

# SubstiTUBE® Value LED T8

Compatible LED T8 for use with instant start and select programmed rapid start (parallel wiring) electronic T8 ballasts



### Key Features & Benefits

- Available in 4ft
- CCT: 3000K, 3500K, 4100K, 5000K
- Beam angle: 220°
- Compatible with instant start and select programmed rapid start (parallel-wiring) 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

SYLVANIA SubstiTUBE Value 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 and select programmed rapid start electronic T8 ballasts, these lamps minimize labor costs. Because the SubstiTUBE Value 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

### Application Information

#### Applications

- Cove lighting
- Display case
- General illumination
- Parking garage
- Tunnels

#### Specifications and Certifications



## Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

## Specifications

### Energy Data

**Ambient Operating Temperature:** -4°F to 122°F (-20°C to 50°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 112

**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
75115	LED17T8/L48/FG/830/SUB/G6	4ft	17	2100	3000K	82	220	10
75116	LED17T8/L48/FG/835/SUB/G6	4ft	17	2100	3500K	82	220	10
75117	LED17T8/L48/FG/841/SUB/G6	4ft	17	2200	4100K	82	220	10
75118	LED17T8/L48/FG/850/SUB/G6	4ft	17	2200	5000K	82	220	10

<sup>1</sup>Lamp Power and Lamp Lumens rated on QHE1X32T8/UNV ISN

Please contact OSRAM SYLVANIA for additional information.

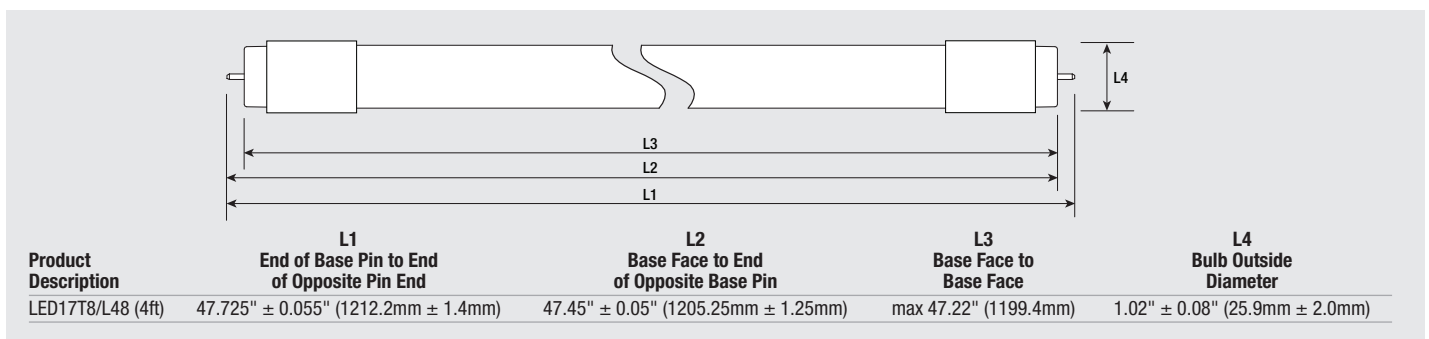
## Specifications & Lighting Data

Lamp*	Ballast	Current (Amps)	System Power (W)	System Lumens (lm)	System Efficacy (lm/W)	No. of Lamps
LED17T8/L48	QHE1X32T8/UNV ISL	0.14 / 0.06	16.5	1,850	112	1
	QHE2X32T8/UNV ISL	0.28 / 0.12	33.0	3,700	112	2
	QHE3X32T8/UNV ISL	0.44 / 0.19	52.5	5,850	111	3
	QHE4X32T8/UNV ISL	0.59 / 0.26	70.0	7,800	111	4
	QHE1X32T8/UNV ISN	0.17 / 0.08	20.0	2,200	110	1
	QHE2X32T8/UNV ISN	0.34 / 0.15	40.0	4,300	108	2
	QHE3X32T8/UNV ISN	0.51 / 0.23	60.0	6,450	108	3
	QHE4X32T8/UNV ISN	0.67 / 0.29	80.0	8,600	108	4
	QHE1X32T8/UNV ISH	0.23 / 0.11	27.5	2,850	104	1
	QHE2X32T8/UNV ISH	0.46 / 0.20	55.0	5,700	104	2
QHE3X32T8/UNV ISH	0.69 / 0.30	82.5	8,550	104	3	

## Ordering Guide

LED	17	T8	/	L	48	/	FG	/	8	41	/	SUB	/	G6
LED	Wattage (QHE ISN ballast)	Lamp Type		Length	48 Inches		Frosted Glass		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. For instant start ballasts, use lamp holders with an internal shunt or ensure that lamp holders are wired in a shunt configuration.
6. For Programmed Rapid Start ballasts (parallel wired), use rapid-start lamp holders (non-shunted lamp holders).
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 122°F (-20°C and 50°C).
9. Suitable for use in dry and damp environments.
10. Maximum mounting distance between tube and ballast is 20 feet.
11. NSF certified Food Zone (Non-Contact), Splash Zone and Non-Food Zone.
12. Please read all installation instructions before attempting installation.
13. For detailed warranty information, please see [www.sylvania.com](http://www.sylvania.com)

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## Warranty

SubstiTUBE® Value 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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