

# OCTRON® CURVALUME® XP™ ECO® Fluorescent Lamps



- **Extended Performance** OCTRON CURVALUME T8 ECO
- Average rated life — 24,000 hours on rapid start and programmed rapid start and 18,000 hours on instant start
  - 20% longer than conventional T8 lamps
  - Extend relamp cycles
- Higher initial lumens compared to conventional 800 Series T8
  - FBO32: 2900 vs 2850
  - FBO31: 2775 vs 2725
- 95% lumen maintenance at 8000 hours
  - Use fewer lamps or fewer fixtures
- High CRI — 85
- 1 5/8" (31W) & 6" (32W) leg spacing lamps
- 3000K, 3500K, 4100K
- Quick 60+® System Warranty available for lamps powered by QUICKTRONIC® or QUICKTRONIC PROFESSIONAL Instant Start, Rapid Start or Programmed Rapid Start Ballasts

SYLVANIA OCTRON CURVALUME XP ECO T8 Fluorescent lamps deliver 20% longer lamp life, higher initial and maintained lumens and a higher color rendering index than 700 or 800 series OCTRON lamps. These lamps pass the Federal TCLP test, classifying them as non-hazardous waste in most states. Because they are physically and electrically interchangeable with standard OCTRON CURVALUME lamps, a change to OCTRON CURVALUME XP ECO lamps will upgrade a lighting system.

Both FBO32XP lamps with 6 inch leg-spacing and FBO31XP lamps with 1 5/8 inch leg spacing are available in three color temperatures: 3000K, 3500K and 4100K. Pair them with OCTRON 800 XP linear lamps for color consistency throughout a facility.

OCTRON CURVALUME XP ECO T8 lamps are ideal for 2 x 2 troffers. When paired with QUICKTRONIC® or QUICKTRONIC Professional ballasts, the resulting systems are energy efficient and both lamps and ballasts are backed by the QUICK60+® warranty.

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



<sup>1</sup> TCLP test results are based on NEMA LL Series standards and are available on request.

<sup>2</sup> Lamp disposal regulations may vary; check your local & state regulations.

## Product Availability

Lamp Type	Leg Spacing
F031/830XP/ECO	1-5/8"
F031/835XP/ECO	1-5/8"
<b>F031/841XP/ECO</b>	<b>1-5/8"</b>
F032/830XP/6/ECO	6"
F032/835XP/6/ECO	6"
F032/841XP/6/ECO	6"

## Ordering and Specification Information

Item Number	Ordering Abbreviation	Leg Spacing (inches)	Watts	Initial Lumens	Mean Lumens <sup>1</sup>	Avg. Rated Life (hrs) <sup>2</sup>	Bulb	Nominal Length (inches)	Color Temp.	CRI
21693	FBO31/830XP/ECO	1-5/8"	31	2775	2636	24,000	T8	22.5	3000K	85
21695	FBO31/835XP/ECO	1-5/8"	31	2775	2636	24,000	T8	22.5	3500K	85
<b>21696</b>	<b>FBO31/841XP/ECO</b>	<b>1-5/8"</b>	<b>31</b>	<b>2775</b>	<b>2636</b>	<b>24,000</b>	<b>T8</b>	<b>22.5</b>	<b>4100K</b>	<b>85</b>
22054	FBO32/830XP/6/ECO	6"	32	2900	2755	24,000	T8	22.5	3000K	85
22055	FBO32/835XP/6/ECO	6"	32	2900	2755	24,000	T8	22.5	3500K	85
22057	FBO32/841XP/6/ECO	6"	32	2900	2755	24,000	T8	22.5	4100K	85

<sup>1</sup> Lumen maintenance: 95% at 8000 hrs., 94% at 9600 hrs.

<sup>2</sup> Based on 3 hrs/start on electronic programmed rapid ballast. 18,000 hour average rated life on instant start.

## Application Information

### Applications

All lighting applications where long life, high maintenance light levels and high CRI are required

- Office
- Schools
- Retail
- Signage
- Hospitals

### Application Notes

1. Lamp starting down to 0°F (dependent on ballast). Operation below 50°F may affect lumen output or lamp operation.
2. For cold temperature applications use in enclosed fixture.
3. For rapid start operation, check with ballast manufacturer for ground plane requirement.
4. For maximum energy savings, operate OCTRON lamps on QUICKTRONIC electronic instant ballasts or QUICKTRONIC programmed rapid start ballasts.
5. Programmed rapid start T8 ballasts will generally increase lamp life and occupancy sensors over instant or rapid start ballasts.

SEE THE WORLD IN A NEW LIGHT **SYLVANIA**



## Sample Specification

Lamps shall be OCTRON® CURVALUME® XP™ ECO® (FBO31 or FBO32) having medium bi-pin bases and (1 5/8", 6") leg spacing. Lamps shall pass the Federal TCLP test. Lamps shall have a correlated color temperature of (3000K, 3500K, 4100K) and a CRI of 85. The OCTRON lamps shall be operated on a dedicated QUICKTRONIC® or QUICKTRONIC PROFESSIONAL ballast with a complete system warranty from the manufacturer covering both lamps and ballasts.

## Warranty Information

### QUICK 60+® warranty for SYLVANIA lamp and ballast combination

Limited 36 month lamp warranty and a five year ballast warranty if both lamps and ballasts are provided by OSRAM SYLVANIA. See the latest revision of the QUICK 60+ warranty for details and restrictions.

## System Comparison

### 2' x 2' Fixture (Two Lamps)

Lamp Type	Ballast	Ballast Factor	System Wattage	Mean System Lumens <sup>1</sup>	Relative Light Output	System Power	Relative Life
FB40/CW/6/SS/ECO	E.S. Magnetic	0.88	72	3935	100%	100%	100%
FB40/D41/6/SS/ECO	E.S. Magnetic	0.88	72	4325	110%	100%	100%
FBO32/741/6/ECO	QT2X32/LP	0.77	51	3850	98%	71%	83%
FBO32/841XP/6/ECO	QT2X32/LP	0.77	51	4245	108%	71%	100%
FBO32/841XP/6/ECO	QT2X32	0.90	59	4960	126%	82%	100%
FBO32/841XP/6/ECO	QT2X32/PLUS	1.20	78	6610	168%	108%	100%
FBO32/841XP/6/ECO	QTP2X32/PSN	0.88	60	4850	123%	83%	133%
FBO32/841XP/6/ECO	QTP2X32/PSX	0.71	46	3910	99%	64%	133%

<sup>1</sup>Mean lumen information provided at 7200 hours to allow comparison with T12 lamps

### 2' X 2' Fixture, Three Lamps (1 5/8" OCTRON CURVALUME vs DULUX® L)

Lamp Type	Ballast	Ballast Factor	System Wattage	Mean System Lumens <sup>1</sup>	Relative Light Output	System Power	Relative Life
FT40/DL/841/RS	QT3X40DL (IS)	0.96	110	7800	100%	100%	100%
FT40/DL/841/RS	QTP3X40TT5 PSN	0.88	110	7150	92%	100%	133%
FBO31/841	QT3X32/LP	0.77	73	5790	74%	66%	100%
FBO31/841XP/ECO	QT3X32/LP	0.77	73	6090	78%	66%	120%
FBO31/841XP/ECO	QT3X32	0.90	84	7115	91%	76%	120%
FBO31/841XP/ECO	QT4X32	1.00	92	7910	101%	83%	120%
FBO31/841XP/ECO	QT3X32/PLUS	1.18	109	9330	120%	99%	120%
FBO31/841XP/ECO	QTP3X32/PSN <sup>2</sup>	0.88	81 <sup>2</sup>	6960	89%	74%	160%
FBO31/841XP/ECO	QTP3X32/PSX <sup>2</sup>	0.71	70 <sup>2</sup>	5615	72%	64%	160%

<sup>1</sup> Mean lumen information provided at 8000 hours

<sup>2</sup> For 277V input with 120V, PSN wattage is 84 and PSX is 72

## Ordering Guide

FBO	32	/	8	35	XP	/	6	/	ECO®
Fluorescent	Wattage:		8 = 85 CRI	30 = 3000K	EXtended		6 = 6 inch		ECOLOGIC®
Bent	31 or			35 = 3500K	Performance		or 1 5/8"		
OCTRON®	32 watts			41 = 4100K			leg spacing		
							if 1 5/8", not included		

OSRAM SYLVANIA  
National Customer  
Service and Sales Center  
18725 N. Union Street  
Westfield, IN 46074

### Industrial & Commercial

Phone: 1-800-255-5042  
Fax: 1-800-255-5043

### National Accounts

Phone: 1-800-562-4671  
Fax: 1-800-562-4674

### OEM/Specialty Markets

Phone: 1-800-762-7191  
Fax: 1-800-762-7192

### Photo-Optic

Phone: 1-888-677-2627  
Fax: 1-800-762-7192

OSRAM SYLVANIA  
Ballast Division  
800 N. Church Street  
Lake Zurich, IL 60047

Phone: 1-800-654-0089  
Fax: 1-847-726-6424

In Canada  
OSRAM SYLVANIA LTD.  
Headquarters  
2001 Drew Road  
Mississauga, ON L5S 1S4

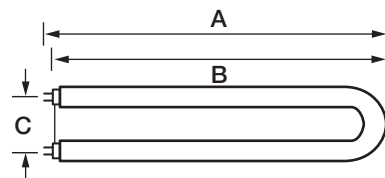
### Industrial & Commercial

Phone: 1-800-263-2852  
Fax: 1-800-667-6772

### Special Markets

Phone: 1-800-265-2852  
Fax: 1-800-667-6772

## Dimensions



Ordering Abbreviation	(A) Max. Overall Length (in)	(B) Max. Base to Top of Lamp (in)		(C) Leg Spacing Center to Center (in) (nominal)
		min.	max.	
FBO31	23	22.25	22.6	1.625
FBO32	23	22.25	22.6	6.0

## Technical Information

