



F28T8/SP/UMX/ECO

F28T8/UMX/ECO with the GE ULTRAMAX™ Ballast

Up to 44% Reduction in Wattage Compared to T12 System;
Saves Energy

Long 24,000 Hours Life @ 12 hours / start; Extends Relamp Cycle
Multi-Voltage and Striation-Control Ballast; ULTRA Performance

Convert from F34/T12 (148 Watts) to F28T8 with
UltraMax™ -L Ballast (87 Watts):

Lamps per Fixture: 4	System Watts Saved: 61			Over Lamp Life 28W 24000
	Operating Hours / Year			
<u>KWH Rate</u>	<u>4000</u>	<u>5500</u>	<u>8760</u>	
\$0.06	\$14.64	\$20.13	\$32.06	\$87.84
\$0.08	\$19.52	\$26.84	\$42.75	\$117.12
\$0.10	\$24.40	\$33.55	\$53.44	\$146.40
\$0.12	\$29.28	\$40.26	\$64.12	\$175.68

F28T8/UMX/ECO with T8 Instant Start Ballasts*

Up to 12% Reduction in Wattage; Saves Energy vs. Standard T8's.

Long 24,000 Hours Life @ 12 hours / start; Extends Relamp Cycle
Remove Your Existing 32 Watt T8 and replace it with the GE 28 Watt T8

Relamp Existing F32T8 (97Watts) to F28T8 (87 Watts):

Lamps per Fixture: 4	System Watts Saved: 10			Over Lamp Life 28W 24000
	Operating Hours / Year			
<u>KWH Rate</u>	<u>4000</u>	<u>5500</u>	<u>8760</u>	
\$ 0.06	\$ 2.40	\$ 3.30	\$ 5.26	\$ 14.40
\$ 0.08	\$ 3.20	\$ 4.40	\$ 7.01	\$ 19.20
\$ 0.10	\$ 4.00	\$ 5.50	\$ 8.76	\$ 24.00
\$ 0.12	\$ 4.80	\$ 6.60	\$ 10.51	\$ 28.80

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
Striations may occur on ballasts not utilizing
"striation-controlling" feature.

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

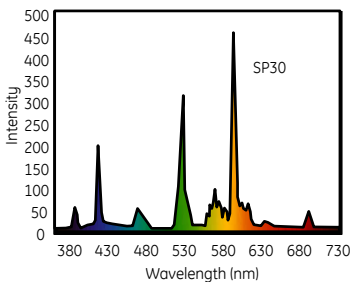
High Quality Color Rendering;
85 (SP30 & SP35); 82 (SP41);
80 (SP50)



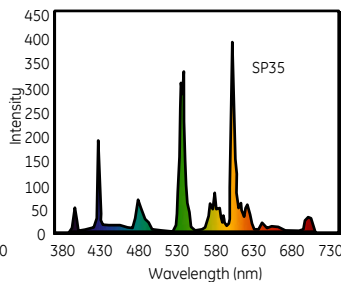
F28T8/SP/UMX/ECO Lamp Specifications

<u>Product Description</u>	<u>F28T8/SP30/UMX/ECO</u>	<u>F28T8/SP35/UMX/ECO</u>	<u>F28T8/SP41/UMX/ECO</u>	<u>F28T8/SP50/UMX/ECO</u>
Product Code	00255	00256	00257	42554
Case Quantity	36	36	36	36
<u>Physical Characteristics</u>				
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
<u>Electrical Characteristics</u>				
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
Nominal Lamp Operating Frequency (Hz)	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Minimum Starting Temp (°F)	60	60	60	60
<u>Photometric Characteristics</u>				
Reference - Initial Lumens	2750	2750	2750	2650
- Mean Lumens (40% rated life)	2585	2585	2585	2490
Nominal Efficacy (Lumens/Watt)	98	98	98	95
Rated Life (hrs) 3 hr cycle	18000	18000	18000	18000
Rated Life (hrs) 12 hr cycle	24000	24000	24000	24000
Color Rendering Index (Ra) CRI	85	85	82	80
Correlated Color Temperature (Kelvin)	3000	3500	4100	5000

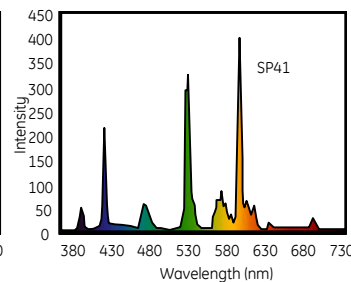
Fluorescent Lamp Spectra
F28T8 colors – SP30



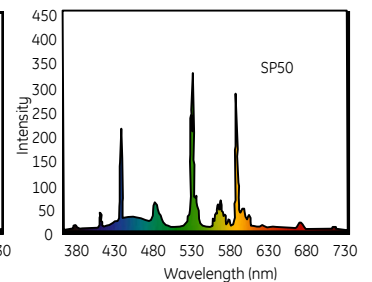
Fluorescent Lamp Spectra
F28T8 colors – SP35



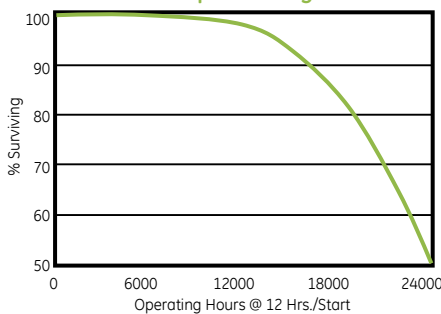
Fluorescent Lamp Spectra
F28T8 colors – SP41



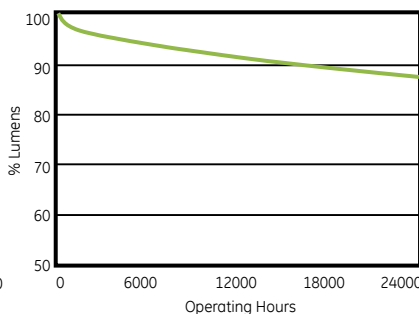
Fluorescent Lamp Spectra
F28T8 colors – SP50



Lamp Mortality



Lumen Maintenance



F28T8 Specifier Statement:

Lamps shall be GE Starcoat® T8 UltraMax™ lamps having medium bi-pin bases. F28T8 lamps shall be designed to pass the Federal TCLP test in force at the time of manufacture. F28T8 rated life shall be at least 18,000 hr at 3 hours per start on a T8 instant start ballast. F28T8 lamps shall have initial lumens of at least 2750 (2650 for 5000K) and mean lumens of at least 2585 (2490 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. F28T8 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

