

# ECOLOGIC® T12 SLIMLINE Fluorescent Lamps



- ECOLOGIC - Designed to pass Federal TCLP test<sup>1</sup>
- DESIGNER® 700 & 800 Series utilize rare earth phosphors
  - Higher initial lumens
  - Higher maintained lumens
  - Higher CRI
- SUPERSAVER®
  - Operate in the same fixtures with same ballasts as full wattage lamps
  - 20% Energy Savings on magnetic energy saving ballasts
  - 19% Energy Savings on electronic ballasts

<sup>1</sup> Regulations may vary. Check your local and state regulations.

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



**SYLVANIA ECOLOGIC fluorescent lamps are designed to satisfy the Federal Toxicity Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states<sup>1</sup>.**

DESIGNER 700 and 800 Series lamps utilize rare earth phosphors that provide up to 24% higher initial lumens, up to 32% higher maintained lumens as well as improved color rendition (70 and 80 vs 52 and 62) over halo phosphor lamps.

SUPERSAVER lamps provide energy savings of up to 20% over full wattage lamps. Just change the lamps to start reducing lighting energy costs.

Select SYLVANIA T12 Slimline lamps such as the F96T12/D841/SS/ECO that incorporate all these features to maximize the benefits.

## Product Availability

Lamp Type	Rated Lumens
F48T12/CW/ECO	2820
F48T12/D/ECO	2450
F96T12/WW/SS/ECO	5500
F96T12/D30/ECO	6420
F96T12/D30/SS/ECO	5600
F96T12/D830/ECO	6550
F96T12/D830/SS/ECO	5800
F96T12/D35/ECO	6420
F96T12/D35/SS/ECO	5600
F96T12/D835/ECO	6550
F96T12/D835/SS/ECO	5800
F96T12/D41/ECO	6420
F96T12/D41/SS/ECO	5600
F96T12/D841/ECO	6550
F96T12/D841/SS/ECO	5800
F96T12/CW/SS/ECO	5300

## Application Information

### Applications

Mass Merchandise  
Supermarkets  
Industrial  
Warehouses

### Application Notes

1. SuperSaver lamps should not be operated under the following conditions:
  - Do Not operate below 60 °F or in drafty conditions
  - Do Not operate on low power factor ballasts unless so labelled
  - Do Not operate on dimming ballast
  - Do Not operate on electronic ballasts unless so labelled
2. For cold temperature applications use full wattage lamps in enclosed fixtures or use tube guards to maximize lamp performance.

**Sample Specification**

Lamp(s) shall be SYLVANIA Slimline (F48T12 or F96T12) ECOLOGIC lamp(s) having single pin bases. Lamp(s) shall be designed to pass the Federal TCLP test in force at the time of manufacture. Lamp(s) shall have a correlated color temperature of (3000K, 4100K, 4150K or 4200K) and a CRI of (48, 52, 62, 70 or 80).

**Two Lamp Comparison**

Lamp Type	Lamp Lumens	Ballast Type	Ballast Factor	System Wattage	System Lumens	Lumen Maint.	Mean System Lumens	Mean LPW	% Lumens	% Energy Savings
F96T12/D41/ECO	6420	ES Mag.	0.94	158	12,070	0.92	11,100	70	100%	0%
F96T12/CW/SS/ECO	5300	ES Mag.	0.88	126	9330	0.88	8210	65	74%	20%
F96T12/CW/SS/ECO	5300	QT Elec.	0.88	110	9330	0.88	8210	75	74%	30%
F96T12/D41/ECO	6420	QT Elec.	0.88	135	11,300	0.92	10,400	77	94%	15%
F96T12/D41/SS/ECO	5600	QT Elec.	0.88	110	9860	0.92	9070	83	82%	30%
F96T12/D841//ECO	6550	QT Elec.	0.88	135	11,530	0.94	10,840	80	98%	15%
F96T12/D841/SS/ECO	5800	QT Elec.	0.88	110	10,210	0.94	9600	87	86%	30%

**Ordering and Specification Information**

ECOLOGIC Fluorescent Lamps - F96T12, Instant Start, (Slimline, single pin bases, 96" nominal length)

Item Number	Ordering Abbreviation	Description	Nominal Watts (in)	Average Rated Life (Hours)*	Initial Lumens	Mean Lumens	Color Temp.	CRI
24827	F48T12/CW/ECO	Cool White	39	9000	2820	2482	4200K	62
24836	F48T12/D/ECO	Daylight	39	9000	2450	2156	6500K	76
29795	F96T12/WW/SS/ECO	Warm White SuperSaver	60	12,000	5500	4840	3000K	52
29796	F96T12/D30/ECO	Designer 700	75	12,000	6420	5906	3000K	70
29809	F96T12/D30/SS/ECO	Designer 700 SuperSaver	60	12,000	5600	5152	3000K	70
29856	F96T12/D830/ECO	Designer 800	75	12,000	6550	6157	3000K	80
29854	F96T12/D830/SS/ECO	Designer 800 SuperSaver	60	12,000	5800	5452	3000K	80
29686	F96T12/D35/ECO	Designer 700	75	12,000	6420	5906	3500K	70
29808	F96T12/D35/SS/ECO	Designer 700 SuperSaver	60	12,000	5600	5152	3500K	70
29838	F96T12/D835/ECO	Designer 800	75	12,000	6550	6157	3500K	80
29859	F96T12/D835/SS/ECO	Designer 800 SuperSaver	60	12,000	5800	5452	3500K	80
29798	F96T12/D41/ECO	Designer 700	75	12,000	6420	5906	4100K	70
29853	F96T12/D41/SS/ECO	Designer 700 SuperSaver	60	12,000	5600	5152	4100K	70
29850	F96T12/D841/ECO	Designer 800	75	12,000	6550	6157	4100K	80
29860	F96T12/D841/SS/ECO	Designer 800 SuperSaver	60	12,000	5800	5452	4100K	80
29505	F96T12/CW/SS/ECO	Cool White SuperSaver	60	12,000	5300	4664	4200K	62

\* Based on 3 hours per start on magnetic instant start ballasts.

**Ordering Guide**

F	96	T12	/	D835	/	SS	/	ECO
Fluorescent	96 = 96" lamp	T = tubular 12 = 12 eights inch diameter		D = Designer Series 8 = 80 CRI 30 = 3000K 35 = 3500K 41 = 4100K CW = Cool White D = Daylight WW = Warm White		SS = Super Saver		ECOLOGIC

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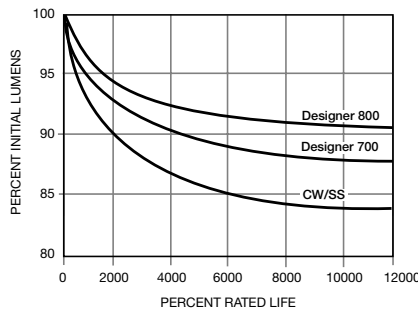
Phone: 1-800-265-2852  
Fax: 1-800-667-6772

**Dimensions**

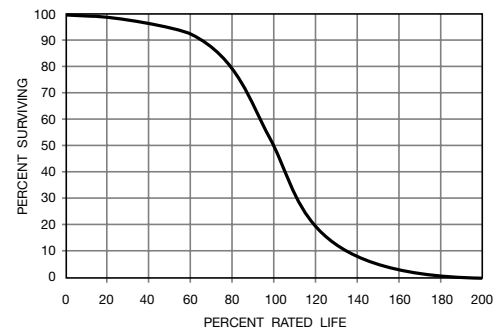
	(A) MOL (in.)	(B) Max. Base Face to Opposite Pin Min. (in.)	(C) Max. Base Face to Base Face Min. (in.)	(D) Max. Outside Diameter (in.)
F48T12	46.00	45.42	45.65	1.6
F96T12	94.00	93.42	93.65	1.6

**Technical Information**

**F96T12/CW/SS vs F96T12/D700vs F96T12/D800  
Lumen Maintenance Curve**



**Typical Fluorescent Lamp Mortality\***



\* Source: IES Lighting Book