



# F28T8/XL/SPX/ECO

## F28T8/XL/SPX/ECO with the GE ULTRAMAX® Ballast

Up to 44% reduction in wattage compared to T12 system with nearly the same light output (see chart below);

Saves energy

Long 30,000 hours life @ 12 hours / start; extends relamp cycle

Multi-voltage and striation-control ballast; ULTRA performance

### F28T8/XL/SPX/ECO with T8 Instant Start Ballasts\*

Up to 12% reduction in wattage; saves energy vs. standard T8's.

Long 30,000 hours life @ 12 hours / start; Extends relamp cycle

Remove your existing 32 watt T8 and replace it with the GE F28T8/XL

28 Watt; 4' Fluorescent; Highly Energy Efficient

TCLP-Compliant

Designed for Instant Start Ballasts with a Minimum Open Circuit Voltage: 550

\* Recommended for Use on Instant Start Ballasts with Open Circuit Voltage > 550 Volts

Also approved for use on GE UltraStart® Programmed Start Ballasts.

High Quality Color Rendering; 85 (SPX30 & SPX35); 82 (SPX41); 80 (SPX50)

Lamp/system = 4

	Ballast factor	System Watts	Initial System Lumens	
F32T8	0.77	97	8624	
F28T8/XL	0.77	87	8393	
Energy Savings Matrix				
10 Watts Saved Per Fixture				
Example calculation	Savings per Fixture at Operating Hours/Year			Savings per fixture over life of lamp
	KWH Rate	4000	5500	
\$ 0.060	\$ 2.40	\$ 3.30	\$ 5.26	\$ 18.00
\$ 0.080	\$ 3.20	\$ 4.40	\$ 7.01	\$ 24.00
\$ 0.100	\$ 4.00	\$ 5.50	\$ 8.76	\$ 30.00
\$ 0.120	\$ 4.80	\$ 6.60	\$ 10.51	\$ 36.00
\$ 0.200	\$ 8.00	\$ 11.00	\$ 17.52	\$ 60.00

Lamp/system = 4

	Ballast factor	System Watts	Initial System Lumens	
F34T12 CW	0.90	148	9540	
F28T8/XL	0.77	87	8393	
Energy Savings Matrix				
61 Watts Saved Per Fixture				
Example calculation	Savings per Fixture at Operating Hours/Year			Savings per fixture over life of lamp
	KWH Rate	4000	5500	
\$ 0.060	\$ 14.64	\$ 20.13	\$ 32.06	\$ 109.80
\$ 0.080	\$ 19.52	\$ 26.84	\$ 42.75	\$ 146.40
\$ 0.100	\$ 24.40	\$ 33.55	\$ 53.44	\$ 183.00
\$ 0.120	\$ 29.28	\$ 40.26	\$ 64.12	\$ 219.60
\$ 0.200	\$ 48.80	\$ 67.10	\$ 106.87	\$ 366.00

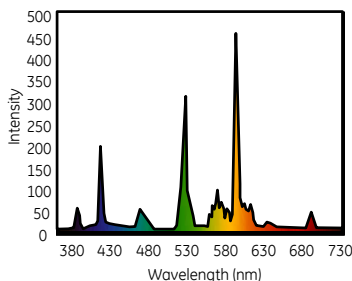


New Longer Life!

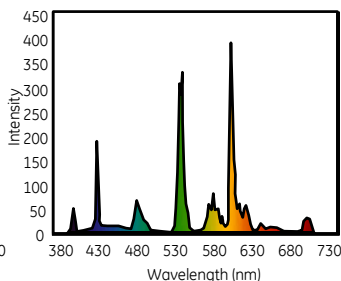
# F28T8/XL/SPX/ECO Lamp Specifications

Product Description	F28T8/XL/SPX30/ECO	F28T8/XL/SPX35/ECO	F28T8/XL/SPX41/ECO	F28T8/XL/SPX50/ECO
Product Code	72863	72864	72866	72867
Case Quantity	36	36	36	36
<b>Physical Characteristics</b>				
Bulb Designation	T8	T8	T8	T8
Bulb Material	Soda Lime	Soda Lime	Soda Lime	Soda Lime
Max Bulb Diameter (D)	1.10" (27.9mm)	1.10" (27.9mm)	1.10" (27.9mm)	1.10" (27.9mm)
Nominal Bulb Diameter (D)	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)
Base Type	Medium Bipin (G13)	Medium Bipin (G13)	Medium Bipin (G13)	Medium Bipin (G13)
Max Face to End of Opposing Pin (B)	47.50" (1206.5mm)	47.50" (1206.5mm)	47.50" (1206.5mm)	47.50" (1206.5mm)
Min Face to End of Opposing Pin (B)	47.40" (1204.0mm)	47.40" (1204.0mm)	47.40" (1204.0mm)	47.40" (1204.0mm)
Max Overall Length (C)	47.78" (1213.6)	47.78" (1213.6)	47.78" (1213.6)	47.78" (1213.6)
Nominal Overall Length (C)	48"	48"	48"	48"
TCLP Compliant	yes	yes	yes	yes
Low Mercury	yes	yes	yes	yes
<b>Electrical Characteristics</b>				
Nominal Lamp Watts (W)	28	28	28	28
Nominal Lamp Voltage (V)	115	115	115	115
Nominal Lamp Current (A)	0.275	0.275	0.275	0.275
Minimum Starting Temp (°F)	60	60	60	60
<b>Photometric Characteristics</b>				
Reference - Initial Lumens	2725	2725	2725	2625
- Mean Lumens (40% rated life)	2562	2562	2562	2468
Nominal Efficacy (Lumens/Watt)	97	97	97	94
Rated Life (hrs) 3 hr cycle - Instant Start	24000	24000	24000	24000
Rated Life (hrs) 12 hr cycle - Instant Start	30000	30000	30000	30000
Rated Life (hrs) 3 hr cycle - PR Start	36000	36000	36000	36000
Rated Life (hrs) 12 hr cycle - PR Start	42000	42000	42000	42000
Color Rendering Index (Ra) CRI	85	85	82	80
Correlated Color Temperature (Kelvin)	3000	3500	4100	5000

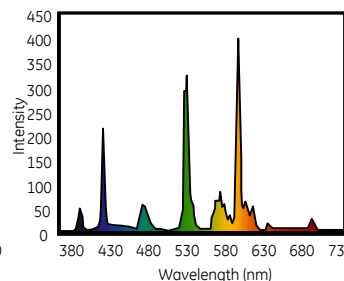
Fluorescent Lamp Spectra  
F28T8 colors – SPX30



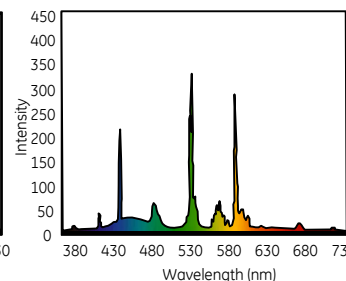
Fluorescent Lamp Spectra  
F28T8 colors – SPX35



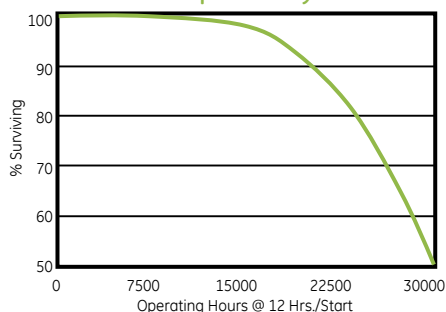
Fluorescent Lamp Spectra  
F28T8 colors – SPX41



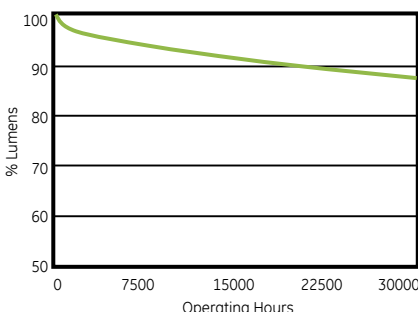
Fluorescent Lamp Spectra  
F28T8 colors – SPX50



Lamp Mortality



Lumen Maintenance



### F28T8XL Specifier Statement:

Lamps shall be GE Starcoat® T8 lamps having medium bi-pin bases. F28T8XL lamps shall be designed to pass the Federal TCLP test in force at the time of manufacture. F28T8XL rated life shall be at least 24,000 hr at 3 hours per start on a T8 instant start ballast. F28T8XL lamps shall have initial lumens of at least 2725 (2625 for 5000K) and mean lumens of at least 2562 (2468 for 5000K), and a color rendering index of at least 80 for 5000K, 82 for the 4100K lamp and 85 for the 3500K and 3000K. F28T8XL lamps shall have a nominal wattage of 28 watts. Lamps shall be operated on GE UltraMax® electronic, high frequency ballasts or other instant start ballasts with Open Circuit Voltages greater than 550 Volts or on GE UltraStart® programmed start ballasts.

For additional product and application information, please consult GE's Website: [www.gelighting.com](http://www.gelighting.com)

