

OCTRON® Four Foot FO28 XP® SUPERSAVER® ECO® Fluorescent Lamps



- 28 Watt, 4-foot, SUPERSAVER energy saving, T8 lamp
- 12.5% energy savings compared to standard 32W T8 lamp
- ECOLOGIC – Designed to pass TCLP¹
- Initial lumens – 2725
- 94% lumen maintenance at 9600 hours
- 3000K, 3500K & 4100K
- 85 CRI
- Retrofit lamp for existing T8 instant start systems
 - 18,000 hours average rated life @ 3 hrs per start
 - 26,000 hours average rated life @ 12 hrs per start
- Approved on OSRAM SYLVANIA QUICKTRONIC® PSX and PSN ballasts.
 - 24,000 hours average rated life @ 3 hrs per start
 - 30,000 hours average rated life @ 12 hrs per start
- Minimum starting temperature: 60°F
- Not dimmable

SYLVANIA 28 Watt OCTRON FO28 XP SUPERSAVER ECOLOGIC lamps operate on standard T8 instant start systems and provide 12.5% energy savings over standard 32 Watt OCTRON lamps. At \$.10/kWh and 4000 hours of operation per year, the 12.5% savings translates to a savings of \$5.70 per fixture per year for a 4-lamp fixture with a normal ballast factor, instant start ballast. The 94% lumen maintenance of the OCTRON FO28/800XP/SS/ECO lamp assures that light levels are maintained while energy is saved. These lamps pass the Federal TCLP test, classifying them as non-hazardous waste in most states. Group relamp to realize the benefits of these OCTRON lamps in your facility.

SYLVANIA OCTRON T8 ECOLOGIC fluorescent lamps are designed to pass the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states²



1. TCLP test results are based on NEMA LL Series standards and are available on request.
2. Lamp disposal regulations may vary; check your local & state regulations.

Product Availability

Lamp Type	Wattage	Color Temperature	CRI
FO28/830XP/SS/ECO	28	3000K	85
FO28/835XP/SS/ECO	28	3500K	85
FO28/841XP/SS/ECO	28	4100K	85

Application Information

Applications

Retail
Office
Schools
Hospitals
Industrial
Many applications with T8 instant start ballasts currently using 32W T8 lamps

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

Contact your OSRAM SYLVANIA representative for a list of compatible electronic operating systems.

Application Notes

1. Recommended to be used on T8 F32 Instant Start circuit with minimum starting voltage of 550V rms.

Application Notes (continued)

2. Not recommended to be used: (1) with Rapid Start circuits unless the open circuit voltage is greater than 550V, (2) at lamp ambient temperatures below 60°F or in drafty locations, (3) on low power factor ballasts, (4) dimming ballasts, or (5) inverter-operated emergency lighting systems unless any of the above equipment is specifically listed for 28 watt lamps. Any of the above situations could result in lamp starting and stabilization problems, or system compatibility issues.
3. Can operate on QUICKTRONIC® PSX and PSN ballasts. 24,000 hours average rated life at 3hrs per start, 30,000 hours average rated life at 12hrs per start.
4. Fixture must conform to ANSI C78.1 – 1991 requirements for luminaire design.



Sample Specification

Lamp(s) shall be OCTRON® FO28 XP® SUPERSAVER ECOLOGIC 4-foot lamp(s) having medium bi-pin bases. Lamp(s) shall be designed to pass the Federal TCLP test in force at the time of manufacture. Lamp(s) shall have an average rated life of 18,000 hours at 3 hours per start when operated on T8 instant start ballasts, 2725 initial lumens, 94% lumen maintenance at 9600 hours, a correlated color temperature of (3000K, 3500K or 4100K) and a CRI of 85. The OCTRON SUPERSAVER ECOLOGIC lamp(s) shall be operated on QUICKTRONIC electronic, high frequency ballasts with complete system warranty from the manufacturer covering lamps and ballast.

Warranty Information

QUICK 60+® warranty for OSRAM SYLVANIA lamp and ballast combination
 Limited 36 month lamp warranty and a five year ballast warranty is possible if both lamps and ballast are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

System Comparison

4-Lamp Instant Start Systems: FO28/800XP/SS/ECO vs FO32/700/ECO

Lamp Type	Initial Lumens	Average Rated Life (hrs.)	Ballast	Ballast Factor	System Watts	System Lumens @ 8000 hrs.	Relative Lumens	Relative Lamp Life	% Energy Savings	LPW
FO32/741/ECO	2800	15,000	4-lamp IS	.90	114	9070	100%	100%	-	80
FO28/841XP/SS/ECO	2725	18,000	4-lamp IS	.90	100	9319	103%	120%	12.5	93
FO32/741/ECO	2800	15,000	4-lamp IS-L	.77	98	7761	100%	100%	-	79
FO28/841XP/SS/ECO	2725	18,000	4-lamp IS-L	.77	86	7973	103%	120%	12.5	93
FO28/841XP/SS/ECO	2725	24,000	4-lamp PSX	.71	82/80 ¹	7352	95%	160%	17/19 ¹	90/92 ¹

1. Ballast is universal input, data is presented 120V/277V

Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Initial Lumens	Mean Lumens ¹	Avg. Rated Life (hrs.) ²	CCT	CRI
22177	FO28/830XP/SS/ECO	28	T8	Medium bi-pin	2725	2562	18,000	3000K	85
22178	FO28/835XP/SS/ECO	28	T8	Medium bi-pin	2725	2562	18,000	3500K	85
22179	FO28/841XP/SS/ECO	28	T8	Medium bi-pin	2725	2562	18,000	4100K	85

1. Measured @ 9600 hours, 95% of initial lumens @ 8000 hours.

2. Based on 3 hours/start on instant start ballasts. At 12 hours/start, average rated life = 26,000 hours on instant start ballasts.

Ordering Guide

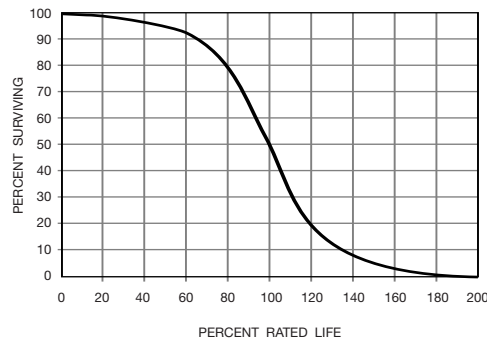
FO	28	/	8	35	XP	/	SS	/	ECO
Fluorescent OCTRON	Wattage = 28		CRI = 85	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K	EXtended Performance		SUPERSAVER		ECOLOGIC

Dimensions

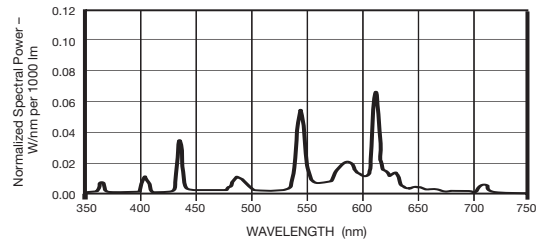
	(A) Maximum Overall Length (in.)	(B) Base Face to Opposite Pin (in.)	(C) Max. Base Face to Base Face (in.)	(D) Max. Outside Diameter (in.)
FO28	47.78"	Min. 47.41" Max. 47.50"	47.22"	1.1"

Technical Information

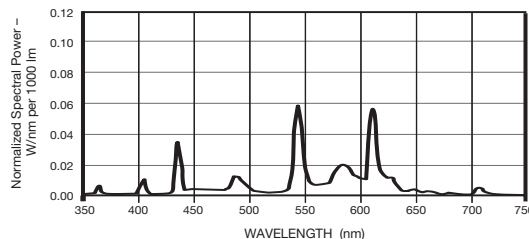
Typical Fluorescent Lamp Mortality



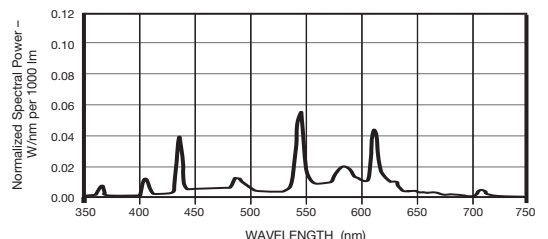
OCTRON 830



OCTRON 835



OCTRON 841



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