

SYLVANIA Xtreme System

High Performance, Energy Saving, Electronic T8 System



- Dedicated lamp and ballast system
 - OCTRON FO32 XPS ECOLOGIC 4-foot lamps
 - QUICKTRONIC PROStart® PSX ballasts
- Longest lamp life
 - Up to 30,000 hour average rated life
 - Improved lamp life with occupancy sensors
- Lower system watts than standard T8 systems
 - Input Power¹: 1-lamp 25W, 2-lamp 46W, 3-lamp 71W, 4-lamp 91W
 - Optimized ballast factor - .71
 - Universal voltage ballast - 120 to 277V
- 95% Lumen maintenance @ 8000 Hours
- Color temperatures: 3000K, 3500K, 4100K
- 85 CRI
- ECOLOGIC - Pass Federal TCLP Limits²
- Medium bi-pin bases
- QUICK 60+® Warranty

¹Wattages are based on preliminary engineering data.

²Regulations may vary. Check with your local and state regulators

SYLVANIA OCTRON® FO32 EXTENDED Performance Super ECOLOGIC® lamps and dedicated QUICKTRONIC® programmed rapid start electronic ballasts form a lighting system that provides up to 22% energy savings and comparable light output with twice the lamp life of standard instant start T8 systems. The “soft” start of this programmed rapid start ballast makes this system the choice for frequent switching cycle applications.

Excellent lumen maintenance of 95%, a CRI of 85, three choices of color temperatures (3000K, 3500K and 4100K), long lamp life and energy efficiency make this the optimum system for a wide variety of applications. This is a system that pays for itself.

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



Product Availability

Lamp	Color Temperature	Lamp	Color Temperature
FO32/830XPS/ECO	3000K	FBO31/830/XPS/ECO	3000K
FO32/835XPS/ECO	3500K	FBO31/835/XPS/ECO	3500K
FO32/841XPS/ECO	4100K	FBO31/841/XPS/ECO	4100K
FBO32/830/XPS/ECO	3000K		
FBO32/835/XPS/ECO	3500K		
FBO32/841/XPS/ECO	4100K		
Ballasts	# of Lamps		
QTP1x32T8/UNV PSX	1 lamp		
QTP2x32T8/UNV PSX	2 lamps		
QTP3x32T8/UNV PSX	3 lamps		
QTP4x32T8/UNV PSX	4 lamps		

Application Information

Applications

Retail
Office
Schools
Hospitals
Industrial
Signage, graphics
General Lighting
Occupancy Sensors
Any application requiring high energy efficiency and long lamp life.

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

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

Application Notes

1. Lamp starting down to 0°F. Dependent on 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 electrical connection & contact between ballast/lamp holder and lamp/lamp holder is essential to achieve rated performance.
5. Average rated life based on operation on dedicated QUICKTRONIC PSX programmed rapid start ballast.
6. Maximum ballast lead length (ballast to lamp holder) is 10 feet for dedicated QUICKTRONIC ballast.
7. Ballasts also operate FBO32, FBO31, FO25 and FBO24 OCTRON lamps.
8. Operating frequency >42KHz to avoid interference with infrared control systems.



System Comparison

Operating Cost Analysis: Similar Light Output

2-Lamp System

Ballast Lamp	Lamp Lumens	Input Power	Ballast Factor	Relative Mean System Lumens*	Lamp Life (hrs)	Life Cycle Energy Costs	No. Relamps	Total Operating Costs (Energy, Re-Lamps)	Life Cycle Savings (Losses)
Instant Start Standard OCTRON F032/700	2800	59	0.88	100%	15,000	\$354.00	4	\$386.00	\$0.00
Rapid Start Standard OCTRON F032/700	2800	63	0.88	100%	20,000	\$378.00	3	\$402.00	(\$16.00)
Competitive PRS Standard OCTRON F032/700	2800	60	0.88	100%	20,000	\$360.00	3	\$384.00	\$2.00
SYLVANIA Xtreme System, 277V ¹	3150 ¹	46	0.71	96% ¹	30,000	\$276.00	2	\$296.00	\$90.00

*@ 8000 hours

Example based on \$0.10/kWh over 60,000 hours. Actual costs may vary.

¹ Lumens for 841 lamp used. Data for 830 and 835 will be 1.6% lower.

System Comparison

Operating Cost Analysis: Similar Power Input

2-Lamp System

Ballast Lamp	Lamp Lumens	Input Wattage	Ballast Factor	Relative Mean System Lumens*	Lamp Life (hrs)	Life Cycle Power Costs	No. Relamps	Total Life Cycle Costs (Power, Re-Lamps)	Life Cycle Savings (Losses)
Instant Start – Low Power Standard OCTRON F032/700	2800	51	0.77	100%	15,000	\$306.00	4	\$338.00	\$0.00
SYLVANIA Xtreme System, 277V ¹	3150 ¹	46	0.71	109%	30,000	\$276.00	2	\$296.00	\$42.00

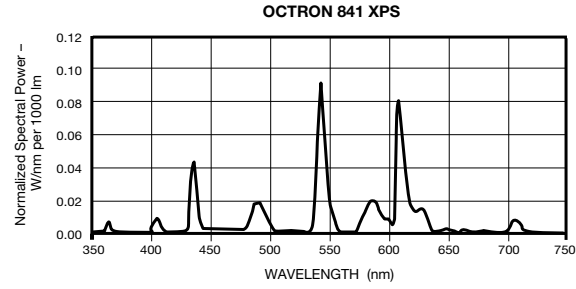
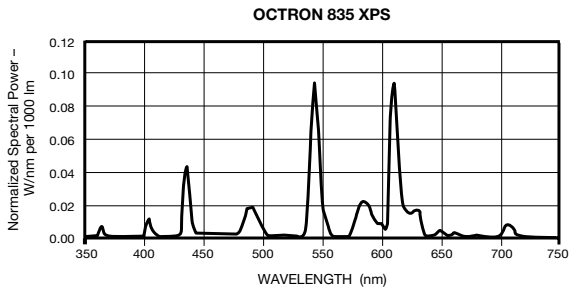
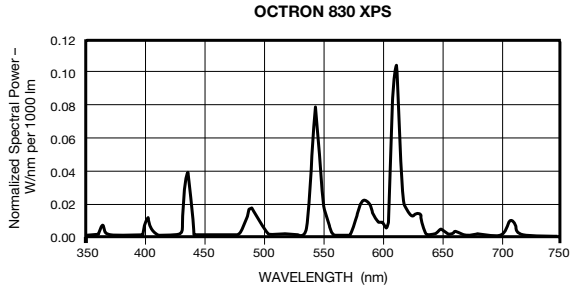
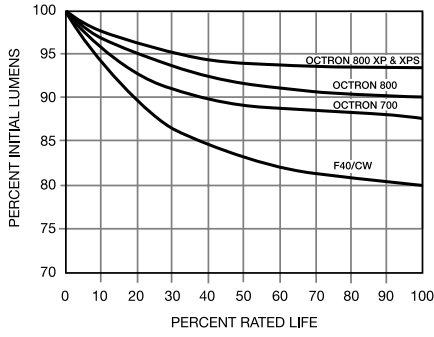
*@ 8000 hours

Example based on \$0.10/kWh over 60,000 hours. Actual costs may vary.

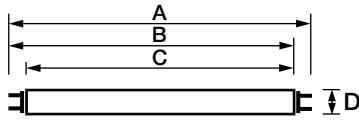
¹ Lumens for 841 lamp used. Data for 830 and 835 will be 1.6% lower.

Technical Information

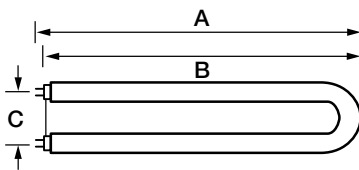
Lumen Maintenance OCTRON XP, OCTRON XPS, OCTRON & F40/CW



Lamp Dimensions



Lamp Type	(A) Maximum Overall Length (in.)	(B) Base Face to Opposite Pin (in.)		(C) Max. Base Face to Base Face (in.)	(D) Max. Outside Diameter (in.)
		Min.	Max.		
FO32	47.78	47.41	47.50	47.22	1.1



Lamp Type	(A) Maximum Overall Length (in.)	(B) Max. Base to Top of Lamp (in.)	(C) Leg Spacing Pin to Opposite Pin (in.)
FBO32	23	22.6	6.0

Sample Specification

Lamp(s) shall be (a) OCTRON XPS ECOLOGIC (FO32/830XPS/ECO, FO32/835XPS/ECO or FO32/841XPS/ECO) lamp(s) having medium bi-pin bases. Lamp(s) shall pass the existing Federal TCLP limits. Lamp(s) shall have an average rated life of 30,000 hours at 3 hrs per start, a CRI of 85, 95% lumen maintenance at 8000 hours and a correlated color temperature of (3000K, 3500K, or 4100K). Lamp(s) shall be operated on dedicated QUICKTRONIC PROStart PSX universal voltage 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. Lamps operated by occupancy sensor operations are covered under the warranty. See the QUICK 60+ warranty for details and restrictions.

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OCTRON XPS Lamp Ordering and Specification Information

32 Watt¹, 4', T8, OCTRON[®] XPS ECOLOGIC[®] lamps with medium bi-pin bases

Item Number	Ordering Abbreviation	CCT	CRI	Avg. Rated Life (hrs.) ²	Initial Lumens ³	Mean Lumens ⁴
21680	FO32/830XPS/ECO	3000K	85	30,000	3100	2945
21697	FO32/835XPS/ECO	3500K	85	30,000	3100	2945
21681	FO32/841XPS/ECO	4100K	85	30,000	3150	2992
22094	FB032/830XPS/6/ECO	3000K	85	30,000	3000	2850
22095	FB032/835XPS/6/ECO	3500K	85	30,000	3000	2850
22096	FB032/841XPS/6/ECO	4100K	85	30,000	3000	2850
21552	FB031/830XPS/6/ECO ⁵	3000K	85	30,000	2900	2755
21553	FB031/835XPS/6/ECO ⁵	3500K	85	30,000	2900	2755
21554	FB031/841XPS/6/ECO ⁵	4100K	85	30,000	2900	2755

1. Actual lamp wattage determined by ballast.
2. Lamp life based on operation on dedicated QUICKTRONIC programmed rapid start ballast @ 3 hours/start.
3. Measured at 100 hours of operation.
4. 95% @ 8000 hours.
5. Available 1st Quarter, 2003.

Ordering Guide – Lamp

FO	32	/	8	35	XPS	/	ECO
Fluorescent OCTRON	Wattage: 32 watts		8 = 85 CRI	35 = 3500K 30 = 3000K 41 = 4100K	EXtended Performance Super		ECOLOGIC

FBO	32	/	8	35	XPS	/	6	/	ECO
Fluorescent Bent OCTRON	Wattage: 31 or 32 watts		8 = 85 CRI	30 = 3000K 35 = 3500K 41 = 4100K	EXtended Performance Super		6 = 6 inch blank = 1-5/8" leg spacing		ECOLOGIC Lamp

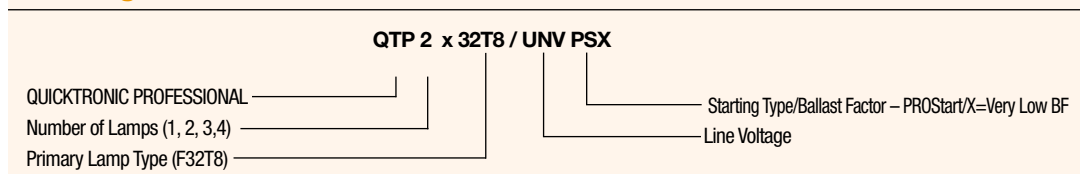
QUICKTRONIC PROStart PSX Ballast Information

Electronic, low power, programmed start, universal voltage electronic ballast

Professional Series

Item Number	Ordering Abbreviation	Input Voltage	System Wattage	Ballast Factor	%THD	Power Factor
51420	QTP1x32T8/UNV PSX	120-277	25W	0.71	<10%	>0.98
51425	QTP2x32T8/UNV PSX	120-277	47/46W	0.71	<10%	>0.98
51430	QTP3x32T8/UNV PSX	120-277	73/71W	0.71	<10%	>0.98
51435	QTP4x32T8/UNV PSX	120-277	93/91W	0.71	<10%	>0.98

Ordering Guide – Ballast



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