

OCTRON® FB032 CURVALUME® ECOLOGIC® Fluorescent Lamps



SYLVANIA OCTRON FB032 CURVALUME ECOLOGIC lamps are designed to 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 FB032 700 Series CURVALUME ECOLOGIC lamps, with CRI of 75 and 20,000 hours average rated life, deliver T8 efficiency at a more affordable price.

OCTRON FB032 800 Series CURVALUME ECOLOGIC lamps with CRI of 82, 100 more lumens per lamp and improved lumen maintenance are suitable for areas where improved color and brightness are important.

OCTRON 800XP® **EX**tended **P**erformance CURVALUME ECOLOGIC lamps offer 20% longer lamp life, 85 CRI, and 150 more lumens compared to standard OCTRON CURVALUME lamps. The excellent lumen maintenance of the XP lamps assures high light levels over the life of the lamps.

Key Features & Benefits

- OCTRON 32W U-Shaped lamps with 6" leg spacing
- Designed to pass Federal TCLP¹ test
- OCTRON 700 and 800 Series lamps offer:
 - 20,000 hours average rated life on rapid or programmed rapid start
 - 15,000 hours average rated life on instant start
 - 700 Series – 75 CRI, 800 Series 82 CRI
- OCTRON XP® **EX**tended **P**erformance lamps offer:
 - 20% longer average rated lamp life
 - 24,000 hours on programmed rapid start
 - 18,000 hours on instant start
 - Higher initial and maintained lumens
 - Improved CRI: 85 CRI vs. 75 or 82
- QUICK 60+® system warranty when operated by QUICKTRONIC® ballasts

SYLVANIA OCTRON T8 ECOLOGIC fluorescent lamps are designed to pass the Federal Toxic Characteristic Leaching Procedure (TCLP)¹ 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 Family

Lamp	Color Temperature	CRI	Avg. Rated Life (hrs.)
FB032/730/6/ECO	3000K	75	20,000
FB032/735/6/ECO	3500K	75	20,000
FB032/741/6/ECO	4100K	75	20,000
FB032/750/6/ECO	5000K	75	20,000
FB032/830/6/ECO	3000K	82	20,000
FB032/835/6/ECO	3500K	82	20,000
FB032/841/6/ECO	4100K	82	20,000
FB032/830XP/6/ECO	3000K	85	24,000
FB032/835XP/6/ECO	3500K	85	24,000
FB032/841XP/6/ECO	4100K	85	24,000
FB032/850XP/6/ECO	5000K	85	24,000



Specification Data

Catalog #

Type

Project

Comments

Prepared by

Date

Ordering Information

FB032/700/6/ECOLOGIC – 75 CRI, 20,000 hours average rated life

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Leg Spacing	Avg. Rated Life (hrs.) ¹	Initial Lumens ²	Mean Lumens ³	CCT	CRI
22046	FB032/730/6/ECO	32	T8	Medium bi-pin	6"	20,000	2750	2475	3000K	75
22051	FB032/735/6/ECO	32	T8	Medium bi-pin	6"	20,000	2750	2475	3500K	75
22052	FB032/741/6/ECO	32	T8	Medium bi-pin	6"	20,000	2750	2475	4100K	75
22053	FB032/750/6/ECO	32	T8	Medium bi-pin	6"	20,000	2625	2363	5000K	75

FB032/800/6 ECOLOGIC – 82 CRI, 20,000 hours average rated life

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Leg Spacing	Avg. Rated Life (hrs.) ¹	Initial Lumens ²	Mean Lumens ³	CCT	CRI
21663	FB032/830/6/ECO	32	T8	Medium bi-pin	6"	20,000	2850	2622	3000K	82
21670	FB032/835/6/ECO	32	T8	Medium bi-pin	6"	20,000	2850	2622	3500K	82
21671	FB032/841/6/ECO	32	T8	Medium bi-pin	6"	20,000	2850	2622	4100K	82

FB032/800XP/6/ECOLOGIC – 85 CRI, 24,000 hours average rated life

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Leg Spacing	Avg. Rated Life (hrs.) ¹	Initial Lumens ²	Mean Lumens ³	CCT	CRI
22054	FB032/830XP/6/ECO	32	T8	Medium bi-pin	6"	24,000	2900	2755	3000K	85
22055	FB032/835XP/6/ECO	32	T8	Medium bi-pin	6"	24,000	2900	2755	3500K	85
22057	FB032/841XP/6/ECO	32	T8	Medium bi-pin	6"	24,000	2900	2755	4100K	85
22168	FB032/850XP/6/ECO	32	T8	Medium bi-pin	6"	24,000	2980	2830	5000K	85

1. Lamp Life base on operation at 3 hours per start on rapid start ballast. Lamp life on instant start ballast will be lower (15,000 hours for FB032700 and 800, and 18,000 hours for FB032/800XP).

2. Initial lumens measure at 100 hours of operation.

3. Mean lumens measured at 8000 hours, 40% of 20,000 hours.

4. Mean lumens measured at 8000 hours. Mean lumens at 40% of 24,000 hours (9600 hours) are 94% of initial lumens.

Ordering Guide

FBO	32	/	8	35	XP®	/	6	/	ECO
Fluorescent	Wattage:		8 = 82 or 85 CRI	35 = 3500K	EXtended		6" leg		ECOLOGIC
Bent	32 Watts		7= 75 CRI	30 = 3000K	Performance		spacing		
OCTRON				41 = 4100K					
				50 = 5000K					

Application Information

Applications

Retail
Offices
Schools
Hospitals
General Lighting
Wherever TCLP passing FB032 lamps are needed.

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

Contact your OSRAM SYLVANIA representative for a list of compatible electronic operating systems.

Application Notes

1. Lamp starting is dependent on ballast. Operation below 50°F may affect lumen output or lamp operation.
2. For cold temperature applications, use in enclosed luminaires to maximize lumen output.
3. For rapid start operation, check with ballast manufacturer for ground plane requirement.
4. Average rated life based on operation on rapid start ballast. If operated on instant ballasts for OCTRON lamps, lamp life will be reduced.
5. Actual lamp life dependent on ballast, switching cycle and hours of operation per start.

System Comparison

2' x 2' Luminaire with 2 lamps

Lamp Type	Ballast	System Wattage	Initial System Lumens	System Lumens @ 8000 Hrs.	Relative Light Output	Energy Savings
FB34/CW/6/SS	E.S. Magnetic	72	4576	3935	100%	-0-
FB34/D35/6/SS	E.S. Magnetic	72	4805	4324	110%	-0-
FB032/735/6/ECO	QHE2X32/ISL	48	4290	3861	98%	33%
FB032/835/6/ECO	QHE2X32/ISL	48	4446	4090	104%	33%
FB032/835XP/6/ECO	QHE2X32/ISL	48	4524	4298	109%	33%
FB032/835XP/6/ECO	QTPX32/PSX	46	4118	3912	99%	36%
FB032/835XP/6/ECO	QHE2X32/ISL	48	4524	4298	109%	33%
FB032/835XP/6/ECO	QHE2X32/ISN	55	5104	4849	123%	24%
FB032/835XP/6/ECO	QHE2X32/ISH	73	6960	6612	168%	-1%

E.S. Magnetic = Energy Saving magnetic rapid start

ISL = Instant Start, Low ballast factor (78%)

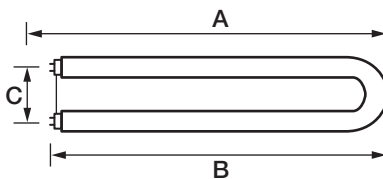
ISN = Instant Start, Normal ballast factor (88%)

ISH = Instant Start, High ballast factor (120%)

PSX = Programmed Start, Extremely low ballast factor (71%)

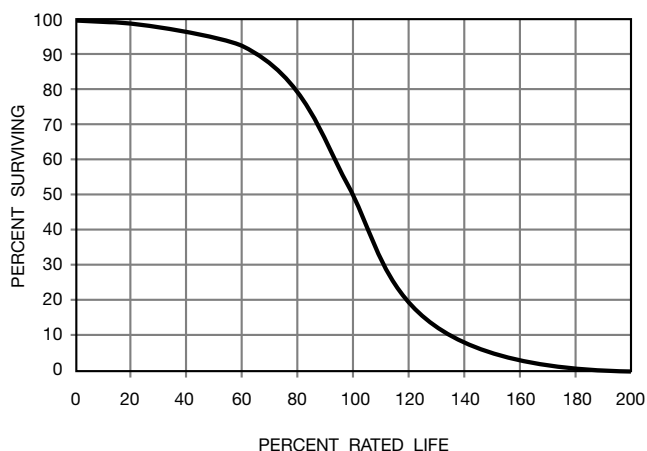
Dimensions

Lamp Type	(A) Maximum Overall Length (in.)	(B) Max. Base to Top of Lamp (in.)	(C) Leg Spacing Pin to Opposite Pin (in.)
FB032	23	22.6	6.0

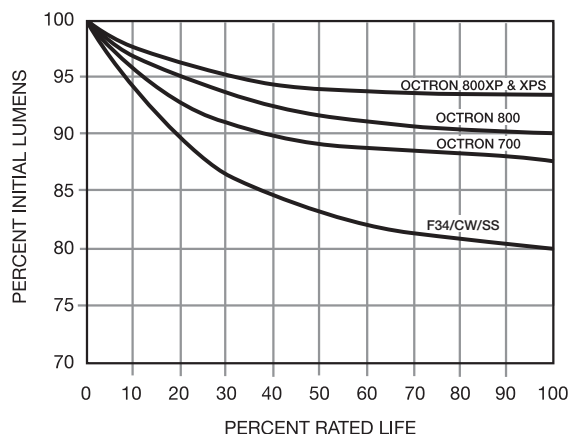


Technical Information

Typical Fluorescent Lamp Mortality



Lumen Maintenance OCTRON XP, OCTRON & F40/CW



Sample Specification

Lamp(s) shall be OCTRON FB032 CURVALUME ECOLOGIC lamps with 6-inch leg spacing. Lamps(s) shall be designed to pass the Federal TCLP test criteria. Lamp(s) shall have medium bi-pin bases. Lamp(s) shall have a color temperature of (3000K, 3500K, 4100K, or 5000K) and a CRI of (75, 82, or 85). Lamps shall have an average rated life of (15,000, 18,000, 20,000, or 24,000) hours when operated 3 hours/start on (instant start, rapid start, programmed rapid start or PSX) ballasts. Lamps shall be operated on QUICKTRONIC or QUICKTRONIC Professional 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 30 or 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.

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