

# SubstiTUBE® Value IS LED T8

Compatible LED T8 for use with instant start electronic T8 ballasts



## Key Features & Benefits

- Available in 4ft
- CCT: 3000K, 3500K, 4100K, 5000K
- Beam angle: 220°
- Compatible with instant 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: 36,000 hour life (L<sub>70</sub>)
- 3 year limited lamp warranty (24/7 operation)
- Reduces energy consumption up to 34%
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- Optimized glass optical design
- No UV emission
- Suitable for dry and damp locations (cannot come in direct contact with water)
- Maximize energy savings with occupancy sensors
- Approved for use with Tube Guards

SYLVANIA SubstiTUBE Value IS 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 with an optimized glass optic design.

Engineered to operate on existing instant start electronic T8 ballasts, these lamps minimize labor costs. Because the SubstiTUBE Value IS 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.

## Product Offering

Length	Color Temperature	CRI
48in.	3000K, 3500K, 4100K, 5000K	82

## Specifications and Certifications



## Specification Data

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

#### Lighting Data

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

**Lumens per Watt:** Up to 108

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

**Color Rendering Index (CRI):** 82

**R9:** Up to 21

### 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)
40096	LED17T8/L48/FG/IS/830/SUB/G8	4ft	17.5	2200	3000K	82	220°	10	N
40097	LED17T8/L48/FG/IS/835/SUB/G8	4ft	17.5	2200	3500K	82	220°	10	N
40098	LED17T8/L48/FG/IS/841/SUB/G8	4ft	17.5	2300	4100K	82	220°	10	N
40099	LED17T8/L48/FG/IS/850/SUB/G8	4ft	17.5	2300	5000K	82	220°	10	N

<sup>1</sup>Lamp Power and Lamp Lumens rated on QHE1x32T8/UNV ISN

Please contact OSRAM SYLVANIA for additional information.

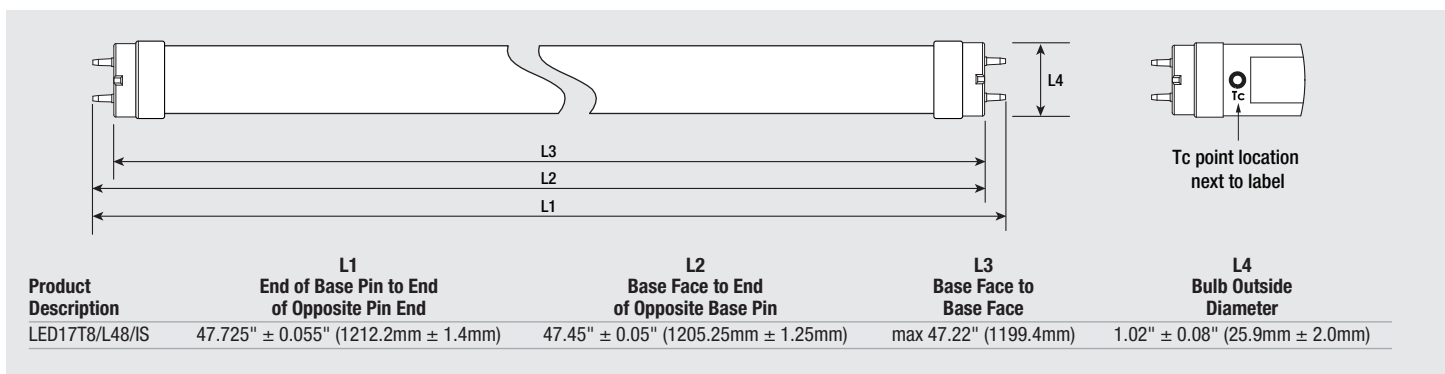
### Specifications & Lighting Data

Lamp	Ballast	System Power (W)	System Lumens (lm)	System Efficacy (lm/W)	No. of Lamps
LED17T8/L48/IS	QHE1X32T8/UNV ISL	18.0	1900	106	1
	QHE2X32T8/UNV ISL	36.0	3800	106	2
	QHE3X32T8/UNV ISL	57.0	5850	103	3
	QHE4X32T8/UNV ISL	75.0	7800	104	4
	QHE1X32T8/UNV ISN	21.5	2300	107	1
	QHE2X32T8/UNV ISN	42.5	4600	108	2
	QHE3X32T8/UNV ISN	63.0	6750	107	3
	QHE4X32T8/UNV ISN	84.0	8800	105	4
	QHE1X32T8/UNV ISH	31.5	3250	103	1
	QHE2X32T8/UNV ISH	63.0	6500	103	2
	QHE3X32T8/UNV ISH	96.0	9900	103	3
	QHE4X32T8/UNV ISH	129.0	12,800	99	4

### Ordering Guide

LED	17.5	T8	/	L	48	/	FG	/	IS	/	8	41	/	SUB	/	G8
LED	Wattage (QHE ISN ballast)	Lamp Type		Length	48 Inches		Frosted Glass		Instant Start Only		CRI 82	Color Temperature 41 = 4100K 30 = 3000K 35 = 3500K 50 = 5000K		SubstiTUBE® Value (Compatible LED T8 for use with instant start and select programmed rapid start - parallel wiring -T8 electronic ballasts)		Generation

### Assembly Diagram



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## Application Information

### Application Notes

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.
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.sylvania.com](http://www.sylvania.com)

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## Warranty

SubstiTUBE® Value IS LED T8 lamps are covered by a 3 year limited warranty (24/7 operation).  
For additional details, please visit [www.sylvania.com/warranty](http://www.sylvania.com/warranty).

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