

TECHNICAL INFORMATION BULLETIN

EARTHSAVER T8 ENERGY SAVER SERIES



LAMP CHARACTERISTICS

Lamp: Safety coated lamp with polymer alloy powder

Starting method: Rapid Start

TCLP compliant: Yes

Phosphor composition: Triphosphor

Cathode guard: Yes

Nominal lamp operating frequency: 60 HZ

² Minimum starting temperature: -10°C

BENEFITS

One system lamp/ballast warranty.

Extended lamp warranty from 2 to 3 years and ballast warranty from 3 to 5 years.



IS= Instant Start PS= Program Start PRS= Program Rapid Start

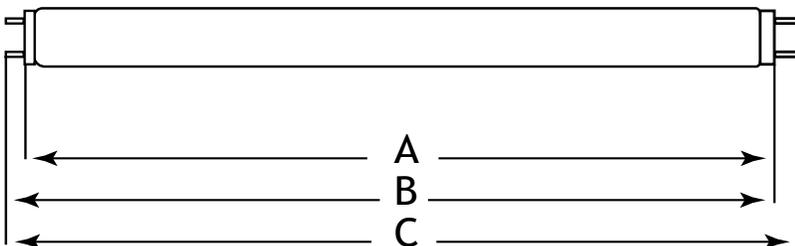
Order code	Description	Base	Colour temp. (K)	CRI	Rated life on IS ballast 3-12 hrs	Rated life on PS/PRS ballast 3-12 hrs	Initial lumens (lm)	Mean lumens (lm)	Nominal length (in.) (mm)	Nominal diameter (in.) (mm)	Efficacy (lm/W)	Case qty
25 watts (not compatible with rapid start ballasts)												
57649	F25T8/841HL/ES/SM	Med Bipin	4100	85	24000 30000	30000 36000	2500	2425	48 1220	1 26	100	25
28 watts (not compatible with rapid start ballasts)												
57681	F28T8/835HL/ES/SM	Med Bipin	3500	85	24000 30000	30000 36000	2725	2560	48 1220	1 26	97	25
57624	F28T8/841HL/ES/SM	Med Bipin	4100	85	24000 30000	30000 36000	2725	2560	48 1220	1 26	97	25
57768	F28T8/850HL/ES/SM	Med Bipin	5000	85	24000 30000	30000 36000	2725	2560	48 1220	1 26	97	25

* Based on a 3 hour start ** Based on a 12 hour start

¹ The life rating indicated is based on 3 hour burning cycles under specified conditions and with ballast meeting ANSI specifications.
² The minimum starting temperature is a function of the ballast. The minimum starting temperature is based on a STANDARD brand T8 program start ballast.

DIMENSIONS

	A		B		C			
	Maximum (in.)	Maximum (mm)	Minimum (in.)	Minimum (mm)	Maximum (in.)	Maximum (mm)		
25 watts	47.22	1199.4	47.40	1204.0	47.50	1206.5	47.78	1213.6
28 watts	47.22	1199.4	47.40	1204.0	47.50	1206.5	47.78	1213.6



A Max
Base face to base face

B Min / B Max
Base face to end of opposite face pin

C Max
End of base pin to the end of opposite end



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ADDITIONAL INFORMATION

- Direct replacement for conventional 32 watt lamps except where otherwise identified
- Compatible with all T8 electronic ballasts
- Excellent colour rendering
- High system efficiency
- Low mercury content and TCLP compliant
- Energy savings and reduced maintenance cost
- Reduction in lamp-end blackening

APPLICATIONS NOTES

1. Recommended usage on T8 F32 Instant Start ballasts with a minimum circuit starting voltage of 550 V rms.
2. Not recommended to be used on:
 - Rapid Start ballast unless the open circuit voltage is greater than 550 V;
 - Lamp ambient temperatures below 60 degree F or in drafty locations;
 - Dimming ballasts;
 - Inverter-operated emergency lighting systems.
3. Fixture must conform to ANSI specifications.

Please note: The above applies unless any of the equipment is specifically listed for 25, 28 and 30 watt lamps. Any of the situations previously stated could result in lamp starting and stabilization problems, or system compatibility issues.

The coating on a Safety Max brand fluorescent lamps is guaranteed to last the rated life of the lamp to be free from material defects and will not yellow, peel or crack under normal operating conditions.

- T8 and T12 fluorescent lamps must be installed and operate in ambient temperatures below 50°C(120°F)
- T5HO must be installed and operate in ambient temperatures below 204.4°C(400°F)
- Lamps must be used with compatible ballast for the specific lamp type. Lamps can not be used in fixtures employing defective ballasts, ballasts that have been used longer than their rated-life or ballasts that are improperly wired.
- The lamps can be installed in open or enclosed fixtures
- Energy saving lamps,(30 W, 28 W, 25 W) typically are not rated for use below 16°C (60°F) nor with dimming ballast
- Lamps must be used in fixtures with proper socket contact and wiring
- Safety Max fluorescent lamps made for use in REFRIGERATED AREAS ONLY, must be used for this application only. Standard has no control over the temperature range in the areas where lamps are operated, their performance cannot be guaranteed.

NOTE: If used in refrigerated areas with temperatures never exceeding 7°C (45°F), the coating should be expected to last for the rated-life of the lamp.

- Lumen output may have a variation of 1%.
- UVA rays are reduced by 90% on fluorescent lamps except T5HO.

