

Product Information Bulletin

OCTRON® FO48 and FO72 800 XP™ ECOLOGIC® Fluorescent Lamps



The OCTRON® four foot FO48/835XP/ECO and six foot FO72/835XP ECOLOGIC® lamps are energy saving alternatives to F48T12 and F72T12 instant start lamps operated by magnetic ballasts.

In addition to energy savings, these lamps last up to twice as long as comparable T12 Instant Start lamps,, deliver higher maintained light levels and provide excellent color rendition with a CRI of 85.

- **E**Xtended **P**erformance OCTRON 4' and 6' T8
- Designed to pass Federal TCLP¹ test
- Energy Saving alternative for F48T12 and F72T12 instant start systems
- 2850 Lumens for FO48 and 4650 for FO72
 - Higher lumens than T12 instant start systems
 - 94% lumen maintenance factor
- 18,000 hours average rated life at 3 hours per start
 - FO48 is 100% longer lamp life than F48 T12
 - FO72 is 50% longer lamp life than F72 T12
- 3500K color temperatures
- 85 CRI
- Single-pin bases
- 48" and 72" MOL



SYLVANIA OCTRON® T8 ECOLOGIC® fluorescent lamps are designed to pass the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states^{1,2}.

¹ TCLP test results are based on NEMA LL Series standards and are available on request.

² Lamp disposal regulations may vary; check with your local & state regulations.

Product Availability

Wattage	Lamp Description	Initial Lumens
28*	FO48/835XP/ECO	2,850
44*	FO72/835XP/ECO	4,650

*High frequency operation with Ballast Factor = 1.00

System Comparison

OCTRON 800XP/ECO with electronic instant start ballast vs T12 with magnetic instant start ballast

Lamp Type & Ballast	System Wattage	Ballast Factor	Lumens @ 4800 hours *	Relative Light Output	Energy \$ Savings **
F72T12/CW with e.s. magnetic	132	.94	7191	100%	-0-
FO72/835XP/ECO	83	.88	7857	109%	\$42.92
F48T12/CW with magnetic ballast	107	.98	4700	100%	-0-
FO48/835XP/ECO	55	.90	4925	105%	\$45.55

*Lumen maintenance factors at 4800 hours are 85% for CW and 96% for 835.

**Based on 8,760 hours per year and \$.10/kWh.

Application Information

Applications

Subway

Ballast Information

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

Application Notes

1. Use the same single-pin lamp sockets as the F72T12 instant start lamps.

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Sample Specification

Lamp(s) shall be OCTRON FO48/XP™ or FO72XP™ ECOLOGIC®T8 single-pin lamp(s) with an average rated life of 18,000 hours at 3 hours per start. Lamp(s) shall be designed to pass the Federal TCLP test. Lamp(s) shall have a CRI of 85 and a color temperature of 3500K.

Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	MOL ¹	Avg. Rated Life (hrs.)	Initial Lumens	Mean Lumens @ 7200 hrs.	CCT	CRI	Case Qty.
21599	FO48/835XP/ECO	28 ²	T8	Single pin	48"	18,000	2850	2679	3500	85	30
21598	FO72/835XP/ECO	44 ²	T8	Single pin	72"	18,000	4650	4371	3500	85	24

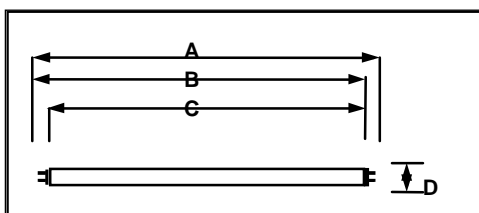
¹ MOL = Maximum overall length

² High frequency operation with Ballast Factor = 1.00

Ordering Guide

FO72	8	35	/	XP	/	ECO
Fluorescent	85 CRI	3500K color temperature		Extra Performance		ECO = Ecologic
OCTRON						
72" MOL						

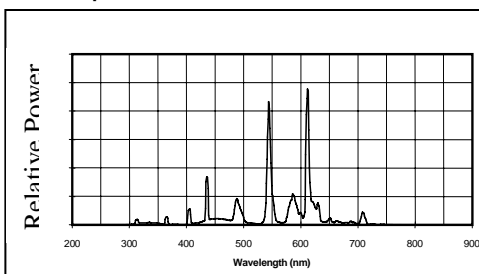
Dimensions



	(A) MOL	(B)	(C)	(D) Bulb Diameter
FO48/835/XP/ECO	Min. 45.74" Max. 46.00"	45.42" 45.65"	45.10" 45.30"	0.94" 1.10"
FO72/835/XP/ECO	Min. 69.74" Max. 70.00"	69.42" 69.65"	69.10" 69.30"	0.94" 1.10"

Technical Information

Spectral Power Distribution: 835



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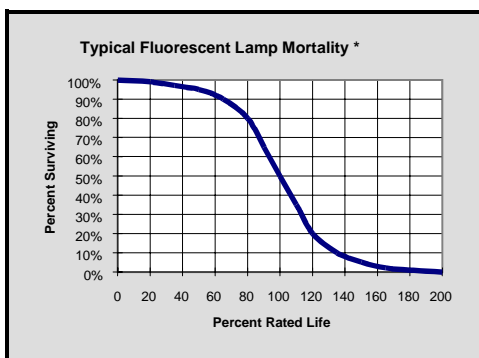
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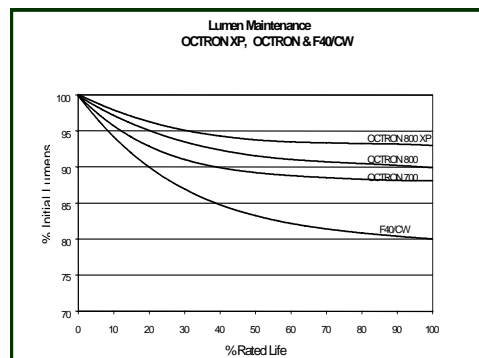
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Special Markets

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*Source: IES Lighting Handbook



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