

# SubstiTUBE® IPS LED T8

Compatible LED T8 for use with instant start and select programmed rapid start electronic T8 ballasts



SubstiTUBE IPS LED T8 lamps are an energy saving alternative, designed to replace traditional fluorescent T8 lamps. These LED T8 lamps contain no mercury, provide instant light and a uniform light distribution.

Engineered to operate on existing instant start and select programmed rapid start electronic T8 ballasts, these lamps minimize labor and recycling costs. Because the SubstiTUBE IPS LED T8 is not affected by switching cycles, the use of occupancy or vacancy sensors can be installed with the existing instant start ballasts for optimal energy savings.

Install a new QHE instant start ballast with the SubstiTUBE IPS LED T8 lamp for optimal performance and to take advantage of the QUICK 72SUB+ system warranty. (See website for details.)

## Key Features & Benefits

- Shatterproof Frosted Nano Plastic lamps do not break in the manner of glass LED or fluorescent lamps
- Optimized Nano Plastic optics available in:
  - Non-dimmable 4ft 15W
  - NSF for Food Prep and Service Application
- Optimized glass optics available in:
  - Dimmable 4ft 13W
  - Dimmable on 0-10V
- CCT: 3000K, 3500K, 4100K, 5000K
- Beam angle: 220° for glass and 160° for frosted plastic
- Compatible with instant start and select programmed rapid start electronic T8 ballasts with input voltage of 120-277V and 347V
- THD <20%, power factor >0.90
- G13 medium bi-pin base
- Long life: up to 60,000 hour life (L<sub>70</sub>)
- 5 year limited lamp warranty (24/7 operation)
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- No UV emission
- Suitable for dry and damp locations (cannot come in direct contact with water)
- Maximize energy savings with occupancy sensors
- Suitable for open and enclosed fixtures
- Glass lamps are suitable for use with tube guards

## Product Offering

Length	Color Temperature	CRI
48in.	3000K, 3500K, 4100K, 5000K	up to 85

## Application Information

### Applications

- Cove lighting
- Display case
- Food prep and service
- General illumination
- Parking garage
- Tunnels

### Specifications and Certifications



Catalog #	Type
Project	
Comments	
Prepared by	

## Specifications

### Energy Data

**Ambient Operating Temperature:** -4°F to 113°F (-20°C to 45°C)

**EMI/RFI:** FCC Title 47 CFR, Part 18, Non-Consumer

**Max Case Temperature:** LED15T8/L48 = 140°F (60°C)

LED13T8/L48 = 167°F (75°C)

LED15/L48/FP = 185°F (85°C)

### Lighting Data

**Lumen Output:** See specification table (output is dependent on operating ballast)

**Lumens per Watt:** Up to 124

**Correlated Color Temperature (CCT):** 3000K, 3500K, 4100K, 5000K

**Color Rendering Index (CRI):** Up to 85

**R9:** Up to 14

## Ordering Information

Item Number	Ordering Abbreviation	Length	Lamp Power (W) <sup>1</sup>	Lamp Lumens (lm) <sup>1</sup>	Color Temp.	CRI	Beam Angle (°)	Package Quantity	DLC (Y/N)
75339	LED15T8/L48/DIM/830/SUB/G7 <sup>2</sup>	4ft	15.5	2100	3000K	82	220	25	Y
75340	LED15T8/L48/DIM/835/SUB/G7 <sup>2</sup>	4ft	15.5	2100	3500K	82	220	25	Y
75341	LED15T8/L48/DIM/841/SUB/G7 <sup>2</sup>	4ft	15.5	2200	4100K	82	220	25	Y
75342	LED15T8/L48/DIM/850/SUB/G7 <sup>2</sup>	4ft	15.5	2200	5000K	82	220	25	Y
75508	LED13T8/L48/DIM/830/SUB/G8	4ft	13	2000	3000K	82	220	25	Y
75509	LED13T8/L48/DIM/835/SUB/G8	4ft	13	2000	3500K	82	220	25	Y
75510	LED13T8/L48/DIM/841/SUB/G8	4ft	13	2100	4100K	82	220	25	Y
75511	LED13T8/L48/DIM/850/SUB/G8	4ft	13	2100	5000K	82	220	25	Y
75524	LED15T8/L48/FP/830/SUB/G8	4ft	15	2100	3000K	85	160	25	Y
75525	LED15T8/L48/FP/835/SUB/G8	4ft	15	2100	3500K	85	160	25	Y
75526	LED15T8/L48/FP/841/SUB/G8	4ft	15	2200	4100K	85	160	25	Y
75527	LED15T8/L48/FP/850/SUB/G8	4ft	15	2200	5000K	85	160	25	Y

1. Average Lamp Power and Average Lamp Lumens rated on QHE2x32T8/UNV ISN.

2. Phasing out.

## Ordering Guide

LED	15	T8	/	L	48	/	DIM/FP	/	8	41	/	SUB	/	G8
LED	Wattage (ISN ballast)	Lamp Type		Length	48 Inches		DIM = frosted glass dimmable FP = Frosted Nano Plastic, non-dimmable		CRI = 82	Color Temperature 41 = 4100K 30 = 3000K 35 = 3500K 50 = 5000K		SubstiTUBE® IPS (Compatible LED T8 for use with instant start and select programmed rapid start T8 electronic ballasts)		Generation

## Application Information

### Application Notes

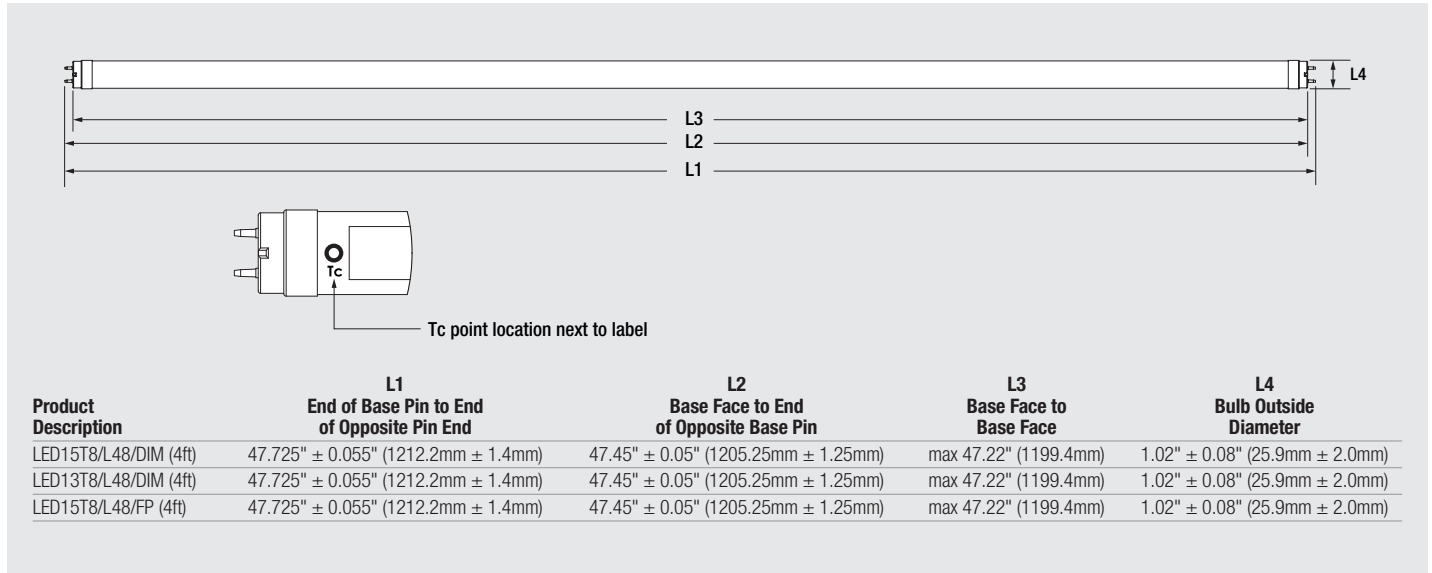
- Due to numerous ballast designs and topologies, this lamp should be tested on existing ballasts before mass quantities are installed.
- Not intended for use with older dedicated voltage (120V or 277V) ballasts. These ballasts have electronic components that degrade over time and may become unsuitable for the new LED T8 lamp.
- 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.
- 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.
- For instant start ballasts, use lamp holders with an internal shunt or ensure that lamp holders are wired in a shunt configuration.
- For Programmed Rapid Start ballasts, use rapid-start lamp holders (non-shunted lamp holders).
- 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).
- Operating temperature range between -4°F and 113°F (-20°C and 45°C).
- Suitable for use in dry and damp environments.
- Maximum mounting distance between tube and ballast is 20 feet.
- Please read all installation instructions before attempting installation.
- For detailed warranty information, please see [www.sylvania.com](http://www.sylvania.com).

## Specifications & Lighting Data

Lamp	Ballast	Current (AMPS)	System Power (W)	System Lumens (lm)	System Efficacy (lm/W)	No. of Lamps
LED15T8/L48	QHE2X32T8/UNV ISN	0.33/0.14	36.0	4400	122	2
LED13T8/L48/DIM	QHE2X32T8/UNV ISN	0.26/0.12	32.0	4200	130	2
LED15T8/L48/FP	QHE 2X32T8/UNV ISN	0.30/0.13	35	4400	126	2

Note: For complete system information refer to LED495 – SubstiTUBE System Information.

## Assembly Diagram



## Warranty

SubstiTUBE® IPS LED T8 lamps are covered by the LED T8 Lamp Limited Warranty and the QUICK 72SUB+ System Warranty, a comprehensive system warranty. For additional details, please visit [www.sylvania.com/warranty](http://www.sylvania.com/warranty).

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