

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

EXtended Performance EXtended Life Fluorescent Lamps



SYLVANIA OCTRON 28 Watt XP XL 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. Changing from Cool White energy saving T12 lamps powered by energy saving magnetic ballasts to OCTRON F028W/800XP/XL/SS/EC03 lamps combined with QUICKTRONIC High Efficiency ISL ballasts could save \$24 a year with no light loss. These lamps pass the Federal TCLP test, classifying them as non-hazardous waste in most states. Group re-lamp to realize the true benefits of these OCTRON lamps in your facility.

Key Features & Benefits

- 12.5% energy savings compared to standard 32W T8 lamp
- 28 Watt, 4-foot, energy saving, T8 lamp
- A member of the SYLVANIA ECOLOGIC3 family of lamps
- 2,600 initial lumens
- 96% lumen maintenance at 40% of rated life
- Dimmable (see application note 4)
- 3500K, 4100K & 5000K
- 85 CRI (85 is 80 CRI)
- Retrofit lamp for existing T8 Instant Start systems
 - 36,000 hour average rated life @ 3 hours per start
- Also operates on SYLVANIA QUICKTRONIC® Programmed Rapid Start ballasts
 - 40,000 hour average rated life @ 3 hours per start

SYLVANIA OCTRON T8 ECOLOGIC3 fluorescent lamps pass the Federal Toxicity Characteristic Leaching Procedure (TCLP¹) criteria for classification as non-hazardous waste in most states².

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



This light source meets restrictions on hazardous substances.

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 | CRI |
|-----------------------|---------|-------|-----|
| F028/835XP/XL/SS/EC03 | 28 | 3500K | 85 |
| F028/841XP/XL/SS/EC03 | 28 | 4100K | 85 |
| F028/850XP/XL/SS/EC03 | 28 | 5000K | 80 |

Application Information

Applications

- Hospitals
- Industrial
- Office
- Retail
- Schools

Many applications with T8 instant start ballasts currently operating 32W T8 lamps

Fixtures

Contact your local fixture agent for available luminaires.

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.
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.

Specification Data

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

Ordering Information

| Item Number | Ordering Abbreviation | Watts | Bulb | Base | Initial Lumens | Mean Lumens ¹ | lm/W | Avg. Rated Life (hrs.) ² | CCT | CRI |
|-------------|-----------------------|-------|------|---------------|----------------|--------------------------|------|-------------------------------------|-------|-----|
| 22166 | F028/835XP/XL/SS/EC03 | 28 | T8 | Medium bi-pin | 2,600 | 2,496 | 93 | 40,000 | 3500K | 85 |
| 22167 | F028/841XP/XL/SS/EC03 | 28 | T8 | Medium bi-pin | 2,600 | 2,496 | 93 | 40,000 | 4100K | 85 |
| 22326 | F028/850XP/XL/SS/EC03 | 28 | T8 | Medium bi-pin | 2,600 | 2,496 | 93 | 40,000 | 5000K | 80 |

1. Measured at 40% of rated life.

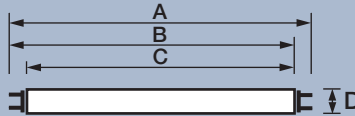
2. Based on 3 hours per start on programmed rapid start ballasts. 12 hours per start life is 46,000 hours. Life on instant start ballasts is 36,000 hours at 3 hours per start and 40,000 hours at 12 hours per start.

Ordering Guide

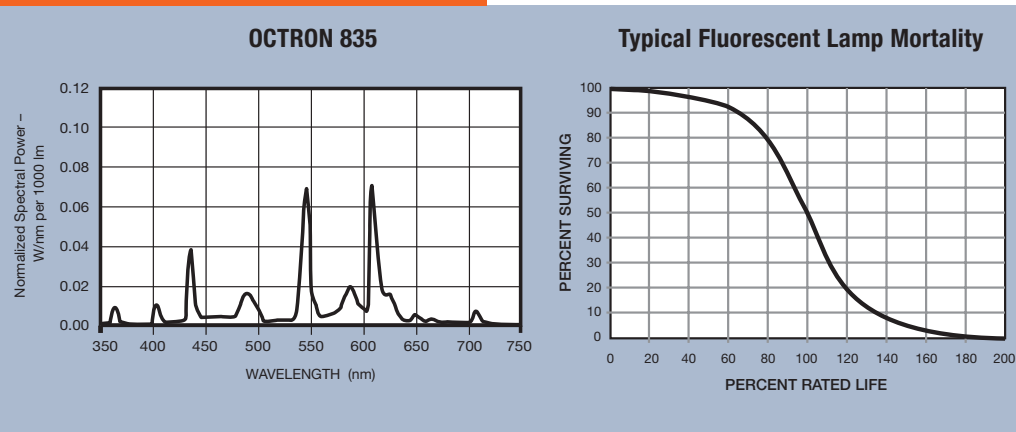
| FO | 28 | / | 8 | 41 | XP/XL | / | SS | / | EC03 |
|-----------------------|--------------|---|----------|--|---|---|------------|---|-----------|
| Fluorescent OCTRON | Wattage = 28 | | CRI ≥ 80 | Color Temperature 35 = 3500K 41 = 4100K 50 = 5000K | EXtended Performance EXtended Life | | SUPERSAVER | | 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.) |
|-------------------------------|-------------------------------------|---------------------------------------|---------------------------------|
| 47.78" | Min. 47.40" Max. 47.50" | 47.22" | 1.1" |



Technical Information



Sample Specification

Lamp(s) shall be OCTRON® 28W XP® XL 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 36,000 hours at 3 hours per start when operated on T8 instant start ballasts [40,000 hours on programmed start ballasts], 2,600 initial lumens, 96% lumen maintenance at 8,000 hours, a correlated color temperature of (3500K, 4100K, 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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