72T12/SPX30/HO 15PK	15	12000	6800	6120	3000	82	Ⓢ	101	
				15351	F72T12/SPX35/HO 15PK	15	12000	6800	6120	3500	82	Ⓢ	101	
				13697	F72T12/CW/HO 15PK	15	12000	6350	5520	4100	60		101	
				13699	F72T12/D/HO 15PK	15	12000	5350	4650	6500	75	Ⓢ	101 Daylight	
				12527	F72T12/N/HO	10	12000	4300	3610	3700	90	Ⓢ	101 Natural	
				13701	F72T12/SGN/HO 15PK	15	12000	4900	4170	5400	82	Ⓢ	101 Sign White	
				13702	F72T12/WW/HO 15PK	15	12000	6550	5700	3000	52		101 Warm White	
<b>7' HIGH OUTPUT</b>														
T12	R17d	100	84	13766	F84T12/CW/HO 15PK	15	12000	7700	6700	4100	60		101	
				13767	F84T12/D/HO 15PK	15	12000	6500	5660	6500	75	Ⓢ	101 Daylight	
				13768	F84T12/SGN/HO 15PK	15	12000	6000	5100	5400	82	Ⓢ	101 Sign White	
<b>8' HIGH OUTPUT</b>														
T12	R17d	110	96	15362	F96T12/SP30/HO 15PK	15	12000	9200	8280	3000	70	Ⓢ	101	
				15363	F96T12/SP35/HO 15PK	15	12000	9200	8280	3500	73	Ⓢ	101	
				15364	F96T12/SP41/HO 15PK	15	12000	9200	8280	4100	72	Ⓢ	101	
				12130	F96T12/SP65/HO	15	12000	8900	8010	6500	75	Ⓢ	101	
				15119	F96T12/SPX30/HO 15PK	15	12000	9350	8420	3000	82	Ⓢ	101	
				15352	F96T12/SPX35/HO 15PK	15	12000	9350	8420	3500	82	Ⓢ	101	
				23070	F96T12/SPX41/HO 15PK	15	12000	9350	8420	4100	80	Ⓢ	101	
				13707	F96T12/C50/HO 15PK	15	12000	6750	5670	5000	90	Ⓢ	101 Chroma 50	
				14653	F96T12/DX/HO	15	12000	6600	5610	6500	84	Ⓢ	101 Daylight Deluxe	
				13709	F96T12/N/HO 15PK	15	12000	6200	5210	3700	90	Ⓢ	101 Natural	
<b>8' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS</b>														
T12	R17d	95	96	14069	F96T12/SP35/HO/WM	15	12000	8350	7520	3500	73	Ⓢ Ⓢ ⚡	1	101
				13721	F96T12/SP41/HO/WM 15PK	15	12000	8350	7520	4100	72	Ⓢ Ⓢ ⚡	1	101
				12131	F96T12/SP65/HO/WM	15	12000	7700	6930	6500	75	Ⓢ Ⓢ ⚡	1	101
				15120	F96T12/SPX30/HO/WM	15	12000	8500	7650	3000	82	Ⓢ Ⓢ ⚡	1	101
				15122	F96T12/SPX35/HO/WM	15	12000	8500	7650	3500	82	Ⓢ Ⓢ ⚡	1	101
				23069	F96T12/SPX41/HO/WM	15	12000	8500	7650	4100	80	Ⓢ Ⓢ ⚡	1	101
				13716	F96T12/CW/HO/WM 15PK	15	12000	8000	6960	4100	60	Ⓢ ⚡	1	101
				21714	F96T12/CW/HO/WM/UPC	15	12000	8000	6960	4100	60	Ⓢ ⚡	1	101
				13720	F96T12/LW/HO/WM	15	12000	8500	7900	4200	49	Ⓢ ⚡	1	101 Lite White
				13719	F96T12/WW/HO/WM 15PK	15	12000	8200	7130	3000	52	Ⓢ ⚡	1	101 Warm White
<b>8' HIGH OUTPUT WATT-MISER® ECOLUX®</b>														
T12	R17d	95	96	16495	F96T12/CW/HO/WM/ECO	15	12000	8000	6480	4100	60	Ⓢ ⚡	1	

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens			Color Temp. K	CRI	Foot- notes	Warning and Cautions	Additional Information		
								Initial	Mean	Final							
<b>T12 LAMPS (CONTINUED)</b>																	
<b>T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT</b>																	
T12	R17d	110	48	10751	F48T12/CW/1500	24	10000	6200	4030	4100	60		4	101			
		165	72	13760	F72T12/CW/1500 15PK	15	10000	9000	6300	4100	60		4	101			
		185	96	13789	F96T12/CW/1500/WM 15PK	15	9000	12500	9380	4100	60		⚡	4	101		
				13790	F96T12/LW/1500/WM 15PK	15	9000	13250	9940	4200	49		⚡	4	101	Lite White	
		215	96	13781	F96T12/CW/1500 15PK	15	10000	13500	10125	4100	60			4	101		
				13783	F96T12/D/1500 15PK	15	10000	11500	8630	6500	74		☞	4	101	Daylight	
				13785	F96T12/WW/1500 15PK	15	10000	14000	10500	3000	52			4	101		
<b>T12 PREHEAT</b>																	
<b>15"</b>																	
T12	Medium BiPin (G13)	14	15	10116	F14T12/CW	24	9000	650	550	4100	60			101	Preheat		
				10117	F14T12/CW 6PK	24	9000	650	550	4100	60				101	Preheat	
				22979	F14T12/KB 6PK	24	9000	700	650	3000	70		☞		104	Preheat, Kitchen & Bath	
<b>18"</b>																	
T12	Medium BiPin (G13)	15	18	10183	F15T12/CW 6PK	24	9000	760	685	4100	60			101	Preheat		
				22745	F15T12/KB 6PK	24	9000	785	730	3000	70		☞		104	Preheat, Kitchen & Bath	
				10185	F15T12/WW	24	9000	780	700	3000	52				101	Preheat	
<b>24"</b>																	
T12	Medium BiPin (G13)	20	24	14423	F20T12/SP35	24	9000	1275	1200	3500	73		☞		101	Preheat	
				15353	F20T12/SP41	24	9000	1275	1200	4100	72		☞			101	Preheat
				15354	F20T12/SPX35	24	9000	1300	1220	3500	82		☞			101	Preheat
				38114	F20T12/C50	24	9000	875	790	5000	90		☞			101	Preheat, Chroma 50
				10213	F20T12/CW	24	9000	1200	1150	4100	60					101	Preheat
				10214	F20T12/CW 6PK	24	9000	1200	1150	4100	60					101	Preheat
				10205	F20T12/D	24	9000	1025	945	6500	75		☞			101	Preheat, Daylight
				25575	F20T12/D/UPC	24	9000	1025	945	6500	75		☞			101	Preheat, Daylight
				21325	F20T12/KB 6PK	24	9000	1275	1200	3000	70		☞			104	Preheat, Kitchen & Bath
				14419	F20T12/SUN 6PK	24	9000	875	790	5000	90		☞			101	Preheat, Sunlight
				10217	F20T12/WW	24	9000	1250	1150	3000	52					101	Preheat, Warm White
				25577	F20T12/WW-UPC	24	9000	1250	1150	3000	52					101	Preheat, Warm White
<b>OTHER DIAMETERS</b>																	
<b>T6 INSTANT START</b>																	
T6	Single Pin (Fa8)	25	42	12221	F42T6/SP35	24	7500	1830	1700	3500	73		☞		101		
				10720	F42T6/CW	24	7500	1750	1580	4100	60					101	
				10721	F42T6/WW	24	7500	1825	1640	3000	52					101	Warm White
		40	64	12223	F64T6/SP35	24	7500	2930	2720	3500	73		☞		101		
				10805	F64T6/CW	24	7500	2800	2520	4100	60				101		
				10807	F64T6/WW	24	7500	2900	2610	3000	52				101	Warm White	
<b>T17 INSTANT START</b>																	
T17	Mogul BiPin (G20)	40	60	10575	F40T17/CW/IS	12	7500	2850	2620	4100	60			101	For use only with instant start ballasts		
<b>T17 PREHEAT</b>																	
T17	Mogul BiPin (G20)	82	60	43443	F90T17/CW/WM	12	9000	5750	5060	4100	60		⚡	4	101		
				90	60	10643	F90T17/CW	12	9000	6000	5280	4100	60		4	101	
<b>PG17 POWER GROOVE® RECESSED DOUBLE CONTACT (1500mA)</b>																	
PG17	R17d	185	96	42666	F96PG17/CW/WM	8	12000	12700	9900	4100	60		⚡	4	101		
				215	96	11009	F96PG17/CW	8	10000	14000	10915	4100	60		4	101	
						11018	F96PG17/D	8	10000	12100	9440	6500	74		☞	4	101



Bulb	Base	Nominal Length Order		Description	Case Qty.	Rated Life (hours)	Color			Foot-notes	Warning and Cautions	Additional Information
		Watts	in.				Code	Initial Lumens	Mean Lumens			
<b>T9 CIRCLINE LAMPS</b>												
T9	4 Pin (G10q)	20	6.5	42732	FC6T9/CW	12	12000	800	560	4100	60	101
		22	8.25	33774	FC8T9/CW	12	12000	1100	825	4100	60	101
				11026	FC8T9/D	12	12000	925	690	6500	75	101 Daylight
				11084	FC8T9/KB	6	12000	1400	1120	3000	82	104 Kitchen and Bath
32	12	33890	FC12T9/CW	12	12000	1950	1460	4100	60	101		
		11039	FC12T9/D	12	12000	1675	1260	6500	75	101 Daylight		
		11085	FC12T9/KB	6	12000	2400	1920	3000	82	104 Kitchen and Bath		
40	16	33893	FC16T9/CW	12	12000	2700	2030	4100	60	101		
		11052	FC16T9/D	12	12000	2250	1690	6500	75	101 Daylight		

## SPECIAL APPLICATION LAMPS

### COVRGUARD® SHATTER RESISTANT

<b>T5 PREHEAT LAMPS</b>												
T5	Miniature BiPin (G5)	4	6	41435	F4T5/CW/CVG	24	5000	130	95	4100	60	11, 13 103
		6	9	41106	F6T5/CW/CVG	24	5000	285	225	4100	60	11, 13 103
		8	12	41107	F8T5/CW/CVG	24	5000	385	310	4100	60	11, 13 103
		13	21	41108	F13T5/CW/CVG	24	5000	820	680	4100	60	11, 13 103

<b>T6 INSTANT START LAMPS</b>												
T6	Single Pin (Fa8)	25	42	41142	F42T6/SP35/CVG	24	7500	1770	1640	3500	73	11, 13 103
				41140	F42T6/CW/CVG	24	7500	1690	1530	4100	60	11, 13 103
				41141	F42T6/WW/CVG	24	7500	1770	1590	3000	52	11, 13 103 Warm White
		40	64	41143	F64T6/SP35/CVG	24	7500	2840	2630	3500	73	11, 13 103
				46422	F64T6/CW/CVG	24	7500	2710	2440	4100	60	11, 13 103

<b>2' T8 ECOLUX® W/ STARCOAT®</b>												
T8	Medium BiPin (G13)	17	24	15974	F17T8/SP35/ECO/CVG	24	20000	1280	1220	3500	78	11, 13 103
				15877	F17T8/SP41/ECO/CVG	24	20000	1280	1220	4100	78	11, 13 103
				15975	F17T8/SPX35/ECO/CVG	24	20000	1310	1242	3500	86	11, 13 103
				15976	F17T8/SPX41/ECO/CVG	24	20000	1310	1242	4100	86	11, 13 103

<b>3' T8 ECOLUX® W/ STARCOAT®</b>												
T8	Medium BiPin (G13)	25	36	15978	F25T8/SP30/ECO/CVG	24	20000	2020	1920	3000	78	11, 13 103
				15981	F25T8/SP35/ECO/CVG	24	20000	2020	1920	3500	78	11, 13 103
				15984	F25T8/SP41/ECO/CVG	24	20000	2020	1920	4100	78	11, 13 103
				15989	F25T8/SPX30/ECO/CVG	24	20000	2080	1970	3000	86	11, 13 103
				15990	F25T8/SPX35/ECO/CVG	24	20000	2080	1970	3500	86	11, 13 103
				15991	F25T8/SPX41/ECO/CVG	24	20000	2080	1970	4100	86	11, 13 103

<b>4' T8 (48") ECOLUX® W/ STARCOAT®</b>												
T8	Medium BiPin (G13)	32	48	40803	F32T8/SP30/ECO/CVG	36	20000	2715	2580	3000	78	11, 13 103
				40804	F32T8/SP35/ECO/CVG	36	20000	2715	2580	3500	78	11, 13 103
				40812	F32T8/SP41/ECO/CVG	36	20000	2715	2580	4100	78	11, 13 103
				18366	F32T8/SP50/ECO/CVG	36	20000	2665	2530	5000	78	11, 13 103
				18368	F32T8/SP65/ECO/CVG	36	20000	2620	2490	6500	78	11, 13 103
				41125	F32T8/SPX30/ECO/CVG	36	20000	2860	2710	3000	86	11, 13 103
				41126	F32T8/SPX35/ECO/CVG	36	20000	2860	2710	3500	86	11, 13 103
				41127	F32T8/SPX41/ECO/CVG	36	20000	2860	2710	4100	86	11, 13 103
				15971	F32T8/SPX50/ECO/CVG	36	20000	2715	2580	5000	86	11, 13 103

<b>4' T8 ECOLUX® XL EXTRA-LIFE W/ STARCOAT®</b>												
T8	Medium BiPin (G13)	32	48	15972	F32T8/XL/SPX30/ECO/CVG	36	20000	2860	2715	3000	86	11, 13 103
				15973	F32T8/XL/SPX35/ECO/CVG	36	20000	2860	2715	3500	86	11, 13 103
				18369	F32T8/XL/SPX41/ECO/CVG	36	20000	2860	2715	4100	86	11, 13 103

© Means this lamp meets Federal Minimum Efficiency Standards.

# Fluorescent Lamps



Bulb	Base	Nominal Length Watts	Order in.	Code	Description	Case Qty.	Rated Life (hours)	Lumens			Color Temp.		Foot- notes	Warning and Cautions	Additional Information
								Initial	Mean	K	CRI	K			
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>															
<b>COVARGUARD® SHATTER RESISTANT (CONTINUED)</b>															
<b>4' T8 ECOLUX® SUPER LONG LIFE W/ STARCOAT®</b>															
T8	Medium BiPin (G13)	32	48	14560	F32T8/SXL/SP35/ECO/CVG	36	30000	2765	2595	3500	82	Ⓢ	11, 13	103	
				14551	F32T8/SXL/SP41/ECO/CVG	36	30000	2765	2595	4100	81	Ⓢ	11, 13	103	
<b>ULTRA ENERGY SAVING T8 LAMPS W/ COVARGUARD®</b>															
<b>4' T8 ECOLUX WATT-MISER® W/ STARCOAT®</b>															
T8	Medium BiPin (G13)	32	48	40286	F32T8/SP30/IS/WM/ECO/CVG	36	20000	2790	2620	3000	84	Ⓢ	1, 11, 13	103	
				40299	F32T8/SP35/IS/WM/ECO/CVG	36	20000	2765	2595	3500	83	Ⓢ	1, 11, 13	103	
				40309	F32T8/SP41/IS/WM/ECO/CVG	36	20000	2740	2570	4100	81	Ⓢ	1, 11, 13	103	
<b>4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE W/ STARCOAT®</b>															
T8	Medium BiPin (G13)	32	48	10023	F32T8/XL/SP30/WM/ECO/CVG	36	24000	2740	2570	3000	84	Ⓢ	1, 11, 13	103	
				40297	F32T8/XL/SP35/WM/ECO/CVG	36	24000	2715	2545	3500	83	Ⓢ	1, 11, 13	103	
				40310	F32T8/XL/SP41/WM/ECO/CVG	36	24000	2690	2520	4100	81	Ⓢ	1, 11, 13	103	
<b>4' T8 ECOLUX® HIGH LUMEN XL EXTRA-LIFE W/ STARCOAT®</b>															
T8	Medium BiPin (G13)	32	48	00269	F32T8/XL/SPX41/HL/ECO/CVG	36	24000	3005	2825	3000	85	Ⓢ	11, 13	103	
				00268	F32T8/XL/SPX35/HL/ECO/CVG	36	24000	3005	2825	3500	85	Ⓢ	11, 13	103	
				00267	F32T8/XL/SPX30/HL/ECO/CVG	36	24000	3005	2825	4100	82	Ⓢ	11, 13	103	
<b>T8 OTHER LENGTHS W/ STARCOAT®</b>															
<b>5' T8 (60")</b>															
T8	Medium BiPin (G13)	40	60	41130	F40T8/SP35/CVG	24	20000	3490	3140	3500	75	Ⓢ	11, 13	103	
				41131	F40T8/SPX35/CVG	24	20000	3610	3240	3500	84	Ⓢ	11, 13	103	
				47351	F40T8/SPX41/CVG	24	20000	3610	3250	4100	80	Ⓢ	11, 13	103	
<b>6' T8 (72") INSTANT START</b>															
T8	Single Pin (Fa8)	35	72	41149	F72T8/CW/CVG	24	7500	2910	2640	4100	60		11, 13	103	
<b>8' T8 (96") INSTANT START</b>															
T8	Single Pin (Fa8)	59	96	40094	F96T8/SP30/CVG	24	15000	5620	5330	3000	75	Ⓢ	11, 13	103	
				40095	F96T8/SP35/CVG	24	15000	5620	5330	3500	75	Ⓢ	11, 13	103	
				40096	F96T8/SP41/CVG	24	15000	5620	5330	4100	75	Ⓢ	11, 13	103	
				40099	F96T8/SPX30/CVG	24	15000	5770	5480	3000	84	Ⓢ	11, 13	103	
				40105	F96T8/SPX35/CVG	24	15000	5770	5480	3500	84	Ⓢ	11, 13	103	
				40106	F96T8/SPX41/CVG	24	15000	5770	5480	4100	80	Ⓢ	11, 13	103	
<b>8' T8 HIGH OUTPUT LAMPS W/ STARCOAT®</b>															
<b>8' RECESSED DOUBLE CONTACT</b>															
T8	R17d	86	96	40107	F96T8/SP35/HO/CVG	24	18000	7760	6980	3500	75	Ⓢ	11, 12, 13	103	
				40108	F96T8/SP41/HO/CVG	24	18000	7760	6980	4100	75	Ⓢ	11, 12, 13	103	
<b>T8 PREHEAT LAMPS</b>															
T8	Medium BiPin (G13)	13	12	41109	F13T8/CW/CVG	24	7500	545	465	4100	60		11, 13	103	Preheat
		15	18	46216	F15T8/SP35/CVG	24	7500	910	825	3500	75	Ⓢ	11, 13	103	Preheat
				41111	F15T8/SPX35/CVG	24	7500	970	870	3500	82	Ⓢ	11, 13	103	Preheat
				41110	F15T8/CW/CVG	24	7500	800	700	4100	60		11, 13	103	Preheat
				46627	F15T8/KB/CVG/UPC	24	7500	910	825	3000	70	Ⓢ	11, 13	103	Preheat, Kitchen and Bath
		18	24	41117	F24T8/CW/4/CVG	6	7500	1180	1000	4100	60		11, 13	103	Preheat
		19	28	41121	F28T8/CW/4/CVG	6	7500	1300	1110	4100	60		11, 13	103	Preheat
		30	36	46206	F30T8/SPX30/CVG	24	7500	2230	2070	3000	82	Ⓢ	11, 13	103	Preheat
				41122	F30T8/CW/CVG	24	7500	2100	1920	4100	60		11, 13	103	Preheat

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Foot- notes	Warning and Cautions	Additional Information
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>														
<b>COVARGUARD® SHATTER RESISTANT (CONTINUED)</b>														
<b>T12 RAPID START LAMPS</b>														
<b>3' T12 (36")</b>														
T12	Medium BiPin (G13)	30	36	46211	F30T12/SP35/CVG	24	18000	2280	2050	3500	73	⊕	11, 13	103
				41123	F30T12/SPX30/RS/CVG	24	18000	2300	2070	3000	82	⊕	11, 13	103
				41124	F30T12/SPX35/RS/CVG	24	18000	2300	2070	3500	86	⊕	11, 13	103
				40126	F30T12/CW/RS/CVG	24	18000	2130	1850	4100	60		11, 13	103
<b>4' T12 (48")</b>														
T12	Medium BiPin (G13)	40	48	46212	F40T12/SP30/CVG	30	20000	3150	2860	3000	70	⊕	11, 13	103
				46214	F40T12/SP35/CVG	30	20000	3100	2820	3500	73	⊕	11, 13	103
				46426	F40/SP65/CVG	30	20000	2950	2690	6500	75	⊕	11, 13	103
				41135	F40/SPX30/CVG	30	20000	3290	2990	3000	82	⊕	11, 13	103
				41136	F40/SPX35/CVG	30	20000	3290	2990	3500	82	⊕	11, 13	103
				41137	F40/SPX41/CVG	30	20000	3240	2950	4100	80	⊕	11, 13	103
				41132	F40/C50/CVG	30	20000	2180	1810	5000	90	⊕	11, 13	103 Chroma 50
				41133	F40/C75/CVG	30	20000	1890	1630	7500	92	⊕	11, 13	103 Chroma 75
				40111	F40/CW/CVG	30	20000	2950	2600	4100	60		11, 13	103
				41436	F40/CW/CVG 6PK	6	20000	2950	2600	4100	60		11, 13	103
				41964	F40/D/CVG	30	20000	2470	2170	6250	75	⊕	11, 13	103 Daylight
				41965	F40/DX/CVG	30	20000	2180	1850	6500	84	⊕	11, 13	103 Daylight Deluxe
				46623	F40/KB/CVG/UPC	24	20000	3290	2990	3000	82	⊕	11, 13	103 Kitchen and Bath
				47343	F40/N/CVG	30	20000	2030	1680	3700	90	⊕	11, 13	103 Natural
<b>4' T12 WATT-MISER® LAMPS (48")</b>														
T12	Medium BiPin (G13)	34	48	40112	F34/SP35/RS/WM/CVG	30	20000	2660	2400	3500	73	⊕ ⚡	11, 13	103
				40113	F34/SP41/RS/WM/CVG	30	20000	2660	2400	4100	72	⊕ ⚡	11, 13	103
				40114	F34/SPX41/RS/WM/CVG	30	20000	2820	2530	4100	80	⊕ ⚡	11, 13	103
				40109	F34/CW/RS/WM/CVG	30	20000	2570	2210	4100	60	⚡	11, 13	103
				40806	F34/LW/RS/WM/CVG	30	20000	2730	2350	4200	49	⚡	11, 13	103 Lite White
				40110	F34/WW/RS/WM/CVG	30	20000	2620	2250	3000	52	⚡	11, 13	103 Warm White
<b>4' T12 ECOLUX® WATT-MISER® LAMPS (48")</b>														
T12	Medium BiPin (G13)	34	48	41138	F34/SPX30/RS/WM/ECO/CVG	30	20000	2810	2530	3000	82	⊕ ⚡	11, 13	103
				41139	F34/SPX35/RS/WM/ECO/CVG	30	20000	2810	2530	3500	82	⊕ ⚡	11, 13	103
				40805	F34/CW/RS/WM/ECO/CVG	30	20000	2570	2210	4100	60	⚡	11, 13	103
<b>4' T12 UTILITY SHOPLIGHT (48")</b>														
T12	Medium BiPin (G13)	25	48	46625	F48"/25W/UTSL/CVG/UPC	30	12000	1800	1620	4100	60		11, 13	103
<b>8' T12 WATT-MISER® LAMPS (96")</b>														
T12	Single Pin (Fa8)	58	96	45993	F96T12/SP35/WMP/CVG	15	12000	5520	5190	3500	75	⊕ ⚡	1, 11, 13	103
		60	96	40124	F96T12/SP35/WM/CVG	15	12000	5520	5200	3500	73	⊕ ⚡	1, 11, 13	103
				40115	F96T12/CW/WM/CVG	15	12000	5330	4910	4100	60	⚡	1, 11, 13	103
<b>8' T12 ECOLUX® WATT-MISER® LAMPS (96")</b>														
T12	Single Pin (Fa8)	58	96	45994	F96T12/SP35/WMP/ECO/CVG	15	12000	5520	5190	3500	75	⊕ ⚡	1, 11, 13	103
		60	96	40807	F96T12/CW/WM/ECO/CVG	15	12000	5330	4910	4100	60	⚡	1, 11, 13	103
<b>T12 MOD-U-LINE® ~ WATT-MISER® ENERGY SAVING LAMPS</b>														
T12	Medium BiPin (G13)	35	22.5	47694	F35/CW/U/6/WM/CVG	10	14000	2230	2030	4100	60	⚡	1, 11, 13	103 6" Spacing Between Legs



Bulb	Base	Nominal Length Order		Description	Case Qty.	Rated Life (hours)	Lumens			Color Temp. K	CRI	Foot-notes	Warning and Cautions	Additional Information
		Watts	in.				Code	Initial	Mean					
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>														
<b>COVRGUARD® SHATTER RESISTANT (CONTINUED)</b>														
<b>T12 INSTANT START LAMPS</b>														
T12	Single Pin (Fa8)	20	24	47342	F24T12/CW/CVG	24	7500	870	785	4100	60		11, 13	103
		40	48	48091	F48T12/SP35/CVG	24	9000	2910	2730	3500	73	⊕	11, 13	103
				41144	F48T12/SPX35/CVG	24	9000	2950	2780	3500	82	⊕	11, 13	103
				40127	F48T12/CW/CVG	24	9000	2780	2560	4100	60		11, 13	103
		50	60	41147	F60T12/CW/CVG	15	12000	3490	3210	4100	60		11, 13	103
		55	72	46213	F72T12/SP35/CVG	15	12000	4550	4280	3500	73	⊕	11, 13	103
				41151	F72T12/SPX30/CVG	15	12000	4650	4370	3000	82	⊕	11, 13	103
				41153	F72T12/SPX35/CVG	15	12000	4650	4370	3500	82	⊕	11, 13	103
		75	96	46215	F96T12/SP35/CVG	15	12000	6300	5920	3500	73	⊕	11, 13	103
				41157	F96T12/SPX30/CVG	15	12000	6590	6190	3000	82	⊕	11, 13	103
				41158	F96T12/SPX35/CVG	15	12000	6590	6190	3500	82	⊕	11, 13	103
				41159	F96T12/SPX41/CVG	15	12000	6590	6190	4100	80	⊕	11, 13	103
				46208	F96T12/C50/CVG	15	12000	4460	3920	5000	90	⊕	11, 13	103 Chroma 50
				40117	F96T12/CW/CVG	15	12000	5960	5480	4100	60		11, 13	103
				41973	F96T12/DX/CVG	15	12000	4360	3920	6500	84	⊕	11, 13	103 Daylight Deluxe
<b>T12 PREHEAT</b>														
T12	Medium BiPin (G13)	15	18	41114	F15T12/CW/CVG	24	9000	735	660	4100	60		11, 13	103 Preheat
		20	24	46218	F20T12/SP35/CVG	24	9000	1230	1160	3500	73	⊕	11, 13	103 Preheat
				41116	F20T12/SPX35/CVG	24	9000	1260	1180	3500	82	⊕	11, 13	103 Preheat
				46377	F20T12/C50/CVG	24	9000	845	765	5000	90	⊕	11, 13	103 Preheat, Chroma 50
				40125	F20T12/CW/CVG	24	9000	1160	1110	4100	60		11, 13	103 Preheat
				41000	F20T12/CW/CVG/UPC	24	9000	1160	1110	4100	60		11, 13	103 Preheat
				46622	F20T12/KB/CVG/UPC	24	9000	1230	1160	3000	70	⊕	11, 13	104 Preheat, Kitchen and Bath
		25	33	41120	F25T12/WW/33/CVG	24	7500	1850	1660	3000	52		11, 13	103 Preheat, Warm White
<b>T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT</b>														
T12	R17d	35	24	48090	F24T12/CW/HO/CVG	24	9000	1570	1300	4100	60		11, 12, 13	103
		60	48	41146	F48T12/SPX35/HO/CVG	24	12000	4220	3800	3500	82	⊕	11, 12, 13	103
				41969	F48T12/D/HO/CVG	24	12000	3290	2870	6500	75	⊕	11, 12, 13	103 Daylight
				40129	F48T12/CW/HO/CVG	24	12000	3930	3410	4100	60		11, 12, 13	103
		75	60	41148	F60T12/CW/HO/CVG	15	12000	4990	4340	4150	62		11, 12, 13	103
		85	72	46207	F72T12/SP35/HO/CVG	15	12000	6450	5810	3500	73	⊕	11, 12, 13	103
				41152	F72T12/SPX30/HO/CVG	15	12000	6590	5930	3000	82	⊕	11, 12, 13	103
				41154	F72T12/SPX35/HO/CVG	15	12000	6590	5930	3500	82	⊕	11, 12, 13	103
				40811	F72T12/CW/HO/CVG	15	12000	6150	5350	4100	60		11, 12, 13	103
				48094	F72T12/N/HO/CVG	10	12000	4170	3500	3700	90	⊕	11, 12, 13	103 Natural
		100	84	41156	F84T12/CW/HO/CVG	15	12000	7460	6490	4100	60		11, 12, 13	103
		110	96	46210	F96T12/SP35/HO/CVG	15	12000	8920	8030	3500	73	⊕	11, 12, 13	103
				45264	F96T12/SP65/HO/CVG	15	12000	8630	7760	6500	75	⊕	11, 12, 13	103
				41160	F96T12/SPX30/HO/CVG	15	12000	9070	8160	3000	82	⊕	11, 12, 13	103
				41161	F96T12/SPX35/HO/CVG	15	12000	9070	8160	3500	82	⊕	11, 12, 13	103
				41162	F96T12/SPX41/HO/CVG	15	12000	9070	8160	4100	80	⊕	11, 12, 13	103
				40808	F96T12/CW/HO/CVG	15	12000	8630	7500	4100	60	⊕	11, 12, 13	103
				46424	F96T12/D/HO/CVG	15	12000	7370	6410	6500	75	⊕	11, 12, 13	103 Daylight
				46430	F96T12/DX/HO/CVG	15	12000	6400	5440	6500	84	⊕	11, 12, 13	103 Daylight Deluxe

⊕ Means this lamp meets Federal Minimum Efficiency Standards.



Bulb	Base	Nominal Length Watts	Order in.	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. Mean K	CRI	Foot- notes	Warning and Cautions	Additional Information
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## SPECIAL APPLICATION LAMPS (CONTINUED)

### COVARGUARD® SHATTER RESISTANT (CONTINUED)

#### T12 INSTANT START LAMPS (CONTINUED)

##### WATT-MISER® ENERGY SAVING LAMPS

T12	R17d	95	96	40118	F96T12/SP35/HO/WM/CVG	15	12000	8090	7290	3500	73	Ⓢ ⚡	1, 11, 12, 13	103
				40123	F96T12/SP41/HO/WM/CVG	15	12000	8090	7290	4100	72	Ⓢ ⚡	1, 11, 12, 13	103
				40116	F96T12/CW/HO/WM/CVG	15	12000	7760	6750	4100	60	Ⓢ ⚡	1, 11, 12, 13	103
				16821	F96T12/CW/HO/WM/ECO/CVG	15	12000	7760	6285	4100	60	Ⓢ ⚡	1, 11, 12, 13	103 Ecolux®

## COLD TEMPERATURE

### INSTANT START

T12	Single Pin (Fa8)	75	96	47350	F96T12/CW-CT	15	12000	5960	5490	4100	60		11, 13, 17	101 Plastic jacket
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### HIGH OUTPUT (800mA) RECESSED DOUBLE CONTACT

T12	R17d	35	24	48097	F24T12/CW/HO-CT	12	9000	1570	1300	4100	60		11, 13, 17	101 Plastic jacket
		60	48	48530	F48T12/SP35/HO-AT	12	12000	4120	3710	3500	73	Ⓢ	6, 11, 13	101 Plastic jacket w/ vent holes
				47352	F48T12/SPX30/HO-CT	24	12000	4210	3800	3000	82	Ⓢ	11, 13, 17	101 Plastic jacket
				45976	F48T12/CW/HO-AT	12	12000	3710	3220	4100	60		6, 11, 13	101 Plastic jacket w/ vent holes
		75	60	47353	F60T12/CW/HO-CT	12	12000	4990	4340	4100	60		11, 13, 17	101 Plastic jacket
		85	72	47346	F72T12/SP35/HO-CT	8	12000	6450	5810	3500	73	Ⓢ	11, 13, 17	101 Plastic jacket
				46201	F72T12/SP41/HO-CT	8	12000	6450	5810	4100	72	Ⓢ	11, 13, 17	101 Plastic jacket
				48095	F72T12/SPX35/HO-CT	8	12000	6590	5930	3500	82	Ⓢ	11, 13, 17	101 Plastic jacket
				46199	F72T12/CW/HO-AT	8	12000	6150	5350	4100	60		6, 11, 13	101 Plastic jacket w/ vent holes
		110	96	45979	F96T12/SP35/HO-CT	8	12000	8920	8030	3500	73	Ⓢ	11, 13, 17	101 Plastic jacket
				48096	F96T12/SPX35/HO-CT	8	12000	9060	8160	3500	82	Ⓢ	11, 13, 17	101 Plastic jacket
				45912	F96T12/CW/HO-AT	8	12000	8630	7500	4100	60		6, 11, 13	101 Plastic jacket w/ vent holes
				11918	F96T12/CW/HO/CT	15	12000	8900	7740	4100	60			101 Plastic jacket w/ vent holes
				11919	F96T12/D/HO/CT	15	12000	7600	6610	6500	75	Ⓢ		101 Plastic jacket w/ vent holes

### T10 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT

T10	R17d	110	48	10742	F48T10/CW	24	9000	6200		4100	60		4	101
				10743	F48T10/J/CW	12	9000	6000		4100	60		4	101 1 <sup>3</sup> / <sub>16</sub> " Diameter Clear Outer Jacket
				46196	F48T10/CW/VHO-CT	12	9000	6010		4100	60		4, 15, 17	101 Plastic jacket
		135	60	17135	F60T10/SP30	24	6000	8500		3000	70	Ⓢ	4	101
				13002	F60T10/CW 6PK	6	6000	7000		4100	60		4	101
				39157	F60T10/CW	24	6000	7000		4100	60		4	101
				40441	F60T10/J/CW	12	6000	8000		4100	60		4	101 1 <sup>3</sup> / <sub>16</sub> " Diameter Clear Outer Jacket
				46197	F60T10/CW/VHO-CT	12	6000	6790		4100	60		4, 15, 17	101 Plastic jacket
		160	72	13776	F72T10/CW 15PK	15	9000	9700		4100	60		4	101
				10858	F72T10/J/CW	8	9000	9600		4100	60		4	101 1 <sup>3</sup> / <sub>16</sub> " Diameter Clear Outer Jacket
				46198	F72T10/CW/VHO-CT	8	9000	9400		4100	60		4, 15, 17	101 Plastic jacket

### T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT

T12	R17d	110	48	34206	F48T12/CW/1500/0	24	10000	7000		4100	60		4	101
				41606	F48T12/J/CW1500/0	12	10000	6800		4100	60		4	101 1 <sup>3</sup> / <sub>16</sub> " Diameter Clear Outer Jacket
				46195	F48T12/CW/VHO-CT	12	10000	6790		4100	60		4, 15, 17	101 Plastic jacket
		170	72	13762	F72T12/CW/1500/0	15	10000	10800		4100	60		4	101
				41612	F72T12/J/CW1500/0	8	10000	10500		4100	60		4	101 1 <sup>3</sup> / <sub>16</sub> " Diameter Clear Outer Jacket
				46200	F72T12/CW/VHO-CT	8	10000	10470		4100	60		4, 15, 17	101 Plastic jacket

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



Bulb	Base	Nominal Length Order		Description	Case Qty.	Rated Life (hours)	Lumens			Color Temp. K	CRI	Foot-notes	Warning and Cautions	Additional Information
		Watts	in.				Initial	Mean	Final					
<b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>														
<b>COLD TEMPERATURE (CONTINUED)</b>														
<b>T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT (CONTINUED)</b>														
T12	R17d	220	96	13788 F96T12/CW/1500/0	15	10000	14400			4100	60	4	101	
				41613 F96T12/J/CW1500/0	8	10000	14000			4100	60	4	101	1 13/16" Diameter Clear Outer Jacket
				46202 F96T12/CW/VHO-CT	8	10000	13960			4100	60	4, 15, 17	101	Plastic jacket
<b>DIAZO REPROGRAPHIC 1500mA (SUPERBLUE)</b>														
<b>T12</b>														
T12	Medium BiPin (G13)	120	54	40092 F54" T12/SPB	24	2000						2	101	
		125	59	39683 F59" T12/SPB	24	2000						2	101	
<b>T17</b>														
T17	Mogul BiPin (G20)	180	54	26390 F54" T17/SPB	12	2000						2	101	
<b>APPLIANCE</b>														
<b>T8</b>														
T8	Medium BiPin (G13)	18	22	10257 F22" T8/D/4"	24	7500	925	790	6500	75			101	Daylight
		24	17705	F24" T8/CW/4 6PK	24	7500	1225	1040	4100	60			101	
		19	26	10702 F26" T8/CW/4"	24	7500	1275	1085	4100	60			101	
				38199 F26" T8/CW/4 6PK	24	7500	1275	1085	4100	60			101	
		28	17704	F28" T8/CW/4 6PK	24	7500	1350	1145	4100	60			101	
		30	10349	F30" T8/CW/4"	24	7500	1375	1170	4100	60			101	
<b>T12</b>														
T12	Medium BiPin (G13)	21	30	10355 F30" T12/CW	24	7500	1350	1220	4100	60			101	
		25	28	10282 F25T12/CW/28 6PK	24	7500	1550	1390	4100	60			101	
				10286 F25T12/D/28	24	7500	1450	1310	6500	75			101	Daylight
		33	38201	F25T12/CW/33 6PK	24	7500	1860	1675	4100	60			101	
				10299 F25T12/D/33	24	7500	1600	1440	6500	75			101	Daylight
				10293 F25T12/WW/33	24	7500	1910	1720	3000	52			101	Warm White
<b>BLACKLIGHT/BLACKLIGHT BLUE</b>														
<b>BLACKLIGHT</b>														
T8	Medium BiPin (G13)	15	18	35884 F15T8/BL 6PK	24	7500						8	105	Blacklight, UVA Source
T12	Medium BiPin (G13)	20	24	10244 F20T12/BL 6PK	24	9000						8	105	Blacklight, UVA Source
		40	22.5	40537 F40BL/U/3	12	14000						8	105	Blacklight, UVA Source, Mod-U-Line® 3% Spacing Between Legs
		48	10526	F40BL 6PK	24	20000						8	105	Blacklight, UVA Source
<b>BLACKLIGHT BLUE</b>														
T5	Miniature BiPin (G5)	4	6	10019 F4T5/BLB	24	5000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		8	12	10077 F8T5/BLB	24	5000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T8	Medium BiPin (G13)	15	18	35885 F15T8/BLB 6PK	24	7500							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9	4 Pin (G10q)	22	8.25	25665 FC8T9/BLB	6	12000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium BiPin (G13)	20	24	34747 F20T12/BLB 6PK	24	9000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		40	48	10531 F40BLB 6PK	24	20000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter



Bulb	Base	Watts	Nominal Length in.	Order Code	Description	Case Qty.	Rated Life (hours)	Color			Foot-notes	Warning and Cautions	Additional Information
								Initial Lumens	Mean Temp. K	CRI			
<b>COLORED LAMPS</b>													
<b>T8</b>													
T8	Medium BiPin (G13)	17	24	48171	F17T8/A/20/CVG	24	20000					103 Sleeved Rosco Amber 20	
				48172	F17T8/R/26/CVG	24	20000				103 Sleeved Rosco Red 26		
				48173	F17T8/B/80/CVG	24	20000				103 Sleeved Rosco Blue 80		
				48174	F17T8/G/90/CVG	24	20000				103 Sleeved Rosco Green 90		
		25	36	48175	F25T8/A/20/CVG	24	20000				103 Sleeved Rosco Amber 20		
				48176	F25T8/R/26/CVG	24	20000				103 Sleeved Rosco Red 26		
				48177	F25T8/B/80/CVG	24	20000				103 Sleeved Rosco Blue 80		
				48178	F25T8/G/90/CVG	24	20000				103 Sleeved Rosco Green 90		
		32	48	48102	F32T8/R/24/CVG	36	20000				103 Sleeved Rosco Red 24		
				48103	F32T8/B/65/CVG	36	20000				103 Sleeved Rosco Blue 65		
				48104	F32T8/G/89/CVG	36	20000				103 Sleeved Rosco Green 89		
<b>T12</b>													
T12	Medium BiPin (G13)	40	48	10514	F40/B 6 PK	24	20000	1200	720			101 Phosphor Blue	
				10517	F40/G 6 PK	24	20000	4000	2000			101 Phosphor Green	
		30	48099	F40T12/R/24/CVG	30	20000					103 Sleeved Rosco Red 24		
			48100	F40T12/B/65/CVG	30	20000					103 Sleeved Rosco Blue 65		
			48101	F40T12/G/89/CVG	30	20000					103 Sleeved Rosco Green 89		
<b>PREHEAT</b>													
T5	Miniature BiPin (G5)	8	12	46714	F8T5/BLUE65/CVG	24	5000					103 Sleeved Rosco Blue 65	
				46717	F8T5/PINK34/CVG	24	5000				103 Sleeved Rosco Pink 34		
				46720	F8T5/AMBER2/CVG	24	5000				103 Sleeved Rosco Amber 2		
				46723	F8T5/YELLOW14/CVG	24	5000				103 Sleeved Rosco Yellow 14		
				46728	F8T5/GREEN89/CVG	24	5000				103 Sleeved Rosco Green 89		
T8	Medium BiPin (G13)	15	18	46715	F15T8/BLUE65/CVG	24	7500					103 Sleeved Rosco Blue 65	
				46718	F15T8/PINK34/CVG	24	7500				103 Sleeved Rosco Pink 34		
				46721	F15T8/AMBER2/CVG	24	7500				103 Sleeved Rosco Amber 2		
				46725	F15T8/YELLOW14/CVG	24	7500				103 Sleeved Rosco Yellow 14		
				46729	F15T8/GREEN89/CVG	24	7500				103 Sleeved Rosco Green 89		
T12	Medium BiPin (G13)	15	18	46716	F15T12/BLUE65/CVG	24	9000					103 Sleeved Rosco Blue 65	
				46719	F15T12/PINK34/CVG	24	9000				103 Sleeved Rosco Pink 34		
				46722	F15T12/AMBER2/CVG	24	9000				103 Sleeved Rosco Amber 2		
				46726	F15T12/YELLOW14/CVG	24	9000				103 Sleeved Rosco Yellow 14		
		20	24	48259	F20T12/R/24/CVG	24	9000					103 Sleeved Rosco Red 24	
				48260	F20T12/B/65/CVG	24	9000				103 Sleeved Rosco Blue 65		
				48261	F20T12/G/89/CVG	24	9000				103 Sleeved Rosco Green 89		
				10231	F20T12/B 6PK	24	9000	450	330			101 Phosphor Blue	
				10233	F20T12/G 6PK	24	9000	1575	975			101 Phosphor Green	
<b>GOLD</b>													
<b>T8 LAMPS</b>													
T8	Medium BiPin (G13)	25	36	23008	F25T8/GO	24	20000	1360	1140			101 Gold, Blocks UV and Deep Blue Emissions	
		32	48	23009	F32T8/GO	36	20000	1750	1470			101 Gold, Blocks UV and Deep Blue Emissions	
<b>T8 COVRGUARD® LAMPS</b>													
T8	Medium BiPin (G13)	17	24	47405	F17T8/GO/CVG	24	20000					103 Gold Sleeved, Blocks UV and Deep Blue Emissions	
		15	36	47406	F25T8/GO/CVG	24	20000					103 Gold Sleeved, Blocks UV and Deep Blue Emissions	
		32	48	47407	F32T8/GO/CVG	36	20000					103 Gold Sleeved, Blocks UV and Deep Blue Emissions	

# Fluorescent Lamps



Bulb	Base	Nominal Length Order		Description	Case Qty.	Rated Life (hours)	Lumens			Color Temp.		Foot-notes	Warning and Cautions	Additional Information
		Watts	in.				Code	Initial	Mean	K	CRI			
<b>GOLD (CONTINUED)</b>														
<b>T12 LAMPS</b>														
T12	Medium BiPin (G13)	40	48	<b>10522 F40/GO 6PK</b>	24	20000	2150	1830					101	Gold, Blocks UV and Deep Blue Emissions
	Single Pin (Fa8)	55	72	<b>12524 F72T12/GO</b>	10	12000	3200	2840					101	Gold, Blocks UV and Deep Blue Emissions
		75	96	<b>17897 F96T12/GO 10PK</b>	10	12000	4350	3870					101	Gold, Blocks UV and Deep Blue Emissions
	R17d	110	96	<b>35505 F96T12GO/HO-10PK</b>	10	12000	6300	5300					101	Gold, Blocks UV and Deep Blue Emissions
<b>T12 COVRGUARD® LAMPS</b>														
T12	Medium BiPin (G13)	40	48	<b>47408 F40/GO/CVG</b>	30	20000							103	Gold Sleeved, Blocks UV and Deep Blue Emissions
	Single Pin (Fa8)	55	72	<b>47411 F72T12/GO/CVG</b>	15	12000							103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		75	96	<b>47409 F96T12/GO/CVG</b>	15	12000							103	Gold Sleeved, Blocks UV and Deep Blue Emissions
	R17d	110	96	<b>47410 F96T12/GO/HO/CVG</b>	15	12000							103	Gold Sleeved, Blocks UV and Deep Blue Emissions
<b>GROCERY DISPLAY LAMPS</b>														
T12	Medium BiPin (G13)	40	48	<b>48167 F40T12/FL/CVG</b>	30	20000	1925	1450	2750				103	CovRFresh
<b>GERMICIDAL</b>														
T5	Miniature BiPin (G5)	4	6	<b>15872 G4T5</b>	24	6000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
		6	8	<b>15873 G6T5</b>	24	6000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
		8	12	<b>11077 G8T5</b>	24	6000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
	Single Pin (Fa8)	39	36	<b>15874 G36T5</b>	24	9000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
		65	64	<b>15864 G64T5</b>	24	9000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
T8	Medium BiPin (G13)	15	18	<b>11078 G15T8</b>	24	8000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
		25	18	<b>11082 G25T8</b>	24	8000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
		30	36	<b>11080 G30T8</b>	24	8000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
		55	36	<b>15875 G55T8/HO</b>	24	8000						9, 16	106	Clear, Preheat, For Use With Starters, UVC source
<b>PLANT AND AQUARIUM/TERRARIUM</b>														
<b>T8 LAMPS</b>														
<b>15" T8 LAMPS</b>														
T8	Medium BiPin (G13)	14	15	<b>41373 F14T8/AR/FR 6PK</b>	24	7500	360	4000	92				104	Aquarium Lamp Freshwater
				<b>40903 F14T8/AR/FS/6PK</b>	24	7500	550	9325	64				104	Aquarium Lamp Fresh and Saltwater
				<b>41375 F14T8/AR/SA 6PK</b>	24	7500	190	10000	62				104	Aquarium Lamp Saltwater
				<b>41377 F14T8/SR 6PK</b>	24	7500	565	5000	90				104	Aquarium/Terrarium Lamp
<b>18" T8 LAMPS</b>														
T8	Medium BiPin (G13)	15	18	<b>22907 F15T8/AR/FR 6PK</b>	24	7500	425	4000	92				104	Aquarium Lamp Freshwater
				<b>22910 F15T8/AR/FS 6PK</b>	24	7500	675	9325	64				104	Aquarium Lamp Fresh and Saltwater
				<b>22920 F15T8/AR/SA 6PK</b>	24	7500	210	1000	62				104	Aquarium Lamp Saltwater
				<b>49892 F15T8/PL/AQ 6PK</b>	24	7500	510	3100	90				104	Plant & Aquarium Wide Spectrum
				<b>22904 F15T8/SR 6PK</b>	24	7500	620	5000	90				104	Aquarium/Terrarium Lamp

# Fluorescent Lamps



Bulb	Base	Nominal Length Watts	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Color Temp. K	CRI	Foot- notes	Warning and Cautions	Additional Information
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## PLANT AND AQUARIUM/TERRARIUM (CONTINUED)

### T8 LAMPS (CONTINUED)

#### 36" T8 LAMPS

T8	Medium BiPin (G13)	30	36	41374 F30T8/AR/FR 6PK	24	9000	630	4000	92	Ⓢ	104 Aquarium Lamp Freshwater
				40904 F30T8/AR/FS 6PK	24	9000	1400	9235	64		104 Aquarium Lamp Fresh and Saltwater
				41376 F30T8/AR/SA 6PK	24	9000	315	10000	62		104 Aquarium Lamp Saltwater

### T12 LAMPS

#### 24" T12 LAMPS

T12	Medium BiPin (G13)	20	24	22908 F20T12/AR/FR 6PK	24	9000	600	4000	92	Ⓢ	104 Aquarium Lamp Freshwater
				22911 F20T12/AR/FS 6PK	24	9000	950	9325	64		104 Aquarium Lamp Fresh and Saltwater
				22922 F20T12/AR/SA 6PK	24	9000	270	1000	62		104 Aquarium Lamp Saltwater
				49891 F20T12/PL/AQ 6PK	24	9000	750	3100	90	Ⓢ	104 Plant & Aquarium Wide Spectrum
				22905 F20T12/SR 6PK	24	9000	875	5000	90	Ⓢ	104 Aquarium/Terrarium Lamp

#### 36" T12 LAMPS

T12	Medium BiPin (G13)	30	36	41378 F30T12/SR 6PK	24	18000	1100	5000	90	Ⓢ	104 Aquarium/Terrarium Lamp
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#### 48" T12 LAMPS

T12	Medium BiPin (G13)	40	48	22909 F40T12/AR/FR 6PK	24	9000	1425	4000	92	Ⓢ	104 Aquarium Lamp Freshwater
				22914 F40T12/AR/FS 6PK	24	9000	2350	9325	64		104 Aquarium Lamp Fresh and Saltwater
				22923 F40T12/AR/SA 6PK	24	9000	700	1000	62		104 Aquarium Lamp Saltwater
				49893 F40PL/AQ 6PK	24	20000	1900	3100	90	Ⓢ	104 Plant & Aquarium Wide Spectrum
				22906 F40T12/SR 6PK	24	20000	2250	5000	90	Ⓢ	104 Aquarium/Terrarium Lamp

## EXPORT OUTSIDE U.S. AND CANADA ONLY

T12	Medium BiPin (G13)	40	22.5	14496 F40/CW/U/6/EX	12	14000	2800	2460	4100	60		102 6" Spacing Between Legs
				14498 F40/D/U/6/EX	12	14000	2350	2070	6500	75	Ⓢ	102 Daylight, 6" Spacing Between Legs
			48	14656 F40/CW/EX-30PK	30	20000	3050	2680	4100	60		101
				14488 F40/D/EX	30	20000	2550	2240	6500	75	Ⓢ	101 Daylight
	Single Pin (Fa8)	75	96	12541 F96T12/CW/EX-15PK	15	12000	6150	5660	4100	60		101
				12543 F96T12/D/EX-15PK	15	12000	5250	4330	6500	75	Ⓢ	101 Daylight
	R17d	110	96	12540 F96T12/CW/HO/EX	15	12000	8900	7740	4100	60		101
				12542 F96T12/D/HO/EX-15PK	15	12000	7600	6610	6500	75	Ⓢ	101 Daylight
	Medium BiPin (G13)	20	24	41555 F20T12/CW/CVG/PQ	24	9000	1160	1110	4100	60		101
		34	48	41554 F34/CW/RS/WM/CVG/PQ	24	20000	2570	2210	4100	60	⚡	101
T8	Medium BiPin (G13)	58	60	41900 F58WT8/835/CVG	25	15000		3400	85	Ⓢ	101	
				41899 F58WT8/840/CVG	25	15000		4000	85	Ⓢ	101	
		70	72	41898 F70WT8/835/CVG	25	15000		3400	85	Ⓢ	101	
				41896 F70WT8/840/CVG	25	15000		4000	85	Ⓢ	101	

## CONSUMER PRODUCTS

### T8

#### 4' T8

T8	Medium BiPin (G13)	32	48	15900 F32T8/SP30/ECO/UPC	36	20000	2800	2660	3000	78	Ⓢ Ⓢ	101
				15903 F32T8/SP35/ECO/UPC	36	20000	2800	2660	3500	78	Ⓢ Ⓢ	101
				11873 F32T8/SP35/ECO 12PK	12	20000	2800	2660	3500	78	Ⓢ Ⓢ	101
				15909 F32T8/SP41/ECO/UPC	36	20000	2800	2660	4100	78	Ⓢ Ⓢ	101
				15904 F32T8/SP41/ECO/C	12	20000	2800	2660	4100	78	Ⓢ Ⓢ	101
				16263 F32T8/RESI/ECO 2PK	6	15000	2650	2385	4100	78	Ⓢ Ⓢ	101

#### 8' T8

T8	Single Pin (Fa8)	59	96	10401 F96T8/SP41/UPC	24	15000	5800	5500	4100	78	Ⓢ Ⓢ	101
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Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.



Bulb	Base	Nominal Length Watts in.	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Temp. Mean K	Color CRI	Foot-notes	Warning and Cautions	Additional Information
<b>CONSUMER PRODUCTS (CONTINUED)</b>												
<b>T12</b>												
<b>4' F40 STANDARD</b>												
T12	Medium BiPin (G13)	40	48	23382 F40/SP41/C	10	20000	3200 2910	4100 72	Ⓢ Ⓡ		101	
				25400 F40/SP65/UPC	30	20000	3050 2775	6500 75	Ⓢ Ⓡ		101	
				25399 F40/C50/UPC	30	20000	2250 1870	5000 90	Ⓡ		101	Chroma 50
				16083 F40/D/ULTRA 2PK	9	20000	3050 2775	6500 75	Ⓢ Ⓡ		101	Daylight Ultra
				13969 F40/D/ULTRA 6PK	24	20000	3050 2775	6500 75	Ⓢ Ⓡ		101	Daylight Ultra
				40333 F40/KB/2PK/PP	9	20000	3400 3090	3000 70	Ⓢ Ⓡ		104	Kitchen & Bath
				21323 F40/KB 6PK	24	20000	3400 3090	3000 70	Ⓢ Ⓡ		104	Kitchen & Bath
				12224 F40/SUN 6PK	24	20000	2250 1870	5000 90	Ⓡ		101	Sunlight
				10949 F40/RESI/LL 2PK	9	20000	3200 2910	4100 72	Ⓢ Ⓡ		101	
				14440 F40/RES/SLV	30	15000	3150 2860	4100 72	Ⓢ Ⓡ		101	
				14433 F40/RES/SLV 6PK	24	15000	3150 2860	4100 72	Ⓢ Ⓡ		101	
				14441 F40/RES/TWIN 9PK	9	15000	3150 2860	4100 72	Ⓢ Ⓡ		101	
				48510 F40/RES/TWIN 15PK	15	15000	3150 2860	4100 72	Ⓢ Ⓡ		101	
<b>4' UTILITY SHOPLIGHT</b>												
T12	Medium BiPin (G13)	25	48	14445 F48"/25W/UTSL/UPC	30	12000	1860 1675	4100 60		10	101	
				14450 F48"/25W/UTSL/SLV	30	12000	1860 1675	4100 60		10	101	
				14456 F48"/25W/UTSL/TWN	9	12000	1860 1675	4100 60		10	101	
				48511 F48"/25W/UTSL/2PK	15	12000	1860 1675	4100 60		10	101	
<b>4' F34 WATT-MISER® (FORMERLY F40/WM) ENERGY SAVING LAMPS</b>												
T12	Medium BiPin (G13)	34	48	25401 F34/SP30/RS/WM/UPC	30	20000	2750 2475	3000 70	Ⓢ Ⓡ ⚡	1	101	
				21858 F40/SP35/RS/WM/UPC 6PK	24	20000	2750 2475	3500 73	Ⓢ Ⓡ ⚡	1	101	
				23486 F34/SP35/WM/C 10PK	10	20000	2750 2475	3500 73	Ⓢ Ⓡ ⚡	1	101	
				25397 F34/SP41/RS/WM/UPC	30	20000	2750 2475	4100 72	Ⓢ Ⓡ ⚡	1	101	
				25391 F34/CW/RS/WM/UPC	30	20000	2650 2280	4100 60	Ⓢ ⚡	1	101	
				23485 F34/CW/RS/WM/C 10PK	10	20000	2650 2280	4100 60	Ⓢ ⚡	1	101	
				25398 F34/WW/RS/WM/UPC	30	20000	2700 2320	3000 52	Ⓢ ⚡	1	101	Warm White
<b>4' F34 WATT-MISER® (FORMERLY F40/WM) ENERGY SAVING LAMPS – ECOLUX®</b>												
T12	Medium BiPin (G13)	34	48	16811 F34/CW/RS/WM/ECO	10	20000	2650 2280	4100 60	Ⓢ ⚡	1	101	
				40372 F34/SP41/RS/WM/ECO	24	20000	2750 2475	4100 72	Ⓢ Ⓡ ⚡	1	101	
<b>MOD-U-LINE® WATT-MISER® U-TUBES</b>												
T12	Medium BiPin (G13)	35	22.5	14471 F35/CW/U/6/WM/UPC	12	14000	2300 2100	4100 60	Ⓢ ⚡	1	102	
				23383 F35/CW/U/6/WM/C	6	14000	2300 2100	4100 60	Ⓢ ⚡	1	102	
<b>MOD-U-LINE® STANDARD U-TUBES</b>												
T12	Medium BiPin (G13)	40	22.5	22050 F40/SP35/U/6/UPC	12	14000	3050 2780	3500 73	Ⓢ Ⓡ		102	
				25374 F40/SCW/U/6/UPC 6PK	6	14000	2800 2460	4100 75	Ⓢ Ⓡ		102	Super Cool White

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

# Fluorescent Lamps



Bulb	Base	Nominal Watts	Length in.	Order Code	Description	Case Qty.	Rated Life (hours)	Lumens Initial	Lumens Mean	Color Temp. K	CRI	Foot- notes	Warning and Cautions	Additional Information
<b>CONSUMER PRODUCTS (CONTINUED)</b>														
<b>T12 (CONTINUED)</b>														
<b>T12 INSTANT START</b>														
<b>4' T12</b>														
T12	Single Pin (Fa8)	40	48	20461	F48T12/CW/UPC 6PK	24	9000	2875	2650	4100	60		101	
<b>8' T12</b>														
T12	Single Pin (Fa8)	75	96	10149	F96T12/SP41/UPC	15	12000	6500	6110	4100	72	Ⓢ Ⓡ	101	
<b>WATT-MISER® ENERGY SAVING LAMPS</b>														
T12	Single Pin (Fa8)	60	96	21856	F96T12/SP35/WM/UPC	15	12000	5700	5360	3500	73	Ⓢ Ⓡ ⚡	101	
				11217	F96T12/SP35/WM/C 10PK	10	12000	5700	5360	3500	73	Ⓢ Ⓡ ⚡	101	
				25395	F96T12/SP41/WM/UPC	15	12000	5700	5360	4100	72	Ⓢ Ⓡ ⚡	101	
				21713	F96T12/CW/WM/UPC 10PK	10	12000	5500	5060	4100	60	Ⓢ ⚡	101	
				25171	F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60	Ⓢ ⚡	101	
<b>WATT-MISER® ENERGY SAVING LAMPS – ECOLUX®</b>														
T12	Single Pin (Fa8)	60	96	16816	F96T12/CW/WM/ECO	15	12000	5500	5060	4100	60	Ⓢ Ⓡ ⚡	101	
<b>T12 RAPID START</b>														
T12	Medium BiPin (G13)	30	36	77119	F30T12/RS/KB/PM	24	18000	2350	2120	3000	70	Ⓡ	104	Kitchen & Bath
				39176	F30T12/CW/RS 6PK	24	18000	2200	1910	4100	60		101	
<b>T12 HIGH OUTPUT RAPID START RECESSED DOUBLE CONTACT</b>														
T12	R17d	60	48	27313	F48T12/CW/HO/UPC	24	12000	4050	3520	4100	60		101	
				21714	F96T12/CW/HO/WM/UPC	15	12000	8000	6960	4100	60	Ⓢ ⚡	101	
<b>PREHEAT</b>														
<b>T5</b>														
T5	Miniature BiPin (G5)	4	6	15983	F4T5/CW/CARD	10	5000	135	100	4100	60		101	Preheat
		6	9	15986	F6T5/CW/CARD	10	5000	295	235	4100	60		101	Preheat
		8	12	15987	F8T5/CW/CARD	10	5000	400	320	4100	60		101	Preheat
				25425	F8T5/WW/CARD	5	5000	410	330	3000	52		101	Preheat, Warm White
		13	21	25426	F13T5/WW/CARD	5	5000	870	720	3000	52		101	Preheat, Warm White
<b>T8</b>														
T8	Medium BiPin (G13)	15	18	13968	F15T8/SUN 6PK	24	7500	620	525	5000	90	Ⓡ	101	Preheat, Sunlight
		30	36	22747	F30T8/KB 6PK	24	7500	2125	1910	3000	70	Ⓡ	104	Preheat, Kitchen & Bath
<b>T12</b>														
T12	Medium BiPin (G13)	14	15	10117	F14T12/CW 6PK	24	9000	650	550	4100	60		101	Preheat
				22979	F14T12/KB 6PK	24	9000	700	650	3000	70	Ⓡ	104	Preheat, Kitchen & Bath
		15	18	10183	F15T12/CW 6PK	24	9000	760	685	4100	60		101	Preheat, Kitchen & Bath
				22745	F15T12/KB 6PK	24	9000	785	730	3000	70	Ⓡ	104	Preheat, Kitchen & Bath
		20	24	10214	F20T12/CW 6PK	24	9000	1200	1150	4100	60		101	Preheat
				25575	F20T12/D/UPC	24	9000	1025	945	6500	75	Ⓡ	101	Preheat, Daylight
				21325	F20T12/KB 6PK	24	9000	1275	1200	3000	70	Ⓡ	104	Preheat, Kitchen & Bath
				14419	F20T12/SUN 6PK	24	9000	875	790	5000	90	Ⓡ	101	Preheat, Sunlight
				25577	F20T12/WW/UPC	24	9000	1250	1150	3000	52		101	Preheat, Warm White
				10231	F20T12/B 6PK	24	9000	450	330				101	Preheat
				10233	F20T12/G 6PK	24	9000	1575	957				101	Preheat

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

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



Bulb	Base	Nominal Length		Order Code	Description	Case Qty.	Rated Life (hours)	Lumens			Color Temp. K	CRI	Foot-notes	Warning and Cautions	Additional Information	
		Watts	in.					Initial	Mean	Final						
<b>CONSUMER PRODUCTS (CONTINUED)</b>																
<b>BLACKLIGHT/BLACKLIGHT BLUE</b>																
<b>BLACKLIGHT</b>																
T8	Medium BiPin (G13)	15	18	35884	F15T8/BL 6PK	24	7500						8	105	Blacklight, UVA Source	
T12	Medium BiPin (G13)	20	24	10244	F20T12/BL 6PK	24	9000						8	105	Blacklight, UVA Source	
		40	48	10526	F40BL 6PK	24	20000						8	105	Blacklight, UVA Source	
<b>BLACKLIGHT BLUE</b>																
T8	Medium BiPin (G13)	15	18	35885	F15T8/BLB 6PK	24	7500							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
T12	Medium BiPin (G13)	20	24	34747	F20T12/BLB 6PK	24	9000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
T9	4 Pin (G10q)	22	8.25	25665	FC8T9/BLB	6	12000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
T12	Medium BiPin (G13)	40	48	10531	F40/BLB 6PK	24	20000							101	Blacklight Blue, UVA Source, Integral Dark Blue Filter	
<b>T9 CIRCLINE</b>																
T9	4 Pin (G10q)	20	6.5	42732	FC6T9/CW	12	12000	800	560	4100	60			101		
		22	8.25	33774	FC8T9/CW	12	12000	1100	825	4100	60			101		
				11026	FC8T9/D	12	12000	925	690	6500	75		☉		101	Daylight
				11084	FC8T9/KB	6	12000	1400	1120	3000	82		☉		104	Kitchen and Bath
		32	12	33890	FC12T9/CW	12	12000	1950	1460	4100	60				101	
				11039	FC12T9/D	12	12000	1675	1260	6500	75		☉		101	Daylight
				11085	FC12T9/KB	6	12000	2400	1920	3000	82		☉		104	Kitchen and Bath
		40	16	33893	FC16T9/CW	12	12000	2700	2030	4100	60				101	
				11052	FC16T9/D	12	12000	2250	1690	6500	75		☉		101	Daylight
		<b>COVRGUARD® SHATTER RESISTANT</b>														
<b>T8 PREHEAT</b>																
T8	Medium BiPin (G13)	15	18	46627	F15T8/KB/CVG/UPC	24	7500	910	825	3000	70	☉	11, 13	108	Kitchen & Bath	
<b>T12 RAPID START</b>																
T12	Medium BiPin (G13)	25	48	46625	F48"/25W/UTSL/CVG/UPC	30	12000	1800	1620	4100	60		11, 13	103		
		40	48	46623	F40/KB/CVG/UPC	24	20000	3290	2990	3000	82	☉	11, 13	108	Kitchen & Bath	
				48161	F40/CW/CVG/UPC	30	20000	2930	2370	4100	60		11, 13	103		
<b>T12 RAPID START WATT-MISER®</b>																
T12	Medium BiPin (G13)	34	48	41001	F34/CW/RS/WM/CVG/UPC	30	20000	2570	2210	4100	60	⚡	1, 11, 13	103		
<b>T12 PREHEAT</b>																
T12	Medium BiPin (G13)	20	24	46622	F20T12/KB/CVG/UPC	24	9000	1230	1160	3000	70	☉	11, 13	108	Kitchen & Bath	
				41000	F20T12/CW/CVG/UPC	24	9000	1160	1110	4100	60		11, 13	103		
<b>T12 INSTANT START</b>																
T12	Single Pin (Fa8)	60	96	41002	F96T12/CW/WM/CVG/UPC	15	12000	5330	4910	4100	60	☉ ⚡	1, 11, 13	103	Watt-Miser®	

☉ Means this lamp meets Federal Minimum Efficiency Standards.



Bulb	Base	Nominal Length		Order Code	Description	Case Qty.	Rated Life (hours)	Color			Foot-notes	Warning and Cautions	Additional Information
		Watts	in.					Initial Lumens	Mean K	CRI			
<b>CONSUMER PRODUCTS (CONTINUED)</b>													
<b>PLANT AND AQUARIUM / TERRARIUM</b>													
T8	Medium BiPin (G13)	14	15	41373	F14T8/AR/FR 6PK	24	7500	360	4000	92	☉	104	Aquarium Lamp Freshwater
				40903	F14T8/AR/FS/6PK	24	7500	550	9325	64		104	Aquarium Lamp Fresh and Saltwater
				41375	F14T8/AR/SA 6PK	24	7500	190	10000	62		104	Aquarium Lamp Saltwater
				41377	F14T8/SR 6PK	24	7500	565	5000	90	☉	104	Aquarium/Terrarium Lamp
		15	18	22907	F15T8/AR/FR 6PK	24	7500	425	4000	92	☉	104	Aquarium Lamp Freshwater
				22910	F15T8/AR/FS 6PK	24	7500	675	9325	64		104	Aquarium Lamp Fresh and Saltwater
				22920	F15T8/AR/SA 6PK	24	7500	210	10000	62		104	Aquarium Lamp Saltwater
				49892	F15T8/PL/AQ 6PK	24	7500	510	3100	90	☉	104	Plant & Aquarium Wide Spectrum
				22904	F15T8/SR 6PK	24	7500	620	5000	90	☉	104	Aquarium/Terrarium Lamp
T12	Medium BiPin (G13)	20	24	22908	F20T12/AR/FR 6PK	24	9000	600	4000	92	☉	104	Aquarium Lamp Freshwater
				22911	F20T12/AR/FS 6PK	24	9000	950	9325	64		104	Aquarium Lamp Fresh and Saltwater
				22922	F20T12/AR/SA 6PK	24	9000	270	10000	62		104	Aquarium Lamp Saltwater
				49891	F20T12/PL/AQ 6PK	24	9000	750	3100	90	☉	104	Plant & Aquarium Wide Spectrum
				22905	F20T12/SR 6PK	24	9000	875	5000	90	☉	104	Aquarium/Terrarium Lamp
T8	Medium BiPin (G13)	30	36	41374	F30T8/AR/FR 6PK	24	9000	630	4000	92	☉	104	Aquarium Lamp Freshwater
				40904	F30T8/AR/FS 6PK	24	9000	1400	9235	64		104	Aquarium Lamp Fresh and Saltwater
				41376	F30T8/AR/SA 6PK	24	9000	315	10000	62		104	Aquarium Lamp Saltwater
T12	Medium BiPin (G13)	30	36	41378	F30T12/SR 6PK	24	18000	1100	5000	90	☉	104	Plant & Aquarium Wide Spectrum
				22909	F40T12/AR/FR 6PK	24	9000	1425	4000	92	☉	104	Aquarium Lamp Freshwater
		40	48	22914	F40T12/AR/FS 6PK	24	9000	2350	9325	64		104	Aquarium Lamp Fresh and Saltwater
				22923	F40T12/AR/SA 6PK	24	9000	700	10000	62		104	Aquarium Lamp Saltwater
				49893	F40PL/AQ 6PK	24	20000	1900	3100	90	☉	104	Plant & Aquarium Wide Spectrum
				22906	F40T12/SR 6PK	24	20000	2250	5000	90	☉	104	Aquarium/Terrarium Lamp

## 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.

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

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

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

#### Temperature

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

#### Luminaire

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

#### Starting

The life of a fluorescent lamp is affected by the number of times the lamp is started. Starting results in shorter lamp life, while continuous operation will provide the longest lamp life. All fluorescent lamps, except where noted, have life ratings based on 3 hours per start.



## GENERAL INFORMATION

### LUMENS

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

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

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

### NOMINAL WATTS

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

### RATED LIFE

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

## FOOTNOTES

### # Footnote

- 1 Watt-Miser®, Watt-Miser® Plus and Energy Efficient (EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F40 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® and F28T8/UMX lamps are intended for use only with instant start ballasts. F28T8/UMX lamps achieve optimal performance on GE UltraMax™ IS ballasts.
- 2 Reprographic Peak Emission 417nm. 2000 hours useful life; burning hours longer.
- 3 F40T12/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.
- 5 Bare "Cold Temperature" (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).
- 6 Performance data based on engineering estimates.
- 7 **CAUTION:** Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.
- 8 **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.
- 9 Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
- 10 Lumen rating based on approximate 3% reduction in light output with CovGuard® sleeving.
- 11 Do not use CovGuard® H0 lamps in watertight or airtight fixtures.
- 12 Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
- 13 Life rating is based on 12 hrs. per start.
- 14 Lumen rating based on approximate 3% reduction in light output with jacket.
- 15 Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
- 16 Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).

### Performance Notes:

#### T8 Lamps:

- Rated life for F32T8, F32T8/XL or SXL, and F32T8/HL/XL lamps is rated life on **rapid start and instant start** circuits. See product section for lamp specific ratings.
- Rated life for F32T8/WM and F32T8/WM/XL (designed for use on instant start ballasts only) and the F28T8/UMX lamps (designed for use on GE UltraMax™ Ballasts) is rated life on **instant start** circuits.
- Rated life for F17T8 and F25T8 (including XL versions), as well as, the F40T8 is rated life on **rapid start** circuits. Rated life for these linear lamps on instant start electronic circuits is reduced by 25%.

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

### COLOR TEMPERATURE / CHROMATICITY

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

### SCOTOPIC/PHOTOPIC RATIO

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

### SCOTOPIC/PHOTOPIC (S/P) RATIO:

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

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



## WARNING AND CAUTION NOTICES

**101**

**▲ WARNING**

**Risk of electric shock**

- Turn power off before inspection, installation or removal

**▲ CAUTION**

**Lamp may shatter and cause injury if broken**

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

**102**

**▲ WARNING**

**Risk of electric shock**

- Turn power off before inspection, installation or removal

**▲ CAUTION**

**Improper handling may cause breakage**

- Do not carry lamp by bracket

**Lamp may shatter and cause injury if broken**

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

**103**

**▲ WARNING**

**Risk of electric shock**

- Turn power off before inspection, installation or removal

**104**

**▲ WARNING**

**Risk of electric shock**

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

**▲ CAUTION**

**Lamp may shatter and cause injury if broken**

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

**105**

**▲ WARNING**

**Risk of electric shock**

- Turn power off before inspection, installation or removal

**▲ CAUTION**

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

- Minimize exposure

**Lamp may shatter and cause injury if broken**

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

**106**

**▲ WARNING**

**Risk of electric shock**

- Turn power off before inspection, installation or removal

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

- Avoid exposure of eyes and skin to unshielded lamp

**▲ CAUTION**

**Lamp may shatter and cause injury if broken**

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

**107**

**▲ WARNING**

**Risk of electric shock**

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

**▲ CAUTION**

**Lamp may shatter and cause injury if broken**

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

**Unit will fail if not installed properly**

- Follow installation instructions

**108**

**▲ WARNING**

**Risk of electric shock**

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



## GE ULTRAMAX™ BALLASTS

### GE REVOLUTIONIZES LIGHTING AGAIN WITH NEW, BREAKTHROUGH TECHNOLOGY

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

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

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

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

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

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

### HIGH EFFICIENCY DELIVERS OVER 40% ENERGY SAVINGS

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

### ULTRAMAX™ IS ULTRA LAMP FRIENDLY

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

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

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

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

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

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

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

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

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

### ULTRAMAX™ IS ULTRA-COOL

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

### A BIG IDEA IN A SMALL PACKAGE

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

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

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

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

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



## GE ULTRAMAX™ BALLASTS (CONTINUED)

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



# L

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



# N

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



# H

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

*UltraMax™ electronic ballasts are 5% more efficient than standard electronic ballasts. When combined with GE T8 Ultra Watt-Miser® lamps, it can mean over 40% in energy savings.*

### SEE FOR YOURSELF HOW DIFFERENT ULTRAMAX™ BALLASTS PERFORM

#### ULTRAMAX™ SYSTEM COMPARISON

	L	N	H
Ballast Factor	.77	.87	1.15
System Lumens* (2850 Lumens/Lamp)	4389	4959	6555
Input Watts*	48	53	73
Lumens per Watt	91	94	90

\* For a 2-Lamp F32T8 System at 277V

#### Safety Information

- No PCBs
- UL Listed
  - Class P, Type 1
  - Type CC (Anti-Arcing Protection)
  - Type HL (Hazardous Location)

#### Application Information

- Minimum Starting Temperature: 0°F, -18°C
- Maximum Ambient Temperature: 105°F, 40°C
- Sound Rated A
- Remote Mounting: 18' maximum lead length, 18 AWG
- High Frequency Lamp Operation: Above 60 kHz

#### Physical Parameters

(Except for the 4H model)	4H (Standard can)
Length:	9.50 in. / 9.50 in.
Width:	1.70 in. / 2.30 in.
Height:	1.2 in. / 1.60 in.
Weight:	1.4 lbs. / 2.16 lbs.

#### APPLICATIONS:

Offices	Retail	Schools
Universities	Plants	Hotels
Warehouses	Hospitals	



## GE ULTRAMAX™ BALLASTS (CONTINUED)

### ORDERING GUIDE AND SYSTEM WATTAGE

There's a combination of GE UltraMax™ ballasts and T8 lamps that can make virtually any lighting system perform better. The chart below lets you see for yourself.

Ballast Factor (BF)	No. Lamps	Order Code	Description	Input Voltage	F32T8 Input Watts			F32T8/WM Input Watts			F28T8/UMX	Case Qty.	
					Input Watts†	Open Fixture <sup>Δ</sup>	Enclosed Fixture <sup>Δ</sup>	Input Watts†	Open Fixture <sup>Δ</sup>	Enclosed Fixture <sup>Δ</sup>	Input Watts†		
<b>INSTANT START LAMPS</b>													
Low	1	49706	GE-132-MAX-L/Ultra	Multi-Volt	120	25	24	24	24	23	23	22	10
					277	25	24	24	24	23	23	22	
	2	49707	GE-232-MAX-L/Ultra	Multi-Volt	120	48	48	47	46	46	45	44	10
					277	48	48	47	46	46	45	44	
3	49708	GE-332-MAX-L/Ultra	Multi-Volt	120	73	72	71	69	68	67	65	10	
				277	72	71	70	68	67	66	65		
4	49709	GE-432-MAX-L/Ultra	Multi-Volt	120	97	95	93	92	90	88	87	10	
				277	96	93	92	91	89	87	86		
Normal	1	49771	GE-132-MAX-N/Ultra	Multi-Volt	120	28	28	27	27	26	26	25	10
					277	28	28	27	27	26	26	25	
	2	49772	GE-232-MAX-N/Ultra	Multi-Volt	120	54	54	53	53	52	51	49	10
					277	53	53	52	52	51	50	48	
3	49773	GE-332-MAX-N/Ultra	Multi-Volt	120	82	80	78	78	77	74	72	10	
				277	80	78	77	77	75	73	71		
4	49774	GE-432-MAX-N/Ultra	Multi-Volt	120	109	105	103	105	101	98	98	10	
				277	107	103	101	103	99	97	96		
High	2	49775	GE-232-MAX-H/Ultra	Multi-Volt	120	74	71	69	71	69	67	66	10
					277	73	70	68	70	68	66	65	
	3	49776	GE-332-MAX-H/Ultra	Multi-Volt	120	111	105	102	106	102	97	97	10
					277	109	103	100	104	100	96	96	
4	49777	GE-432-MAX-H/Ultra*	Multi-Volt	120	148	TBD	TBD	144	TBD	TBD	135	10	
				277	145	TBD	TBD	141	TBD	TBD	132		

Ballast Factor (BF)	No. Lamps	Order Code	Description	Input Voltage	F96T8 Input Watts			F96T8/WM Input Watts			Case Qty.	
					Input Watts†	Open Fixture <sup>Δ</sup>	Enclosed Fixture <sup>Δ</sup>	Input Watts†	Open Fixture <sup>Δ</sup>	Enclosed Fixture <sup>Δ</sup>		
<b>INSTANT START LAMPS</b>												
Normal	1	49766	GE-159-MAX-N/Ultra	Multi-Volt	120	54	TBD	TBD	51	TBD	TBD	10
					277	53	TBD	TBD	51	TBD	TBD	
2	49767	GE-259-MAX-N/Ultra	Multi-Volt	120	107	TBD	TBD	102	TBD	TBD	10	
				277	105	TBD	TBD	100	TBD	TBD		

† Denotes standard laboratory non-fixture open bench testing.

Δ In fixture watts represent typical field operating conditions with ballast and lamps in fixture/luminaire.

Open fixture denotes non-lensed fixture/luminaire. Enclosed fixture denotes lensed fixture/luminaire.

\* 4H ballast has the following ballast factors: on F32T8: 1.17; F32T8/WM: 1.18; F28T8: 1.20.



## FLUORESCENT LAMP CROSS REFERENCE

GE Description	Osram Sylvania Description	Philips Description
<b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b>		
<b>APPLIANCE</b>		
F24T8/CW/4	F18T8/CW/K/24	F18T8/CW/24
F26T8/CW/4 (19W)	F18T8/CW/K/26	F16T8/CW/26 (16W)
F28T8/CW/4 (19W)	F18T8/CW/K/28	F17T8/CW/28 (17W)
F30T8/CW/4	F18T8/CW/K/30	F18T8/CW/30 (18W)
F25T12/CW/33	F25T12/CW/33	—
<b>ECOLUX® T8 SP</b>	<b>OCTRON®</b>	<b>TL70</b>
F17T8/SP30/ECO	F017/730/ECO	F17T8/TL730(NOT ALTO)
F17T8/SP35/ECO	F017/735/ECO	F17T8/TL735(NOT ALTO)
F17T8/SP41/ECO	F017/741/ECO	F17T8/TL741(NOT ALTO)
F25T8/SP30/ECO	F025/730/ECO	F25T8/TL730(NOT ALTO)
F25T8/SP35/ECO	F025/735/ECO	F25T8/TL735(NOT ALTO)
F25T8/SP41/ECO	F025/741/ECO	F25T8/TL741(NOT ALTO)
F32T8/SP30/ECO	F032/730/ECO	F32T8/TL730/ALTO
F32T8/SP35/ECO	F032/735/ECO	F32T8/TL735/ALTO
F32T8/SP41/ECO	F032/741/ECO	F32T8/TL741/ALTO
F32T8/SP50/ECO	F032/750/ECO	F32T8/TL750/ALTO
F32T8/SP65/ECO	F032/765/ECO	—
<b>ECOLUX® T8 SPX</b>	<b>OCTRON®</b>	<b>TL80</b>
F17T8/SPX30/ECO	F017/830/ECO	F17T8/TL830(NOT ALTO)
F17T8/SPX35/ECO	F017/835/ECO	F17T8/TL835(NOT ALTO)
F17T8/SPX41/ECO	F017/841/ECO	F17T8/TL841(NOT ALTO)
F25T8/SPX30/ECO	F025/830/ECO	F25T8/TL830(NOT ALTO)
F25T8/SPX35/ECO	F025/835/ECO	F25T8/TL835(NOT ALTO)
F25T8/SPX41/ECO	F025/841/ECO	F25T8/TL841(NOT ALTO)
F32T8/SPX30/ECO	F032/830/ECO	F32T8/TL830/ALTO
F32T8/SPX35/ECO	F032/835/ECO	F32T8/TL835/ALTO
F32T8/SPX41/ECO	F032/841/ECO	F32T8/TL841/ALTO
F32T8/SPX50/ECO	F032/850/ECO	F32T8/TL850/ALTO
F40T8/SPX41/ECO	F040/841/ECO	F40T8/TL/841/ALTO
<b>ECO EXTRA-LIFE T8 SP</b>		
F17T8/XL/SP30/ECO	F017/730/XP/ECO	—
F17T8/XL/SP35/ECO	F017/735/XP/ECO	—
F17T8/XL/SP41/ECO	F017/741/XP/ECO	—
F25T8/XL/SP30/ECO	F025/730/XP/ECO	—
F25T8/XL/SP35/ECO	F025/735/XP/ECO	—
F25T8/XL/SP41/ECO	F025/741/XP/ECO	—
F32T8/XL/SP30/ECO	F032/730/XP/ECO	F32T8/TL730 PLUS/ALTO
F32T8/XL/SP35/ECO	F032/735/XP/ECO	F32T8/TL735 PLUS/ALTO
F32T8/XL/SP41/ECO	F032/741/XP/ECO	F32T8/TL741 PLUS/ALTO

GE Description	Osram Sylvania Description	Philips Description
<b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b>		
<b>ECO EXTRA-LIFE T8 SPX</b>	<b>XP/ECO</b>	<b>PLUS/ALTO</b>
F17T8/XL/SPX30/ECO	F017/830/XP/ECO	—
F17T8/XL/SPX35/ECO	F017/835/XP/ECO	—
F17T8/XL/SPX41/ECO	F017/841/XP/ECO	—
F17T8/XL/SPX65/ECO	F017/865/XP/ECO	F17T8/TL865 PLUS (NOT ALTO)
F25T8/XL/SPX30/ECO	F025/830/XP/ECO	—
F25T8/XL/SPX35/ECO	F025/835/XP/ECO	—
F25T8/XL/SPX41/ECO	F025/841/XP/ECO	—
F25T8/XL/SPX65/ECO	F025/865/XP/ECO	F25T8/TL865 PLUS (NOT ALTO)
F32T8/XL/SPX30/ECO	F032/830/XP/ECO	F32T8/TL830 PLUS/ALTO
F32T8/XL/SPX35/ECO	F032/841/XP/ECO	F32T8/TL835 PLUS/ALTO
F32T8/XL/SPX41/ECO	F032/835/XP/ECO	F32T8/TL841 PLUS/ALTO
F32T8/XL/SPX50/ECO	F032/850/XP/ECO	F32T8/TL850 PLUS/ALTO
F32T8/XL/SPX65/ECO	F032/865/XP/ECO	F32T8/TL865 PLUS/ALTO
<b>4' T8 HIGH LUMEN (HL)</b>		
F32T8/XL/SPX30/HL/ECO	F032/830/XPS/ALTO	F32T8/ADV830/ALTO
F32T8/XL/SPX35/HL/ECO	F032/835/XPS/ALTO	F32T8/ADV835/ALTO
F32T8/XL/SPX41/HL/ECO	F032/841/XPS/ALTO	F32T8/ADV841/ALTO
<b>4' T8 WATT-MISER®</b>		
F32T8/SP30/IS/WM/ECO	F032/730/SS/ECO	F32T8/ADV830/EW/ALTO
F32T8/SP35/IS/WM/ECO	F032/735/SS/ECO	F32T8/ADV835/EW/ALTO
F32T8/SP41/IS/WM/ECO	F032/741/SS/ECO	F32T8/ADV841/EW/ALTO
<b>4' T8 WATT-MISER® EXTRA-LIFE</b>		
F32T8/XL/SP30/WM/ECO	—	—
F32T8/XL/SP35/WM/ECO	—	—
F32T8/XL/SP41/WM/ECO	—	—
<b>4' T8 ULTRAMAX™ 28W</b>		
F28T8/SP30/UMX/ECO	F028/830/XP/SS/ECO	—
F28T8/SP30/UMX/ECO	F028/835/XP/SS/ECO	—
F28T8/SP30/UMX/ECO	F028/841/XP/SS/ECO	—
<b>4' T8 VERY LONG LIFE (SXL)</b>		
F32T8/SXL/SP30/ECO	F032/830/XPS/ECO	F32T8/TL830 PLUS/ALTO
F32T8/SXL/SP35/ECO	F032/835/XPS/ECO	F32T8/TL830 PLUS/ALTO
F32T8/SXL/SP41/ECO	F032/841/XPS/ECO	F32T8/TL830 PLUS/ALTO
<b>4' T12 WATT-MISER® F40</b>		
F34/CW/RS/WM/ECO	F34CW/SS/ECO	F34CW/RS/EW/ALTO
F34WW/RS/WM/ECO	F34WW/SS/ECO	F34WW/RS/EW/ALTO
F34/SP30/RS/WM/ECO	F34/D30/SS/ECO	F34/SPEC30/RS/EW/ALTO
F34/SP35/RS/WM/ECO	F34/D35/SS/ECO	F34/SPEC35/RS/EW/ALTO
F34/SP41/RS/WM/ECO	F34/D41/SS/ECO	F34/SPEC41/RS/EW/ALTO
F34/SP50/RS/WM/ECO	—	—
F34/SP65/RS/WM/ECO	—	—



## FLUORESCENT LAMP CROSS REFERENCE (CONTINUED)

GE Description	Osram Sylvania Description	Philips Description
<b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b>		
<b>4' T12 WATT-MISER® F40 SPX</b>		
F34/SPX30/RS/WM/ECO	F34/D830/SS/ECO	F34/30U/RS/EW/ALTO
F34/SPX35/RS/WM/ECO	F34/D835/SS/ECO	F34/35U/RS/EW/ALTO
F34/SPX41/RS/WM/ECO	F34/D841/SS/ECO	F34/41U/RS/EW/ALTO
<b>8' T12 WATT-MISER® (WM)</b>		
F96T12/SP30/WM/ECO	F96T12/D30/SS/ECO	F96T12/SPEC30/EW/ALTO
F96T12/SP35/WM/ECO	F96T12/D35/SS/ECO	F96T12/SPEC35/EW/ALTO
F96T12/SP41/WM/ECO	F96T12/D41/SS/ECO	F96T12/SPEC41/EW/ALTO
F96T12/SP65/WM/ECO	F96T12/D65/SS (not ECO)	—
F96T12/SPX30/WM/ECO	F96T12/D830/SS/ECO	F96T12/30U/EW/ALTO
F96T12/SPX35/WM/ECO	F96T12/D835/SS/ECO	F96T12/35U/EW/ALTO
F96T12/SPX41/WM/ECO	F96T12/D841/SS/ECO	F96T12/41U/EW/ALTO
F96T12/SP30/ECO	F96T12/D30/ECO	F96T12/SPEC30/ALTO
F96T12/SP35/ECO	F96T12/D35/ECO	F96T12/SPEC35/ALTO
F96T12/SP41/ECO	F96T12/D41/ECO	F96T12/SPEC41/ALTO
F96T12/SPX30/ECO	F96T12/D830/ECO	F96T12/SPEC30U/ALTO
F96T12/SPX35/ECO	F96T12/D835/ECO	F96T12/SPEC35U/ALTO
F96T12/SPX41/ECO	F96T12/D841/ECO	F96T12/SPEC41U/ALTO
<b>8' T12 HIGH OUTPUT (WM)</b>		
F96T12/CW/HO/WM/ECO	F96T12/CW/HO/SS/ECO	F96T12/CW/HO/EW/ALTO
<b>T5 AND T5/HO</b>		
F14W/T5/830	FP14/T5/830	F14T5/830
F14W/T5/835	FP14/T5/835	F14T5/835
F14W/T5/841	FP14/T5/841	F14T5/841
F14W/T5/865	—	—
F21W/T5/830	FP21/T5/830	F21T5/830
F21W/T5/835	FP21/T5/835	F21T5/835
F21W/T5/841	FP21/T5/841	F21T5/841
F21W/T5/865	—	—
F28W/T5/830	FP28/T5/830	F28T5/830
F28W/T5/835	FP28/T5/835	F28T5/835
F28W/T5/841	FP28/T5/841	F28T5/841
F28W/T5/865	—	—
F35W/T5/830	FP35/T5/830	F35T5/830
F35W/T5/835	FP35/T5/835	F35T5/835
F35W/T5/841	FP35/T5/841	F35T5/841
F35W/T5/865	—	—
F24W/T5/830/HO	FP24T5/830/HO	F24T5/830/HO
F24W/T5/835/HO	FP24/T5/835/HO	F24T5/835/HO
F24W/T5/841/HO	FP24/T5/841/HO	F24T5/841/HO
F24W/T5/865/HO	—	—
F39W/T5/830/HO	FP39/T5/830/HO	F39T5/830/HO
F39W/T5/835/HO	FP39/T5/835/HO	F39T5/835/HO
F39W/T5/841/HO	FP39/T5/841/HO	F39T5/841/HO

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