

# DULUX® D ECOLOGIC®

## Compact Fluorescent Lamps



**SYLVANIA DULUX D ECOLOGIC lamps are long-life, energy-saving alternatives for incandescent lamps. When paired with SYLVANIA linear ECOLOGIC lamps, all the fluorescent lamps in an installation will be TCLP compliant.**

More compact than the DULUX S ECOLOGIC lamps, the 9 and 13 Watt DULUX D ECOLOGIC lamps are ideal for retrofitting existing fixtures<sup>1</sup> and for use in dedicated, energy-saving fixtures where a small overall length is required.

DULUX D ECOLOGIC 18 and 26 Watt lamps are used in dedicated fixture designs where high light output and maximum energy efficiency are required. They may also be used for retrofitting existing fixtures<sup>1</sup>.

1. With ballast adapter kits by others.

- High Efficacy
  - Uses less energy than an incandescent lamp of comparable lumen output
    - Reduced greenhouse gas and mercury emissions from power generation compared to incandescent lamps
- Long 10,000 hour average rated life
  - Reduces relamping requirements and related costs
- Pass Federal TCLP tests
  - Pair with linear ECOLOGIC lamps for TCLP compliant installations
- Rare earth phosphors – 82 CRI
- 2700K, 3000K, 3500K and 4100K color temperatures
- 85% lumen maintenance
- Symmetrical light distribution
- Two thirds the length of single compact lamps
- Plug-in base with integrated starter and interference suppresser

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



### Product Availability

Wattage	Lamp	Lumens
9W	CF9DD/800	525
13W	CF13DD/800	780
18W	CF18DD/800	1250
26W	CF26DD/800	1800

### System Comparison

*Compact Fluorescent vs Incandescent*

Lamp Type	Rated Lamp Life	Ballast Factor	System Lumens	System Wattage	System LPW	Energy Savings
26 Watt DULUX D ECOLOGIC	10,000 hours	.93	1674	33	51	67%
100 Watt Incandescent	750 hours	1.0	1710	100	17.1	—

### Application Information

#### Applications

Recessed ceiling fixtures  
Wall sconces  
Down lights  
Exit signs  
Showcase lighting  
Task lighting

#### Ballast Information

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

#### Application Notes

1. 2-Pin, preheat lamps designed for magnetic ballast operation.
2. Minimum starting temperatures available on next page.
3. Rule of thumb: to estimate the appropriate compact fluorescent lamp wattage, divide the incandescent wattage by 4.
4. Lamps manufactured to prevent socket deformation due to over heating when operated on magnetic ballasts of any supply voltage.
5. Glow switches in these lamps contain Kr-85.

#### Fixtures

Contact your local fixture agent for available fixtures.

**Sample Specification**

Lamp(s) shall be (a) DULUX D ECOLOGIC (CF9DD, CF13DD, CF18DD or CF26DD) lamps and shall pass existing Federal TCLP limits. Lamps shall have an average rated life of 10,000 hours, a correlated color temperature of (2700K, 3000K, 3500K or 4100K) and a CRI of 82. Lamps shall have a (G23-2, GX23-2, G24d-2, G24d-3) plug-in base with integrated starter and interference suppressor.

**Ordering and Specification Information**

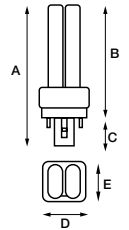
Item Number	Ordering Abbreviation	NEMA Generic Description	Watts	Base	Initial Lumens	Mean Lumens <sup>1</sup>	Color Temp.	CRI	Avg. Rated Life (hrs.) <sup>2</sup>	Min. Starting Temp. (F/C) <sup>3</sup>
20689	CF9DD/827	CFQ9W/G23/27	9	G23-2	525	446	2700K	82	10,000	14°/-10°
20783	CF9DD/830	CFQ9W/G23/30	9	G23-2	525	446	3000K	82	10,000	14°/-10°
20690	CF9DD/835	CFQ9W/G23/35	9	G23-2	525	446	3500K	82	10,000	14°/-10°
20691	CF13DD/827	CFQ13W/GX23/27	13	GX23-2	780	663	2700K	82	10,000	-4°/-20°
20705	CF13DD/830	CFQ13W/GX23/30	13	GX23-2	780	663	3000K	82	10,000	-4°/-20°
20692	CF13DD/835	CFQ13W/GX23/35	13	GX23-2	780	663	3500K	82	10,000	-4°/-20°
20708	CF13DD/841	CFQ13W/GX23/41	13	GX23-2	780	663	4100K	82	10,000	-4°/-20°
20676	CF18DD/827	CFQ18W/G24d/27	18	G24d-2	1250	1063	2700K	82	10,000	5°/-15°
20709	CF18DD/830	CFQ18W/G24d/30	18	G24d-2	1250	1063	3000K	82	10,000	5°/-15°
20677	CF18DD/835	CFQ18W/G24d/35	18	G24d-2	1250	1063	3500K	82	10,000	5°/-15°
20678	CF18DD/841	CFQ18W/G24d/41	18	G24d-2	1250	1063	4100K	82	10,000	5°/-15°
20679	CF26DD/827	CFQ26W/G24d/27	26	G24d-3	1800	1530	2700K	82	10,000	14°/-10°
20710	CF26DD/830	CFQ26W/G24d/30	26	G24d-3	1800	1530	3000K	82	10,000	14°/-10°
20680	CF26DD/835	CFQ26W/G24d/35	26	G24d-3	1800	1530	3500K	82	10,000	14°/-10°
20681	CF26DD/841	CFQ26W/G24d/41	26	G24d-3	1800	1530	4100K	82	10,000	14°/-10°

1. Measured at 40% (4000 hours) of rated life.
2. Based on 3 hours per start. Number of operating hours when half have failed and half are still operating.
3. At rated line voltage and correct lamp current.

**Ordering Guide**

CF	26	DD	/	835
Compact Fluorescent	Wattage: 9, 13, 18 or 26 watts	Dulux Double		8=82 CRI 27=2700K 35=3500K
				30=3000K 41=4100K

**Dimensions**



Ordering Abbreviation	(A) Max. Overall Length [in (mm)]	(B) Base Face to Top of Lamp [in (mm)]	(C) Guide Post Length [in (mm)]	(D) Max. Base Length [in (mm)]	(E) Max. Base Width [in (mm)]
CF9DD	4.33 (110)	3.38 (86)	0.9 (23)	1.38 (35)	1.38 (35)
CF13DD	4.65 (118)	3.74 (95)	0.9 (23)	1.38 (35)	1.38 (35)
CF18DD	6.02 (153)	5.12 (130)	0.9 (23)	1.38 (35)	1.38 (35)
CF26DD	6.81 (173)	5.87 (149)	0.9 (23)	1.38 (35)	1.38 (35)

T4 diameter glass tubing = 0.5 inches (12.7mm)

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

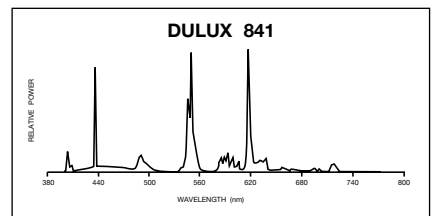
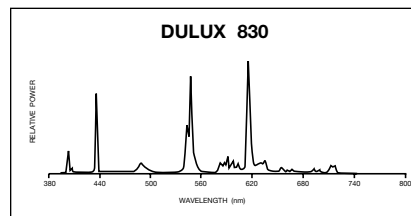
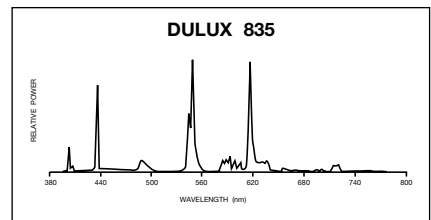
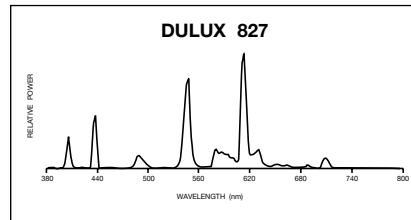
In Canada  
OSRAM SYLVANIA LTD.  
Headquarters  
2001 Drew Road  
Mississauga, ON L5S 1S4

**Industrial & Commercial**  
Phone: 1-800-263-2852  
Fax: 1-800-667-6772

**Special Markets**  
Phone: 1-800-265-2852  
Fax: 1-800-667-6772

**Technical Information**

**Spectral Power Distributions**



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