

# OCTRON® FO96 700 ECOLOGIC®

## Fluorescent Lamps



OCTRON 8-ft FO96/700 ECOLOGIC lamps can be used when disposal methods require a TCLP-passing lamp. They are physically and electrically interchangeable with the FO96/700 lamps and deliver the same performance. Three different color options are available: 730 with a color temperature of 3000K, 735 with a color temperature of 3500K, and 741 with a color temperature of 4100K.

When FO96/700/ECO® lamps are operated on the QUICKTRONIC® QT2X59T8ISN and QT2X59T8ISH (PLUS) ballasts, the resultant systems are alternatives to the F96T12 instant start, magnetic systems. One system offers energy savings with similar light levels while the other delivers significantly higher light levels. If less than 10% THD is desired, use QUICKTRONIC Professional series ballasts. The QUICK 60+® warranty program covers both lamps and ballasts.

- 8-ft OCTRON T8 ECOLOGIC Lamps
- Designed to pass Federal TCLP<sup>1</sup> test
- Interchangeable with FO96/700 lamps
- Same initial and maintained lumens as FO96/700 lamps
- Same lamp life as FO96/700 lamps
  - 15,000 hours average rated life
- Energy saving alternative for F96T12 Slimline lamps and instant start, magnetic ballasts
- 25% longer lamp life than F96T12 Slimline lamps
- 3000K, 3500K, 4100K color temperatures, 75 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>.



<sup>1</sup> TCLP test results are based on NEMA LL Series standards and are available on request.

<sup>2</sup> Lamp disposal regulations may vary; check your local & state regulations.

### Product Availability

Wattage	Description	Initial Lumens
59	F096/730/ECO	5,700
59	F096/735/ECO	5,700
59	F096/741/ECO	5,700

### Application Information

#### Applications

Industrial  
Retail  
Signage  
Warehousing/Storage  
Recreation  
Refrigeration Cases

#### Replacement Options:

1. Direct replacement for FO96/700 lamps.
2. Retrofit for F96T12, suggest QT2X59T8 ISN ballast.
3. If higher light levels are needed, use QT2X59T8 ISH (PLUS) ballast.
4. For <10% THD, use QTP2X59T8 ISN-A ballast.

#### Application Notes

1. Use the same single-pin sockets as the F96T12 instant start lamps.
2. 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 ECOLOGIC T8 single-pin lamp(s) with an average rated life of 15,000 hours. Lamp(s) shall be designed to pass the Federal TCLP test. Lamps shall have a CRI of 75 and a color temperature of (3000K, 3500K, 4100K). Lamps shall be operated by QUICKTRONIC or QUICKTRONIC 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 24 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.

OSRAM SYLVANIA  
National Customer  
Support 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 & Special Markets

Phone: 1-800-762-7191  
Fax: 1-800-762-7192

### Photo-Optic

Phone: 1-888-677-2627  
Fax: 1-800-762-7192

OSRAM SYLVANIA  
Ballast Division  
800 N. Church Street  
Lake Zurich, IL 60047  
Phone: 1-800-654-0089  
Fax: 1-847-726-6424

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

## System Comparison

FO96/700/ECO on standard and high light output ballasts vs. F96T12 instant start

Lamp Type & Ballast	System Wattage	Ballast Factor	Initial System Lumens	Lumen Maintenance Factor	System Lumens @ 4800 Hrs.	Relative Light Output	Energy Savings <sup>2</sup>
F96T12/CW/SS w/ e.s. magnetic	126	88%	9856	89%	8772	100%	-0-
F96T12/D41/SS w/ e.s. magnetic	126	88%	10,208	92%	9068	103%	-0-
FO96/741/ECO w/QT2X59ISN	110	88%	11,088	92%	9229	105%	\$6.40
FO96/741/ECO w/QT2X59ISH PLUS <sup>1</sup>	151	119%	14,994	92%	12,481	142%	-\$10.00

<sup>1</sup> May allow the number of lamps, ballasts and fixtures to be reduced. Consider using two 1-lamp fixtures with one 2-lamp ballast in master/subordinate configuration.

<sup>2</sup> Based on 4,000 hours/year and \$.10/kWh

## Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens <sup>2</sup>	Mean Lumens <sup>3</sup>	CCT	CRI	Case Qty.
22030	FO96/730/ECO	59	T8	Single pin	15,000	5700	5130	3000K	75	24
21737	FO96/735/ECO	59	T8	Single Pin	15,000	5700	5130	3500K	75	24
21736	FO96/741/ECO	59	T8	Single pin	15,000	5700	5130	4100K	75	24

1. Lamp life based on 3 hours/start on reference ballast.

2. Initial lumens measured at 100 hours of operation.

3. Mean lumens at 6000 hours. Mean lumens at 4800 hours (40% of rated life of F96T12 Slimline instant start lamp) = 5,244.

## Ordering Guide

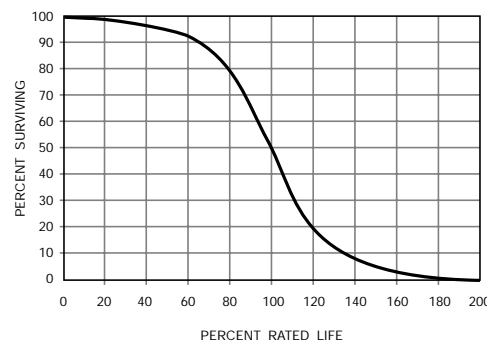
F0	96	/	7	35	/	ECO
Fluorescent OCTRON	96" MOL Nominal		7 = 75 CRI	30 = 3000K 35 = 3500K 41 = 4100K		ECOLOGIC

## Dimensions

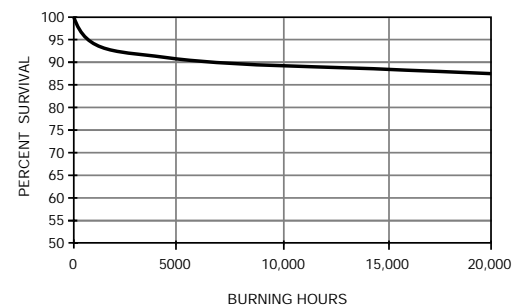
	(A) Maximum Overall Length (in.)	(B) Base Face to Opposite Pin (in.)	(C) Max. Base Face to Base Face (in.)	(D) Max. Outside Diameter (in.)
FO96/700/ECO	Min. 93.74 Max. 94.00	93.42 93.65	93.10 93.30	0.944 1.096

## Technical Information

Typical Fluorescent Lamp Mortality



Octron 700 Lumen Maintenance Curve



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