

OCTRON® FO32 ECOLOGIC® SUMMARY

Four Foot T8 Fluorescent Lamp Family



- Most widely used OCTRON lamp length – 4'
- Standard lamps: 700 ECO®, 25,000¹ hour life, and 800/ECO®, 30,000¹ hour life
- EXtended Performance 36,000¹ hour life lamps: 800XP®/ECO
- EXtended Performance Super 36,000¹ hour life, 3100 lumen lamps: 800XPS®/ECO
- EXtended Performance, EXtended Life 40,000¹ hour life, 2950 lumen lamps: 800XP®/XL/ECO
- ECOLOGIC® – pass Federal TCLP limits²
- Color temperatures: 2700K, 3000K, 3500K, 4100K, 5000K, 6500K, 8000K
- CRI: 78, 80, 85 & 88
- Compatible with QUICKTRONIC® ballasts
- QUICK 60+® system warranty

1. Life is based on rapid start operation at 3 hrs. per start.
2. Regulations may vary. Check with your local and state regulators.

The SYLVANIA OCTRON® FO32 4-foot lamps, the most widely used T8 lamps, are available in all OCTRON lamp series. All FO32 OCTRON lamps are electrically interchangeable and can operate on a variety of ballasts including magnetic rapid start as well as high frequency, programmed rapid start and instant start. This allows the right lamp and ballast system to be selected for the application.

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

If long life is needed, use the OCTRON 800XP®/ECO®, OCTRON 800XPS®/ECO®, or OCTRON 800XP/XL/ECO® lamps with up to 60% longer lamp life than standard lamps.

For the highest lumens and CRI, the OCTRON 800/ECO®, 800XP/ECO® or 800XPS ECO® lamps would be the lamps of choice.

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



Product Availability

Wattage	Series	Avg. Rated Life (hrs.)	Color Temps.
32	700/ECO	25,000	3000K, 3500K, 4100K, 5000K, 6500K
	800/ECO	30,000	3000K, 3500K, 4100K, 5000K
	800XP/ECO	36,000	2700K, 3000K, 3500K, 4100K, 5000K, 6500K, 8000K
	800XPS/ECO	36,000	3000K, 3500K, 4100K, 5000K, 6500K
	800XP/XL/ECO	40,000	3500K, 4100K

Application Information

Applications

Retail
School
Office
Industrial
General lighting
Color critical applications (medical, dental, textile, printing, reprographic, paint booths): 900 Series

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. Lamps starting down to -20°F (dependent on ballast).
2. Operation below 50°F may affect lumen output or lamp operation.
3. For cold temperature applications, use in enclosed fixture or use tube guards to maximize lamp performance.
4. Average rated lamp life and rated lumens based on operation on ANSI reference ballasts.
5. Actual lamp life dependent on ballast type, lamp type, switching cycle and hours of operation per start.
6. Actual lumens dependent on lamp type and ballast.
7. For maximum energy savings, operate on electronic instant start ballasts.
8. For maximum lamp life in occupancy sensor applications, operate on programmed rapid start ballasts.

System Comparison

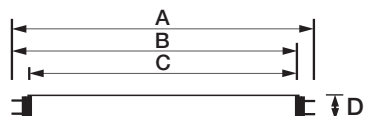
OCTRON with QUICKTRONIC electronic ballasts

Lamp Type	Lamp Lumens	Lamp Life (hrs.)	# Lamps	Ballast	Ballast Factor	System Watts	System Lumens	System Lumens @8000 hrs.	Relative Output @8000 hrs.	System LPW @8000 hrs.	% Life	CRI
F032/700/ECO	2800	25,000 ¹	3	QHE 3X32 ISL	0.78	71	6552	5897	100%	83.1	100%	78
F032/700/ECO	2800	25,000 ¹	3	QHE 3X32 ISN	0.88	82	7392	6653	113%	81.1	100%	78
F032/800/ECO	2950	30,000 ²	3	QHE 3X32 ISL	0.78	71	6903	6558	111%	92.4	120%	85
F032/800/ECO	2950	30,000 ²	3	QHE 3X32 ISN	0.88	82	7788	7399	125%	90.2	120%	85
F032/800XP/ECO	3000	36,000 ³	3	QHE 3X32 ISL	0.78	71	7020	6669	113%	93.9	144%	85
F032/800XP/ECO	3000	36,000 ³	3	QHE 3X32 ISN	0.88	82	7920	7524	128%	91.8	144%	85
F032/800XP/ECO	3000	36,000 ³	2	QHE 2X32 ISH	1.20	73	7200	6840	116%	93.7	144%	85
F032/800XP/XL/ECO	2950	40,000 ⁴	3	QHE 3X32 ISL	0.78	71	6903	6558	111%	92.4	160%	85
F032/800XP/XL/ECO	2950	40,000 ⁴	3	QHE 3X32 ISN	0.88	82	7788	7399	125%	90.2	160%	85
F032/800XP/XL/ECO	2950	40,000 ⁴	2	QHE 2X32 ISH	1.20	73	7080	6726	114%	92.1	160%	85
F032/800XPS/ECO	3100	36,000 ³	3	QHE 3X32 ISL	0.78	71	7254	6891	117%	97.1	144%	85
F032/800XPS/ECO	3100	36,000 ³	3	QHE 3X32 ISN	0.88	82	8184	7775	132%	94.8	144%	85
F032/800XPS/ECO	3100	36,000 ³	2	QHE 2X32 ISH	1.20	73	7440	7068	120%	96.8	144%	85
F032/800XPS/ECO	3100	36,000 ³	3	QHE 3X32 ISH	1.18	109	10974	10425	177%	95.6	144%	85

IS = Instant Start L = Low Power Factor N = Normal Power Factor H = High Power Factor

1. Rapid start and programmed rapid start life at 3 hrs/start. Life at 12 hrs/start is 30,000 hours. For instant start ballasts life is 15,000 hours at 3 hrs/start and 28,000 hours at 12 hrs/start.
2. Rapid start and programmed rapid start life at 3 hrs/start. Life at 12 hrs/start is 35,000 hours. For instant start ballasts life is 18,000 hours at 3 hrs/start and 28,000 hours at 12 hrs/start.
3. Rapid start and programmed rapid start life at 3 hrs/start. Life at 12 hrs/start is 42,000 hours. For instant start ballasts life is 24,000 hours at 3 hrs/start and 36,000 hours at 12 hrs/start.
4. Rapid start and programmed rapid start life at 3 hrs/start. Life at 12 hrs/start is 46,000 hours. For instant start ballasts life is 36,000 hours at 3 hrs/start and 40,000 hours at 12 hrs/start.

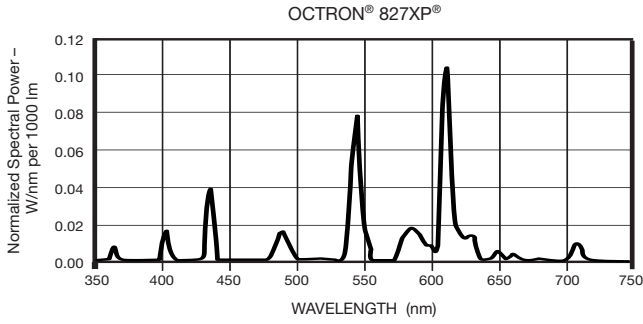
Dimensions



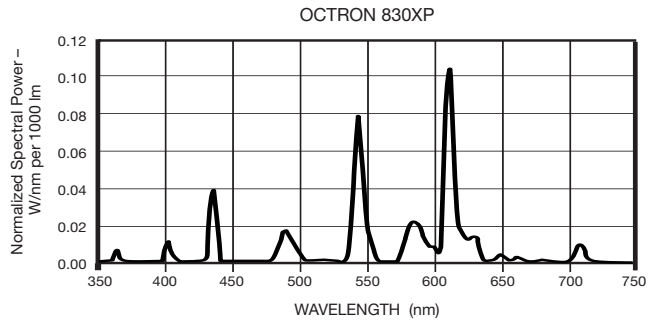
	(A) Maximum Overall Length (in.)	(B) Base Face to Opposite Pin (in.)	(C) Max. Base Face to Base Face (in.)	(D) Maximum Outside Diameter (in.)
F032	47.78	min. 47.40 max. 47.50	47.22	1.1

Technical Information

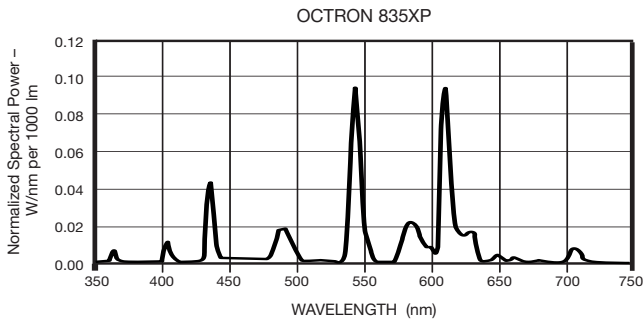
Spectral Power Distribution (SPD)



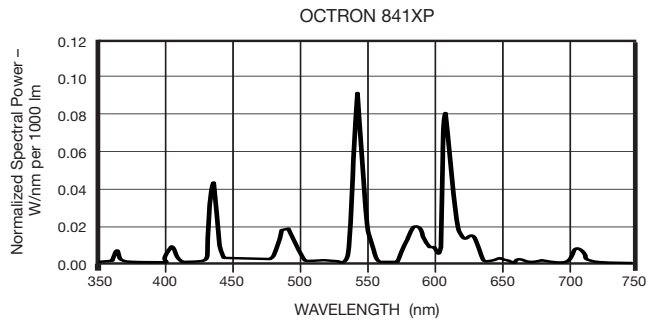
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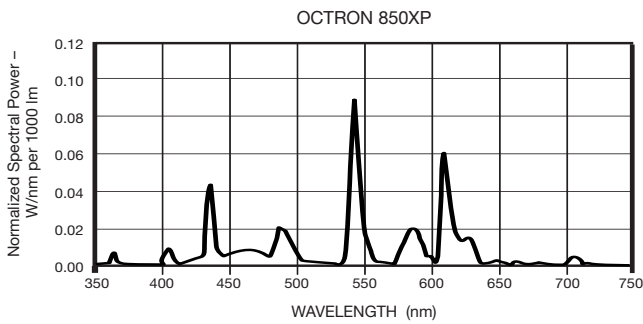
Spectral Power Distribution (SPD)



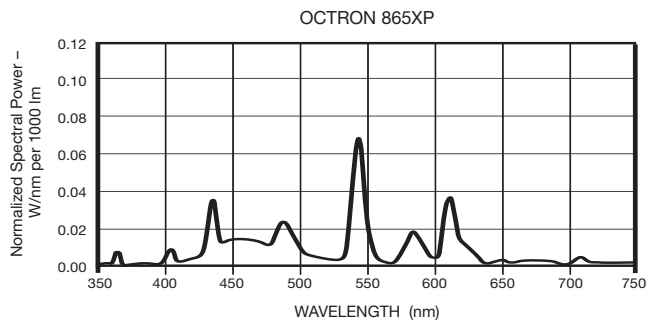
Spectral Power Distribution (SPD)



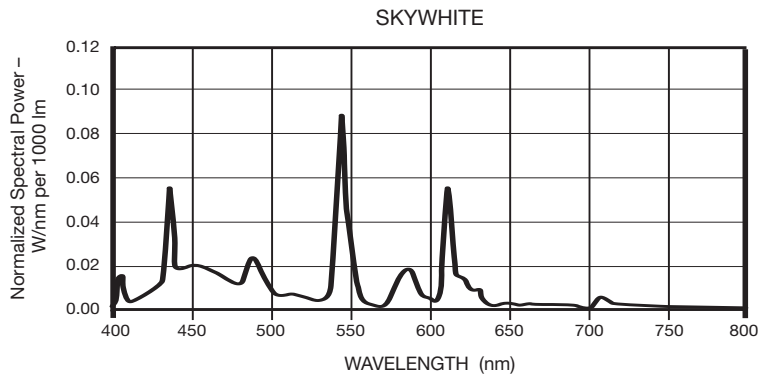
Spectral Power Distribution (SPD)



Spectral Power Distribution (SPD)



Spectral Power Distribution (SPD)



Sample Specification

Lamp(s) shall be (an) OCTRON® ECOLOGIC®, OCTRON 800XP® ECOLOGIC, OCTRON 800XP/XL ECOLOGIC, or OCTRON 800XPS® ECOLOGIC lamp(s) with medium bi-pin bases. ECOLOGIC lamps shall pass the existing Federal TCLP limits. Lamps shall have an average rated life of (25,000, 30,000, 36,000 or 40,000) hours. Lamps shall have initial lumens of (2650, 2750, 2800, 2850, 2900, 2950, 3000 or 3100), mean lumens of (2385, 2475, 2518, 2520, 2660, 2708, 2750, 2802, 2850 or 2945) at 8,000 hours, a correlated color temperature of (2700K, 3000K, 3500K, 4100K, 5000K, 6500K or 8000K) and a CRI of (78, 80, 85 or 88). The OCTRON lamps shall be operated on dedicated QUICKTRONIC® ballasts with complete system warranty from the manufacturer covering lamps and ballasts.

Ordering and Specification Information

32 watt¹, T8, OCTRON® lamps with medium bi-pin bases

Item Number	Ordering Abbreviation	CCT	CRI	Avg. Rated Life (hrs.) ²	Initial Lumens ²	Mean Lumens ^{2,3}	ECOLOGIC
Lamps with CRI of 78							
21997	F032/730/ECO	3000K	78	25,000	2800	2520	Yes
21998	F032/735/ECO	3500K	78	25,000	2800	2520	Yes
21999	F032/741/ECO	4100K	78	25,000	2800	2520	Yes
22141	F032/750/ECO	5000K	78	25,000	2650	2385	Yes
22175	F032/765/ECO	6500K	78	25,000	2700	2430	Yes
Lamps with CRI of 80 or more							
22039	F032/827XP/ECO	2700K	85	36,000	3000	2850	Yes
21777	F032/830/ECO	3000K	85	30,000	2950	2714	Yes
21759	F032/830XP/ECO	3000K	85	36,000	3000	2850	Yes
21680	F032/830XPS/ECO	3000K	85	36,000	3100	2945	Yes
21779	F032/835/ECO	3500K	85	30,000	2950	2714	Yes
21763	F032/835XP/ECO	3500K	85	36,000	3000	2850	Yes
21697	F032/835XPS/ECO	3500K	85	36,000	3100	2945	Yes
21781	F032/841/ECO	4100K	85	30,000	2950	2714	Yes
21767	F032/841XP/ECO	4100K	85	36,000	3000	2850	Yes
21681	F032/841XPS/ECO	4100K	85	36,000	3100	2945	Yes
22143	F032/850/ECO	5000K	80	30,000	2800	2576	Yes
22026	F032/850XP/ECO	5000K	85	36,000	2850	2708	Yes
21660	F032/850XPS/ECO	5000K	80	36,000	3000	2850	Yes
21720	F032/865XP/ECO	6500K	85	36,000	2800	2660	Yes
21659	F032/865XPS/ECO	6500K	80	36,000	2900	2750	Yes
22594	F032/SKYWHITE/XP/ECO	8000K	88	36,000	2650	2518	Yes

1. Actual lamp wattage depends on ballast.
2. Based on operation on rapid or programmed rapid start ballast at 3 hours per start.
3. At 8000 hours.
4. All the above packaged 30/case. Other packaging available. Please refer to the latest OSRAM SYLVANIA price sheet or contact Customer Service or your Sales Rep for information.

Ordering Guide

FO	32	/	8	35	/	ECO
Fluorescent	Wattage:		7 = 78 CRI	35 = 3500K, 30 = 3000K,		ECOLOGIC
OCTRON	32		8 = 80-85 CRI	41 = 4100K, 50 = 5000K,		
				65 = 6500K		

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

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

Ordering Guide

FO	32	/	8	35	XP	/	ECO
Fluorescent	Wattage:		8 =	35 = 3500K, 27 = 2700K,	EXTended		ECOLOGIC
OCTRON	32		80-85 CRI	30 = 3000K, 41 = 4100K,	Performance		
				50 = 5000K, 65 = 6500K			

Ordering Guide

FO	32	/	8	35	XPS	/	ECO
Fluorescent	Wattage:		8 =	35 = 3500K, 30 = 3000K,	EXTended		ECOLOGIC
OCTRON	32		80-85 CRI	41 = 4100K, 50 = 5000K,	Performance		
				65 = 6500K			

Ordering Guide

FO	32	/	8	35	XP/XL	/	ECO
Fluorescent	Wattage:		8 =	35 = 3500K	EXTended Performance		ECOLOGIC
OCTRON	32		85 CRI	41 = 4100K	EXTended Life		

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