Product Information Bulletin

OCTRON® 865 XP®

Fluorescent Lamps



The SYLVANIA OCTRON 865 lamps were designed to provide the color temperature (6500K), excellent color rendition (85 CRI) and long life (18,000 – 36,000 hours) that are desirable in display, signage, vending and other applications.

The OCTRON 6500K lamps are available in a variety of wattages and lengths to accommodate many different applications. When operated by QUICKTRONIC® and QUICKTRONIC Professional ballasts, the system specifier can select the lamp and ballast system that best fits the application and both the lamps and ballasts are covered by the QUICK 60+® warranty program.

SYLVANIA OCTRON 6500K ECOLOGIC® fluorescent lamps are designed to satisfy the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.[1]

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

- E**X**tended **P**erformance OCTRON T8 lamps
- Designed for display, signage & vending applications
- Color temperature of 6500K
- 85 CRI
- 95% lumen maintenance
- Average rated life of 18,000 – 36,000 hours
  - – Up to 50% longer than conventional T8
  - – Extended relamp cycles
- Available in variety of lengths
  - – 10.5", 18", 20", 24", 30", 36", 40" 48", 60" & 72"
- ECOLOGIC – pass Federal TCLP limits[2]
- Compatible with QUICKTRONIC and QUICKTRONIC Professional T8 ballasts
- QUICK 60+ system warranty

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

ECOLOGIC®

Product Availability

Nominal Length	Wattage	Description
10.5"	16	FB016/865XP
18"	13	F013/865XP/ECO
20"	14	F014/865XP/ECO
24"	17	F017/865XP/ECO
30"	21	F021/865XP/ECO
36"	25	F025/865XP/ECO
40"	28	F028/865XP/ECO
48"	32	F032/865XP/ECO
60"	40	F040/865XP/ECO
72"	46	F072/865XP/ECO

Application Information

Applications

Displays
Signage
Vending
Industrial
General Lighting

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. For rapid start operation, check with ballast manufacturer for ground plane requirement.
5. For maximum energy savings, operate on electronic instant start ballasts.
6. For maximum lamp life in frequent switching cycle applications, operate on programmed rapid start ballasts.

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Sample Specification

Lamp(s) shall be (a) OCTRON® 865 lamp(s) (FBO16/865XP, FO13/865XP/ECO, FO14/865XP/ECO, FO17/865XP/ECO, FO21/865XP/ECO, FO25/865XP/ECO, FO28/865XP/ECO, FO32/865XP/ECO, FO40/865XP/ECO or FO72/865XP/ECO having (medium bi-pin or single-pin) bases. Lamps (except FBO16/865XP) shall pass the existing Federal TCLP limits. Lamps shall have an average rated life of (18,000, 24,000 or 30,000) hours, (850, 1000, 1125, 1250, 1600, 2000, 2250, 2800, 3650 or 4550) initial lumens, 95% lumen maintenance at (8000 or 6000) hours, a correlated color temperature of 6500K and a CRI of 85. The OCTRON lamps shall be operated on dedicated QUICKTRONIC® ballasts with complete system warranty from the manufacturer covering lamps and ballasts.

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Visit our website: www.sylvania.com

Ordering and Specification Information

Item Number	Ordering Abbreviation[1]	Watts	Bulb	Base	Nominal Length (in.)	Avg. Rated Life (hrs.)[2]	Initial Lumens	Mean Lumens[3]	CCT	CRI
21726	FBO16/865XP	16	T8	Med. Bi-Pin	10.5	24,000	1125	1069	6500K	85
21731	FO13/865XP/ECO	13	T8	Med. Bi-Pin	18	24,000	850	808	6500K	85
21716	FO14/865XP/ECO	14	T8	Med. Bi-Pin	20	24,000	1000	950	6500K	85
21718	FO17/865XP/ECO	17	T8	Med. Bi-Pin	24	24,000	1250	1188	6500K	85
21730	FO21/865XP/ECO	21	T8	Med. Bi-Pin	30	24,000	1600	1520	6500K	85
21719	FO25/865XP/ECO	25	T8	Med. Bi-Pin	36	24,000	2000	1900	6500K	85
21727	FO28/865XP/ECO	28	T8	Med. Bi-Pin	40	24,000	2250	2138	6500K	85
21720	FO32/865XP/ECO	32	T8	Med. Bi-Pin	48	36,000	2800	2660	6500K	85
21721	FO40/865XP/ECO	40	T8	Med. Bi-Pin	60	24,000	3650	3468	6500K	85
21710	FO72/865XP/ECO	46	T8	Single Pin	72	18,000	4550	4323	6500K	85

1. Other 6500K OCTRON lamps: FO32/765 – item # 21993, 2750 initial lumens, 2475 mean lumens @ 8000 hours, 75CRI; FO25/765 – item # 21700, 2050 initial lumens, 1845 mean lumens @ 8000 hours, 75CRI.
2. Based on operation at 3 hours/start on programmed rapid start ballasts, except for FO72.
3. Measured at 8000 hours except for the FO72. Mean lumen value for the FO72 measured at 6000 hours. 94% lumen maintenance at 40% of rated life.

Ordering Guide

Linear Lamps

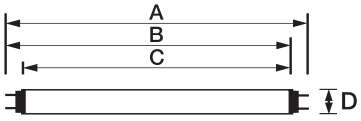
FO	32	/	865	XP	/	ECO
Fluorescent OCTRON	Wattage: 32 13, 14, 17, 21, 25, 28 or 40 Watts 72 = length in inches		8 = 85 CRI 65= 6500K	EXtended Performance		ECOLOGIC

Curvalume Lamps

FBO	16	/	865	XP
Fluorescent Bent (u-shape) OCTRON	Wattage: 16 Watts		8 = 85 CRI 65= 6500K	EXtended Performance

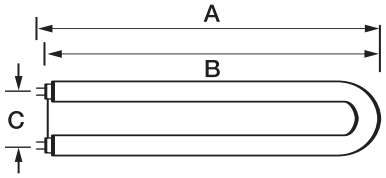
Dimensions

Linear Lamp



	(A) Maximum Overall Length (in.)	(B) Base Face to Opposite Pin (in.) Min.	(B) Base Face to Opposite Pin (in.) Max.	(C) Max. Base Face to Base Face (in.)	(D) Maximum Outside Diameter (in.)
FO13	17.91	17.40	17.50	17.22	1.1
FO14	19.78	19.41	19.50	19.22	1.1
FO17	23.78	23.41	23.50	23.22	1.1
FO21	29.78	29.40	29.50	29.22	1.1
FO25	35.78	35.40	35.50	35.22	1.1
FO28	39.78	39.40	39.50	39.22	1.1
FO32	47.78	47.41	47.50	47.22	1.1
FO40	59.61	59.24	59.33	59.05	1.1
FO72	70.00	69.42	69.65	69.30	1.1

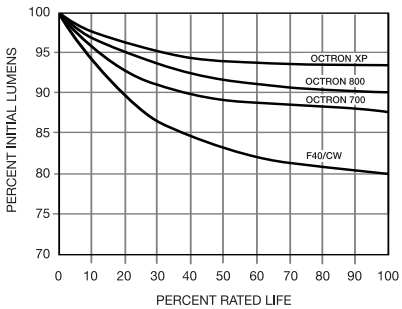
CURVALUME Lamp



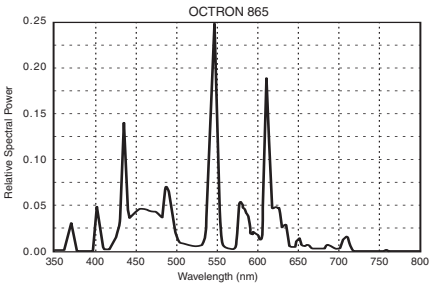
	(A) Maximum Overall Length (in.)	(B) Max. Base to Top of Lamp (in.)	(C) Leg Spacing (Pin to Opposite Pin) (in.)
FBO16	10.9	10.6	1.625

Technical Information

Lamp Lumen Maintenance



Spectral Power Distribution



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