

# DULUX® T/E/IN/XL ECOLOGIC®

## 4-Pin Amalgam EXtended LIfe Compact Fluorescent Lamps



SYLVANIA DULUX T/E/IN/XL 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/XL lamps are long-life, energy-saving alternatives for incandescent lamps. Amalgam technology provides higher lumens over a much wider temperature range than non-amalgam lamps. The triple tube configuration of these lamps allows for single-lamp luminaire designs with improved efficacy and photometric performance.

### Key Features & Benefits

- Improved lumen output vs. non-amalgam triple tube lamps
  - Maintains 90% lumens from 40° to 140°F ambient
- EXtended Long average rated life of 26,000 hours at 3 hours per start and 30,000 hours at 12 hours per start
- Fast run-up to full brightness
- ECOLOGIC passes Federal TCLP Test\*
- RoHS compliant
- Operates on electronic ballasts systems
  - Flicker-free starting and dimmable
  - Compatible with QUICKTRONIC® PROStart® CF
- High luminous efficacy
- Rare earth tri-phosphor with 82 CRI
- Less power consumption than incandescent of comparable light output



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

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

### Product Offering

| Description    | Wattage | CCT                        |
|----------------|---------|----------------------------|
| CF26DT/E/IN/XL | 26      | 2700K, 3000K, 3500K, 4100K |
| CF32DT/E/IN/XL | 32      | 2700K, 3000K, 3500K, 4100K |
| CF42DT/E/IN/XL | 42      | 2700K, 3000K, 3500K, 4100K |

### Application Information

#### Applications

- Recessed downlights
- Surface mounted luminaires
- Wall sconces

#### Application Notes

1. 4-pin lamps are designed for use with programmed rapid start ballasts. Not recommended for use with IS ballasts.
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/Job      |      |
| SYLVANIA Lamp    |      |
| SYLVANIA Ballast |      |
| Prepared by      |      |

## Ordering Information

| Item Number | Ordering Abbreviation  | NEMA Generic Designation | Base    | Watts | Volts <sup>1</sup> | Amps <sup>1</sup> | Initial Lumens | Mean Lumens <sup>2</sup> | Color Temp. | CRI | Avg. Rated Life (hrs.) <sup>3</sup> |
|-------------|------------------------|--------------------------|---------|-------|--------------------|-------------------|----------------|--------------------------|-------------|-----|-------------------------------------|
| 20879       | CF26DT/E/IN/827/XL/ECO | CFTR26W/GX24q/27         | GX24q-3 | 26    | 80                 | .300              | 1,800          | 1,548                    | 2700K       | 82  | 26,000                              |
| 20880       | CF26DT/E/IN/830/XL/ECO | CFTR26W/GX24q/30         | GX24q-3 | 26    | 80                 | .300              | 1,800          | 1,548                    | 3000K       | 82  | 26,000                              |
| 20881       | CF26DT/E/IN/835/XL/ECO | CFTR26W/GX24q/35         | GX24q-3 | 26    | 80                 | .300              | 1,800          | 1,548                    | 3500K       | 82  | 26,000                              |
| 20882       | CF26DT/E/IN/841/XL/ECO | CFTR26W/GX24q/41         | GX24q-3 | 26    | 80                 | .300              | 1,800          | 1,548                    | 4100K       | 82  | 26,000                              |
| 20883       | CF32DT/E/IN/827/XL/ECO | CFTR32W/GX24q/27         | GX24q-3 | 32    | 100                | .320              | 2,400          | 2,064                    | 2700K       | 82  | 26,000                              |
| 20884       | CF32DT/E/IN/830/XL/ECO | CFTR32W/GX24q/30         | GX24q-3 | 32    | 100                | .320              | 2,400          | 2,064                    | 3000K       | 82  | 26,000                              |
| 20885       | CF32DT/E/IN/835/XL/ECO | CFTR32W/GX24q/35         | GX24q-3 | 32    | 100                | .320              | 2,400          | 2,064                    | 3500K       | 82  | 26,000                              |
| 20886       | CF32DT/E/IN/841/XL/ECO | CFTR32W/GX24q/41         | GX24q-3 | 32    | 100                | .320              | 2,400          | 2,064                    | 4100K       | 82  | 26,000                              |
| 20887       | CF42DT/E/IN/827/XL/ECO | CFTR42W/GX24q/27         | GX42q-3 | 42    | 135                | .320              | 3,200          | 2,752                    | 2700K       | 82  | 26,000                              |
| 20888       | CF42DT/E/IN/830/XL/ECO | CFTR42W/GX24q/30         | GX24q-4 | 42    | 135                | .320              | 3,200          | 2,752                    | 3000K       | 82  | 26,000                              |
| 20871       | CF42DT/E/IN/835/XL/ECO | CFTR42W/GX24q/35         | GX24q-4 | 42    | 135                | .320              | 3,200          | 2,752                    | 3500K       | 82  | 26,000                              |
| 20890       | CF42DT/E/IN/841/XL/ECO | CFTR42W/GX24q/41         | GX24q-4 | 42    | 135                | .320              | 3,200          | 2,752                    | 4100K       | 82  | 26,000                              |

### Notes:

1. Measured on high-frequency ballast

2. Measured at 40% of rated life.

3. Based on 3 hours per start. Life at 12 hours per start is 30,000 hours. Number of operating hours when half have failed and half are still functional.

## Ordering Guide

| CF                  | 26                    | DT               | / | E                  | / | IN      | / | 835  | / | XL            | / | ECO       |
|---------------------|-----------------------|------------------|---|--------------------|---|---------|---|--|---|---------------|---|-----------|
| Compact Fluorescent | Wattage<br>26, 32, 42 | DULUX®<br>Triple | / | Electronic Ballast | / | Amalgam | / | 8 = 82 CRI<br>27=2700K CCT<br>30=3000K CCT<br>35=3500K CCT<br>41=4100K CCT | / | EXtended Life | / | ECOLOGIC® |

## System Comparison

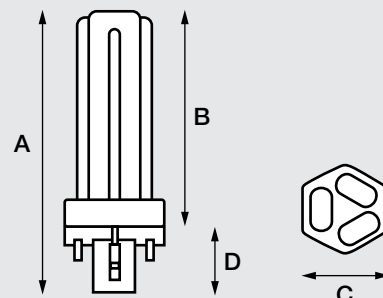
### Compact Fluorescent vs. Incandescent

| 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/XL 26W w/QUICKTRONIC® CF | 26,000                 | 1,800         | 28             | 64         | \$115           |
| 150W Incandescent                     | 750                    | 2,740         | 150            | 18.5       | —               |
| DULUX T/E/IN/XL 42W w/QUICKTRONIC CF  | 26,000                 | 3,200         | 46             | 70         | \$66            |

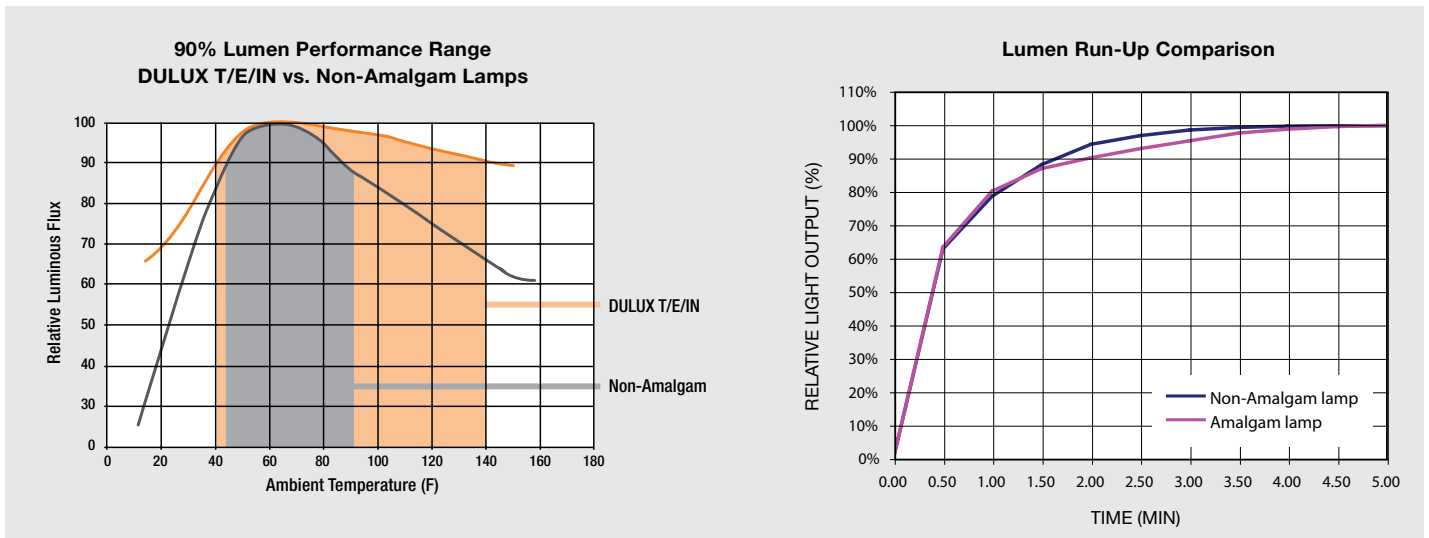
\* Based on an energy cost of \$0.10/kWh over the life of the lamp.

## Lamp Dimensions

|             | (A)<br>MOL<br>[in. (mm)] | (B)<br>Max. Base Face to<br>Top of Lamp [in. (mm)] | (C)<br>Max. Base Width<br>[in. (mm)] | (D)<br>Guide Post Length<br>[in. (mm)] |
|-------------|--------------------------|--|--------------------------------------|--|
| CF26DT/E/IN | 5.02 (127.5)             | 4.40 (111.5)                                       | 1.93 (49)                            | 0.62 (16)                              |
| CF32DT/E/IN | 5.67 (144)               | 5.04 (128)   | 1.93 (49)                            | 0.62 (16)                              |
| CF42DT/E/IN | 6.50 (165)               | 5.87 (149)   | 1.93 (49)                            | 0.62 (16)                              |



## Technical Information



## Sample Specification

Lamp(s) shall be (a) DULUX® EXtended Life (CF18DT/E/IN/XL, CF26DT/E/IN/XL, CF32DT/E/IN/XL or CF42DT/E/IN/XL) ECOLOGIC® lamps and pass existing Federal TCLP limits. Lamp(s) shall have an average rated life of 26,000 hours, a correlated color temperature of (2700K, 3000K, 3500K or 4100K), and a CRI of 82. Lamps shall have a (GX24 -3 or -4) 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.

## Related Literature

**For optimum system performance and warranty pair with QUICKTRONIC® CF ballast.**

Ballast Technology Applications & Specification Guide (Literature Code: ECS-SPECGUIDE2013)

QUICK 60+® System Warranty (Literature Code: ECS140)

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