

# DULUX® D ECOLOGIC®

## Electronic Compact Fluorescent Lamps



SYLVANIA DULUX D ECOLOGIC lamps are long-life, energy-saving alternatives for incandescent lamps. When paired with SYLVANIA ECOLOGIC linear fluorescent 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 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.

### Application Information

#### Applications

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

### Key Features & Benefits

- 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
- TCLP and RoHS compliant
- Rare earth phosphors – 82 CRI
- 85% mean lumens
- Symmetrical light distribution
- Two thirds the length of single compact lamps
- Plug-in base with integrated starter and interference suppressor



This light source meets restrictions on hazardous substances.



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

### Product Offering

| Description | Watts | CCT                        |
|-------------|-------|----------------------------|
| CF9DD/800   | 9     | 2700K, 3500K, 4100K        |
| CF13DD/800  | 13    | 2700K, 3000K, 3500K, 4100K |
| CF18DD/800  | 18    | 2700K, 3000K, 3500K, 4100K |
| CF26DD/800  | 26    | 2700K, 3000K, 3500K, 4100K |

### 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 overheating when operated on magnetic ballasts of any supply voltage.



|             |
|-------------|
| Catalog #   |
| Project     |
| Comments    |
| Prepared by |

Ordering 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> |
|-------------|-----------------------|--------------------------|-------|--------|----------------|--------------------------|-------------|-----|-------------------------------------|--|
| 21122       | CF9DD/827/ECO         | CFQ9W/G23/27             | 9     | G23-2  | 525            | 446                      | 2700K       | 82  | 10,000                              | 14°/-10°                               |
| 21123       | CF9DD/835/ECO         | CFQ9W/G23/35             | 9     | G23-2  | 525            | 446                      | 3500K       | 82  | 10,000                              | 14°/-10°                               |
| 21117       | CF13DD/827/ECO        | CFQ13W/GX23/27           | 13    | GX23-2 | 780            | 663                      | 2700K       | 82  | 10,000                              | -4°/-20°                               |
| 21119       | CF13DD/830/ECO        | CFQ13W/GX23/30           | 13    | GX23-2 | 780            | 663                      | 3000K       | 82  | 10,000                              | -4°/-20°                               |
| 21118       | CF13DD/835/ECO        | CFQ13W/GX23/35           | 13    | GX23-2 | 780            | 663                      | 3500K       | 82  | 10,000                              | -4°/-20°                               |
| 21120       | CF13DD/841/ECO        | CFQ13W/GX23/41           | 13    | GX23-2 | 780            | 663                      | 4100K       | 82  | 10,000                              | -4°/-20°                               |
| 21109       | CF18DD/827/ECO        | CFQ18W/G24d/27           | 18    | G24d-2 | 1150           | 1075                     | 2700K       | 82  | 10,000                              | 5°/-15°                                |
| 21112       | CF18DD/830/ECO        | CFQ18W/G24d/30           | 18    | G24d-2 | 1150           | 1075                     | 3000K       | 82  | 10,000                              | 5°/-15°                                |
| 21110       | CF18DD/835/ECO        | CFQ18W/G24d/35           | 18    | G24d-2 | 1150           | 1075                     | 3500K       | 82  | 10,000                              | 5°/-15°                                |
| 21111       | CF18DD/841/ECO        | CFQ18W/G24d/41           | 18    | G24d-2 | 1150           | 1075                     | 4100K       | 82  | 10,000                              | 5°/-15°                                |
| 21113       | CF26DD/827/ECO        | CFQ26W/G24d/27           | 26    | G24d-3 | 1710           | 1548                     | 2700K       | 82  | 10,000                              | 14°/-10°                               |
| 21116       | CF26DD/830/ECO        | CFQ26W/G24d/30           | 26    | G24d-3 | 1710           | 1548                     | 3000K       | 82  | 10,000                              | 14°/-10°                               |
| 21114       | CF26DD/835/ECO        | CFQ26W/G24d/35           | 26    | G24d-3 | 1710           | 1548                     | 3500K       | 82  | 10,000                              | 14°/-10°                               |
| 21115       | CF26DD/841/ECO        | CFQ26W/G24d/41           | 26    | G24d-3 | 1710           | 1548                     | 4100K       | 82  | 10,000                              | 14°/-10°                               |

1. Measured at 40% 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

|                     |                             |                 |          |            |  |
|---------------------|-----------------------------|-----------------|----------|------------|--|
| <b>CF</b>           | <b>26</b>                   | <b>DD</b>       | <b>/</b> | <b>8</b>   | <b>35</b>  |
| Compact Fluorescent | Wattage:<br>9, 13, 18 or 26 | DULUX<br>Double |          | 8 = 82 CRI | 27 = 2700K<br>30 = 3000K<br>35 = 3500K<br>41 = 4100K |

System Comparison

Compact Fluorescent vs. Incandescent

| Lamp Type                | Rated Lamp Life (hrs.) | 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       | —              |

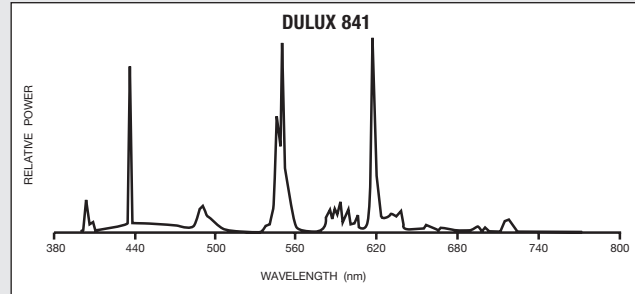
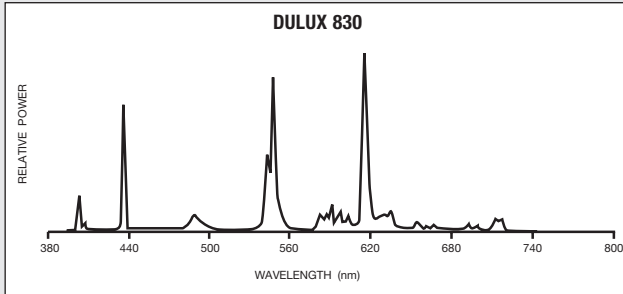
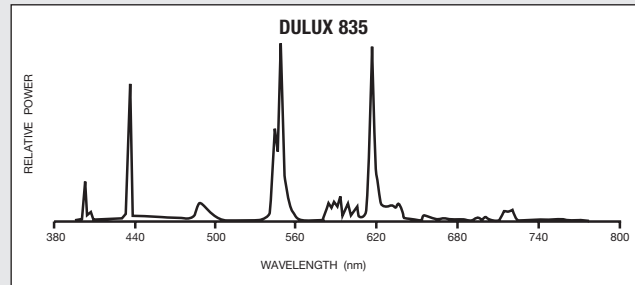
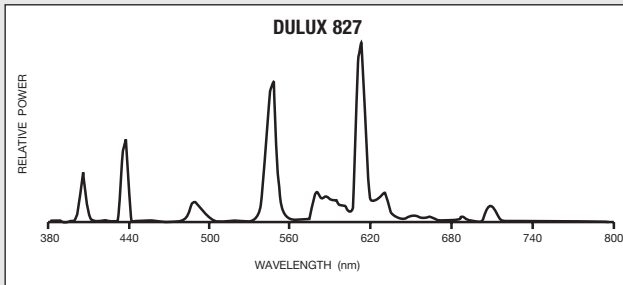
Lamp Dimensions

| Ordering Abbreviation | (A)<br>Max. Overall Length<br>[in (mm)] | (B)<br>Base Face to Top of Lamp<br>[in (mm)] | (C)<br>Guide Post Length<br>[in (mm)] | (D)<br>Max. Base Length<br>[in (mm)] | (E)<br>Max. Base Width<br>[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)

## Technical Information

### Spectral Power Distributions



### 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.

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