

# 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 or our QUICK 7XL+™ warranty that covers up to seven years on SUPERSAVER lamps with 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 C78.81-2010 requirements for luminaire design.
4. Contact OSRAM SYLVANIA 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 SYLVANIA QUICKTRONIC® PROstart® programmed rapid start ballasts
  - 84,000 hours average life @ 12 hours per start
- SUPERSAVER 25W and 28W types meet CEE reduced wattage T8 specifications

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 (TCLP1) 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                         |
|------------------------------------|---------|-----------------------------|
| <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        |



This light source meets restrictions on hazardous substances consistent with CA AB1109.



## Specification Data

|                  |      |
|------------------|------|
| Catalog #        | Type |
| Project/Job      |      |
| SYLVANIA Lamp    |      |
| SYLVANIA 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<br>OCTRON® | Wattage<br>15, 21, 25,<br>28, 32 |   | CRI ≥ 81 | Color<br>Temperature<br>30 = 3000K<br>35 = 3500K<br>41 = 4100K<br>50 = 5000K | EXtended<br>Performance<br>EXtended<br>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"<br>Max. 47.50"          | 47.22"                                | 1.1"                            |
| F017                 | 23.78"                        | Min. 23.41"<br>Max. 23.50"          | 23.22"                                | 1.1"                            |
| F025                 | 35.78"                        | Min. 35.40"<br>Max. 35.50"          | 35.22"                                | 1.1"                            |

