

OCTRON® FBO29 CURVALUME® XP® SUPERSAVER® ECO® Fluorescent Lamps



SYLVANIA 29 Watt OCTRON FBO29 CURVALUME XP SUPERSAVER ECOLOGIC lamps operate on standard T8 instant start systems and provide 6% energy savings over standard 31W OCTRON FBO31 CURVALUME lamps. At \$.10 per kWh and 4000 hours of operation per year, the 6% energy savings translates to a savings of \$1.80 per 3-lamp fixture per year using a normal ballast factor, instant start ballast. With 2775 initial lumen output and 94% lumen maintenance, the OCTRON FBO29 CURVALUME XP SUPERSAVER ECOLOGIC lamp delivers 6% higher mean system lumens and 20% longer lamp life in addition to the 6% energy savings compared to standard 800 Series OCTRON FBO31 lamps.

For new designs, consider QUICKTRONIC® QHE High Efficiency instant start ballasts to maximize energy savings or QUICKTRONIC PROStart ballasts for longest life and occupancy sensor compatibility.

When paired with the QUICKTRONIC High Efficiency ISH instant start ballasts, the system has 10% lower wattage, over 20% more light and as much as 73% longer life than the comparable compact fluorescent (FT40DL) systems.

These ECOLOGIC lamps pass the Federal TCLP test criteria for classification as non-hazardous waste in most states.

When paired with QUICKTRONIC high frequency electronic ballasts, they provide an energy efficient, environmentally friendly system for 2X2 luminaires.



- OCTRON 29W U-Shaped T8 SUPERSAVER energy saving lamps with 1 5/8" leg spacing
- Retrofit lamp for existing 1 5/8" U-Shaped T8 instant start systems
 - 6% energy savings compared to standard 31W U-Shaped T8 lamp on instant start ballasts
 - 18,000 hour average rated life @ 3 hours per start, 26,000 @ 12 hours per start
- Approved on OSRAM SYLVANIA QUICKTRONIC® Professional PROStart® PSX Ballast
 - Up to 16% energy savings vs. normal ballast factor, instant start ballasts
 - 24,000 hour average rated life @ 3 hours per start, 30,000 at 12 hours per start
- TCLP¹ Compliant
- Initial Lumens: 2775
 - 95% Lumen Maintenance at 8000 hours
 - 94% Lumen Maintenance at 9600 hours
- 3000K, 3500K & 4100K
- 85 CRI
- Minimum starting temperature: 60° F
- Not dimmable
- QUICK 60+® system warranty when operated by QUICKTRONIC ballasts

SYLVANIA OCTRON T8 ECOLOGIC fluorescent lamps are designed to pass the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states².



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 Availability

Lamp Type	Wattage	Color Temperature	CRI
FBO29/830XP/SS/ECO	29	3000K	85
FBO29/835XP/SS/ECO	29	3500K	85
FBO29/841XP/SS/ECO	29	4100K	85

Application Information

Applications

Offices	General Lighting
Schools	Hospitals
Retail	

Application Notes

1. Recommended to be used on T8 Instant Start circuit with minimum starting voltage of 550V RMS.
2. Not recommended to be used: (1) with Rapid Start circuits unless the open circuit voltage is greater than 550V, (2) at lamp ambient temperatures below 60° F or in drafty locations, (3) on low power factor ballasts, (4) dimming ballasts or (5) on inverter operated emergency lighting systems unless any of the above equipment is specifically listed for use with 29W T8 lamps. Any of the above situations could result in lamp starting and stabilization problems.
3. May be operated on QUICKTRONIC PSX ballasts as well, 24,000 hours average rated life at 3 hours per start.

Sample Specification

Lamp(s) shall be OCTRON®
 FBO29 CURVALUME XP®
 SUPERSAVER® ECOLOGIC®
 lamps with 1 5/8-inch leg spacing.
 Lamp(s) shall pass the Federal
 TCLP test criteria. Lamps(s) shall
 have a color temperature of
 (3000K, 3500K, or 4100K) and a
 CRI of 85. Lamp(s) shall have an
 average rated life of 18,000 hours
 when operated 3 hours per start
 on instant start, or 24,000 hours
 when operated 3 hours per start
 on QUICKTRONIC® Professional
 PROStart® electronic ballasts.
 Both lamp(s) and ballast(s) shall
 be covered by the QUICK 60+®
 warranty program.

Warranty Information

QUICK 60+ warranty for
 SYLVANIA lamp and ballast
 combinations. Limited 36 month
 lamp warranty and 5 year ballast
 warranty is available if both lamps
 and ballasts are provided by
 OSRAM SYLVANIA. See the
 QUICK 60+ warranty for details
 and restrictions.

System Comparison

Ordering Description	3 - Lamp Ballast	System Wattage	Ballast Factor	Initial System Lumens	Mean System Lumens	% Relative Mean Light Output	% Energy Savings	% Life¹
System Comparison 1								
FBO31/841/ECO	QT3X32/ISL	73	.77	6295	5791	100%	0%	100%
FBO29/841XP/SS/ECO	QT3X32/ISL	69	.77	6410	6090	106%	6%	108%
FBO29/841XP/SS/ECO	QTP3X32/PSX	68/66	.71	5910	5615	98%	6%/8%	125%
System Comparison 2								
FT40DL/841/ECO	QT3X40/DL	110	.96	9072	7802	100%	0%	100%
FT40DL/28W/841/SS	QT3X40/DL	103/102	1.10	9240	8224	105%	7%/9%	133%
FBO29/841XP/SS/ECO	QHE3X32/ISH	102/100	1.18	9824	9332	120%	9%/10%	173%

1. Life based on 12 hours per start

Ordering and Specification Information

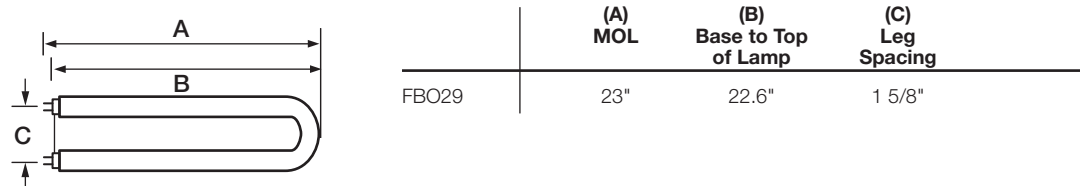
Item Number	Ordering Abbreviation	Watts	Bulb	Base	Leg Spacing	Avg. Rated Life (hrs)¹	Initial² Lumens	Mean³ Lumens	CCT	CRI
22195	FBO29/830XP/SS/ECO	29	T8	Medium bi-pin	1 5/8"	18,000	2775	2636	3000K	85
22196	FBO29/835XP/SS/ECO	29	T8	Medium bi-pin	1 5/8"	18,000	2775	2636	3500K	85
22197	FBO29/841XP/SS/ECO	29	T8	Medium bi-pin	1 5/8"	18,000	2775	2636	4100K	85

- Lamp Life based on operation at 3 hours per start on instant start ballast.
- Initial lumens measure at 100 hours of operation
- Mean lumens measured at 8,000 hours

Ordering Guide

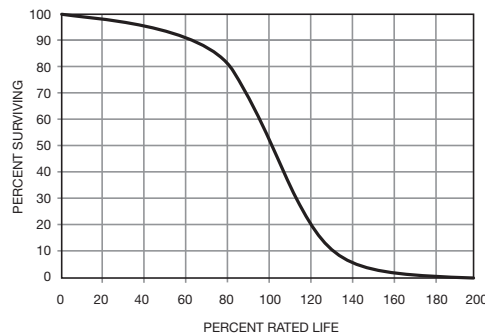
FBO	29	/	8	35	XP	/	SS	/	ECO
Fluorescent	Wattage:		CRI = 85	Color Temperature	EXtended		SUPERSAVER		ECOLOGIC
Bent	29 watts			30 = 3000K	Performance				
OCTRON				35 = 3500K					
				41 = 4100K					

Dimensions

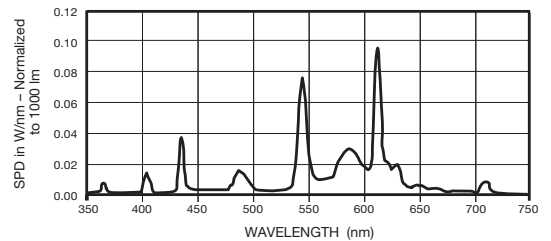


Technical Information

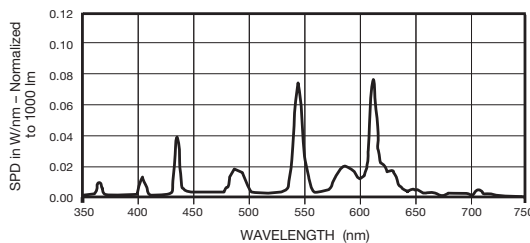
Typical Fluorescent Lamp Mortality



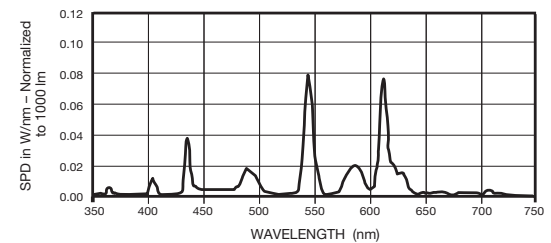
FBO29/830XP/SS/ECO



FBO29/835XP/SS/ECO



FBO29/841XP/SS/ECO



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