

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 fixtures¹ 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 fixtures¹.

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 | Ballast Information | Application Notes |
|--|--|--|
| Recessed ceiling fixtures Wall sconces Down lights Exit signs Showcase lighting Task lighting | Contact your OSRAM SYLVANIA representative for a list of compatible operating systems. | 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

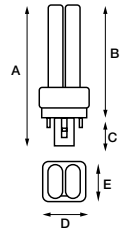
| Item Number | Ordering Abbreviation | NEMA Generic Description | Watts | Base | Initial Lumens | Mean Lumens ¹ | Color Temp. | CRI | Avg. Rated Life (hrs.) ² | Min. Starting Temp. (F/C) ³ |
|-------------|-----------------------|--------------------------|-------|--------|----------------|--------------------------|-------------|-----|-------------------------------------|--|
| 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)

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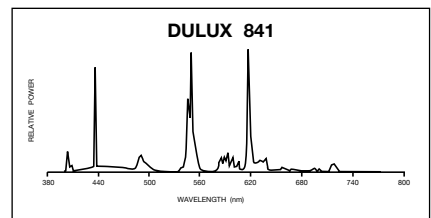
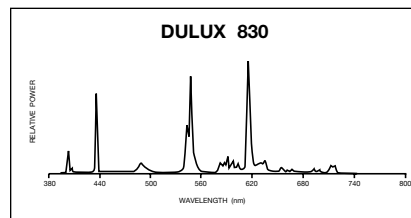
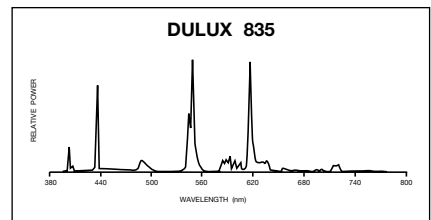
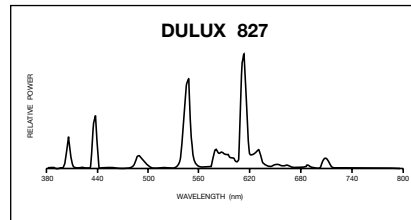
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Technical Information

Spectral Power Distributions



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