

# 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: ≥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<sub>70</sub>) for 16W lamps
- 35,000 hours (L<sub>70</sub>) 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.
- For proper use and warranty coverage, installer must consult the ballast compatibility list to ensure that the lamp and ballast combination is deemed compatible and will operate as intended.

Ballast  
Compatibility  
Guide



Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

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

Ordering Information

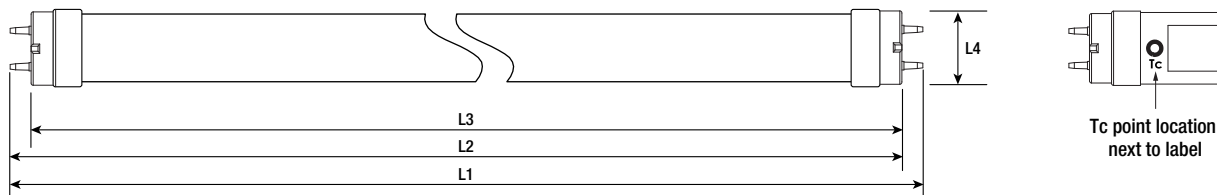
Item Number	Ordering Abbreviation	Lamp Length	Base Type	Lamp Power <sup>1</sup> (W)	Typical Lumens <sup>1</sup> (lm)	Color Temperature (CCT)	CRI	Life Rating (hrs)	Beam Angle (°)	Bulb Finish	Package Qty	DLC Listed
41994	ECOLED15T8L48FG835TYPEA	4ft	G13	15	1800	3500K	≥80	35,000	220	Frosted Glass	25	No
41995	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 End of Base Pin to End of Opposite Pin End	L2 Base Face to Opposite Base Pin	L3 Base Face to Base Face	L4 Bulb Outside 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. Not for use with ballasts more than ten years old.
4. 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.
5. 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.
6. 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.
7. For use with shunted sockets only.
8. De-lamp is not allowed for ISH ballasts.
9. 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).
10. Operating temperature range between -4°F and 113°F (-20°C and 45°C).
11. Suitable for use in dry and damp environments; cannot come in direct contact with water.
12. Maximum mounting distance between tube and ballast is 20 feet.
13. Please read all installation instructions before attempting installation.
14. For detailed warranty information, please see [www.ledvanceUS.com/warranty](http://www.ledvanceUS.com/warranty).

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