

OCTRON® XPS® ECOLOGIC®

EXtended Performance Super Fluorescent Lamps



- Highest lumen 4-foot OCTRON T8 lamp
 - FO32/841XPS/ECO 3100 Initial lumens
 - FO32/835XPS/ECO 3100 Initial lumens
 - FO32/830XPS/ECO 3100 Initial lumens
- Also available in 2-foot (FO17) and 3-foot (FO25) sizes
- Longer lamp life than standard T8 lamps
 - 30,000 hour average rated life on QUICKTRONIC® Xtreme (PSX) ballast
- 95% Lumen Maintenance @ 8000 Hours
- Color Temperatures: 3000K, 3500K, 4100K
- 85 CRI
- ECOLOGIC – Pass Federal TCLP Limits¹
- Medium Bi-pin Base

¹Regulations may vary. Check your local and state regulations

ECOLOGIC is a comprehensive program of OSRAM SYLVANIA focused on addressing environmental issues at all stages of lamp life.



SYLVANIA's OCTRON FO32 EXtended Performance Super ECOLOGIC lamps deliver the highest lumen output of all 2, 3 and 4-foot OCTRON lamps and long lamp life. Their initial lumen output is as much as 11% higher than the OCTRON 700 series lamps, 5% higher than the OCTRON 800 Series lamps and 3% higher than the OCTRON 800 XP/ECO lamps.

Excellent lumen maintenance of 95%, a CRI of 85, three choices of color temperatures (3000K, 3500K and 4100K), long lamp life and high system efficacy make this lamp the optimum lamp for a wide variety of applications.

Product Availability

NAED	Description	Color	Initial Lumens	Mean Lumens
22150	FO17/830XPS/ECO	3000K	1400	1330
22151	FO17/835XPS/ECO	3500K	1400	1330
22152	FO17/841XPS/ECO	4100K	1400	1330
22153	FO25/830XPS/ECO	3000K	2200	2090
22154	FO25/835XPS/ECO	3500K	2200	2090
22155	FO25/841XPS/ECO	4100K	2200	2090
21680	FO32/830XPS/ECO	3000K	3100	2945
21697	FO32/835XPS/ECO	3500K	3100	2945
21681	FO32/841XPS/ECO	4100K	3100	2945

Application Information

Applications

Retail
Office
Schools
Hospitals
Industrial
Signage, graphics
General Lighting

Any application where energy efficiency, long lamp life, excellent lumen maintenance and high CRI are desired.

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

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

Application Notes

1. Minimum lamp starting temperature determined by ballast.
2. Operation below 50°F may affect lumen output or lamp operation.
3. For cold temperature applications, use in enclosed fixtures or use tube guards to maximize lamp performance.
4. Good ballast to socket to lamp contact essential for correct operation of system.
5. Actual lamp life dependent on ballast type, switching cycle and hours of operation per start.
6. FO17/800XPS/ECO and FO25/800XPS/ECO Average Rated Life:

	3 hrs./start	12 hrs./start
IS	18,000 hrs.	26,000 hrs.
PSN	24,000 hrs.	30,000 hrs.
PSX	30,000 hrs.	36,000 hrs.

Sample Specification

Lamp(s) shall be (a) OCTRON EXTENDED Performance Super XPS®/ECO 2-foot, 3-foot, or 4-foot lamp(s) having medium bi-pin bases. Lamps shall pass the existing Federal TCLP limits. Lamp(s) shall have an average rated life of 30,000 hours when operated on QUICKTRONIC PSX ballasts, a CRI of 85, 95% lumen maintenance at 8000 hours and a correlated color temperature of (3000K, 3500K, or 4100K). Lamps shall be operated on QUICKTRONIC ballasts with complete system warranty from the manufacturer covering 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 is possible if both lamps and ballasts are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

System Comparison

OCTRON 700 versus OCTRON 800XPS

Lamp Type	Initial Lamp Lumens	No. Lamps	Ballast¹	Ballast Factor	System Watts	System Lumens	Mean System Lumens	Relative Lumens @ 8000 Hrs.	LPW @ 8000 Hrs.	Average Rated Life (hrs.)²	% Life	% Energy Savings
F032/700/ECO	2800	3	3-lamp ISN	.88	87	7392	6653	100%	76	15,000	100%	–
F032/800XPS/ECO	3100	3	3-lamp ISN	.88	87	8184	7775	117%	89	24,000³	120%	0%
F032/800XPS/ECO	3100	3	3-lamp ISL	.77	76	7160	6803	102%	90	24,000³	120%	13%
F032/800XPS/ECO	3100	3	3-lamp ISH⁴	1.18	111	10974	10425	157%	94	24,000³	120%	–
F032/800XPS/ECO	3100	3	3-lamp PSN	.88	88	8184	7775	117%	88	30,000⁴	160%	0%
F032/800XPS/ECO	3100	3	3-lamp PSX	.71	71	6603	6273	94%	88	30,000⁴	200%	18%

¹ ISN = Instant Start Normal Ballast Factor, ISL = Instant Start Low Ballast Factor, ISH = Instant Start High Ballast Factor, PSN = Programmed Rapid Start Normal Ballast Factor, PSX = Programmed Rapid Start Xtreme

² Rating @ 3hrs/start. ³ 30,000 hrs. @ 12hrs/start. ⁴ 36,000 hrs. @ 12hrs/start. ⁵ Data for QTP version of ballast used.

Ordering and Specification Information

32 Watt¹, 4', T8, OCTRON ECOLOGIC lamps with medium bi-pin bases

Item Number	Ordering Abbreviation	CCT	CRI	Initial Lumens²	Mean Lumens³	IS	Average Rated Life⁴,⁵,⁶ RS or PRS	PSX
21680	F032/830XPS/ECO	3000K	85	3100	2945	24,000	30,000	30,000
21697	F032/835XPS/ECO	3500K	85	3100	2945	24,000	30,000	30,000
21681	F032/841XPS/ECO	4100K	85	3100	2945	24,000	30,000	30,000

- Actual lamp wattage determined by ballast.
- Measured at 100 hours of operation.
- 95% @ 8000 hours, 94% @ 9600 hours and 93% at 12,000 hours.
- Rapid start rating @ 3hrs/start.
- IS – Instant Start RS – Rapid Start PRS – Programmed Rapid Start PSX – Programmed Rapid Start XTREME
- F032/800XPS rated life @ 12 hours per start: IS – 30,000 hrs PRS–PSX: 36,000 hours

Ordering Guide

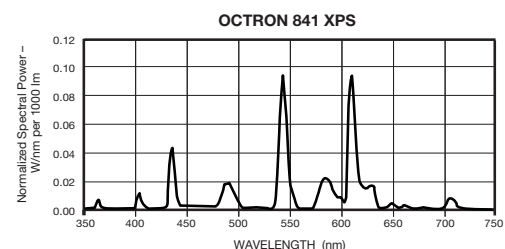
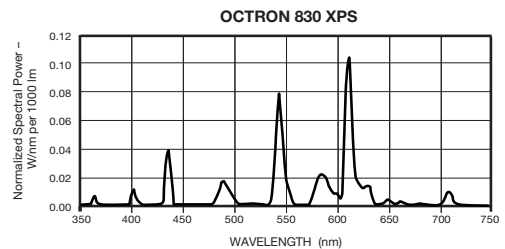
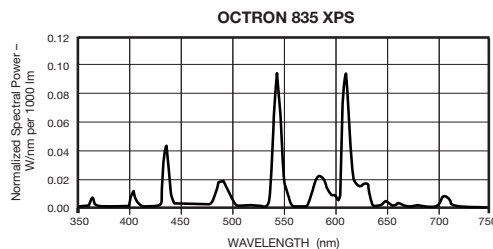
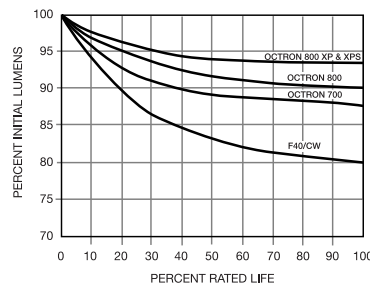
F0	32	/	8	35	XPS	/	ECO
Fluorescent OCTRON	Wattage: 17 Watts, 25 Watts 32 Watts		8 = 85 CRI	35 = 3500K 30 = 3000K 41 = 4100K	EXtended Performance Super		ECOLOGIC

Dimensions

Diagram	(A) Maximum Overall Length (in.)	(B) Base Face to Opposite Pin (in.) Min. Max.	(C) Max. Base Face to Base Face (in.)	(D) Max. Outside Diameter (in.)
		47.78	47.41 47.50	47.22

Technical Information

Lumen Maintenance OCTRON XP, OCTRON XPS, OCTRON & F40/CW



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

Display/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

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