

# OCTRON® FO48 and FO72 800 XP® ECOLOGIC®

## Fluorescent lamps

The OCTRON® four foot FP48/835XP/ECO and six foot FP72/835/XP ECOLOGIC® lamps are energy saving alternatives to magnetic F48T12 and F72T12 instant start systems.

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.

### Benefits and Features

- Extended Performance OCTRON 4' and 6' T8
- Designed to pass Federal TCLP<sup>1</sup> 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
- 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 temperature
- 85 CRI
- Single-pin / Fa8 Bases
- 48" and 72" MOL

### Application Usage

- Subway

### Ballast Information

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



### Product Offering

Wattage	Lamp Description	Initial Lumens
28*	F048/835/XP/ECO	2,850
44*	F072/835/XP/ECO	4,650

\*High frequency operation with Ballast Factor = 1.00

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 <sup>1,2</sup>.

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.



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

<b>F072</b>	<b>8</b>	<b>35</b>	<b>/</b>	<b>XP</b>	<b>/</b>	<b>ECO</b>
Fluorescent OCTRON F072 = 72" MOL F048 = 42" MOL	8 = 85 CRI	35 = 3500K CCT		XP = Extra Performance		ECO = ECOLOGIC

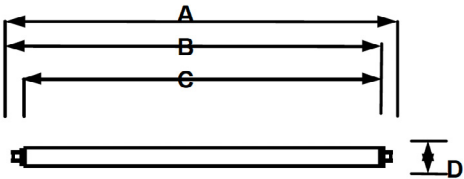
Ordering Information

Item Number	Ordering Abbreviation	Watt	Bulb	Base	MOL <sup>1</sup>	Avg. Rated Life (hrs.)	Initial Lumens	Mean Lumens @ 7200 hrs.	CCT	CRI	Case Qty.
21599	F048/835XP/ECO	28 <sup>2</sup>	T8	Single Pin	48"	18,000	2850	2679	3500	85	24
21598	F072/835XP/ECO	44 <sup>2</sup>	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

Lamp Dimensions

Lamp Description	(A) MOL	(B)	(C)	(D) Bulb Diamter
F048/835/XP/ECO	Min. 45.74"	4Min. 5.42"	Min.45.10"	Min. 0.94"
	Max 46.00"	Max 45.65"	Max 45.30"	Max1.10"
F072/835/XP/ECO	Min. 69.74"	Min. 69.42"	Min.69.10"	Min. 0.94"
	Max 70.00"	Max 69.65"	Max 69.30"	Max 1.10"

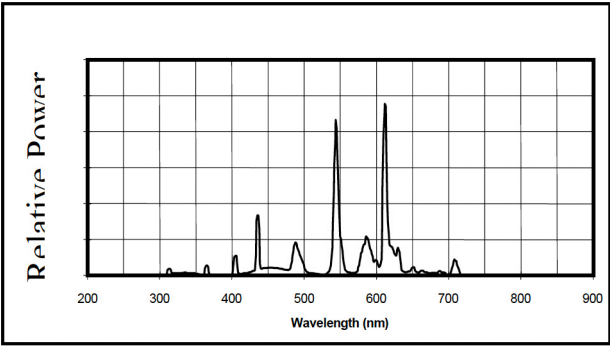


System Comparison

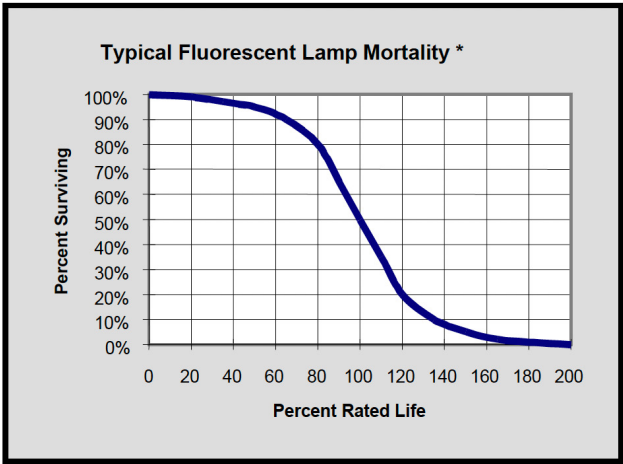
Lamp Type & Ballast	System Wattage	Ballast Factor	Lumens @ 4800 hours*	Relative Light Output	Energy \$ Savings**
OCTRON 800/XP/ECO with electronic instant start ballast vs T12 with magnetic instant start ballast					
F72T12/CW with e.s. magnetic	132	0.94	7191	100%	0
F072/835XP/ECO	83	0.88	7857	109%	\$42.92
F48T12/CW with magnetic ballast	107	0.98	4700	100%	0
F048/835XP/ECO	55	0.9	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.

Spectral Power Distribution: 835

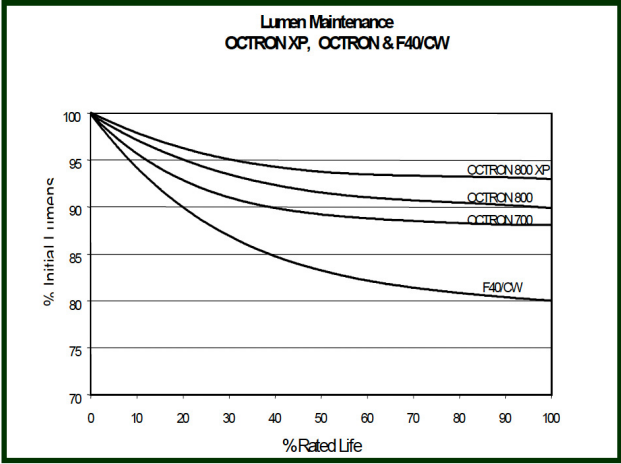


Typical Fluorescent Lamp Mortality \*



\*Source: IES Lighting Handbook

Lumen Maintenance  
OCTRON XP, OCTRON & F40/CW



Sample Specification

Lamp(s) shall be OCTRON FO48/XP™ or FP72XP™ ECOLOGIC® T8 single-pin lamp(s) with an average rated life of 18,000 hours at 3 hours per start. Lamp(s) shall have a CRI of 85 and a color temperature of 3500K.

Application Notes

- 1. Use the same single-pin lamp sockets as the F48T12 and F72T12 instant start lamps.

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