

# Fluorescent Lamps

## Product Information (continued)

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

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

### GE 4' T12 Watt-Miser® Ecolux® Energy Saving Lamps (WM) (pg 4-13 to 4-15)

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

### GE T12 High Output Lamps (pg 4-16 to 4-18)

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

### GE T12 Very High Output Lamps (pg 4-18)

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

### covRguard® Shatter Resistant Fluorescent Lamps (pg 4-19 to 4-20)

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

### GE Cold-Temperature Lamps (pg 4-23 to 4-24)

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

### GE Appliance Lamps (pg 4-24)

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

### GE Blacklight/Blacklight Blue Lamps (pgs 4-24 to 4-25)

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

### GE Gold Lamps (pg 4-25 to 4-26)

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

### GE Germicidal Lamps (pg 4-26)

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

## Headings in this catalog section

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

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

### Order Code:

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

### Nominal Length (in):

Lamp length including base and/or pins.

### Watts:

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

### Bulb Shape:

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

### Base:

The type of base.

### Case Quantity:

Number of product units packed in a case.

### Description:

The lamp's identification code.

### Rated Life - Hours:

Lamp burning hours to median life expectancy.

### Mean Lumens:

Lamp light output at 40% of rated lamp life.

### Initial Lumens:

Lamp light output after the initial 100 hours of operation.

### 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.

### High Color Rendering:

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

### Meets Federal Minimum Efficiency Standards:

Means this lamp meets Federal Minimum Efficiency Standards.

### Reduced Wattage:

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

### Warning and Caution Notices:

See page 4-33 for more information.

### Footnotes:


Related footnotes, see page 4-32

### Additional Information:

Typical application and/or other important information.

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty.	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp. K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
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### T5 Starcoat Ecolux® Lamps

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

# F 14W/T5/830 / ECO

Identifies as Fluorescent lamp.

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

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





















Identifies the lamp finish or color.

Identifies TCLP compliance.

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

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



Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Special Application Lamps (continued)																		
T12 Mod-U-Line® 6" Spacing																		
T12	Medium Bi-Pin (G13)	40	22.5	23661	F40/SP30/U6/CVG	12	14000	2959	2697	3000	70				Ⓔ	11,13	103	
		40	22.5	23662	F40/SP35/U6/CVG	12	14000	2959	2697	3500	73				Ⓔ	11,13	103	
		35	22.5	23664	F35CWECOU6CVUPC	12	14000	2522	2169	4100	60				Ⓔ	11,13	103	
T12 Preheat																		
T12	Medium Bi-Pin (G13)	15	18.0	41114	F15T12/CW/CVG	24	9000	735	660	4100	60					11,13	103	Preheat
		20	24.0	46377	F20T12/C50/CVG	24	9000	845	765	5000	90					11,13	103	Preheat, Chroma 50
		20	24.0	40125	F20T12/CW/CVG	24	9000	1160	1110	4100	60					11,13	103	Preheat
		20	24.0	41000	F20T12CW/CVG/UPC	24	9000	1160	1110	4100	60					11,13	103	Preheat, UPC
		20	24.0	46622	F20T12/KBCVGUPC	24	9000	1230	1160	3000	70					11,13	103	Preheat, Kitchen Bath, UPC
		20	24.0	46218	F20T12/SP35/CVG	24	9000	1230	1160	3500	73					11,13	103	Preheat
		20	24.0	41116	F20T12SPX35/CVG	24	9000	1260	1180	3500	82					11,13	103	Preheat
		25	33.0	41120	F25T12/WW/33/CVG	24	7500	1850	1160	3000	52					11,13	103	Preheat, Warm White
T12 High Output Lamps Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	35	24.0	48090	F24T12/CW/HO/CVG	24	9000	1570	1300	4100	60					11,12,13	103	
		60	48.0	40129	F48T12/CW/HO/CVG	24	12000	3930	3410	4100	60					11,12,13	103	
		60	48.0	41146	F48T12SPX35HOCVG	24	12000	4220	3800	3500	82					11,12,13	103	
		60	48.0	41969	F48T12/D/HO/CVG	24	12000	3290	2870	6500	75					11,12,13	103	Daylight
		75	60.0	41148	F60T12/CW/HO/CVG	15	12000	4990	4340	4100	60					11,12,13	103	
		85	72.0	40811	F72T12CW/HO/CVG	15	12000	6150	5350	4100	60					11,12,13	103	
		85	72.0	46207	F72T12SP35HO/CVG	15	12000	6450	5810	3500	73					11,12,13	103	
		85	72.0	41152	F72T12SPX30HOCVG	15	12000	6590	5930	3000	82					11,12,13	103	
		85	72.0	41154	F72T12SPX35HOCVG	15	12000	6590	5930	3500	82					11,12,13	103	
		85	72.0	48094	F72T12/N/HO/CVG	10	12000	4170	3500	3700	90					11,12,13	103	Natural
		100	84.0	41156	F84T12/CW/HO/CVG	15	12000	7460	6490	4100	60					11,12,13	103	
		110	96.0	40808	F96T12CW/HO/CVG	15	12000	8630	7500	4100	60					11,12,13	103	
		110	96.0	46210	F96T12SP35HO/CVG	15	12000	8920	8030	3500	73				Ⓔ	11,12,13	103	
		110	96.0	45264	F96T12SP65HO/CVG	15	12000	8630	7760	6500	75				Ⓔ	11,12,13	103	
		110	96.0	41160	F96T12SPX30HOCVG	15	12000	9070	8160	3000	82				Ⓔ	11,12,13	103	
		110	96.0	41161	F96T12SPX35HOCVG	15	12000	9070	8160	3500	82				Ⓔ	11,12,13	103	
		110	96.0	41162	F96T12SPX41HOCVG	15	12000	9070	8160	4100	80				Ⓔ	11,12,13	103	
		110	96.0	46424	F96T12/D/HO/CVG	15	12000	7370	6410	6500	75				Ⓔ	11,12,13	103	Daylight
		110	96.0	46430	F96T12/DX/HO/CVG	15	12000	6400	5440	6500	84				Ⓔ	11,12,13	103	Daylight Deluxe
T12 High Output Lamps Recessed Double Contact – Watt-Miser® Energy Saving Lamps																		
T12	Recessed Double Contact (R17d)	95	96.0	40116	F96T12CW/HOWM/CVG	15	12000	7760	6750	4100	60		\$	✶	Ⓔ	1,11,12,13	103	
		95	96.0	40118	F96T12SP35HOWM/CVG	15	12000	8090	7290	3500	73		\$	✶	Ⓔ	1,11,12,13	103	
		95	96.0	40123	F96T12SP41HOWM/CVG	15	12000	8090	7290	4100	72		\$	✶	Ⓔ	1,11,12,13	103	
		95	96.0	16821	F96T12CWHOWMECCVG	15	12000	7760	6285	4100	60		\$	✶	Ⓔ	1,11,12,13	103	
Germicidal covRguard®																		
T8																		
T8	Medium Bi-Pin (G13)	15	18.0	72761	G15T8/CVG	24	7500									9	106	
		25	18.0	72762	G25T8/CVG	24	7500									9	106	
		30	36.0	72763	G30T8/CVG	24	7500									9	106	
		55	36.0	72764	G55T8/HO/CVG	24	8000									9	106	
Cold Temperature Lamps																		
T5																		
T5	Miniature Bi-Pin (G5)	54	45.2	81521	F54T5/835/CT	36	30000	4500	4275	3500	86					11,13,17	101	Plastic Jacket
		54	45.2	81522	F54T5/841/CT	36	30000	4500	4275	4100	86					11,13,17	101	Plastic Jacket