

# SYLVANIA Lamps

## ECO LED T8 Type A

### Application

SYLVANIA ECO LED T8 lamps deliver a quality LED light, at an affordable price. This long-lasting, economical line provides the perfect lighting solution for any budget for office, industrial or education.

### Benefits and Features

- Compatible LED T8 with optimized glass optics and G13 medium bi-pin base
- Minimizes labor & recycling costs by operating on most popular existing ballasts
- No warm-up time, instant-on with full light output and stable lamp-to-lamp color
- No UV emission
- Approved for use with tube guards
- Maximize energy savings with occupancy sensors
- Up to 135 LPW (Lamp efficacy)
- CCT: 3500K, 4100K, 5000K
- CRI:  $\geq 80$
- Light Emitting Angle 340°; Beam Angle 220°

### Electrical

- Compatible with instant start electronic T8 ballasts with input voltage of 120-277V and 347V
- Power factor  $>0.90$
- THD  $<20\%$

### Rated Life

- 50,000 hours ( $L_{70}$ ) for 16W lamps
- 35,000 hours ( $L_{70}$ ) for 15W lamps

### Warranty

- 16W: 5 year limited lamp warranty (24/7 operation)
- 15W: 3 year limited lamp warranty (24/7 operation)
- NLB Trusted Warranty Program

### Ambient Operating Range

- -4°F to 113°F (-20°C to 45°C)

### Max Case Temperature

- 158°F (70°C)



### Wattage Comparison

| Traditional Source                 | Traditional System Wattage | LED System Wattage | Energy Savings |
|------------------------------------|----------------------------|--------------------|----------------|
| 4ft 32W T8 w/QHE 2X32T8/UNV ISN-SC | 55                         | 32.5               | 41%            |

### Certifications and Listings

- cULus 1993
- RoHS
- Lead Free
- Mercury Free
- FCC\*
- NSF\*\*

\*FCC Title 47 CFR, Part 18, Non-Consumer  
\*\*NSF/ANSI Standard 2 - Food Equipment

### Installation

- Please refer to the Installation manual included inside the packaging and the applications information listed below for more information.



Specification Data

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

Ordering Guide

| ECOLED  | XX                                        | T8                   | L48                | FG                                               | 8              | XX                                                          | TYPEA                     |
|---------|-------------------------------------------|----------------------|--------------------|--------------------------------------------------|----------------|-------------------------------------------------------------|---------------------------|
| ECO LED | Wattage<br>15 = 15 Watts<br>16 = 16 Watts | Lamp Type<br>T8 = T8 | Length<br>48 = 48" | Material<br>FG = Frosted<br>Glass (non dimmable) | CRI<br>8 = ≥80 | Color Temperature<br>35 = 3500K<br>41 = 4100K<br>50 = 5000K | UL Type<br>TYPEA = Type A |

Ordering Information

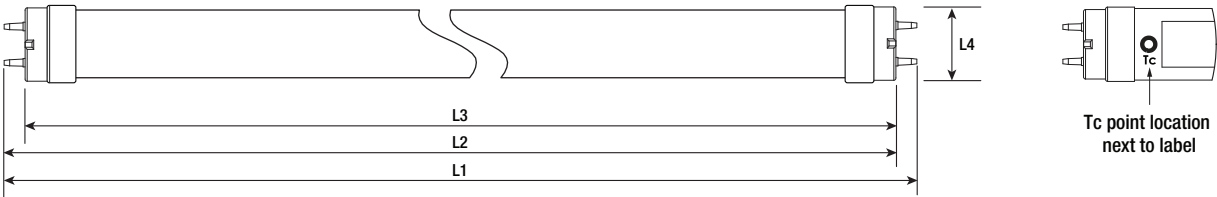
| Item Number | Ordering Abbreviation   | Lamp Length | Base Type | Lamp Power <sup>1</sup> (W) | Typical Lumens <sup>1</sup> (lm) | Color Temperature (CCT) | CRI | Life Rating (hrs) | Beam Angle (°) | Bulb Finish   | Package Qty | DLC Listed |
|-------------|-------------------------|-------------|-----------|-----------------------------|----------------------------------|-------------------------|-----|-------------------|----------------|---------------|-------------|------------|
| 41994       | ECOLED15T8L48FG835TYPEA | 4ft         | G13       | 15                          | 1800                             | 3500K                   | ≥80 | 35,000            | 220            | Frosted Glass | 25          | No         |
| 41995       | ECOLED15T8L48FG841TYPEA | 4ft         | G13       | 15                          | 1800                             | 4100K                   | ≥80 | 35,000            | 220            | Frosted Glass | 25          | No         |
| 41996       | ECOLED15T8L48FG850TYPEA | 4ft         | G13       | 15                          | 1800                             | 5000K                   | ≥80 | 35,000            | 220            | Frosted Glass | 25          | No         |
| 40966       | ECOLED16T8L48FG835TYPEA | 4ft         | G13       | 16                          | 2160                             | 3500K                   | ≥80 | 50,000            | 220            | Frosted Glass | 25          | No         |
| 40967       | ECOLED16T8L48FG841TYPEA | 4ft         | G13       | 16                          | 2160                             | 4100K                   | ≥80 | 50,000            | 220            | Frosted Glass | 25          | No         |
| 40968       | ECOLED16T8L48FG850TYPEA | 4ft         | G13       | 16                          | 2160                             | 5000K                   | ≥80 | 50,000            | 220            | Frosted Glass | 25          | No         |

1. Lamp Power and Lamp Lumens rated on QHE1x32T8/UNV ISN.

Specifications & Lighting Data

| Lamp                    | Ballast              | Current (120/277V) (AMPS) | System Power (W) | System Lumens (lm) | System Efficacy (lm/W) | No of Lamps |
|-------------------------|----------------------|---------------------------|------------------|--------------------|------------------------|-------------|
| ECOLED15T8L48FG8XXTYPEA | QHE 2X32T8/UNV ISN   | 0.271/0.117               | 32.5             | 3600               | 111                    | 2           |
| ECOLED16T8L48FG8XXTYPEA | QHE2X32T8/UNV ISN-SC | 0.300/0.130               | 36               | 4320               | 120                    | 2           |

Physical Information



| Lamp Description | L1<br>End of Base Pin to<br>End of Opposite Pin End | L2<br>Base Face to<br>Opposite Base Pin | L3<br>Base Face to<br>Base Face | L4<br>Bulb Outside<br>Diameter |
|------------------|-----------------------------------------------------|-----------------------------------------|---------------------------------|--------------------------------|
| ECOLED15T8L48    | 47.725"±0.055" (1212.2mm ±1.4mm)                    | 47.45"±0.05" (1205.25mm±1.25mm)         | max 47.22" (1199.4mm)           | 1.02"±0.08" (25.9mm±2.0mm)     |
| ECOLED16T8L48    | 47.725"±0.055" (1212.2mm ±1.4mm)                    | 47.45"±0.05" (1205.25mm±1.25mm)         | max 47.22" (1199.4mm)           | 1.02"±0.08" (25.9mm±2.0mm)     |

## Application Information

1. Due to numerous ballast designs and topologies, this lamp should be tested on existing ballasts before mass quantities are installed.
2. Not intended for use with older dedicated voltage (120V or 277V) ballasts. These ballasts have electronic components that degrade over time and may become unsuitable for the new LED T8 lamp.
3. All installation, inspection, and maintenance of lighting fixtures should be done with the power to the fixture turned off. Lamps should be installed and operated in compliance with the National Electrical Code (NEC), Underwriters Laboratories Inc. (UL) requirements, and all applicable codes and regulations.
4. Insert and align tubes properly in lamp holders. Partial insertion results in a poor or intermittent electrical contact that can result in short lamp life and arcing. Arcing at the lamp holder can result in localized overheating.
5. These lamps are for Instant Start ballasts only. Use lamp holders with an internal shunt or ensure that lamp holders are wired in a shunt configuration.
6. For use with shunted sockets only.
7. De-lamp is not allowed for ISH ballasts. For approved ISN and ISL ballasts, de-lamp is allowed for only 1 lamp so long as the ballast factor remains below 1.20 (for example, 4 lamp ballast can de-lamp to 3 lamps).
8. Operating temperature range between -4°F and 113°F (-20°C and 45°C).
9. Suitable for use in dry and damp environments; cannot come in direct contact with water.
10. Maximum mounting distance between tube and ballast is 20 feet.
11. Please read all installation instructions before attempting installation.
12. For detailed warranty information, please see [www.ledvanceUS.com/warranty](http://www.ledvanceUS.com/warranty).

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