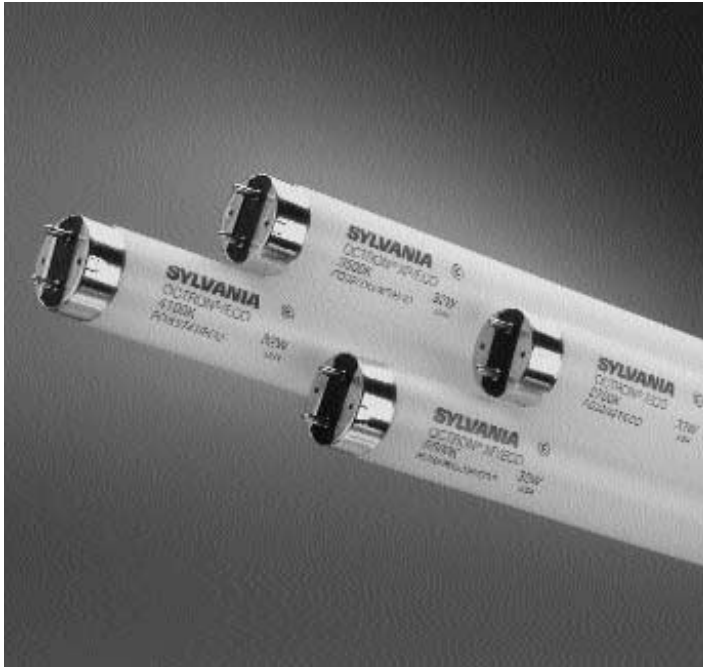


# OCTRON® FO32

## Four Foot T8 Fluorescent Lamp Family



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 electronic rapid start, 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 700 XP ECO and 800 XP ECO lamps with a 20% longer lamp life than standard lamps.

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

The FO32/950 lamp has a color temperature of 5000K and a CRI of 90 for the most color critical applications.

- Most widely used OCTRON lamp length – 4'
- Standard 20,000 hour lamps: 700, 700 ECO, 800 & 800/ECO
- EXtended Performance 24,000 hour life lamps: 700 XP™ ECO & 800 XP™ ECO
- ECOLOGIC® - pass Federal TCLP limits<sup>1</sup>
- Color Temperatures: 2700K, 3000K, 3500K, 4100K, 5000K, 6500K
- CRI: 75, 78, 82, 85, 90
- Compatible with QUICKTRONIC® and QUICKTRONIC Professional ballasts
- QUICK 60+® system warranty

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

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.)	CRI	Color Temps.
32	700	20,000	75	3000K, 3500K, 4100K, 5000K, 6500K
	700 ECO	20,000	75	3000K, 3500K, 4100K
	700 XP ECO	24,000	78	3000K, 3500K, 4100K
	800	20,000	82	2700K*, 3000K, 3500K, 4100K, 5000K
	800 ECO	20,000	82	3000K, 3500K, 4100K
	800 XP ECO	24,000	85	2700K, 3000K, 3500K, 4100K, 6500K
	900	20,000	90	5000K

\*To be discontinued. Use 827 XP ECO.

## 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 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 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.

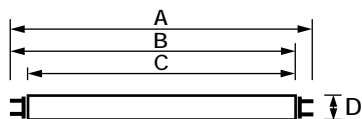
## System Comparison

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 Lumens	LPW	% Life	% Energy Savings	CRI
FO32/700/ECO	2800	20,000	3	3-lamp ISN	.90	87	7560	6804	100%	78	100%	-	75
FO32/700/ECO	2800	20,000	3	3-lamp ISL	.77	76	6468	5821	86%	77	100%	13%	75
FO32/700XP/ECO	2850	24,000	3	3-lamp ISL	.77	76	6584	6254	92%	82	120%	13%	78
FO32/700XP/ECO	2850	24,000	3	3-lamp ISN	.90	87	7695	7310	107%	84	120%	-	78
FO32/800/ECO	2950	20,000	3	3-lamp ISL	.77	76	6815	6269	92%	83	100%	13%	82
FO32/800/ECO	2950	20,000	3	3-lamp ISN	.90	87	7965	7328	108%	84	100%	-	82
FO32/800XP/ECO	3000	24,000	3	3-lamp ISL	.77	76	6930	6584	97%	87	120%	13%	85
FO32/800XP/ECO	3000	24,000	3	3-lamp ISN	.90	87	8100	7695	120%	88	120%	-	85
FO32/800XP/ECO	3000	24,000	2	2-lamp ISH	1.20	78	7200	6840	101%	88	120%	10%	85

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

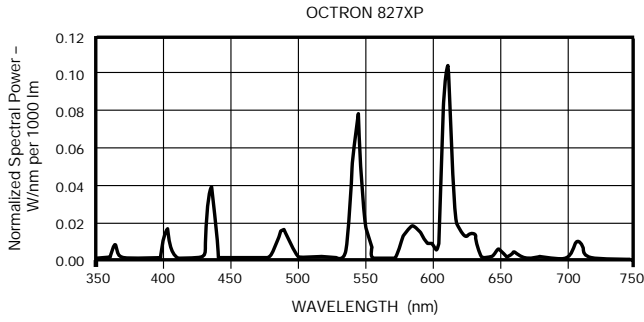
## Dimensions



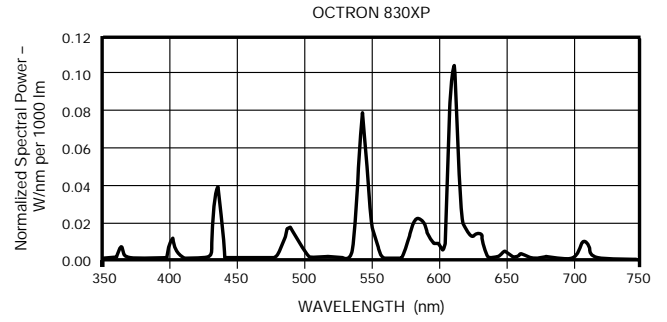
	(A) Maximum Overall Length (in.)	(B) Base Face to Opposite Pin (in.)	(C) Max. Base Face to Base Face (in.)	(D) Maximum Outside Diameter (in.)
FO32	47.78	min. 47.41 max. 47.50	47.22	1.1

# Technical Information

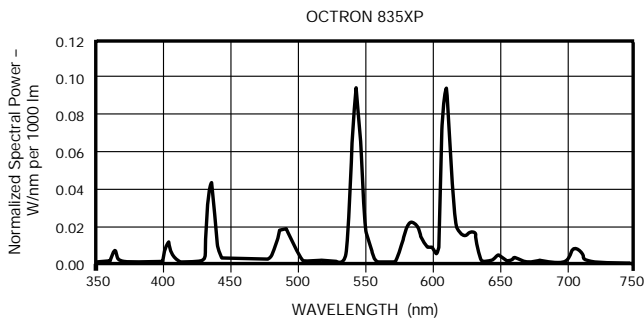
Spectral Power Distribution (SPD)



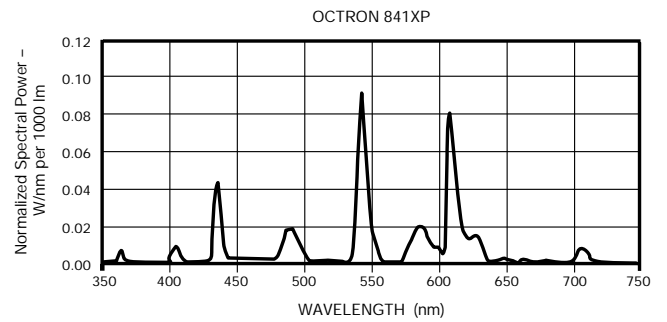
Spectral Power Distribution (SPD)



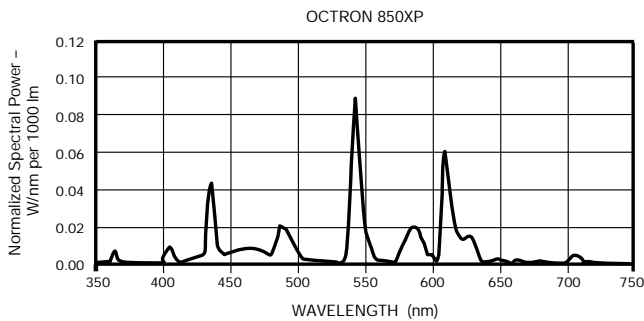
Spectral Power Distribution (SPD)



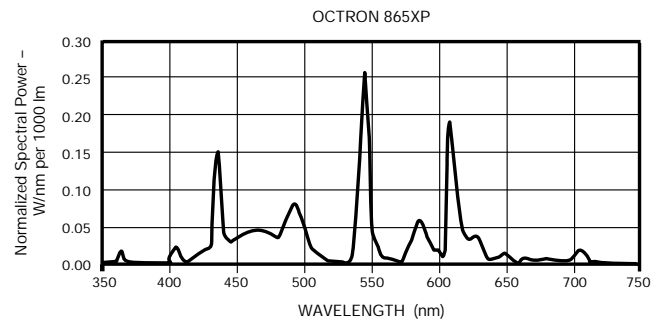
Spectral Power Distribution (SPD)



Spectral Power Distribution (SPD)



Spectral Power Distribution (SPD)



### Sample Specification

Lamp(s) shall be (a) OCTRON, OCTRON ECOLOGIC, OCTRON 700 XP ECOLOGIC or OCTRON 800 XP 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 (20,000, 24,000) hours. Lamps shall have initial lumens of (1800, 2650, 2750, 2800, 2850, 2950, 3000), mean lumens of (1530, 2385, 2475, 2520, 2708, 2714, 2850) at 8,000 hours, a correlated color temperature of (2700K, 3000K, 3500K, 4100K, 5000K, 6500K) and a CRI of (75, 78, 82, 85). The OCTRON lamps shall be operated on dedicated (QUICKTRONIC, QUICKTRONIC Professional) ballasts with complete system warranty from the manufacturer covering lamps and ballasts.

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Fax: 1-800-667-6772

#### Special Markets

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

## Ordering and Specification Information

32 watt<sup>1</sup>, T8, OCTRON lamps with medium bi-pin bases

Item Number	Ordering Abbreviation	CCT	CRI	Avg. Rated Life (hrs.) <sup>2</sup>	Initial Lumens <sup>2</sup>	Mean Lumens <sup>2,3</sup>	ECOLOGIC
<b>Lamps with CRI of 75 or 78</b>							
21852	F032/730	3000K	75	20,000	2800	2520	
21997	F032/730/ECO	3000K	75	20,000	2800	2520	Yes
21711	F032/730XP/ECO	3000K	78	24,000	2850	2708	Yes
21823	F032/735	3500K	75	20,000	2800	2520	
21998	F032/735/ECO	3500K	75	20,000	2800	2520	Yes
22044	F032/735XP/ECO	3500K	78	24,000	2850	2708	Yes
21824	F032/741	4100K	75	20,000	2800	2520	
21999	F032/741/ECO	4100K	75	20,000	2800	2520	Yes
21712	F032/741XP/ECO	4100K	78	24,000	2850	2708	Yes
21809	F032/750	5000K	75	20,000	2650	2385	
21993	F032/765	6500K	75	20,000	2750	2475	
<b>Lamps with CRI of 82, 85 or 90</b>							
21955	F032/827 <sup>5</sup>	2700K	82	20,000	2580	2374	
22039	F032/827XP/ECO	2700K	85	24,000	3000	2850	Yes
21890	F032/830	3000K	82	20,000	2950	2714	
21777	F032/830/ECO	3000K	82	20,000	2950	2714	Yes
21759	F032/830XP/ECO	3000K	85	24,000	3000	2850	Yes
21891	F032/835	3500K	82	20,000	2950	2714	
21779	F032/835/ECO	3500K	82	20,000	2950	2714	Yes
21763	F032/835XP/ECO	3500K	85	24,000	3000	2850	Yes
21892	F032/841	4100K	82	20,000	2950	2714	
21781	F032/841/ECO	4100K	82	20,000	2950	2714	Yes
21767	F032/841XP/ECO	4100K	85	24,000	3000	2850	Yes
21980	F032/850	5000K	80	20,000	2950	2714	
22026	F032/850XP/ECO	5000K	85	24,000	3000	2850	Yes
21880	F032/950/48"	5000K	90	20,000	1800	1530	
21720	F032/865XP/ECO	6500K	85	24,000	2850	2708	Yes

1. Actual lamp wattage depends on ballast.

2. Based on operation on ANSI reference ballast.

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.

5. To be discontinued. Use F032/827XP/ECO.

### Ordering Guide

FO	32	/	8	35
Fluorescent	Wattage:		7 = CRI of 75	35 = 3500K
OCTRON	32		8 = CRI of 82	27 = 2700K
				30 = 3000K
				41 = 4100K
				50 = 5000K
				65 = 6500K

### Ordering Guide

FO	32	/	8	35	/	ECO
Fluorescent	Wattage:		7 = CRI of 75	35 = 3500K		ECOLOGIC
OCTRON	32		8 = CRI of 82	30 = 3000K		
				41 = 4100K		

### Ordering Guide

FO	32	/	8	35	XP	/	ECO
Fluorescent	Wattage:		8 = CRI in 80s	35 = 3500K	EXtended		ECOLOGIC
OCTRON	32		7 = CRI in 70s	27 = 2700K	Performance		
				30 = 3000K			
				41 = 4100K			
				50 = 5000K			
				65 = 6500K			