

# OCTRON® FO96 800XP® ECOLOGIC® Fluorescent Lamps



OCTRON 8-ft FO96/800/XP/ECO lamps can be used to replace FO96/700 or FO96/800 lamps to increase initial and maintained light levels and provide 20% longer lamp life. The CRI of 85 means excellent color rendition. Three different color options are available: 830 with a color temperature of 3000K, 835 with a color temperature of 3500K, and 841 with a color temperature of 4100K.

When the FO96/800/XP/ECO lamps are operated on the QUICKTRONIC® QT2X59T8ISN and QT2X59T8ISH (PLUS) ballasts, the resultant systems are energy saving alternatives to the F96T12 instant start and HO (800 mA) magnetic systems, respectively. The FO96/800/XP/ECO lamps last 50% longer than the T12 lamps and the FO96/800/XP/ECO QUICKTRONIC lamp/ballast systems deliver higher maintained light levels. If less than 10% THD is desired, use QUICKTRONIC Professional series ballasts. The QUICK 60+® warranty program covers both lamps and ballasts.

## Product Availability

Description	Wattage	Initial Lumens
FO96/830/XP/ECO	59	6100
FO96/835/XP/ECO	59	6100
FO96/841/XP/ECO	59	6100

## Application Information

### Applications

Industrial  
Retail  
Signage  
Warehousing/Storage  
Recreation  
Refrigeration Cases

### Replacement Options:

1. Direct replacement for FO96/700, FO96/800 & FO96/800/XP
2. Retrofit for F96T12, use QT2X59T8 ISN
3. Retrofit for F96T12/HO, use QT2X59T8 ISH (PLUS)
4. Retrofit for F96T8/HO, use QT2X59 ISHT8 (PLUS)
5. Need <10% THD, use QTP2X59T8 ISN-A
6. Need connectors, use QT or QTP2X59T8 ISN-A

- **EX**tended **P**erformance 8-ft OCTRON T8 ECOLOGIC Lamps
- Designed to pass Federal TCLP<sup>1</sup> test
- Higher initial and maintained lumens than FO96/800 lamps
- 20% longer lamp life than FO96/700 or FO96/800 lamps
  - 18,000 hours average rated life vs 15,000 hours
- Energy saving, longer life alternatives for F96T12 instant start and HO (800 mA) magnetic systems
- Higher maintained lumens than F96T12 instant start or HO magnetic systems
- Energy saving alternative for F96T8/HO systems
- 3000K, 3500K, 4100K color temperatures, 85 CRI
- Single-pin bases
- Operate on the QUICKTRONIC and QUICKTRONIC Professional series ballasts
- QUICK 60+ warranty

SYLVANIA OCTRON T8 ECOLOGIC fluorescent lamps are designed to pass the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states<sup>2</sup>.

1. TCLP test results are based on NEMA LL Series standards and are available on request.
2. Lamp disposal regulations may vary; check your local & state regulations.

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



### Application Notes

1. Uses the same single-pin sockets as the F96T12 instant start lamps.
2. If retrofitting an HO system, a socket change is strongly recommended.
3. 0°F starting with QUICKTRONIC ballasts.  
See ballast literature.

### Fixtures

Contact your local fixture agent for available fixtures.

### Ballast Information

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



Sample Specification

Lamp(s) shall be an OCTRON® FO96/XP® ECOLOGIC T8 single-pin lamp(s) with an average rated life of 18,000 hours. Lamp(s) shall be designed to pass the Federal TCLP test. Lamps shall have a CRI of 85 and a color temperature of (3000K, 3500K, 4100K). Lamps shall be operated by QUICKTRONIC® or QUICK-TRONIC Professional series ballasts. Both lamps and ballasts shall be covered by the QUICK 60+® warranty program.

Warranty Information  
QUICK 60+ warranty for SYLVANIA lamp and ballast combination

Limited 30 month lamp warranty and a five year ballast warranty is possible if both lamps and ballast are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

Lamp Comparison

F096/800/XP/ECO vs F096/700 vs F096/800

Lamp	Wattage	Initial Lumens	Lumens @ 6000 Hrs.*	CRI	Avg. Rated Life (Hrs.)
F096/700	59	5700	5130	75	15,000
F096/800	59	5900	5430	82	15,000
F096/800XP/ECO	59	6100	5795	85	18,000

\* 6000 hours is 40% of the rated life of the F096/700 & F096/800 lamps.

System Comparison

F096/800/XP/ECO vs F96T12 instant start and F96T12/HO

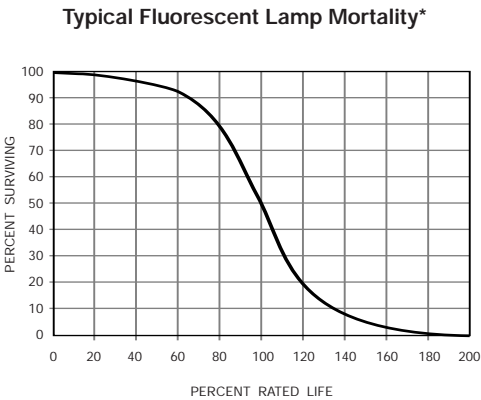
Lamp Type & Ballast	System Wattage	Ballast Factor	System Initial Lumens	Lumen Maint. Factor	System Lumens @ 4800 Hrs.	Relative Light Output	Energy \$ Savings*
F96T12/D41/SS w/ e.s. magnetic	126	88%	9855	89%	8770	100%	-0-
F096/841XP/ECO w/QT2X59ISN	110	88%	10,735	96%	10,305	118%	\$6.40
F96T12/D41/HO/SS w/ e.s. magnetic	203	91%	15,195	87%	13,975	100%	-0-
F096/841XP/ECO w/QT2X59ISH PLUS	151	119%	14,520	96%	13,975	102%	\$20.80

F096/800/XP/ECO vs F96T12/HO/SS vs F96T8/HO

Lamp Type & Ballast	System Wattage	Ballast Factor	System Initial Lumens	Lumen Maint. Factor	System Lumens @ 4800 Hrs.	Relative Light Output	Energy \$ Savings*
F96T12/D41/HO/SS w/ e.s. magnetic	203	91%	15,197	87%	13,675	100%	-0-
F96T8/800/HO w/ electronic RS	160	88%	14,432	93%	13,420	98%	\$17.20
F096/841XP/ECO w/ QT2X59ISH PLUS	151	119%	14,520	96%	13,935	102%	\$20.80

\* Based on 4000 hours/year and \$.10/kWh

Technical information



\* Source: IES Lighting Handbook

Ordering and Specification Information

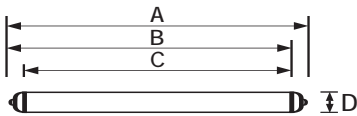
Item Number	Ordering Abbreviation	Watts	Bulb	Base	Avg. Rated Life (hrs.)	Initial Lumens	Mean Lumens <sup>1</sup>	CCT	CRI	Case Qty.
22036	F096/830/XP/ECO	59	T8	Single pin	18,000	6100	5795	3000K	85	24
22034	F096/835/XP/ECO	59	T8	Single Pin	18,000	6100	5795	3500K	85	24
22032	F096/841/XP/ECO	59	T8	Single pin	18,000	6100	5795	4100K	85	24

<sup>1</sup> Mean lumens at 6000 hours. Mean lumens at 40% of rated life (7200 hours) are 94% of initial (5735).

Ordering Guide

F0	96	/	8	35	/	XP	/	ECO
Fluorescent OCTRON	96" MOL Nominal Length		85 CRI	30 = 3000K 35 = 3500K 41 = 4100K Color Temperature		EXtended Performance		ECO = ECOLOGIC

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.)
F096/800/XP/ECO	Min. 93.74" Max. 94.00"	93.42" 93.65"	93.10" 93.30"	0.944" 1.096"

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