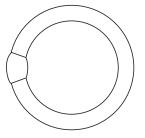
### Lamp Locator (not drawn to scale)



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



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



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



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



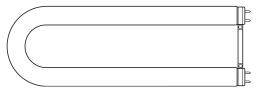
T8 (1" diameter) Medium Bi-Pin Base (G13)



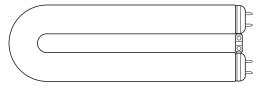
T8 (1" diameter) Recessed Double Contact Base (R17d)



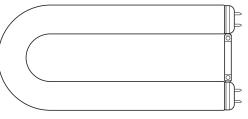
T10 (11/4" diameter) Recessed Double Contact Base (R17d)



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



 $\rm Mod\text{-}U\text{-}Line^{\otimes}$  T12/U3 (11/2" diameter) Medium Bi-Pin Base (G13)



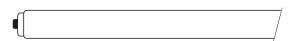
Mod-U-Line® T12/U6 (1-1/2" diameter) Medium Bi-Pin Base (G13)



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



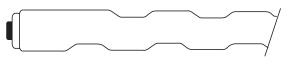
T12 (1-1/2" diameter) Medium Bi-Pin Base (G13)



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

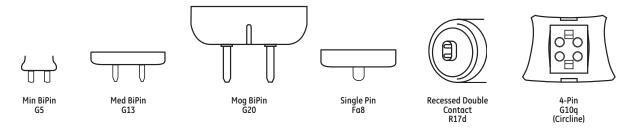


T17 (2-1/8" diameter) Mogul Bi-Pin (G20)



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

### **Base Identification**



#### Introduction

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

#### • Low Operating Cost:

Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy-saving versions often designated in this catalog by Watt-Miser® (WM).

#### Long Life:

Life ratings for fluorescent lamps range from 36,000 to 55,000 hours based on the industry standard of 3 burning hours per start, except where noted.

#### • Light Quality:

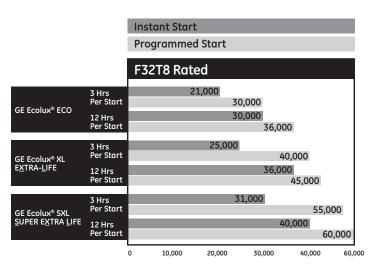
GĒ Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 92%-95%.

#### • Flexibility:

Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.

#### Fast Starting:

Rapid Start and Instant Start lamps typically start within 1 second of being turned on.



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

GE	OSRAM/SYLVANIA	PHILIPS
Aquarium/Terrarium	_	_
Chroma 50	Design 50®	Colortone 50
covRguard®	_	Tuff Away®
Ecolux®	Ecologic	Alto
Gro & Sho™/Plant & Aquarium	GRO-LUX®	Agro-Lite
Kitchen and Bath ULTRA™	Interior Design® (D30)	Softone Pastel FL (SPEC 30)
Mod-U-Line®	Curvalume®	U-Bent
Power Groove®	_	_
Specification Series (SP)	Designer® Series (D)	SPEC Series
Specification Series (SPX)	Designer® "800" Series	Ultralume™
Starcoat®	_	_
T5	Pentron®	Silhouette™
Т8	Octron®	TL70/TL80™
T10/1500MA	VHO/LT	_
/1500	VHO	VHO
Watt-Miser®	SuperSaver®	Econ-o-Watt
Watt-Miser® Plus	SuperSaver Plus®	_
XL	XP	Plus

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

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

# **Product Information**

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

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

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

- High Output Watt-Miser®: Over 5% energy savings versus standard Starcoat® T5 HO lamps. Same lumen output. Great for use in high-bay systems.
- High Efficiency Watt-Misers®: Over 5% energy savings versus standard Starcoat® T5 HE lamps. Same lumen output. Available in four different lengths.
- High Lumen T5: 5% greater lumen output versus standard Starcoat® F28WT5 lamps. Same wattage. Great for new commercial troffers.
- Excellent color rendering 85 CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

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

- GE's highest efficiency and lowest wattage T5 HO combination at 102 LPW
- Relamp existing full wattage 54W lamp with the 47W T5 lamp and saves energy
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

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

- More light over life 94-95% lumen maintenance
- Enhanced color rendering...available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

### GE Starcoat® Ecolux® XL Extra-Life and SXL Super Long Life lamps (pgs 4-9 to 4-10)

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

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

- Energy-saving alternative to standard 2ft and 3ft T8 lamps. Up to 12% energy savings versus standard F17T8 and/or F25T8 lamps, with approximately 10% light loss.
- Excellent color rendering 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

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

- Lowest wattage 4ft T8 currently available.
- Longer rated life at 50,000 hours depending on ballast type and burn cycle
- Operates on any ANSI compliant T8 Instant Start or Programmed Start ballast; also approved on GE UltraStart® PRS ballast
- Excellent color rendering 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)
- Approximately 10% less light

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

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any ANSI compliant T8 Instant Start or Programmed Start ballast
- Also approved for use on GE UltraStart® PRS ballast
- 80+ CRI (Color Rendering Index) and TCLP compliant
- Approximately 4% less light

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

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 33% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP compliant

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

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

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

- One of the most efficient fluorescent products available, up to 107 LPW
- Energy savings...8.5% to 17% less energy consumed than standard F96T8 lamps
- Watt-Miser® Plus has same light output as standard lamps;
   49W is approximately 14% less light
- Excellent color rendering 80+ CRI
- Watt-Miser® Plus lamp reduces wattage to 54W per lamp

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

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

#### **Product Information (continued)**

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

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

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

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

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

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

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

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

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

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

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

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

#### GE Cold-Temperature Lamps (pg 4-19)

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

#### **GE Appliance Lamps (pg 4-20)**

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

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

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

#### GE Gold Lamps (pg 4-21)

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

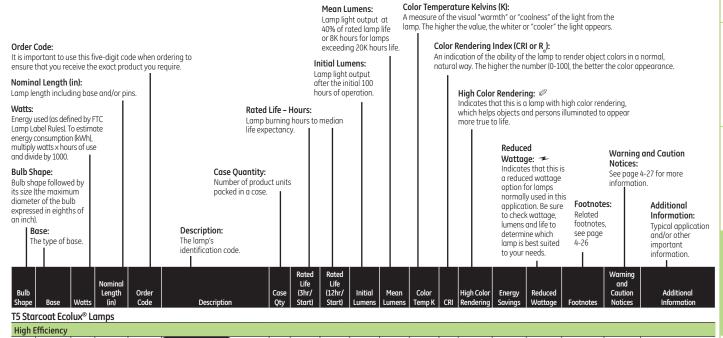
#### **GE Germicidal Lamps (pg 4-21)**

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

### **Headings in this catalog section**

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

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

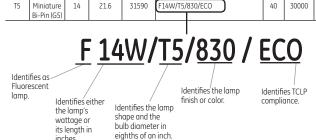


36000

1350

1240

3000



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

- 1. Identify bulb shape by using table on page 4-3.
- 2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.

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

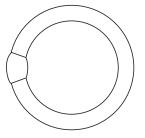






			Nominal				Rated Life	Rated Life									Warning and	
Bulb hape	Base	Watts	Length (in)	Order Code	Description	Case Otv	(3 hr/ start)	(12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Caution Notices	Additional Information
	al Applica			tinued)	·	' '												
	olux® w/ S																	
	Γ8 Ecolux®																	
T8	Medium	17	24.0	15974	F17T8SP35ECOCVG	24	30000	36000	1280	1220	3500	78				11,13,18	103	Blocks UV
	Bi-Pin	17	24.0	15977	F17T8SP41ECOCVG	24	30000	36000	1280	1220	4100	78				11,13,18	103	Blocks UV
	(G13)	17	24.0	15975	F17T8SPX35ECOCVG	24	30000	36000	1310	1242	3500	85	0			11,13,18	103	Blocks UV
		17	24.0	15976	F17T8SPX41ECOCVG	24	30000	36000	1310	1242	4100	85	0			11,13,18	103	Blocks UV
		17	24.0	28885	F17T8XLSPX50ECOCVG	24	40000	45000	1310	1243	5000	82	0			11,13,18	103	Blocks UV
3'	Ecolux® w	/Starco	at®															
T8	Medium	25	36.0	15978	F25T8SP30ECOCVG	24	30000	36000	2020	1920	3000	78				11,13,18	103	Blocks UV
	Bi-Pin (G13)	25	36.0	15981	F25T8SP35ECOCVG	24	30000	36000	2020	1920	3500	78				11,13,18	103	Blocks UV
		25	36.0	15984	F25T8SP41ECOCVG	24	30000	36000	2020	1920	4100	78	-			11,13,18	103	Blocks UV
		25	36.0	15989	F25T8SPX30ECOCVG	24	30000	36000	2080	1970	3000	85	0			11,13,18	103	Blocks UV
		25 25	36.0 36.0	15990 15991	F25T8SPX35ECOCVG	24	30000 30000	36000 36000	2080	1970 1970	3500 4100	85 85	0			11,13,18	103 103	Blocks UV
		25	36.0	28887	F25T8SPX41ECOCVG F25T8XLSPX50ECOCVG	24	40000	45000	1990	1890	5000	82	0			11,13,18	103	Blocks UV Blocks UV
4'	I Г8 (48") Ес				1 ESTONEST NSOECOCVO	24	40000	43000	1330	1030	3000	02				11,15,10	103	DIOCKS OV
T8	Medium	32	48.0	94838	F32T8SPP30ECO/CVG	36	30000	36000	2800	2640	3000	80				11,13,18	103	Blocks UV
10	Bi-Pin	32	48.0	94839	F32T8SPP35ECO/CVG	36	30000	36000	2800	2640	3500	80				11,13,18	103	Blocks UV
	(G13)	32	48.0	94861	F32T8SPP41ECO/CVG	36	30000	36000	2800	2640	4100	80				11,13,18	103	Blocks UV
		32	48.0	94842	F32T8SPP50ECO/CV	36	30000	36000	2800	2640	5000	80				11,13,18	103	Blocks UV
		32	48.0	94843	F32T8SPX65ECO/CV	36	30000	36000	2800	2670	6500	78				11,13,18	103	Blocks UV
		32	48.0	41125	F32T8SPX30ECOCVG	36	30000	36000	2860	2715	3000	85	0			11,13,18	103	Blocks UV
		32	48.0	41126	F32T8SPX35ECOCVG	36	30000	36000	2860	2715	3500	85	0			11,13,18	103	Blocks UV
		32	48.0	41127	F32T8SPX41ECOCVG	36	30000	36000	2860	2715	4100	85	0			11,13,18	103	Blocks UV
		32	48.0	15971	F32T8SPX50ECOCVG	36	30000	36000	2715	2580	5000	82	0			11,13,18	103	Blocks UV
4'	T8 Ecolux®	XL Ext	ra-life w/	Starcoat	8													
T8	Medium Bi-Pin (G13)	32	48.0	15972	F32T8XLSPX30ECOCVG	36	40000	45000	2860	2715	3000	85	0			11,13,18	103	Blocks UV
		32	48.0	15973	F32T8XLSPX35ECOCVG	36	40000	45000	2860	2715	3500	85	0			11,13,18	103	Blocks UV
		32	48.0	18369	F32T8XLSPX41ECCVG	36	40000	45000	2860	2715	4100	85	0			11,13,18	103	Blocks UV
		32	48.0	23746	F32T8XLSPX50ECOCVG	36	40000	45000	2715	2580	5000	82				11,13,18	103	Blocks UV
	Energy Sa			// covRgi	rara <sub>®</sub>													
	Γ8 Ecolux®				T	1							_		*	T		
T8	Medium Bi-Pin	25	48.0	72814	F32T8/25WSPX41ECOCVG	36	40000	46000	2425	2350	4100	82	0	\$	1	1,11,13,18	103	Blocks UV
	(G13)	25	48.0	72815	F32T8/25WSPX50ECOCVG	36	40000	46000	2425	2350	5000	80	0	\$		1,11,13,18	103	Blocks UV
4'	Γ8 Ecolux®	Ultra	1ax® 28 W	att Lam	p													
T8	Medium Bi-Pin	28	48.0	73292	F28T8/XLSPX30ECO/CVG	36	40000	46000	2595	2440	3000	85	0	\$	1	1,11,13,18	103	Blocks UV, CEE Approved
	(G13)	28	48.0	73293	F28T8/XLSPX35ECO/CVG	36	40000	46000	2595	2440	3500	85	0	\$	7		103	Blocks UV, CEE Approved
		28	48.0	73294	F28T8/XLSPX41ECO/CVG	36	40000	46000	2595	2440	4100	82	0	\$	7		103	Blocks UV, CEE Approved
													0		7			CEE Approved
4'	Γ8 Ecolux®	28	48.0	73295	F28T8/XLSPX50ECO/CVG	36 36	40000 40000	46000 46000	2595 2595	2440	4100 5000	82 80		\$			103	
	1	28 High L	48.0 umen XL	73295 Extra-Lif	F28T8/XLSPX50ECO/CVG e w/Starcoat®	36	40000	46000	2595	2440	5000	80		\$		11.13.18	103	CEE Approved Blocks UV
<b>4'</b>	Medium Bi-Pin	28 High L	48.0	73295	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG	36		46000	2595 3007	2440	5000 3500	80	0			11,13,18 11,13,18		CEE Approved
	Medium	28 High L	48.0 umen XL 48.0	73295 <b>Extra-Lif</b> 00268	F28T8/XLSPX50ECO/CVG e w/Starcoat®	36	40000	46000	2595	2440	5000	80	0	\$		11,13,18 11,13,18 11,13,18	103	Blocks UV  Blocks UV
T8	Medium Bi-Pin	28 High L 32 32 32 32	48.0 <b>umen XL</b> 48.0 48.0	73295 <b>Extra-Lif</b> 00268 00269	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG	36 36 36	40000 40000 40000	46000 45000 45000	2595 3007 3007	2440 2827 2827	5000 3500 4100	80 85 82	0	\$		11,13,18	103 103 103	Blocks UV  Blocks UV
T8	Medium Bi-Pin (G13)	28 High L 32 32 32 32 t <sup>®</sup>	48.0 umen XL 48.0 48.0 48.0	73295 <b>Extra-Lif</b> 00268 00269	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG	36 36 36	40000 40000 40000	46000 45000 45000	2595 3007 3007	2440 2827 2827	5000 3500 4100	80 85 82	0	\$		11,13,18	103 103 103	Blocks UV  Blocks UV  Blocks UV
T8 · 5 · ·	Medium Bi-Pin (G13) w/Starcoa	28 High L 32 32 32 32 t <sup>®</sup>	48.0 umen XL 48.0 48.0 48.0	73295 <b>Extra-Lif</b> 00268 00269	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG	36 36 36	40000 40000 40000	46000 45000 45000	2595 3007 3007	2440 2827 2827	5000 3500 4100	80 85 82	0	\$		11,13,18	103 103 103	Blocks UV  Blocks UV
T8 · 5 · ·	Medium Bi-Pin (G13)  W/Starcoa  F8 (60") W/  Medium Bi-Pin	28 High L 32 32 32 32 ** ** ** ** ** ** ** ** ** ** ** ** **	48.0 umen XL 48.0 48.0 48.0 at®	73295 Extra-Life 00268 00269 80497	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG	36 36 36 36	40000 40000 40000 40000	46000 45000 45000	2595 3007 3007 2910	2440 2827 2827 2735	3500 4100 5000	80 85 82 80	0	\$		11,13,18 11,13,18	103 103 103 103	Blocks UV  Blocks UV  Blocks UV  Blocks UV
T8 1 5' T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/  Medium Bi-Pin (G13)	28 P High L 32 32 32 32 t 8 Starco 40 40	48.0 umen XL 48.0 48.0 48.0 48.0 60.0	73295 Extra-Life 00268 00269 80497	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG	36 36 36 36 36	40000 40000 40000 40000 20000	46000 45000 45000	2595 3007 3007 2910	2440 2827 2827 2735 3250	3500 4100 5000	80 85 82 80	0	\$		11,13,18 11,13,18 11,13	103 103 103 103 103	CEE Approved Blocks UV Blocks UV Blocks UV Blocks UV
T8 5' T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/  Medium Bi-Pin (G13)  ctant Start	28 P High L 32 32 32 32 40 40 40 :: w/Sta	48.0  umen XL  48.0  48.0  48.0  48.0  60.0  60.0  60.0	73295 Extra-Lif 00268 00269 80497 41131 47351	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG	36 36 36 36 36	40000 40000 40000 40000 20000	46000 45000 45000	2595 3007 3007 2910	2440 2827 2827 2735 3250	3500 4100 5000	80 85 82 80	0	\$		11,13,18 11,13,18 11,13	103 103 103 103 103	CEE Approved Blocks UV Blocks UV Blocks UV Blocks UV
T8 1 5 1 T8 8 1 T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/  Medium Bi-Pin (G13)  Stant Start F8 (96") Ins	28 P High L 32 32 32 32 ** ** ** ** ** ** ** ** ** ** ** ** **	48.0 48.0 48.0 48.0 48.0 60.0 60.0 40.0 40.0 40.0 40.0 40.0 40	73295 Extra-Lift 00268 00269 80497 41131 47351 arcoat®	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG F32T8XLSPX50HCVG F40T8/SPX35/CVG F40T8/SPX41/CVG	36 36 36 36 24 24	40000 40000 40000 40000 20000 20000	45000 45000 45000	2595 3007 3007 2910 3610 3610	2440 2827 2827 2735 3250 3250	3500 4100 5000 3500 4100	85 82 80 84 84	0	\$		11,13,18 11,13,18 11,13 11,13	103	Blocks UV  Blocks UV  Blocks UV  Blocks UV  Blocks UV
T8 5' T8 8' T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/ Medium Bi-Pin (G13)  stant Start F8 (96") Ins	28 P High L 32 32 32 32 **Starco 40 40 40 **w/Starst Stant Stant St	48.0  48.0  48.0  48.0  48.0  60.0  60.0  coat®  tart w/St  96.0	73295 Extra-Life 00268 00269 80497 41131 47351 arcoat® 94856	F28T8/XLSPX50ECO/CVG  e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG F32T8XLSPX50HCVG  F40T8/SPX35/CVG F40T8/SPX41/CVG	36 36 36 36 24 24	40000 40000 40000 40000 20000 20000 24000	45000 45000 45000 45000	2595 3007 3007 2910 3610 3610 5750	2440 2827 2827 2735 3250 3250 5480	3500 4100 5000 3500 4100 3500 4100	85 82 80 84 84 84	0	\$		11,13,18 11,13,18 11,13 11,13 11,13	103	Blocks UV  Blocks UV  Blocks UV  Blocks UV  Blocks UV  Blocks UV
T8 1 5 1 T8 8 1 T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/  Medium Bi-Pin (G13)  Stant Start F8 (96") Ins	28 P High L 32 32 32 32 40 40 40 59 59	48.0  48.0  48.0  48.0  48.0  60.0  60.0  coat®  tart w/St  96.0  96.0	73295 Extra-Lift 00268 00269 80497 41131 47351  arcoat® 94856 94859	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG  F40T8/SPX41/CVG  F96T8XL/SPX30/CVG  F96T8XL/SPX30/CVG	36 36 36 36 36 24 24 24 24	40000 40000 40000 40000 20000 20000 24000 24000	45000 45000 45000 45000 30000 30000	3610 3610 5750 5600	2440 2827 2827 2735 3250 3250 5480 5060	3500 4100 5000 3500 4100 3000 3500	80 85 82 80 84 84 85 80	0	\$		11,13,18 11,13,18 11,13,18 11,13 11,13 11,13	103	Blocks UV
T8 'T8 '5' T8 T8 8' 'T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/ Medium Bi-Pin (G13)  stant Start F8 (96") Ins	28 P High L 32 32 32 32 40 40 40 59 59 59	48.0  48.0  48.0  48.0  48.0  60.0  60.0  coat®  tart w/St  96.0  96.0  96.0	73295 Extra-Lift 00268 00269 80497 41131 47351  arcoat® 94856 94859 94860	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG  F40T8/SPX41/CVG  F96T8XL/SPX30/CVG  F96T8XL/SPX5/CVG  F96T8XL/SPP35/CVG  F96T8XL/SPP35/CVG	36 36 36 36 36 24 24 24 24 24	40000 40000 40000 40000 20000 20000 24000 24000 24000	45000 45000 45000 45000 30000 30000 30000	3610 3610 5750 5600 5600	2827 2827 2735 3250 3250 3250 5480 5060 5060	3500 4100 5000 3500 4100 3000 3500 4100	80 85 82 80 84 84 85 80 80 80	0 0 0 0	\$		11,13,18 11,13,18 11,13,18 11,13 11,13 11,13 11,13	103	Blocks UV
T8  ' T8 ' 5'  T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/ Medium Bi-Pin (G13)  stant Start F8 (96") Ins	28 P High L 32 32 32 40 40 40 59 59 59 59	48.0 48.0 48.0 48.0 60.0 60.0 coat® tart w/St 96.0 96.0 96.0	73295 Extra-Lift 00268 00269 80497 41131 47351  arcoat® 94856 94859 94860 40099	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX50HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG  F40T8/SPX41/CVG  F96T8XL/SPX30/CVG  F96T8XL/SPX5CVG  F96T8XL/SPX5CVG  F96T8XL/SPX5CVG  F96T8XL/SPX5CVG	36 36 36 36 36 24 24 24 24 24 24 24	40000 40000 40000 40000 20000 20000 24000 24000 24000 24000	45000 45000 45000 45000 30000 30000 30000 30000	2595 3007 3007 2910 3610 3610 5750 5600 5770	2440 2827 2827 2735 3250 3250 5480 5060 5060 5480	3500 4100 5000 3500 4100 3000 3500 4100 3000	80 85 82 80 84 84 85 80 80 85	0 0 0 0	\$		11,13,18 11,13,18 11,13,18 11,13 11,13 11,13 11,13 11,13	103	Blocks UV
T8 ' T8 ' 5' ' T8 ' 8 Ins	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/ Medium Bi-Pin (G13)  stant Start F8 (96") Ins	28 P High L 32 32 32 32 40 40 40 59 59 59	48.0  48.0  48.0  48.0  48.0  60.0  60.0  coat®  tart w/St  96.0  96.0  96.0	73295 Extra-Lift 00268 00269 80497 41131 47351  arcoat® 94856 94859 94860	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG  F40T8/SPX41/CVG  F96T8XL/SPX30/CVG  F96T8XL/SPX5/CVG  F96T8XL/SPP35/CVG  F96T8XL/SPP35/CVG	36 36 36 36 36 24 24 24 24 24	40000 40000 40000 40000 20000 20000 24000 24000 24000	45000 45000 45000 45000 30000 30000 30000	3610 3610 5750 5600 5600	2827 2827 2735 3250 3250 3250 5480 5060 5060	3500 4100 5000 3500 4100 3000 3500 4100	80 85 82 80 84 84 85 80 80 80	0 0 0 0	\$		11,13,18 11,13,18 11,13,18 11,13 11,13 11,13 11,13	103	Blocks UV

### Lamp Locator (not drawn to scale)



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



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



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



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



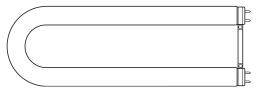
T8 (1" diameter) Medium Bi-Pin Base (G13)



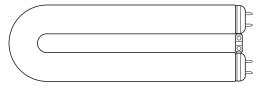
T8 (1" diameter) Recessed Double Contact Base (R17d)



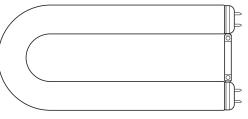
T10 (11/4" diameter) Recessed Double Contact Base (R17d)



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



 $\rm Mod\text{-}U\text{-}Line^{\otimes}$  T12/U3 (11/2" diameter) Medium Bi-Pin Base (G13)



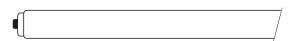
Mod-U-Line® T12/U6 (1-1/2" diameter) Medium Bi-Pin Base (G13)



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



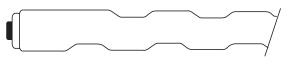
T12 (1-1/2" diameter) Medium Bi-Pin Base (G13)



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

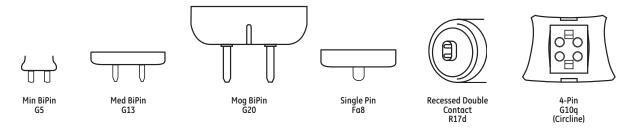


T17 (2-1/8" diameter) Mogul Bi-Pin (G20)



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

### **Base Identification**



#### Introduction

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

#### • Low Operating Cost:

Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy-saving versions often designated in this catalog by Watt-Miser® (WM).

#### Long Life:

Life ratings for fluorescent lamps range from 36,000 to 55,000 hours based on the industry standard of 3 burning hours per start, except where noted.

#### • Light Quality:

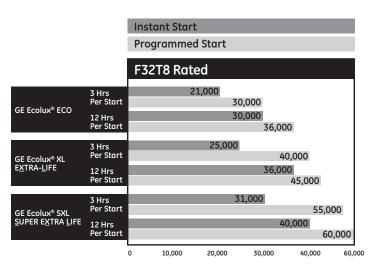
GĒ Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 92%-95%.

#### • Flexibility:

Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.

#### Fast Starting:

Rapid Start and Instant Start lamps typically start within 1 second of being turned on.



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

GE	OSRAM/SYLVANIA	PHILIPS
Aquarium/Terrarium	_	_
Chroma 50	Design 50®	Colortone 50
covRguard®	_	Tuff Away®
Ecolux®	Ecologic	Alto
Gro & Sho™/Plant & Aquarium	GRO-LUX®	Agro-Lite
Kitchen and Bath ULTRA™	Interior Design® (D30)	Softone Pastel FL (SPEC 30)
Mod-U-Line®	Curvalume®	U-Bent
Power Groove®	_	_
Specification Series (SP)	Designer® Series (D)	SPEC Series
Specification Series (SPX)	Designer® "800" Series	Ultralume™
Starcoat®	_	_
T5	Pentron®	Silhouette™
Т8	Octron®	TL70/TL80™
T10/1500MA	VHO/LT	_
/1500	VHO	VHO
Watt-Miser®	SuperSaver®	Econ-o-Watt
Watt-Miser® Plus	SuperSaver Plus®	_
XL	XP	Plus

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

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

# **Product Information**

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

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

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

- High Output Watt-Miser®: Over 5% energy savings versus standard Starcoat® T5 HO lamps. Same lumen output. Great for use in high-bay systems.
- High Efficiency Watt-Misers®: Over 5% energy savings versus standard Starcoat® T5 HE lamps. Same lumen output. Available in four different lengths.
- High Lumen T5: 5% greater lumen output versus standard Starcoat® F28WT5 lamps. Same wattage. Great for new commercial troffers.
- Excellent color rendering 85 CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

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

- GE's highest efficiency and lowest wattage T5 HO combination at 102 LPW
- Relamp existing full wattage 54W lamp with the 47W T5 lamp and saves energy
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

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

- More light over life 94-95% lumen maintenance
- Enhanced color rendering...available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

### GE Starcoat® Ecolux® XL Extra-Life and SXL Super Long Life lamps (pgs 4-9 to 4-10)

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

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

- Energy-saving alternative to standard 2ft and 3ft T8 lamps. Up to 12% energy savings versus standard F17T8 and/or F25T8 lamps, with approximately 10% light loss.
- Excellent color rendering 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

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

- Lowest wattage 4ft T8 currently available.
- Longer rated life at 50,000 hours depending on ballast type and burn cycle
- Operates on any ANSI compliant T8 Instant Start or Programmed Start ballast; also approved on GE UltraStart® PRS ballast
- Excellent color rendering 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)
- Approximately 10% less light

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

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any ANSI compliant T8 Instant Start or Programmed Start ballast
- Also approved for use on GE UltraStart® PRS ballast
- 80+ CRI (Color Rendering Index) and TCLP compliant
- Approximately 4% less light

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

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 33% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP compliant

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

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

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

- One of the most efficient fluorescent products available, up to 107 LPW
- Energy savings...8.5% to 17% less energy consumed than standard F96T8 lamps
- Watt-Miser® Plus has same light output as standard lamps;
   49W is approximately 14% less light
- Excellent color rendering 80+ CRI
- Watt-Miser® Plus lamp reduces wattage to 54W per lamp

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

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

#### **Product Information (continued)**

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

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

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

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

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

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

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

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

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

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

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

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

#### GE Cold-Temperature Lamps (pg 4-19)

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

#### **GE Appliance Lamps (pg 4-20)**

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

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

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

#### GE Gold Lamps (pg 4-21)

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

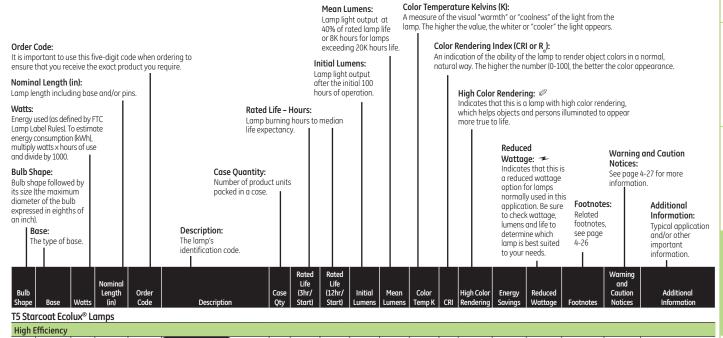
#### **GE Germicidal Lamps (pg 4-21)**

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

### **Headings in this catalog section**

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

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

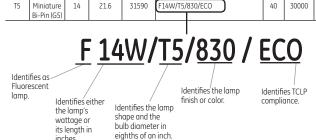


36000

1350

1240

3000



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

- 1. Identify bulb shape by using table on page 4-3.
- 2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.

19

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







			Nominal				Rated Life	Rated Life									Warning and	
Bulb hape	Base	Watts	Length (in)	Order Code	Description	Case Otv	(3 hr/ start)	(12 hr/ start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Footnotes	Caution Notices	Additional Information
	al Applica			tinued)	·	' '												
	olux® w/ S																	
	Γ8 Ecolux®																	
T8	Medium	17	24.0	15974	F17T8SP35ECOCVG	24	30000	36000	1280	1220	3500	78				11,13,18	103	Blocks UV
	Bi-Pin	17	24.0	15977	F17T8SP41ECOCVG	24	30000	36000	1280	1220	4100	78				11,13,18	103	Blocks UV
	(G13)	17	24.0	15975	F17T8SPX35ECOCVG	24	30000	36000	1310	1242	3500	85	0			11,13,18	103	Blocks UV
		17	24.0	15976	F17T8SPX41ECOCVG	24	30000	36000	1310	1242	4100	85	0			11,13,18	103	Blocks UV
		17	24.0	28885	F17T8XLSPX50ECOCVG	24	40000	45000	1310	1243	5000	82	0			11,13,18	103	Blocks UV
3'	Ecolux® w	/Starco	at®															
T8	Medium	25	36.0	15978	F25T8SP30ECOCVG	24	30000	36000	2020	1920	3000	78				11,13,18	103	Blocks UV
	Bi-Pin (G13)	25	36.0	15981	F25T8SP35ECOCVG	24	30000	36000	2020	1920	3500	78				11,13,18	103	Blocks UV
		25	36.0	15984	F25T8SP41ECOCVG	24	30000	36000	2020	1920	4100	78	-			11,13,18	103	Blocks UV
		25	36.0	15989	F25T8SPX30ECOCVG	24	30000	36000	2080	1970	3000	85	0			11,13,18	103	Blocks UV
		25 25	36.0 36.0	15990 15991	F25T8SPX35ECOCVG	24	30000 30000	36000 36000	2080	1970 1970	3500 4100	85 85	0			11,13,18	103 103	Blocks UV
		25	36.0	28887	F25T8SPX41ECOCVG F25T8XLSPX50ECOCVG	24	40000	45000	1990	1890	5000	82	0			11,13,18	103	Blocks UV Blocks UV
4'	I Г8 (48") Ес				1 ESTONEST NSOECOCVO	24	40000	43000	1330	1030	3000	02				11,15,10	103	DIOCKS OV
T8	Medium	32	48.0	94838	F32T8SPP30ECO/CVG	36	30000	36000	2800	2640	3000	80				11,13,18	103	Blocks UV
10	Bi-Pin	32	48.0	94839	F32T8SPP35ECO/CVG	36	30000	36000	2800	2640	3500	80				11,13,18	103	Blocks UV
	(G13)	32	48.0	94861	F32T8SPP41ECO/CVG	36	30000	36000	2800	2640	4100	80				11,13,18	103	Blocks UV
		32	48.0	94842	F32T8SPP50ECO/CV	36	30000	36000	2800	2640	5000	80				11,13,18	103	Blocks UV
		32	48.0	94843	F32T8SPX65ECO/CV	36	30000	36000	2800	2670	6500	78				11,13,18	103	Blocks UV
		32	48.0	41125	F32T8SPX30ECOCVG	36	30000	36000	2860	2715	3000	85	0			11,13,18	103	Blocks UV
		32	48.0	41126	F32T8SPX35ECOCVG	36	30000	36000	2860	2715	3500	85	0			11,13,18	103	Blocks UV
		32	48.0	41127	F32T8SPX41ECOCVG	36	30000	36000	2860	2715	4100	85	0			11,13,18	103	Blocks UV
		32	48.0	15971	F32T8SPX50ECOCVG	36	30000	36000	2715	2580	5000	82	0			11,13,18	103	Blocks UV
4'	T8 Ecolux®	XL Ext	ra-life w/	Starcoat	8													
T8	Medium Bi-Pin (G13)	32	48.0	15972	F32T8XLSPX30ECOCVG	36	40000	45000	2860	2715	3000	85	0			11,13,18	103	Blocks UV
		32	48.0	15973	F32T8XLSPX35ECOCVG	36	40000	45000	2860	2715	3500	85	0			11,13,18	103	Blocks UV
		32	48.0	18369	F32T8XLSPX41ECCVG	36	40000	45000	2860	2715	4100	85	0			11,13,18	103	Blocks UV
		32	48.0	23746	F32T8XLSPX50ECOCVG	36	40000	45000	2715	2580	5000	82				11,13,18	103	Blocks UV
	Energy Sa			// covRgi	rara <sub>®</sub>													
	Γ8 Ecolux®				T	1							_		*	T		
T8	Medium Bi-Pin	25	48.0	72814	F32T8/25WSPX41ECOCVG	36	40000	46000	2425	2350	4100	82	0	\$	-	1,11,13,18	103	Blocks UV
	(G13)	25	48.0	72815	F32T8/25WSPX50ECOCVG	36	40000	46000	2425	2350	5000	80	0	\$		1,11,13,18	103	Blocks UV
4'	Γ8 Ecolux®	Ultra	1ax® 28 W	att Lam	p													
T8	Medium Bi-Pin	28	48.0	73292	F28T8/XLSPX30ECO/CVG	36	40000	46000	2595	2440	3000	85	0	\$	1	1,11,13,18	103	Blocks UV, CEE Approved
	(G13)	28	48.0	73293	F28T8/XLSPX35ECO/CVG	36	40000	46000	2595	2440	3500	85	0	\$	7		103	Blocks UV, CEE Approved
		28	48.0	73294	F28T8/XLSPX41ECO/CVG	36	40000	46000	2595	2440	4100	82	0	\$	7		103	Blocks UV, CEE Approved
													0		7			CEE Approved
4'	Γ8 Ecolux®	28	48.0	73295	F28T8/XLSPX50ECO/CVG	36 36	40000 40000	46000 46000	2595 2595	2440	4100 5000	82 80		\$			103	
	1	28 High L	48.0 umen XL	73295 Extra-Lif	F28T8/XLSPX50ECO/CVG e w/Starcoat®	36	40000	46000	2595	2440	5000	80		\$		11.13.18	103	CEE Approved Blocks UV
<b>4'</b>	Medium Bi-Pin	28 High L	48.0	73295	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG	36		46000	2595 3007	2440	5000 3500	80	0			11,13,18 11,13,18		CEE Approved
	Medium	28 High L	48.0 umen XL 48.0	73295 <b>Extra-Lif</b> 00268	F28T8/XLSPX50ECO/CVG e w/Starcoat®	36	40000	46000	2595	2440	5000	80	0	\$		11,13,18 11,13,18 11,13,18	103	Blocks UV  Blocks UV
T8	Medium Bi-Pin	28 High L 32 32 32 32	48.0 <b>umen XL</b> 48.0 48.0	73295 <b>Extra-Lif</b> 00268 00269	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG	36 36 36	40000 40000 40000	46000 45000 45000	2595 3007 3007	2440 2827 2827	5000 3500 4100	80 85 82	0	\$		11,13,18	103 103 103	Blocks UV  Blocks UV
T8	Medium Bi-Pin (G13)	28 High L 32 32 32 32 t <sup>®</sup>	48.0 umen XL 48.0 48.0 48.0	73295 <b>Extra-Lif</b> 00268 00269	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG	36 36 36	40000 40000 40000	46000 45000 45000	2595 3007 3007	2440 2827 2827	5000 3500 4100	80 85 82	0	\$		11,13,18	103 103 103	Blocks UV  Blocks UV  Blocks UV
T8 · 5 · ·	Medium Bi-Pin (G13) w/Starcoa	28 High L 32 32 32 32 t <sup>®</sup>	48.0 umen XL 48.0 48.0 48.0	73295 <b>Extra-Lif</b> 00268 00269	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG	36 36 36	40000 40000 40000	46000 45000 45000	2595 3007 3007	2440 2827 2827	5000 3500 4100	80 85 82	0	\$		11,13,18	103 103 103	Blocks UV  Blocks UV
T8 · 5 · ·	Medium Bi-Pin (G13)  W/Starcoa  F8 (60") W/  Medium Bi-Pin	28 High L 32 32 32 32 ** ** ** ** ** ** ** ** ** ** ** ** **	48.0 umen XL 48.0 48.0 48.0 at®	73295 Extra-Life 00268 00269 80497	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG	36 36 36 36	40000 40000 40000 40000	46000 45000 45000	2595 3007 3007 2910	2440 2827 2827 2735	3500 4100 5000	80 85 82 80	0	\$		11,13,18 11,13,18	103 103 103 103	Blocks UV  Blocks UV  Blocks UV  Blocks UV
T8 1 5' T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/  Medium Bi-Pin (G13)	28 P High L 32 32 32 32 t 8 Starco 40 40	48.0 umen XL 48.0 48.0 48.0 48.0 60.0	73295 Extra-Life 00268 00269 80497	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG	36 36 36 36 36	40000 40000 40000 40000 20000	46000 45000 45000	2595 3007 3007 2910	2440 2827 2827 2735 3250	3500 4100 5000	80 85 82 80	0	\$		11,13,18 11,13,18 11,13	103 103 103 103 103	CEE Approved Blocks UV Blocks UV Blocks UV Blocks UV
T8 5' T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/  Medium Bi-Pin (G13)  ctant Start	28 P High L 32 32 32 32 40 40 40 :: w/Sta	48.0  umen XL  48.0  48.0  48.0  48.0  60.0  60.0  60.0	73295 Extra-Lif 00268 00269 80497 41131 47351	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG	36 36 36 36 36	40000 40000 40000 40000 20000	46000 45000 45000	2595 3007 3007 2910	2440 2827 2827 2735 3250	3500 4100 5000	80 85 82 80	0	\$		11,13,18 11,13,18 11,13	103 103 103 103 103	CEE Approved Blocks UV Blocks UV Blocks UV Blocks UV
T8 1 5' T8 8' T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/  Medium Bi-Pin (G13)  Stant Start F8 (96") Ins	28 P High L 32 32 32 32 ** ** ** ** ** ** ** ** ** ** ** ** **	48.0 48.0 48.0 48.0 48.0 60.0 60.0 40.0 40.0 40.0 40.0 40.0 40	73295 Extra-Lift 00268 00269 80497 41131 47351 arcoat®	F28T8/XLSPX50ECO/CVG e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG F32T8XLSPX50HCVG F40T8/SPX35/CVG F40T8/SPX41/CVG	36 36 36 36 24 24	40000 40000 40000 40000 20000 20000	45000 45000 45000	2595 3007 3007 2910 3610 3610	2440 2827 2827 2735 3250 3250	3500 4100 5000 3500 4100	85 82 80 84 84	0	\$		11,13,18 11,13,18 11,13 11,13	103	Blocks UV  Blocks UV  Blocks UV  Blocks UV  Blocks UV
T8 5' T8 8' T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/ Medium Bi-Pin (G13)  stant Start F8 (96") Ins	28 P High L 32 32 32 32 **Starco 40 40 40 **w/Starst Stant Stant St	48.0  48.0  48.0  48.0  48.0  60.0  60.0  coat®  tart w/St  96.0	73295 Extra-Life 00268 00269 80497 41131 47351 arcoat® 94856	F28T8/XLSPX50ECO/CVG  e w/Starcoat® F32T8XLSPX35HCVG F32T8XLSPX41HCVG F32T8XLSPX50HCVG  F40T8/SPX35/CVG F40T8/SPX41/CVG	36 36 36 36 24 24	40000 40000 40000 40000 20000 20000 24000	45000 45000 45000 45000	2595 3007 3007 2910 3610 3610 5750	2440 2827 2827 2735 3250 3250 5480	3500 4100 5000 3500 4100 3500 4100	85 82 80 84 84 84	0	\$		11,13,18 11,13,18 11,13 11,13 11,13	103	Blocks UV  Blocks UV  Blocks UV  Blocks UV  Blocks UV  Blocks UV
T8 1 5' T8 8' T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/  Medium Bi-Pin (G13)  Stant Start F8 (96") Ins	28 P High L 32 32 32 32 40 40 40 59 59	48.0  48.0  48.0  48.0  48.0  60.0  60.0  coat®  tart w/St  96.0  96.0	73295 Extra-Lift 00268 00269 80497 41131 47351  arcoat® 94856 94859	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG  F40T8/SPX41/CVG  F96T8XL/SPX30/CVG  F96T8XL/SPX30/CVG	36 36 36 36 36 24 24 24 24	40000 40000 40000 40000 20000 20000 24000 24000	45000 45000 45000 45000 30000 30000	3610 3610 5750 5600	2440 2827 2827 2735 3250 3250 5480 5060	3500 4100 5000 3500 4100 3000 3500	80 85 82 80 84 84 85 80	0	\$		11,13,18 11,13,18 11,13,18 11,13 11,13 11,13	103	Blocks UV
T8 'T8 '5' T8 T8 8' 'T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/ Medium Bi-Pin (G13)  stant Start F8 (96") Ins	28 P High L 32 32 32 32 40 40 40 59 59 59	48.0  48.0  48.0  48.0  48.0  60.0  60.0  coat®  tart w/St  96.0  96.0  96.0	73295 Extra-Lift 00268 00269 80497 41131 47351  arcoat® 94856 94859 94860	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG  F40T8/SPX41/CVG  F96T8XL/SPX30/CVG  F96T8XL/SPX5/CVG  F96T8XL/SPP35/CVG  F96T8XL/SPP35/CVG	36 36 36 36 36 24 24 24 24 24	40000 40000 40000 40000 20000 20000 24000 24000 24000	45000 45000 45000 45000 30000 30000 30000	3610 3610 5750 5600 5600	2827 2827 2735 3250 3250 3250 5480 5060 5060	3500 4100 5000 3500 4100 3000 3500 4100	80 85 82 80 84 84 85 80 80 80	0 0 0 0	\$		11,13,18 11,13,18 11,13,18 11,13 11,13 11,13 11,13	103	Blocks UV
T8  ' T8 ' 5'  T8	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/ Medium Bi-Pin (G13)  stant Start F8 (96") Ins	28 P High L 32 32 32 40 40 40 59 59 59 59	48.0 48.0 48.0 48.0 60.0 60.0 coat® tart w/St 96.0 96.0 96.0	73295 Extra-Lift 00268 00269 80497 41131 47351  arcoat® 94856 94859 94860 40099	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX50HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG  F40T8/SPX41/CVG  F96T8XL/SPX30/CVG  F96T8XL/SPX5CVG  F96T8XL/SPX5CVG  F96T8XL/SPX5CVG  F96T8XL/SPX5CVG	36 36 36 36 36 24 24 24 24 24 24 24	40000 40000 40000 40000 20000 20000 24000 24000 24000 24000	45000 45000 45000 45000 30000 30000 30000 30000	2595 3007 3007 2910 3610 3610 5750 5600 5770	2440 2827 2827 2735 3250 3250 5480 5060 5060 5480	3500 4100 5000 3500 4100 3000 3500 4100 3000	80 85 82 80 84 84 85 80 80 85	0 0 0 0	\$		11,13,18 11,13,18 11,13,18 11,13 11,13 11,13 11,13 11,13	103	Blocks UV
T8 ' T8 ' 5' ' T8 ' 8 Ins	Medium Bi-Pin (G13)  W/Starcoa F8 (60") W/ Medium Bi-Pin (G13)  stant Start F8 (96") Ins	28 P High L 32 32 32 32 40 40 40 59 59 59	48.0  48.0  48.0  48.0  48.0  60.0  60.0  coat®  tart w/St  96.0  96.0  96.0	73295 Extra-Lift 00268 00269 80497 41131 47351  arcoat® 94856 94859 94860	F28T8/XLSPX50ECO/CVG  e w/Starcoat®  F32T8XLSPX35HCVG  F32T8XLSPX41HCVG  F32T8XLSPX50HCVG  F40T8/SPX35/CVG  F40T8/SPX41/CVG  F96T8XL/SPX30/CVG  F96T8XL/SPX5/CVG  F96T8XL/SPP35/CVG  F96T8XL/SPP35/CVG	36 36 36 36 36 24 24 24 24 24	40000 40000 40000 40000 20000 20000 24000 24000 24000	45000 45000 45000 45000 30000 30000 30000	3610 3610 5750 5600 5600	2827 2827 2735 3250 3250 3250 5480 5060 5060	3500 4100 5000 3500 4100 3000 3500 4100	80 85 82 80 84 84 85 80 80 80	0 0 0 0	\$		11,13,18 11,13,18 11,13,18 11,13 11,13 11,13 11,13	103	Blocks UV