

# OCTRON® 800 XP® ECOLOGIC®3 EXtended Performance Fluorescent Lamps



The SYLVANIA OCTRON 800 XP ECOLOGIC fluorescent lamps provide 20% longer life or more, higher initial and maintained lumens, improved color rendition and longer re-lamp periods compared to conventional T8 lamps. Because of their longer life, OSRAM SYLVANIA offers an improved system warranty with the use of OCTRON 800 XP ECOLOGIC lamps on our QUICKTRONIC® electronic ballasts. (See QUICK 60+® warranty on page 4.)

OCTRON 800 XP ECOLOGIC lamps operate on the same ballasts as OCTRON T8 lamps. OCTRON lamps are designed to operate on instant start and programmed rapid start ballasts. These ballasts include standard, high and low power models thus offering the choice to maximize light output or energy savings.

## Application Information

Applications	Application Notes
Office	1. Lamps starting down to 0°F (dependent on ballast)
Schools	2. Operation below 50°F may affect lumen output or lamp operation.
Retail	
General Lighting	3. For cold temperature applications, use in enclosed fixture or use tube guard to maximize lamp performance. 4. For rapid start operation, check with ballast manufacturer for ground plane requirement. 5. For maximum energy savings, operate on high efficiency electronic instant start ballast. 6. These lamps may help facilitate compliance with national energy codes such as ASHRAE/IES 90.1 or IECC and state energy codes such as California Title 24. For more information contact your local building inspection office.

## Key Features & Benefits

- All OCTRON 800 XP lamps are members of the SYLVANIA ECOLOGIC3 family of lamps
- Average rated life of 36,000 hours
  - Maintains 95% lumens at 8000 hrs.
  - 94% at 9600 hrs., 93% at 12,000 hrs.
  - Improved CRI – 85
  - Available in 2700K, 3000K, 3500K, 4100K & 5000K
  - 17W, 25W, 32W & 40W
- Compatible with QUICKTRONIC electronic, high frequency ballasts
- Extend re-lamp cycles
- Options
  - Higher light levels
  - Use fewer fixtures
  - Use low-power ballast
  - Use fewer lamps with high power ballast

SYLVANIA OCTRON 800 XP ECOLOGIC3 fluorescent lamps are designed to satisfy the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.\*

ECOLOGIC3 represents a more comprehensive approach to sustainability encompassing high efficiency, long life and RoHS/TCLP compliance.

\*Regulations may vary. Check your local and state regulations.



## Product Offering

LampType	Initial Lumens	Average Rated Life (hrs)*
F017/827XP/EC03	1375	36,000
F017/830XP/EC03	1375	36,000
F017/835XP/EC03	1375	36,000
F017/841XP/EC03	1375	36,000
F017/850XP/EC03	1375	36,000
F025/827XP/EC03	2175	36,000
F025/830XP/EC03	2175	36,000
F025/835XP/EC03	2175	36,000
F025/841XP/EC03	2175	36,000
F025/850XP/EC03	2175	36,000
F032/827XP/EC03	3000	36,000
F032/830XP/EC03	3000	36,000
F032/835XP/EC03	3000	36,000
F032/841XP/EC03	3000	36,000
F032/850XP/EC03	2850	36,000
F040/830XP/EC03	3750	36,000
F040/835XP/EC03	3750	36,000
F040/841XP/EC03	3750	36,000

\* Based on 3hrs/start on programmed rapid start ballast



## Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	Date

## Ordering Information

### OCTRON 800 XP ECOLOGIC3 SERIES LINEAR T8 FLUORESCENT LAMPS, (85 CRI, MEDIUM BI-PIN BASE)

Item Number	Ordering Abbreviation	Nominal Length (in)	Average Rated Life (Hours)*	Initial Lumens	Mean Lumens @8000 hrs.	Mean Lumens @14,400 hrs.	Color Temp.	CRI
21587	F017/827XP/EC03	24	36,000	1375	1305	1295	2700K	85
21785	F017/830XP/EC03	24	36,000	1375	1305	1295	3000K	85
21778	F017/835XP/EC03	24	36,000	1375	1305	1295	3500K	85
21907	F017/841XP/EC03	24	36,000	1375	1305	1295	4100K	85
22193	F017/850XP/EC03	24	36,000	1375	1305	1295	5000K	85
21586	F025/827XP/EC03	36	36,000	2175	2065	2045	2700K	85
21910	F025/830XP/EC03	36	36,000	2175	2065	2045	3000K	85
21776	F025/835XP/EC03	36	36,000	2175	2065	2045	3500K	85
21774	F025/841XP/EC03	36	36,000	2175	2065	2045	4100K	85
22194	F025/850XP/EC03	36	36,000	2175	2065	2045	5000K	85
22039	F032/827XP/EC03	48	36,000	3000	2850	2820	2700K	85
21759	F032/830XP/EC03	48	36,000	3000	2850	2820	3000K	85
21763	F032/835XP/EC03	48	36,000	3000	2850	2820	3500K	85
21767	F032/841XP/EC03	48	36,000	3000	2850	2820	4100K	85
22026	F032/850XP/EC03	48	36,000	2850	2710	2680	5000K	85
21912	F040/830XP/EC03	60	36,000	3750	3560	3525	3000K	85
21911	F040/835XP/EC03	60	36,000	3750	3560	3525	3500K	85
21916	F040/841XP/EC03	60	36,000	3750	3560	3525	4100K	85

\* Based on 3 hours per start on rapid or programmed rapid start ballasts. At 12 hours per start, life is expected to be 42,000 hours. Average rated life on instant start ballasts is 24,000 hours at 3 hours per start and 36,000 hours at 12 hours per start.

## Ordering Guide

<b>FO</b>	<b>32</b>	<b>/</b>	<b>835</b>	<b>XP</b>	<b>/</b>	<b>EC03</b>
Fluorescent OCTRON	Wattage: 17, 25, 32 or 40 watts		8=85 CRI 27=2700K, 30=3000K 35=3500K, 41=4100K 50=5000K	EXtended Performance		ECOLOGIC3

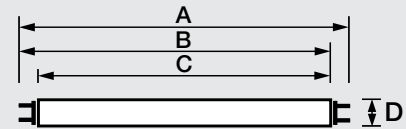
## System Comparison

Lamp Type	Lamp Lumens	# Lamps	Ballast	System Watts @ 277V	System Lumens	System Lumens @8000 hrs	Relative Lumens	% Energy Savings
F032/700/ECO	2800	3	QHE3x32ISN	82	7560	6800	100%	-
F032/800/ECO	2950	3	QHE3x32ISN	82	7965	7330	108%	0%
F032/800XP/EC03	3000	3	QHE3x32ISN	82	8100	7695	113%	0%
F032/800XP/EC03	3000	3	QHE3x32ISL	71	7020	6585	97%	13%
F032/800XP/EC03	3000	3	QHE3x32ISH	109	10,620	10,090	148%	-33%
F032/800XP/EC03	3000	2	QHE2x32ISH	73	7200	6840	101%	11%

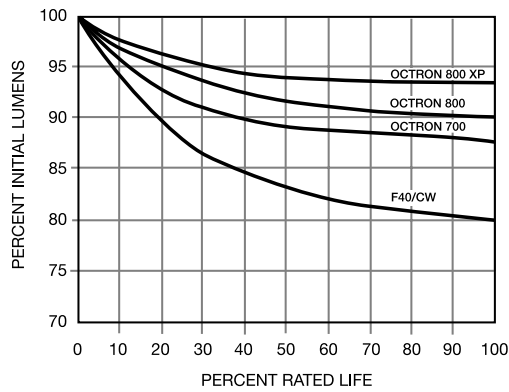
## Technical Information

### Dimensions

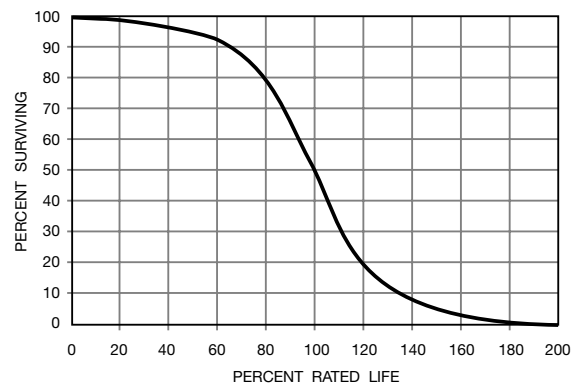
Lamp Type	(A) Max. Overall Length (in.)	(B) Base Face to Opposite Pin (in.)		(C) Max. Base Face to Base Face (in.)	(D) Max. Outside Diameter (in.)
		Min.	Max.		
F017	23.78	23.41	23.50	23.22	1.1
F025	35.78	35.40	35.50	35.22	1.1
F032	47.78	47.41	47.50	47.22	1.1
F040	59.61	59.24	59.33	59.05	1.1



**Lumen Maintenance**  
OCTRON XP, OCTRON & F40/CW



**Typical Fluorescent Lamp Mortality**



## Sample Specification

Lamp(s) shall be OCTRON 800XP ECOLOGIC3 lamp(s) (FO32/800XP/ECO3, FO17/800XP/ECO3, FO25/800XP/ECO3 or FO40/800XP/ECO3) having medium bi-pin bases. Lamp(s) shall be designed to pass the existing Federal TCLP test in force at time of manufacture. Lamp(s) shall have an average rated life of 36,000 hours, (3000, 1375, 2175, 3750) initial lumens, (2850, 1305, 2065, 3560) mean lumens at 8000 hours, a correlated color temperature of (2700K, 3000K, 3500K, 4100K or 5000K) and a CRI of 85. The OCTRON lamp(s) shall be operated on dedicated QUICKTRONIC ballasts with complete system warranty from the manufacturer covering lamp(s) and ballast(s).

## Warranty

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 ballasts are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

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