

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 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 QUICKTRONIC electronic ballast for the industry's first and most comprehensive QUICK 60+® System Warranty.

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
- Made 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 SYLVANIA's QUICKTRONIC® PROStart® programmed rapid start ballasts
 - 84,000 hours average life @ 12 hours per start



SYLVANIA OCTRON T8 ECOLOGIC3 fluorescent lamps pass 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.

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
OCTRON 800 XP XL		
F032/800/XP/XL/ECO3	32	3500K, 4100K & 5000K
OCTRON 800 XP XL SUPERSAVER		
F028/800XP/XL/SS/ECO3	28	3000K, 3500K, 4100K & 5000K
F032/25W/800/XP/XL/SS/ECO3	25	3500K & 4100K

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) on low power factor ballasts or (4) 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 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 ANSI C78.81 – 2005 requirements for luminaire design.
4. Contact OSRAM SYLVANIA for approved dimming ballasts.

Sample Specification

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

Ordering Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Initial Lumens	Mean Lumens ¹	lm/W	Avg. Rated Life				CCT	CRI
								Instant Start 3 hrs/ start	Instant Start 12 hrs start	Programmed Rapid Start 3 hrs/ start	Programmed Rapid Start 12 hrs/ start		
21576	F032/835/XP/XL/EC03	32	T8	Med Bi-Pin	2950	2830	92	36,000	52,000	65,000	67,000	3500K	85
21577	F032/841/XP/XL/EC03	32	T8	Med Bi-Pin	2950	2830	92	36,000	52,000	65,000	67,000	4100K	85
22002	F032/850/XP/XL/EC03	32	T8	Med Bi-Pin	2950	2830	92	36,000	52,000	65,000	67,000	5000K	81
22166	F028/835/XP/XL/SS/EC03	28	T8	Med Bi-Pin	2600	2470	93	50,000	75,000	80,000	84,000	3500K	85
22167	F028/841/XP/XL/SS/EC03	28	T8	Med Bi-Pin	2600	2470	93	50,000	75,000	80,000	84,000	4100K	85
22326	F028/850/XP/XL/SS/EC03	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/EC03	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/EC03	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/EC03	25	T8	Med Bi-Pin	2400	2280	96	50,000	75,000	80,000	84,000	4100K	85

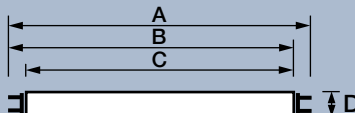
1. Measured at 40% of rated life.

Ordering Guide

FO	28	/	8	41	XP/XL	/	SS	/	EC03
Fluorescent OCTRON	Wattage 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. 47.5"	47.22"	1.1"



Related Literature

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

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

QUICKTRONIC® High Efficiency NEMA Premium Guide (Literature Code: ECS112)

QUICK 60+ System Warranty (Literature Code: ECS140)

[/sylvania](#) [/sylvania](#)

SYLVANIA, ECOLOGIC, OCTRON, PROStart, QUICK 60+, SUPERSAVER and XP are registered trademarks of OSRAM SYLVANIA Inc. SEE THE WORLD IN A NEW LIGHT is a registered trademark of OSRAM SYLVANIA Inc. QUICKTRONIC is a registered trademark of OSRAM GmbH. Specifications subject to change without notice.