# DULUX® T/E/IN SUPERSAVER® ECOLOGIC®

## **Energy Saving Compact Fluorescent Lamps**



SYLVANIA DULUX T/E/IN SUPERSAVER compact fluorescent lamps are energy saving replacements for full wattage triple tube compact fluorescent lamps. No ballast change is required to reduce energy costs by up to 19%. These lamps feature amalgam technology which improves light output over a wide ambient temperature range. They are designed to be operated on existing, energy efficient electronic and dimming ballasts.

For new installations, DULUX T/E/IN SUPERSAVER lamps are ideally paired with QUICKTRONIC® PROStart® CF electronic ballasts. The lamp and ballast system is covered by the exclusive SYLVANIA QUICK 60+® system warranty of up to 12 months for DULUX lamps and 60 months for QUICKTRONIC ballast.

### **Application Information**

## Applications

- Recessed ceiling fixtures
- Wall sconces

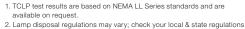
#### **Key Features & Benefits**

- Direct, energy-saving replacements for 26W, 32W and 42W triple tube compact fluorescent lamps
- Up to 19% energy savings when compared with full wattage triple tube lamps
- Operates on existing ballast systems
  - Flicker-free start on electronic ballasts
  - Compatible with OSRAM QUICKTRONIC PROStart CF ballasts

- Long 18,000 hour average rated life.
   Greater average rated life of 26,000 hours is available in select lamp types.
- Dimmable
- Fast run-up to full brightness
- Amalgam improves high temperature performance
  - Maintains 90% lumens from 40° to 140°F ambient
- Rare earth tri-phosphor with 82 CRI
- TCLP compliant

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









## **Product Offering**

Lamp	Watts	CCT
CF26DT/E/IN/21W/SS/8XX/ECO	21	3000K, 3500K, 4100K
CF32DT/E/IN/28W/SS/8XX/ECO	28	3000K, 3500K, 4100K
CF42DT/E/IN/38W/SS/8XX/ECO	38	3000K, 3500K, 4100K

#### **Application Notes**

- 1. 4-Pin lamps designed for dimming and electronic ballast operation.
- 2. For horizontal operation, install lamp with etch facing down.
- 3. Minimum starting temperature depends on ballast.
- 4. Rule of thumb: to estimate the appropriate compact fluorescent lamp wattage, divide the incandescent wattage by 4.
- Equipment manufacturers are advised to consult ANSI and IEC standards for the maximum allowable dimensions and temperature to insure compatibility with similar products.
- QUICKTRONIC PROStart CF electronic ballasts are UCSA Certified and FCC 47CFR Part 18 Consumer Rated.
- 7. NEMA and LEDVANCE require that electronic ballasts for CFL lamps feature end-of-life shutdown circuitry.
- 8. OSRAM QUICKTRONIC ballasts feature QUICKSENSE® circuitry for end-of-life protection required by NEMA.



## **Specification Data**

Catalog #	Туре
Project/Job	
SYLVANIA Lamp	
SYLVANIA Ballast	
Prepared by	

## **Ordering Information**

Item	Ordering	NEMA Generic					Initial	Mean	Color		Avg. Rated
Number	Abbreviation	Designation	Base	Watts	Volts <sup>1</sup>	Amps <sup>1</sup>	Lumens	Lumens <sup>2</sup>	Temp.	CRI	Life (hrs.) <sup>3</sup>
DULUX SS	ECO										
211004	CF26DT/E/IN/21W/SS/830/EC0	CFTR26W/GX24q/30	GX24q-3	21	80	.300	1470	1260	3000K	82	18,000
211014	CF26DT/E/IN/21W/SS/835/EC0	CFTR26W/GX24q/35	GX24q-3	21	80	.300	1470	1260	3500K	82	18,000
21102 <sup>4</sup>	CF26DT/E/IN/21W/SS/841/EC0	CFTR26W/GX24q/41	GX24q-3	21	80	.300	1470	1260	4100K	82	18,000
211064	CF32DT/E/IN/28W/SS/830/EC0	CFTR32W/GX24q/30	GX24q-3	28	100	.320	1960	1690	3000K	82	18,000
211034	CF42DT/E/IN/38W/SS/830/EC0	CFM42W/GX24q/30	GX24q-4	38	135	.320	2600	2235	3000K	82	18,000
DULUX SS	XL ECO										
21107	CF32DT/E/IN/28W/SS/835/EC0	CFTR32W/GX24q/35	GX24q-3	28	100	.320	1960	1690	3500K	82	26,000
21108	CF32DT/E/IN/28W/SS/841/EC0	CFTR32W/GX24q/41	GX24q-3	28	100	.320	1960	1690	4100K	82	26,000
21104	CF42DT/E/IN/38W/SS/835/ECO	CFM42W/GX24q/35	GX24q-4	38	135	.320	2600	2235	3500K	82	26,000
21105	CF42DT/E/IN/38W/SS/841/EC0	CFM42W/GX24q/41	GX24q-4	38	135	.320	2600	2235	4100K	82	26,000

- Measured on high-frequency ballast.
   Measured at 40% of rated life.
- 2. Measured at 40.0 for lated in 40.0 for lated

## **Ordering Guide**

CF	26	DT	1	E	1	IN	1	21W	/	SS	1	8	35	1	ECO
Compact	Lamp Type	DULUX®		Electronic		Amalgam		Wattage		SUPERSAVER®		8 = 82 CRI	30 = 3000K CCT		ECOLOGIC®
Fluorescent		Triple		Ballast				21, 28 or 38					35 = 3500K CCT		
													41 = 4100K CCT		

#### **System Comparison**

### Compact Fluorescent vs. Incandescent

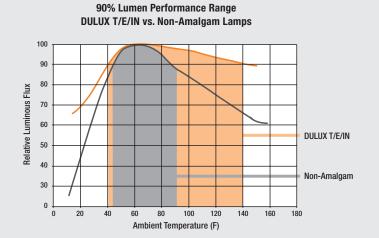
Lamp Type	Rated Lamp Life (hrs.)	System Lumens	System Wattage	System LPW	Energy Savings <sup>1</sup>
100W Incandescent	750	1710	100	17	_
DULUX T/E/IN/SS 28W w/QUICKTRONIC® CF	18,000	1826	31	59	\$124

<sup>1.</sup> Based on an energy cost of \$0.10/kWh over the life of the lamp.

## **Lamp Dimensions**

Length	(A) MOL [in. (mm)]	(B) Max. Base Face to Top of Lamp [in. (mm)]	(C) Max. Base Width [in. (mm)]	(D) Guide Post [in. (mm)]	
CF26DT/E/IN/21W/SS/8XX/ECO	4.96 (126)	4.33 (110)	1.90 (48)	0.62 (16)	_              <sub> </sub>
CF32DT/E/IN/28W/SS/8XX/ECO	5.60 (142)	4.96 (126)	1.90 (48)	0.62 (16)	_ A
CF42DT/E/IN/38W/SS/8XX/ECO	6.42 (163)	5.78 (147)	1.90 (48)	0.62 (16)	

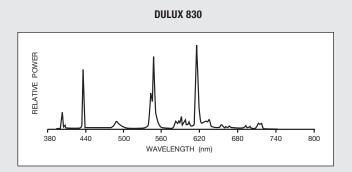
#### **Technical Information**

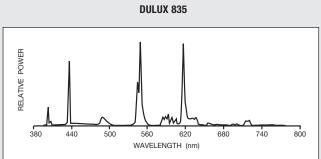


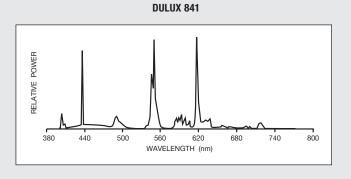
#### **Typical Fluorescent Lamp Mortality** 100 90 80 PERCENT SURVIVING 70 60 50 40 30 20 10 0 0 20 40 60 80 100 120 140 160 180 200 PERCENT RATED LIFE

#### **Lumen Run-Up Comparison** 110% 100% 90% RELATIVE LIGHT OUTPUT (%) 80% 70% 60% Non-Amalgam lamp Amalgam lamp 50% 40% 30% 20% 10% 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 TIME (MIN)

## **Spectral Power Distributions**







#### **Sample Specification**

Lamp(s) shall be (a) DULUX® (CF26DT/E/IN/21W/SS/8XX/ECO, CF32DT/E/IN/28W/SS/8XX/ECO or CF42DT/E/IN/38W/SS/8XX/ECO) ECOLOGIC® lamps and pass existing Federal TCLP limits. Lamp(s) shall have an average rated life of 18,000 hours, a correlated color temperature of (3000K, 3500K or 4100K), and a CRI of 82. Lamps shall have a GX24q-3 plug-in or GX24q-4 plug-in, 4-pin base and be suitable for use on electronic and dimming ballasts. Lamps shall be operated by OSRAM QUICKTRONIC® ballasts. Both lamps and ballasts are covered by the QUICK 60+® system warranty.

#### **Related Literature**

### For optimum system performance and warranty pair with QUICKTRONIC CF ballast.

QUICKTRONIC CF – Electronic Ballasts Systems (ECS073)

Ballast Technology Applications & Specifications Guide (ECS-SPECGUIDE2013)

QUICK 60+ System Warranty (ECS140)

LEDVANCE LLC 200 Ballardvale Street Wilmington, MA 01887 USA Phone 1-800-LIGHTBULB (1-800-544-4828) www.sylvania.com

SYLVANIA and LEDVANCE are registered trademarks.

All other trademarks are those of their respective owners.

Licensee of product trademark SYLVANIA in general lighting.

Specifications subject to change without notice.





