

DULUX® D/E ECOLOGIC® 4-Pin Compact Fluorescent Lamps



SYLVANIA DULUX D/E ECOLOGIC compact fluorescent lamps are long-life, energy-saving alternatives for incandescent lamps. The lamps are dimmable and when paired with electronic dimming ballasts, the system will maximize energy savings. These lamps have a small lamp size with the photometric benefits of a double-tube lamp that provides for efficient fixture design.

Key Features & Benefits

- Dimmable, compact fluorescent lamps for use on dimming and electronic ballasts
- Long 20,000 hour average rated life
- 86% mean lumens
- 82 CRI
- TCLP and RoHS compliant
- When compared to incandescent lamps:
 - Typically lasts up to 20 times longer
 - Uses about 1/4 the energy
 - Reduces relamping requirements and maintenance costs
- When paired with QUICKTRONIC® electronic ballast, this system is covered by the QUICK 60+ System Warranty, the industry's first and most comprehensive system warranty.

*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.



Product Offering

| Lamp Type | Wattage | CCT |
|-----------|---------|----------------------------|
| CF13DD/E | 13 | 2700K, 3000K, 3500K, 4100K |
| CF18DD/E | 18 | 2700K, 3000K, 3500K, 4100K |
| CF26DD/E | 26 | 2700K, 3000K, 3500K, 4100K |

Lamp Comparison

Compact Fluorescent vs Incandescent

| Lamp Type | Rated Lamp Life | Ballast Factor | System Lumens | System Wattage | System LPW | Energy Savings |
|------------------------------|-----------------|----------------|---------------|----------------|------------|----------------|
| 2 – 26 Watt DULUX D ECOLOGIC | 20,000 hours | 1.0 | 3600 | 48 | 51 | 76% |
| 1 – 200A Watt Incandescent | 750 hours | 1.0 | 3800 | 200 | 75 | – |

Application Information

Applications

- Exit signs
- Garden and walkway lighting
- Recessed ceiling fixtures
- Showcase lighting
- Task lighting
- Wall sconces

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. QUICKTRONIC ballasts feature QUICKSENSE® circuitry for end-of-life protection required by NEMA.
5. Equipment manufacturers are advised to consult ANSI and IEC standards for the maximum allowable dimensions and temperature to insure compatibility with similar products.



Specification Data

| | |
|----------------------|------|
| Fixture Description: | Type |
| Project/Job: | |
| SYLVANIA lamp: | |
| SYLVANIA ballast: | |
| Notes: | |

Ordering Information

| Item Number | Ordering Abbreviation | NEMA Generic Description | Watts | Base | Initial Lumens | Mean Lumens ¹ | Avg. Rated Life (hrs.) ² | CCT | CRI |
|-------------|-----------------------|--------------------------|-------|--------|----------------|--------------------------|-------------------------------------|-------|-----|
| 20682 | CF13DD/E/827 | CFQ13W/G24q/27 | 13 | G24q-1 | 900 | 775 | 20,000 | 2700K | 82 |
| 20721 | CF13DD/E/830 | CFQ13W/G24q/30 | 13 | G24q-1 | 900 | 775 | 20,000 | 3000K | 82 |
| 20671 | CF13DD/E/835 | CFQ13W/G24q/35 | 13 | G24q-1 | 900 | 775 | 20,000 | 3500K | 82 |
| 20667 | CF13DD/E/841 | CFQ13W/G24q/41 | 13 | G24q-1 | 900 | 775 | 20,000 | 4100K | 82 |
| 20683 | CF18DD/E/827 | CFQ18W/G24q/27 | 18 | G24q-2 | 1150 | 990 | 20,000 | 2700K | 82 |
| 20724 | CF18DD/E/830 | CFQ18W/G24q/30 | 18 | G24q-2 | 1150 | 990 | 20,000 | 3000K | 82 |
| 20672 | CF18DD/E/835 | CFQ18W/G24q/35 | 18 | G24q-2 | 1150 | 990 | 20,000 | 3500K | 82 |
| 20668 | CF18DD/E/841 | CFQ18W/G24q/41 | 18 | G24q-2 | 1150 | 990 | 20,000 | 4100K | 82 |
| 20684 | CF26DD/E/827 | CFQ26W/G24q/27 | 26 | G24q-3 | 1710 | 1470 | 20,000 | 2700K | 82 |
| 20722 | CF26DD/E/830 | CFQ26W/G24q/30 | 26 | G24q-3 | 1710 | 1470 | 20,000 | 3000K | 82 |
| 20673 | CF26DD/E/835 | CFQ26W/G24q/35 | 26 | G24q-3 | 1710 | 1470 | 20,000 | 3500K | 82 |
| 20669 | CF26DD/E/841 | CFQ26W/G24q/41 | 26 | G24q-3 | 1710 | 1470 | 20,000 | 4100K | 82 |

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.

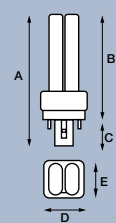
Ordering Guide

| CF | 26 | DD | / | E | / | 8 | 27 |
|---------------------|-----------------------------|--------------|---|-------------------------------------|---|------------|--|
| Compact Fluorescent | Wattage: 13, 18 or 26 watts | DULUX Double | / | for electronic and dimming ballasts | / | 8 = 82 CRI | 27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K |

Lamp 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 Width [in (mm)] |
|-----------------------|---|--|---------------------------------------|-------------------------------------|
| CF13DD/E | 5.2 (132) | 4.5 (114) | 0.62 (16) | 1.4 (35) |
| CF18DD/E | 5.8 (147) | 5.1 (130) | 0.62 (16) | 1.4 (35) |
| CF26DD/E | 6.6 (168) | 5.9 (150) | 0.62 (16) | 1.4 (35) |

T4 diameter glass tubing = 0.5 inches (12.7mm)



Related Literature

Ballast Technology and Specification Guide (Literature code ecs-electronic2009)
 QUICKTRONIC® HELIOS™ CF Universal Dimming Ballast (Literature code ECS255)
 QUICKTRONIC® PROstart® CF Universal Dual Entry Ballast (Literature code ECS236)
 QUICK 60+ System Warranty (Literature code ECS140)

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Sample Specification

Lamp(s) shall be (a) DULUX® D/E ECOLOGIC® (CF13D-D/E, CF18DD/E or CF26DD/E) lamps that pass existing Federal TCLP limits and is RoHS compliant. Lamps shall have an average rated life of 20,000 hours, a correlated color temperature of (2700K, 3000K, 3500K or 4100K), and a CRI of 82. Lamps shall have a (G24q-1, G24q-2, G24q-3) plug-in, 4-pin base and be suitable for use on electronic and dimming ballasts. Lamps shall be operated by QUICKTRONIC® Professional ballasts. Both lamps and ballasts covered by the QUICK 60+® system warranty.

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