

# DULUX® T/E/IN ECOLOGIC® Family of Lamps

4-Pin Amalgam Compact Fluorescent Lamps:  
Standard, SUPERSAVER®, and XL EXTened Life Options

SYLVANIA DULUX T/E/IN, T/E/IN/SS, T/E/IN/XL, and T/E/IN/XL/SS compact fluorescent lamps are ideal for use in a wide range of commercial and residential applications. They are designed to be operated on energy efficient electronic and dimming ballasts.

All lamps in this family contain amalgam technology which provides higher lumens over a much wider temperature range than non-amalgam lamps.

SUPERSAVER compact fluorescent lamps are energy saving replacements for full wattage triple tube cfl lamps. No ballast change is required to reduce energy costs by up to 19%.

Extended Life Lamps are direct replacements for standard life DULUX T/E/IN lamps and provide up to 67% longer life. Additionally, the EXTended Life SUPERSAVER versions have long life, the energy savings, and improved lumen output of 6% of the standard life SUPERSAVER lamps.

For all lamps, the triple tube configuration of these lamps allows for single-lamp luminaire designs with improved efficacy and photometric performance.



## Benefits and Features

- Improved lumen output vs. non-amalgam triple tube lamps
  - Maintains 90% lumens from 40° to 140°F ambient
- XL EXTended Life versions have long average rated life of 26,000 hours at 3 hours per start and 30,000 hours at 12 hours per start
- Up to 19% energy savings when using SUPERSAVER versions verses full wattage lamps.
- Fast run-up to full brightness
- ECOLOGIC passes Federal TCLP Test\*
- RoHS compliant
- Operates electronic ballasts systems
  - Flicker-free starting and dimmable
- High luminous efficacy
- Rare earth tri-phosphor with 82 CRI
- Less power consumption than incandescent of comparable light output

## Product Offering

Description	Wattage	Color Temperature
CF18DT/E/IN/ECO	18	2700K, 3000K, 3500K, 4100K
CF26DT/E/IN/ECO	26	2700K, 3000K, 3500K, 4100K
CF32DT/E/IN/ECO	32	2700K, 3000K, 3500K, 4100K
CF42DT/E/IN/ECO	42	2700K, 3000K, 3500K, 4100K
CF26DT/E/IN/21W/SS/ECO	21	3500K
CF32DT/E/IN/28W/XL/SS/ECO	28	3500K, 4100K
CF26DT/E/IN/XL/ECO	26	3500K, 4100K
CF32DT/E/IN/XL/ECO	32	3500K, 4100K
CF42DT/E/IN/XL/ECO	42	3500K, 4100K

## Application Usage

- Recessed downlights
- Surface mounted luminaires
- Wall sconces

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

\*Regulations may vary. Check your local and state regulations.



## Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

### Ordering Guide

CF	18	DT	E	IN	21W	XL	SS	8	27	ECO
Compact Fluorescent	Lamp Type / Wattage for full wattage lamps: 18 = 18W, 26 = 26W, 32 = 32W, 42 = 42W	DULUX® Triple	Electronic Ballast	Amalgam	Wattage 21 or 28	Extended Life	SUPERSAVER®	8 = 82 CRI	27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K	ECOLOGIC®

### Ordering Information

Naed	Ordering Abbreviation	NEMA Generic Designation	Base	Watts	Volts	Amps	Initial Lumens	Mean Lumens	Color Temp	CRI	Average Rated Life (hrs)
20875	CF18DTEIN827ECO	CFTR18W/GX24q/27	GX24q-2	18	80	0.210	1,200	1,032	2700K	82	12,000
20876	CF18DTEIN830ECO	CFTR18W/GX24q/30	GX24q-2	18	80	0.210	1,200	1,032	3000K	82	12,000
20877	CF18DTEIN835ECO	CFTR18W/GX24q/35	GX24q-2	18	80	0.210	1,200	1,032	3500K	82	12,000
20878	CF18DTEIN841ECO	CFTR18W/GX24q/41	GX24q-2	18	80	0.210	1,200	1,032	4100K	82	12,000
20879	CF26DTEIN827ECO	CFTR26W/GX24q/27	GX24q-3	26	80	0.300	1,800	1,548	2700K	82	12,000
20880	CF26DTEIN830ECO	CFTR26W/GX24q/30	GX24q-3	26	80	0.300	1,800	1,548	3000K	82	12,000
20881	CF26DTEIN835ECO	CFTR26W/GX24q/35	GX24q-3	26	80	0.300	1,800	1,548	3500K	82	12,000
20882	CF26DTEIN841ECO	CFTR26W/GX24q/41	GX24q-3	26	80	0.300	1,800	1,548	4100K	82	12,000
20883	CF32DTEIN827ECO	CFTR32W/GX24q/27	GX24q-3	32	100	0.320	2,400	2,064	2700K	82	12,000
20884	CF32DTEIN830ECO	CFTR32W/GX24q/30	GX24q-3	32	100	0.320	2,400	2,064	3000K	82	12,000
20885	CF32DTEIN835ECO	CFTR32W/GX24q/35	GX24q-3	32	100	0.320	2,400	2,064	3500K	82	12,000
20886	CF32DTEIN841ECO	CFTR32W/GX24q/41	GX24q-3	32	100	0.320	2,400	2,064	4100K	82	12,000
20887	CF42DTEIN827ECO	CFTR42W/GX24q/27	GX24q-4	42	135	0.320	3,200	2,752	2700K	82	12,000
20888	CF42DTEIN830ECO	CFTR42W/GX24q/30	GX24q-4	42	135	0.320	3,200	2,752	3000K	82	12,000
20871	CF42DTEIN835ECO	CFTR42W/GX24q/35	GX24q-4	42	135	0.320	3,200	2,752	3500K	82	12,000
20890	CF42DTEIN841ECO	CFTR42W/GX24q/41	GX24q-4	42	135	0.320	3,200	2,752	4100K	82	12,000
21101	CF26DTEIN21W835SSECO	CFTR26W/GX24q/35	GX24q-3	21	72	0.300	1,470	1,260	3500K	82	18,000
21107	CF32DTEIN28W835XLSSECO	CFTR32W/GX24q/35	GX24q-3	28	88	0.320	2,000	1,725	3500K	82	26,000
21108	CF32DTEIN28W841XLSSECO	CFTR32W/GX24q/41	GX24q-3	28	88	0.320	2,000	1,725	4100K	82	26,000
21389	CF26DTEIN835XLECO	CFTR26W/GX24q/35	GX24q-3	26	80	0.300	1,800	1,548	3500K	82	26,000
21390	CF26DTEIN841XLECO	CFTR26W/GX24q/41	GX24q-3	26	80	0.300	1,800	1,548	4100K	82	26,000
21393	CF32DTEIN835XLECO	CFTR32W/GX24q/35	GX24q-3	32	120	0.320	2,400	2,064	3500K	82	26,000
21394	CF32DTEIN841XLECO	CFTR32W/GX24q/41	GX24q-3	32	100	0.320	2,400	2,064	4100K	82	26,000
21397	CF42DTEIN835XLECO	CFTR42W/GX24q/35	GX24q-4	42	135	0.320	3,200	2,752	3500K	82	26,000
21398	CF42DTEIN841XLECO	CFTR42W/GX24q/41	GX24q-4	42	135	0.320	3,200	2,752	4100K	82	26,000

Notes:

1. Measured on high-frequency ballast
2. Measured at 40% of rated life.
3. Based on 3 hours per start. Life at 12 hours per start is 30,000 hours. Number of operating hours when half have failed and half are still functional.

### System Comparison

#### Compact Fluorescent vs. Incandescent

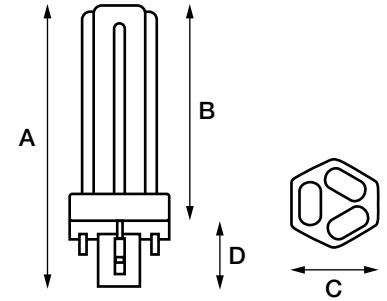
Lamp Type	Rated Lamp Life (hrs) <sup>1</sup>	System Lumens	System Wattage	System LPW	Energy Savings <sup>2</sup>
100W Incandescent	720	1,710	100	17	-
DULUX TE/IN 26W w/Electronic CF Ballast	16,000	1800	28	64	\$115
DULUX TE/IN/XL 26W w/Electronic CF Ballast	26,000	1800	28	64	\$115
DULUX TE/IN/SS 28W w/Electronic CF Ballast	18,000	1,826	31	59	\$124
150W Incandescent	750	2,740	150	18.5	-
DULUX TE/IN 42W w/Electronic CF Ballast	16,000	3200	46	70	\$66
DULUX TE/IN/XL 42W w/Electronic CF Ballast	26,000	3200	46	70	\$66

Notes:

1. Based on 3 hours per start
2. Based on energy cost of \$0.10/kWh over the life of the lamp

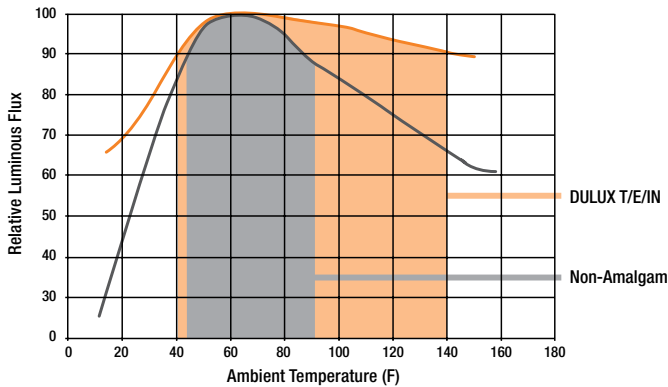
## Lamp Dimensions

Lamp Dimensions	(A) MOL in (mm)	(B) Max Base Face to Top of Lamp in (mm)	(C) Max Base Width in (mm)	(D) Guide Post Length in (mm)
CF18DTEIN	4.37 (111)	3.74 (95)	1.93 (49)	0.62 (16)
CF26DTEIN, CF26DTE/IN/SS, CF26DTE/IN/XL	5.02 (127.5)	4.4 (111.5)	1.93 (49)	0.62 (16)
CF32DTEIN, CF32DTE/IN/SL/SS, CF32DTE/IN/XL	5.67 (144)	5.04 (128)	1.93 (49)	0.62 (16)
CF42DTEIN, CF42DTE/IN/XL	6.50 (165)	5.87 (149)	1.93 (49)	0.62 (16)

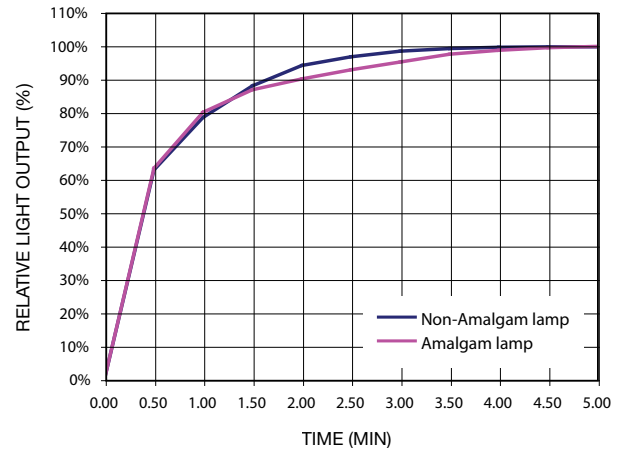


## Technical Information

90% Lumen Performance Range  
DULUX T/E/IN vs. Non-Amalgam Lamps



Lumen Run-Up Comparison



## Sample Specification

Lamp(s) shall be DULUX® (CF18DT/E/IN, CF26DT/E/IN, CF32DT/E/IN, CF42DT/E/IN, CF26DT/E/IN/21W/SS, CF32DT/E/IN/28W/XL/SS, CF26DT/E/IN/XL, CF32DT/E/IN/XL or CF42DT/E/IN/XL) (EXtended Life, SUPERSAVER®, or EXtended Life SUPERSAVER®) ECOLOGIC® lamps and pass existing Federal TCLP limits. Lamp(s) shall have an average rated life of (12,000, 18,000 or 26,000) hours, a correlated color temperature of (2700K, 3000K, 3500K, 4100K) and a CRI of 82. Lamps shall have a (GX24q-2, GX24q-3, or GX24q-4) plug-in 4-pin base and be suitable for use on electronic and dimming ballasts.

## Application Information

1. 4-pin lamps are designed for use with programmed rapid start ballasts. Not recommended for use with IS ballasts.
2. Minimum starting temperature depends on ballast.
3. Rule of thumb: to estimate the appropriate compact fluorescent lamp wattage, divide the incandescent wattage by 4.
4. Equipment manufacturers are advised to consult ANSI and IEC standards for the maximum allowable dimensions and temperature to insure compatibility with similar products.
5. For horizontal operation, install lamp with etch facing down.

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