

# OCTRON® 800 XP® XL ECOLOGIC®3

## EXtended Performance EXtended Life Fluorescent Lamps



SYLVANIA OCTRON 800 XP XL ECOLOGIC3 lamps feature eXtended Life benefits of up to 75,000 hours life on instant start ballasts and 84,000 hours life on programmed rapid start ballasts. The life ratings reflect up to 88% longer life than T8 XP or XV lamps, which is the equivalent of an additional 8 years of maintenance-free lighting for typical operating cycles of 4,000 hours per year.

OCTRON 800 XP XL 32W lamps deliver 14% more light than standard 700 series T8 lamp on normal ballast factor, instant start electronic ballasts. OCTRON 800 XP XL SUPERSAVER lamps provide up to 22% energy savings over standard 32 watt OCTRON lamps. Combining these lamps with OSRAM QUICKTRONIC high efficiency instant start, low power ballasts will result in up to 42% energy savings over energy saving T12 magnetically ballasted fluorescent systems. Pair with OSRAM QUICKTRONIC electronic ballast for the industry's first and most comprehensive QUICK 60+® System Warranty or our QUICK 7XL+™ warranty that covers up to seven years on SUPERSAVER lamps with OSRAM QUICKTRONIC electronic PROStart, DIM or DALI ballasts.

### Application Information

#### Applications

- Education
- Healthcare
- Industrial
- Office
- Retail

#### Application Notes

1. SUPERSAVER (SS) lamps are recommended to be used on T8 F32 Instant or Programmed Rapid Start ballasts with minimum open circuit voltage of 550V RMS at the lamp.
  - a. Electronically ballasted fixture configurations which operate lamps remotely, such as Master/Satellite applications, can cause reduction of lamp open circuit voltage, in the remote fixture, below the minimum required for reliable lamp starting. For more information, please call 1-800-LIGHTBULB and ask for Ballast Technical Assistance or call your fixture manufacturer.
  - b. Not recommended to be used: (1) in remotely ballasted fixtures with lamp open circuit voltages below 550V, (2) in air handling fixtures, (3) inverter operated emergency lighting systems unless any of the above equipment is specifically listed for SUPERSAVER (SS) lamps. Any of the above situations could result in lamp starting and stabilization problems, or system compatibility issues.
2. If a 28W, 21W or 15W SUPERSAVER lamp is exposed to drafts and/or the ambient temperature falls below 60°F (70°F for 25W lamp), striation (a rhythmic pulsing pattern of light running down the tube) and/or reduction in lamp brightness may occur. While visually disconcerting, neither behavior is damaging to the lamp and removing the cause (draft or temperature) will return the lamp to normal operation.
3. Fixture must conform to latest version of the ANSI C78.81 requirements for luminaire design.
4. Contact SYLVANIA sales rep for approved dimming ballasts.

### Key Features & Benefits

- Available in full wattage (32W) and reduced wattage SUPERSAVER® types
- Energy savings compared to standard 32W T8 lamp
  - Up to 12.5% with the 28W XP/XL/SS
  - Up to 22% with the 25W XP/XL/SS
- Up to 96% mean lumens
- Dimmable (see application note 4)
- Lead-free and RoHS compliant
- Assembled in USA
- Retrofit lamp for existing T8 instant start systems
  - Up to 75,000 hours average life @ 12 hours per start
- Operate 800 XP XL SUPERSAVER lamps on OSRAM QUICKTRONIC® PROStart® programmed rapid start ballasts
  - 84,000 hours average life @ 12 hours per start
- SUPERSAVER 25W and 28W types meet CEE specifications for T8 replacement lamps

Note: Complementary 2 & 3ft XP/XL/SS lamps enable synchronization of re-lamp cycles.

SYLVANIA OCTRON T8 ECOLOGIC3 fluorescent lamps pass the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states<sup>1</sup>.

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

Complies with European Union Restriction of Hazardous Substances Directive (Directive 2002/95/EC)

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 Offering

Lamp Type	Wattage	CCT
<b>OCTRON 800 XP XL</b>		
F032/800/XP/XL/ECO3	32	3500K, 4100K & 5000K
<b>OCTRON 800 XP XL SUPERSAVER</b>		
F028/800/XP/XL/SS/ECO3	28	3000K, 3500K, 4100K & 5000K
F032/25W/800/XP/XL/SS/ECO3	25	3000K, 3500K & 4100K
F025/21W/800/XP/XL/SS/ECO3	21	3000K, 3500K & 4100K
F017/15W/800/XP/XL/SS/ECO3	15	3000K, 3500K & 4100K



## Specification Data

Catalog #	Type
Project/Job	
SYLVANIA Lamp	
OSRAM Ballast	
Prepared by	

## Ordering Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Initial Lumens	Mean Lumens <sup>1</sup>	lm/W	Avg. Rated Life Instant Start		Avg. Rated Life Programmed Rapid Start		CCT	CRI
								3 hrs/ start	12 hrs/ start	3 hrs/ start	12 hrs/ start		
<b>4 foot</b>													
21576	F032/835/XP/XL/ECO3	32	T8	Med Bi-Pin	2950	2830	92	36,000	52,000	65,000	67,000	3500K	85
21577	F032/841/XP/XL/ECO3	32	T8	Med Bi-Pin	2950	2830	92	36,000	52,000	65,000	67,000	4100K	85
22002	F032/850/XP/XL/ECO3	32	T8	Med Bi-Pin	2950	2830	92	36,000	52,000	65,000	67,000	5000K	81
21528	F028/830/XP/XL/SS/ECO3	28	T8	Med Bi-Pin	2600	2470	93	50,000	75,000	80,000	84,000	3000K	85
22166	F028/835/XP/XL/SS/ECO3	28	T8	Med Bi-Pin	2600	2470	93	50,000	75,000	80,000	84,000	3500K	85
22167	F028/841/XP/XL/SS/ECO3	28	T8	Med Bi-Pin	2600	2470	93	50,000	75,000	80,000	84,000	4100K	85
22326	F028/850/XP/XL/SS/ECO3	28	T8	Med Bi-Pin	2600	2470	93	50,000	75,000	80,000	84,000	5000K	81
22349	F032/25W/830/XP/XL/SS/ECO3	25	T8	Med Bi-Pin	2400	2280	96	50,000	75,000	80,000	84,000	3000K	85
22222	F032/25W/835/XP/XL/SS/ECO3	25	T8	Med Bi-Pin	2400	2280	96	50,000	75,000	80,000	84,000	3500K	85
22223	F032/25W/841/XP/XL/SS/ECO3	25	T8	Med Bi-Pin	2400	2280	96	50,000	75,000	80,000	84,000	4100K	85
<b>3 foot</b>													
22493	F025/21W/830/XP/XL/SS/ECO3	21	T8	Med Bi Pin	1850	1760	88	45,000	75,000	80,000	84,000	3000K	85
22494	F025/21W/835/XP/XL/SS/ECO3	21	T8	Med Bi Pin	1850	1760	88	45,000	75,000	80,000	84,000	3500K	85
22495	F025/21W/841/XP/XL/SS/ECO3	21	T8	Med Bi Pin	1850	1760	88	45,000	75,000	80,000	84,000	4100K	85
<b>2 foot</b>													
22490	F017/15W/830/XP/XL/SS/ECO3	15	T8	Med Bi Pin	1150	1095	77	45,000	75,000	80,000	84,000	3000K	85
22491	F017/15W/835/XP/XL/SS/ECO3	15	T8	Med Bi Pin	1150	1095	77	45,000	75,000	80,000	84,000	3500K	85
22492	F017/15W/841/XP/XL/SS/ECO3	15	T8	Med Bi Pin	1150	1095	77	45,000	75,000	80,000	84,000	4100K	85

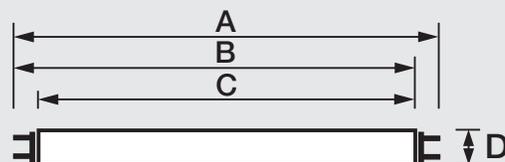
1. Measured at 40% of rated life.

## Ordering Guide

FO	28	/	8	41	XP/XL	/	SS	/	ECO3
Fluorescent OCTRON®	Wattage 15, 21, 25, 28, 32		CRI ≥ 81	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	EXtended Performance EXtended Life		SUPERSAVER®		ECOLOGIC3

## Lamp Dimensions

	(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.)
F032, F028, F032/25W	47.78"	Min. 47.41" Max. 47.50"	47.22"	1.1"
F017	23.78"	Min. 23.41" Max. 23.50"	23.22"	1.1"
F025	35.78"	Min. 35.40" Max. 35.50"	35.22"	1.1"



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## Sample Specification

Lamp(s) shall be OCTRON® XP® XL (32W, SUPERSAVER® XL 28W, 25W, 21W and 15W) ECOLOGIC®3 4-foot, 3-foot or 2-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 (36,000 -67,000 hrs on 32W, 50,000 -84,000 hrs on 28W and 25W and 45,000 -84,000 hrs on 21W and 15W) at 3 hours per start when operated on T8 (instant start, programmed start ballasts), (2950, 2600, 2400, 1850, 1150) initial lumens, 96% lumen maintenance on the 32W and 95% lumen maintenance on the 28W, 25W, 21W and 15W, a correlated color temperature of (3000K, 3500K, 4100K, 5000K) and a CRI of (85, 81). The OCTRON ECOLOGIC3 lamp(s) shall be operated on OSRAM QUICKTRONIC® electronic, high frequency ballasts with complete system warranty covering lamps and ballast.

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## Related Literature

**For maximum energy savings consider pairing with the following electronic ballasts:**

OSRAM Ballast Technology Applications & Specification Guide (Literature Code: ECS-SPECGUIDE2013)

QUICK 60+ System Warranty (Literature Code: ECS140)

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