

# OCTRON® 28W XP® SUPERSAVER® ECOLOGIC®3

## EXtended Performance Fluorescent Lamps



SYLVANIA OCTRON 28 Watt XP SUPERSAVER ECOLOGIC3 lamps operate on standard T8 instant start systems and provide 12.5% energy savings over standard 32 Watt OCTRON lamps. At 10¢/kWh and 4,000 hours of operation per year, the 12.5% savings translates to a savings of \$6.40 per fixture per year for a 4-lamp fixture with a normal ballast factor, instant start ballast. The 94% lumen maintenance of the OCTRON F028/800XP/SS/EC03 lamp assures that light levels are maintained while energy is saved. These lamps pass the Federal TCLP test, classifying them as non-hazardous waste in most states. Group re-lamp to realize the benefits of these OCTRON lamps in your facility.

### Key Features & Benefits

- 28 Watt, 4-foot, SUPERSAVER energy saving, T8 lamp
- 12.5% energy savings compared to standard 32W T8 lamp
- A member of the SYLVANIA ECOLOGIC3 family of lamps
- 2,725 initial lumens (850 is 2,600)
- 94% lumen maintenance at 40% of rated life
- 3000K, 3500K, 4100K & 5000K
- 85 CRI (850 is 80 CRI)
- Dimmable (see application note 4)
- Retrofit lamp for existing T8 instant start systems
  - 24,000 hours average rated life @ 3 hrs per start
  - 36,000 hours average rated life @ 12 hrs per start
- Approved on OSRAM SYLVANIA QUICK-TRONIC® PSX and PSN ballasts
  - 36,000 hours average rated life @ 3 hrs per start
  - 42,000 hours average rated life @ 12 hrs per start

SYLVANIA OCTRON T8 ECOLOGIC3 fluorescent lamps pass the Federal Toxicity Characteristic Leaching Procedure (TCLP<sup>1</sup>) criteria for classification as non-hazardous waste in most states.<sup>2</sup>

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

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.



This light source meets restrictions on hazardous substances.



### Product Offering

Lamp Type	Wattage	CCT	CRI
F028/830XP/SS/EC03	28	3000K	85
F028/835XP/SS/EC03	28	3500K	85
F028/841XP/SS/EC03	28	4100K	85
F028/850XP/SS/EC03	28	5000K	80

### Application Information

#### Applications

- Hospitals
- Industrial
- Office
- Retail
- Schools
- Many applications with T8 instant start ballasts currently using 32W T8 lamps

#### Fixtures

Contact your local fixture agent for available fixtures.

#### Application Notes

1. Recommended to be used on T8 F32 Instant or Programmed 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) with Rapid Start ballasts unless the lamp open circuit voltage is greater than 570V, (3) in air handling fixtures, (4) on low power factor ballasts or (5) inverter operated emergency lighting systems unless any of the above equipment is specifically listed for 28 watt lamps. Any of the above situations could result in lamp starting and stabilization problems or system compatibility issues.



## Specification Data

Fixture Description:	Type
Project/Job:	
SYLVANIA lamp:	
SYLVANIA ballast:	
Notes:	

## Ordering Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Initial Lumens	lm/W	Mean Lumens <sup>1</sup>	Avg. Rated Life (hrs.) <sup>2</sup>	CCT	CRI
22177	F028/830XP/SS/EC03	28	T8	Medium bi-pin	2,725	97	2,562	36,000	3000K	85
22178	F028/835XP/SS/EC03	28	T8	Medium bi-pin	2,725	97	2,562	36,000	3500K	85
22179	F028/841XP/SS/EC03	28	T8	Medium bi-pin	2,725	97	2,562	36,000	4100K	85
22184	F028/850XP/SS/EC03	28	T8	Medium bi-pin	2,600	93	2,444	36,000	5000K	80

1. Measured at 40% of rated life.

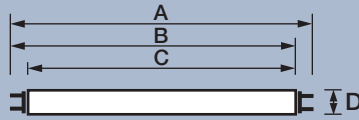
2. Based on 3 hours/start on programmed rapid start ballasts. At 12 hours/start, average rated life = 42,000 hours. On instant start ballasts, average rated life is 24,000 hours at 3 hours per start and 36,000 hours at 12 hours per start.

## Ordering Guide

F0	28	/	8	35	XP	/	SS	/	EC03
Fluorescent	Wattage		CRI ≥ 80	Color Temperature	EXtended		SUPERSAVER		ECOLOGIC3
OCTRON	28			30 = 3000K CCT 35 = 3500K CCT 41 = 4100K CCT 50 = 5000K CCT	Performance				

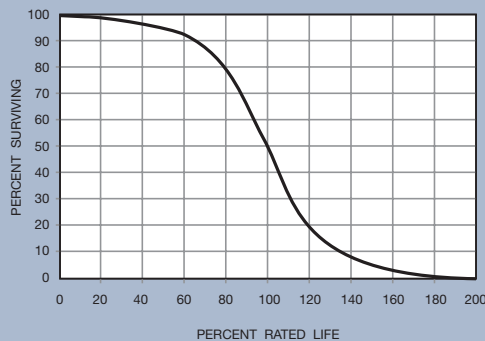
## Lamp Dimensions

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.)
F028	47.78"	Min. 47.41" Max. 47.50"	47.22"	1.1"

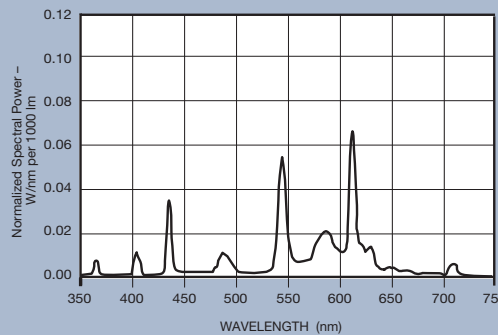


## Technical Information

### Typical Fluorescent Lamp Mortality



### OCTRON 830



## Application Information (continued)

### Application Notes

2. If an operating lamp is exposed to drafts and/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 ANSI C78.81 – 2005 requirements for luminaire design.
4. Contact OSRAM SYLVANIA for approved dimming ballasts.

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SEE THE WORLD IN A NEW LIGHT is a registered trademark of OSRAM SYLVANIA Inc.  
QUICKTRONIC is a registered trademark of OSRAM GmbH.

## Sample Specification

Lamp(s) shall be OCTRON® 28W XP® SUPER-SAVER® 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 24,000 hours at 3 hours per start when operated on T8 instant start ballasts, 2,725 initial lumens (2,600 for 5000K), 94% lumen maintenance at 40% of rated life, a correlated color temperature of (3000K, 3500K, 4100K or 5000K) and a CRI of (80, 85). The OCTRON SUPERSAVER ECOLOGIC3 lamp(s) shall be operated on QUICKTRONIC® electronic, high frequency ballasts with complete system warranty from the manufacturer covering lamps and ballast.

### Warranty Information

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

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