

OCTRON® 800 XV® & XV SUPERSAVER® ECOLOGIC®

Extended Value Fluorescent Lamps

OCTRON 800 XV ECOLOGIC T8 fluorescent lamps meet today's lighting needs of high efficiency, long life and superior color rendition. With high initial lumens, mean lumens of 94 percent and an average rated life of up to 42,000 hours, these lamps ensure light levels will be maintained for a very long time. A color rendering index (CRI) of up to 83 supports applications where lighting color quality is important. The lamps are available in 4-foot full wattage and SUPERSAVER energy saving options. Engineered with optimized phosphor coatings, these lamps deliver specification grade performance and value to satisfy the most demanding general lighting applications.

Benefits and Features

- Specification quality lamps with optimized phosphor blends
- Up to 96% lumens of premium F32T8 lamps
- 94% mean lumens
- Energy saving opportunities with OCTRON XV SUPERSAVER lamps. 28W XV/SS saves up to 12.5% versus full wattage lamps.
- Longer life than Vivid and 800 series lamps.
- Dimmable* (see Application Note 4)

Application Information

- Cove
- Direct/indirect luminaires
- Recessed troffers
- Valance



Product Offering

Lamp Type	Wattage	CCT
FO28/800/XV/SS/ECO	28	3500K, 4100K, 5000K
FO32/800/XV/ECO	32	3500K, 4100K, 5000K

ECOLOGIC® is a comprehensive program focused on addressing environmental issues at all stages of lamp life.

SYLVANIA OCTRON ECOLOGIC T8 fluorescent lamps pass the Federal Toxic Characteristic Leaching Procedure (TCLP)¹ criteria for classification as non-hazardous waste in most states.²

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.
3. Comply with European Union Restriction of Hazardous Substances Directive (Directive 2002/95/EC)



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

F0	28	/	8	35	/	XV	/	SS	/	ECO
Fluorescent OCTRON®	Actual Wattage 28 or 32 Watts		Actual CRI 83 or 81	Color Temperature 35 = 3500K CCT 41 = 4100K CCT 50 = 5000K CCT		XV=Extended Value		SUPERSAVER		ECOLOGIC®

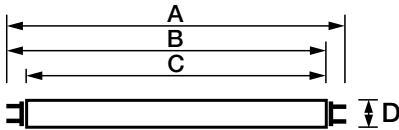
Ordering Information

Ordering Information							Average Rated Life					
							Instant Start		Prog. Rapid Start			
Item Number	Ordering Abbreviation	Wattage	Length	Initial Lumens	Mean Lumens	Lumens per Watt	3 hrs/ start	12 hrs/ start	3 hrs/ start	12 hrs/ start	CCT	CRI
21420	F028/835/XV/SS/ECO	28	48	2600	2445	93	24,000	40,000	40,000	42,000	3500K	83
21421	F028/841/XV/SS/ECO	28	48	2600	2445	93	24,000	40,000	40,000	42,000	4100K	83
21422	F028/850/XV/SS/ECO	28	48	2600	2445	93	24,000	40,000	40,000	42,000	5000K	81
20066	F032/835/XV/ECO	32	48	2900	2725	91	24,000	40,000	40,000	42,000	3500K	83
20067	F032/841/XV/ECO	32	48	2900	2725	91	24,000	40,000	40,000	42,000	4100K	83
20068	F032/850/XV/ECO	32	48	2900	2725	91	24,000	40,000	40,000	42,000	5000K	81

1. Measured at 40% of rated life.

Lamp 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.)
FO32 FO28	47.78	Min. 47.41 Max. 47.50	47.22	1.1



Sample Specification

Lamp shall be OCTRON® 800 XV® or OCTRON 800 XV SUPERSAVER® ECOLOGIC® (28W, 32W) lamp having medium bi-pin bases. Lamp shall be designed to pass the Federal TCLP test in force at the time of manufacture. Lamps shall have initial lumens of (2600, 2900), mean lumens of (2445, 2725) and a correlated color temperature of (3500, 4100 or 5000) Kelvin. Lamp shall have an average rated life of (24,000, 36,000, 40,000, 42,000) on (instant start, programmed rapid start) ballasts, 94% lumen maintenance at 40% of rated life and a CRI of 81 or 83. The OCTRON XV or OCTRON XV SUPERSAVER ECOLOGIC lamp shall be operated on electronic, high frequency ballasts.

Application Information

1. FO28 SUPERSAVER lamps are recommended to be used on F32T8 instant start ballast 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 SUPERSAVER lamp is exposed to drafts or the ambient temperature falls below 60°F, 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 the latest version of the ANSI C78.81 requirements for luminaire design.
4. Contact SYLVANIA sales rep for approved dimming ballasts.

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