DULUX® T/E/IN ECOLOGIC®

4-Pin Amalgam Compact Fluorescent Lamps



SYLVANIA DULUX T/E/IN 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.

SYLVANIA DULUX T/E/IN lamps are long-life, energy-saving alternatives for incandescent lamps. Amalgam technology provides higher lumens over a much wider temperature range. Short lamp design with photometric benefits of a triple tube lamp provides for efficient fixture design.

Key Features & Benefits

- Fast run-up to full brightness
- Passes Federal TCLP Test*
- Improved high temperature performance
  - Maintains 90% lumens from 40° to 140°F ambient
- Operates on various ballast systems
  - Flicker-free start on electronic ballasts
  - Compatible with QUICKTRONIC® PROStart CF
- Less power consumption than incandescent of comparable light output
- High luminous efficacy
- Long 12,000 hour average rated life
- Rare earth tri-phosphor with 82 CRI
- 2700K, 3000K, 3500K and 4100K
- RoHS compliant

* 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.

ECOLOGIC®

Product Offering

Lamp	Wattage	Rated Lumens
CF18DT/E/IN	18	1,200
CF26DT/E/IN	26	1,800
CF32DT/E/IN	32	2,400
CF42DT/E/IN	42	3,200

Application Information

Applications

- Garden and walkway lighting
- Recessed ceiling fixtures
- Wall sconces

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

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

Application Notes

1. 4-Pin lamps designed for dimming and electronic ballast operation.
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. QUICKTRONIC PROStart CF electronic ballasts are UCSA Certified and FCC 47CFR Part 18 Consumer Rated.
6. For horizontal operation, install lamp with etch facing down.
7. QUICKTRONIC ballasts feature QUICKSENSE® circuitry for end-of-life protection required by NEMA.

Specification Data

Catalog # Type

Project

Comments

Prepared by Date

Ordering Information

Item Number	Ordering Abbreviation	NEMA Generic Designation	Base	Watts	Volts[1]	Amps[1]	Initial Lumens	Mean Lumens[2]	Color Temp.	CRI	Avg. Rated Life (hrs.) [3]
20875	CF18DT/E/IN/827/ECO	CFM18W/GX24q/27	GX24q-2	18	80	.210	1,200	1,032	2700K	82	12,000
20876	CF18DT/E/IN/830/ECO	CFM18W/GX24q/30	GX24q-2	18	80	.210	1,200	1,032	3000K	82	12,000
20877	CF18DT/E/IN/835/ECO	CFM18W/GX24q/35	GX24q-2	18	80	.210	1,200	1,032	3500K	82	12,000
20878	CF18DT/E/IN/841/ECO	CFM18W/GX24q/41	GX24q-2	18	80	.210	1,200	1,032	4100K	82	12,000
20879	CF26DT/E/IN/827/ECO	CFM26W/GX24q/27	GX24q-3	26	80	.300	1,800	1,548	2700K	82	12,000
20880	CF26DT/E/IN/830/ECO	CFM26W/GX24q/30	GX24q-3	26	80	.300	1,800	1,548	3000K	82	12,000
20881	CF26DT/E/IN/835/ECO	CFM26W/GX24q/35	GX24q-3	26	80	.300	1,800	1,548	3500K	82	12,000
20882	CF26DT/E/IN/841/ECO	CFM26W/GX24q/41	GX24q-3	26	80	.300	1,800	1,548	4100K	82	12,000
20883	CF32DT/E/IN/827/ECO	CFM32W/GX24q/27	GX24q-3	32	100	.320	2,400	2,064	2700K	82	12,000
20884	CF32DT/E/IN/830/ECO	CFM32W/GX24q/30	GX24q-3	32	100	.320	2,400	2,064	3000K	82	12,000
20885	CF32DT/E/IN/835/ECO	CFM32W/GX24q/35	GX24q-3	32	100	.320	2,400	2,064	3500K	82	12,000
20886	CF32DT/E/IN/841/ECO	CFM32W/GX24q/41	GX24q-3	32	100	.320	2,400	2,064	4100K	82	12,000
20887	CF42DT/E/IN/827/ECO	CFM42W/GX24q/27	GX42q-3	42	135	.320	3,200	2,752	2700K	82	12,000
20888	CF42DT/E/IN/830/ECO	CFM42W/GX24q/30	GX24q-4	42	135	.320	3,200	2,752	3000K	82	12,000
20871	CF42DT/E/IN/835/ECO	CFM42W/GX24q/35	GX24q-4	42	135	.320	3,200	2,752	3500K	82	12,000
20890	CF42DT/E/IN/841/ECO	CFM42W/GX24q/41	GX24q-4	42	135	.320	3,200	2,752	4100K	82	12,000

Notes:
1. Measured on high-frequency ballast
2. Measured at 40% of rated life.
3. Based on 3 hours per start. Number of operating hours when half have failed and half are still functional.

Ordering Guide

CF	26	DT	/	E	/	IN	/	835	/	ECO
Compact Fluorescent	Wattage	DULUX® Triple		Electronic Ballast		Amalgam		8 = 82 CRI 27=2700K CCT 30=3000K CCT 35=3500K CCT 41=4100K CCT		ECOLOGIC®

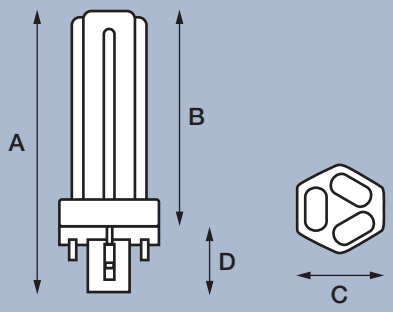
System Comparison

Compact Fluorescent vs. Incandescent

Lamp Type	Rated Lamp Life (hrs.)	System Lumens	System Wattage	System LPW	Energy Savings
100W Incandescent	750	1,710	100	17	–
DULUX T/E/IN 26W w/QUICKTRONIC® CF	12,000	1,830	28	65	$86
150W Incandescent	750	2,740	150	18.5	–
DULUX T/E/IN 42W w/QUICKTRONIC CF	12,000	3,200	46	70	$124

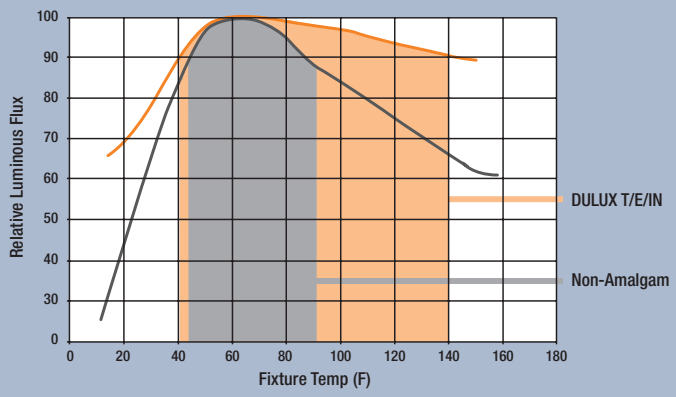
Lamp Dimensions

	(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)]
CF18DT/E/IN	4.77 (121)	3.74 (95)	1.90 (48)	0.62 (16)
CF26DT/E/IN	4.96 (126)	4.33 (110)	1.90 (48)	0.62 (16)
CF32DT/E/IN	5.60 (142)	4.96 (126)	1.90 (48)	0.62 (16)
CF42DT/E/IN	7.76 (197)	7.13 (181)	1.90 (48)	0.62 (16)

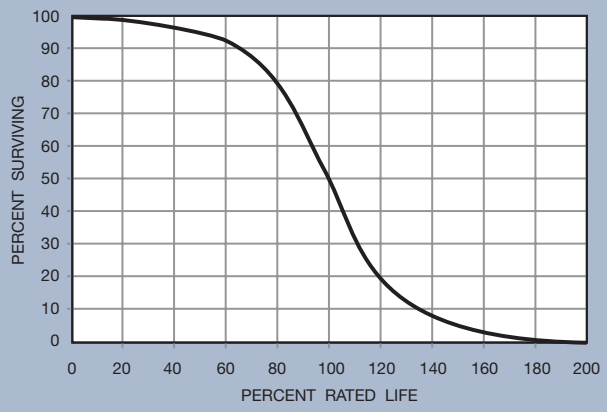


Technical Information

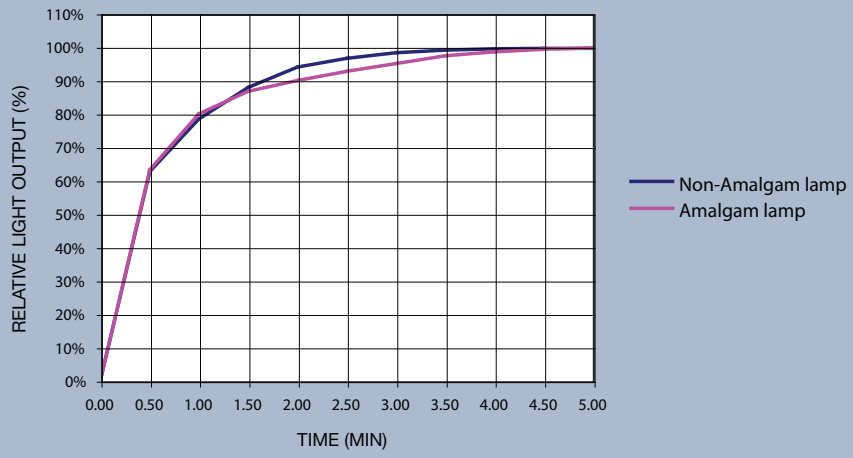
90% Lumen Performance Range
DULUX T/E/IN vs. Non-Amalgam Lamps



Typical Fluorescent Lamp Mortality



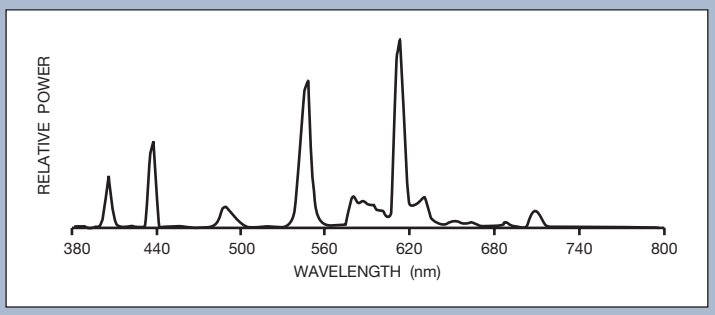
Lumen Run-Up Comparison



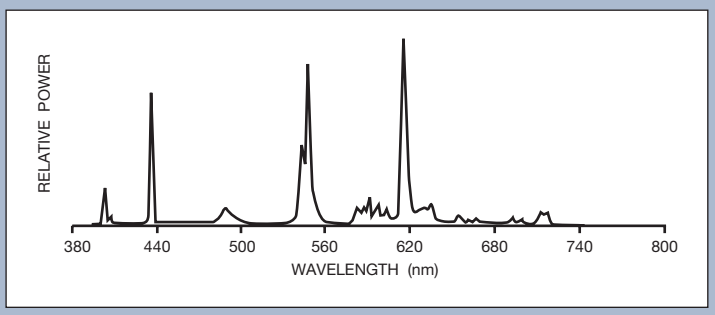
Technical Information

Spectral Power Distributions

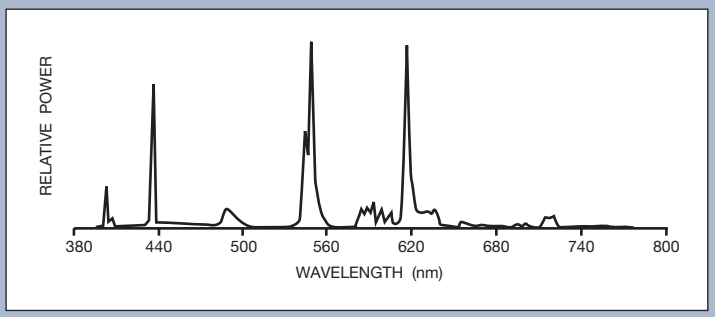
DULUX 827



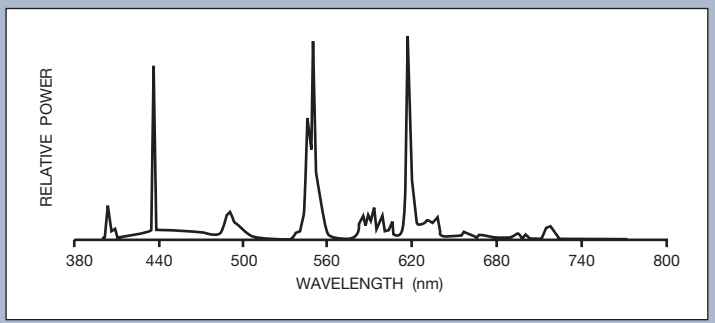
DULUX 830



DULUX 835



DULUX 841



Sample Specification

Lamp(s) shall be (a) DULUX® (CF18DT/E/IN, CF26DT/E/IN or CF32DT/E/IN) ECOLOGIC® lamps, with end-of-life shutdown protection and pass existing Federal TCLP limits. Lamp(s) shall have an average rated life of 12,000 hours, a correlated color temperature of (2700K, 3000K, 3500K or 4100K), and a CRI of 82. Lamps shall have a (GX24q-2, -3, -4 or -5) plug-in, 4-pin base and be suitable for use on electronic and dimming ballasts. Lamps shall be operated by QUICKTRONIC® ballasts. Both lamps and ballasts are covered by the QUICK 60+® system warranty.

Warranty Information

QUICK 60+ Warranty for OSRAM SYLVANIA lamp and ballast combination

Limited 6-month lamp warranty and a five-year ballast warranty is possible if both lamps and ballasts are provided by OSRAM SYLVANIA. See the QUICK 60+ warranty for details and restrictions.

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