

SubstiTUBE[®] Value LED T8

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

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 ballasts for optimal energy savings.



Key Features & Benefits

- Available in 4ft
- CCT: 3000K, 3500K, 4100K, 5000K
- Beam angle: 220°
- 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 50,000 hour life (L₇₀)
- Up to 5 year limited lamp warranty (24/7 operation)
- NLB Trusted Warranty Program
- Reduces energy consumption up to 40%
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- Lamps with DIM in description are 0-10V dimming with compatible dimming ballasts
- 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

Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
4ft 32W T8 w/QHE 2X32T8/UNV ISN-SC	55	32.8	40%

Specifications and Certifications



LED518R5 8-23



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 131
Correlated Color Temperature (CCT): 3000K, 3500K, 4100K, 5000K
Color Rendering Index (CRI): >80
R9: Up to 21

Ordering Information

Item Number	Ordering Abbreviation	Length	Base Type	Lamp Power (W) ¹	Lamp Lumens (lm) ¹	Color Temp.	CRI	Life Rating	Beam Angle (°)	Bulb Finish	Case Quantity	DLC 5.1
41826	LED15T8L48FGDIM830SUBG9	4ft	G13	15	2100	3000K	>80	50,000	220°	Frosted Glass	25	Y
41827	LED15T8L48FGDIM835SUBG9	4ft	G13	15	2100	3500K	>80	50,000	220°	Frosted Glass	25	Y
41828	LED15T8L48FGDIM841SUBG9	4ft	G13	15	2200	4100K	>80	50,000	220°	Frosted Glass	25	Y
41829	LED15T8L48FGDIM850SUBG9	4ft	G13	15	2200	5000K	>80	50,000	220°	Frosted Glass	25	Y

¹This product is being phased-out and will be replaced with dimmable model.
¹Lamp Power and Lamp Lumens rated on QHE1x32T8/UNV ISN.

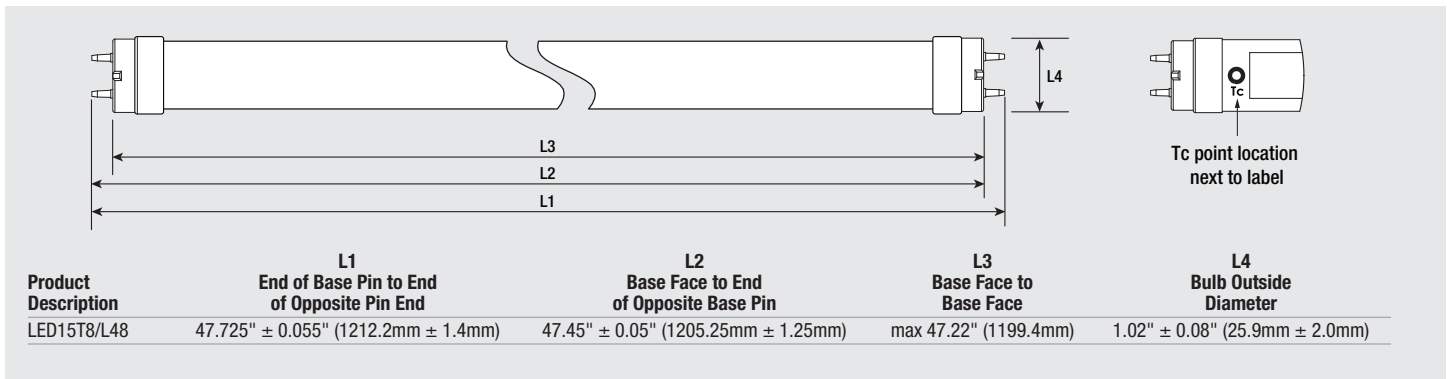
Ordering Guide

LED	15	T8	/	L	48	/	FG	/	DIM	/	8	41	/	SUB	/	G9
LED	Wattage (QHE ISN ballast) 15 = 15W	Lamp Type		Length	48 = 48"		Frosted Glass		Dimmable		CRI 8 = >80	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K		SubstiTUBE® Value (Compatible LED T8 for use with T8 electronic ballasts)		Generation 9 = Generation 9

Specifications & Lighting Data

Lamp	Ballast	Current (Amps)	System Power (W)	System Lumens (lm)	System Efficacy (lm/W)	No of Lamps
LED15T8L48FGDIM8XXSUBG9 (3000K/3500K)	QHE 2X32T8/UNV ISN	0.27/0.12	32.8	3900	>125	2
LED15T8L48FGDIM8XXSUBG9 (4100K/5000K)	QHE 2X32T8/UNV ISN	0.27/0.12	32.8	4300	>131	2

Assembly Diagram



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. 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).
6. Operating temperature range between -4°F and 113°F (-20°C and 45°C).
7. Suitable for use in dry and damp environments.
8. Maximum mounting distance between tube and ballast is 20 feet.
9. Please read all installation instructions before attempting installation.
10. For detailed warranty information, please see www.ledvanceUS.com

Warranty

SubstiTUBE® Value LED T8 15W lamps are covered by a 5 year limited warranty (24/7 operation). For additional details, please visit www.ledvanceUS.com/warranty.

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