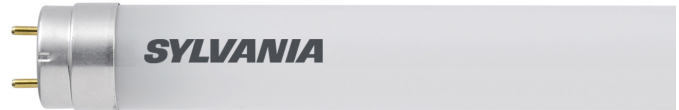


# SYLVANIA Lamps

## 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, and provide instant light and a uniform light distribution. Engineered to operate on existing instant start and select program rapid start electronic T8 ballasts, these lamps minimize labor and recycling costs.



### Benefits and Features

- The SubstiTUBE IPS LED T8 is not affected by switching cycles, occupancy or vacancy sensors, and thus can be installed with the existing instant start ballasts for optimal energy savings
- NSF Listed: NSF/ANSI Standard 2 – Food Equipment
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- DLC listed allows for rebates in areas where applicable saving on overall project cost
- 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
- Up to 178 LPW (Lamp efficacy)
- 3000K, 3500K, 4100K, 5000K color temperatures
- CRI: 82
- Available beam angle: 220° and Light Emitting Angle 340°

### Electrical

- Compatible with instant start and select programmed rapid start electronic T8 ballasts with input voltage of 120-277V and 347V
- Dimmable down to 10% with compatible 0-10V ballast (4ft 13W, 12W and 9W; 3ft 10W (G9); and 2ft 8W (G9) only)
- Power factor >0.90
- THD <10% (or <20% for G8 & G7)

### Rated Life

- 50,000 hours (L<sub>70</sub>)

### Ambient Operating Range

- -4°F to 113°F (-20°C to 45°C)

### Wattage Comparison

	System Power <sup>1</sup>	Traditional System Power F032T8 (with QHE2x32 ISN)	Energy Savings/Year <sup>2</sup>
LED13T8L48FGDIM SUBG9	32W	55W	42%
LED12T8L48FGPDIMSUBG9	29W	55W	47%
LED10T8L48FG SUBG9	26W	55W	53%
LED9T8L48FGPDIMSUBG9	24W	55W	56%

1. With QHE2x32 ISN  
2. 24 hours a day

### Warranty

- 5 year limited lamp warranty (24/7 operation)
- NLB Trusted Warranty Program
- 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.)

### Certifications and Listings

- cULus 1993
- ETL
- RoHS
- Lead Free
- Mercury Free
- FCC\*
- NSF
- DLC Standard

\*FCC Title 47 CFR, Part 18, Non-Consumer

### Installation

- Please refer to the Installation manual included inside the packaging and the applications information listed below for more information. (G13 medium bi-pin base)



## Ordering Guide

LED	XX	T8	LXX	FG	DIM	8	XX	SUB	GX
LED	Wattage 13 = 13 Watts 12 = 12 Watts 10 = 10 Watts 9 = 9 Watts 8 = 8 Watts	Lamp Type T8	Length 48", 36", 24"	FG = Frosted Glass	DIM = Dimmable	CRI 8 = 82	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	SubstiTUBE® IPS	Generation 9 Generation 8 Generation 7

## Ordering Information

Item Number	Ordering Abbreviation	Length	Lens Material	Power (W) <sup>1</sup>	Lamp Efficacy	Typical Lumens (lm) <sup>1</sup>	CCT	CRI	Life (L <sub>70</sub> ) Hours	Beam Angle (°)	Case Qty	DLC Listed
40691*	LED13T8L48FGDIM830SUBG9	4ft	Frosted Glass	13	154	2000	3000K	82	50,000	220	25	Yes
40692*	LED13T8L48FGDIM835SUBG9	4ft	Frosted Glass	13	154	2000	3500K	82	50,000	220	25	Yes
40693*	LED13T8L48FGDIM841SUBG9	4ft	Frosted Glass	13	162	2100	4100K	82	50,000	220	25	Yes
40694*	LED13T8L48FGDIM850SUBG9	4ft	Frosted Glass	13	162	2100	5000K	82	50,000	220	25	Yes
41274	LED12T8L48FGDIM830SUBG9	4ft	Frosted Glass	12	167	2000	3000K	82	50,000	220	25	Yes
41275	LED12T8L48FGDIM835SUBG9	4ft	Frosted Glass	12	167	2000	3500K	82	50,000	220	25	Yes
41276	LED12T8L48FGDIM841SUBG9	4ft	Frosted Glass	12	175	2100	4100K	82	50,000	220	25	Yes
41277	LED12T8L48FGDIM850SUBG9	4ft	Frosted Glass	12	175	2100	5000K	82	50,000	220	25	Yes
40695*	LED10T8L48FG830SUBG9	4ft	Frosted Glass	10	160	1600	3000K	82	50,000	220	25	Yes
40696*	LED10T8L48FG835SUBG9	4ft	Frosted Glass	10	160	1600	3500K	82	50,000	220	25	Yes
40697*	LED10T8L48FG841SUBG9	4ft	Frosted Glass	10	160	1600	4100K	82	50,000	220	25	Yes
40698*	LED10T8L48FG850SUBG9	4ft	Frosted Glass	10	160	1600	5000K	82	50,000	220	25	Yes
40995	LED10T8L36FG830SUBG9	3ft	Frosted Glass	10	145	1450	3000K	82	50,000	220	25	Yes
40996	LED10T8L36FG835SUBG9	3ft	Frosted Glass	10	145	1450	3500K	82	50,000	220	25	Yes
40997	LED10T8L36FG841SUBG9	3ft	Frosted Glass	10	145	1450	4100K	82	50,000	220	25	Yes
40998	LED10T8L36FG850SUBG9	3ft	Frosted Glass	10	145	1450	5000K	82	50,000	220	25	Yes
41270	LED9T8L48FGDIM830SUBG9	4ft	Frosted Glass	9	178	1600	3000K	82	50,000	220	25	Yes
41271	LED9T8L48FGDIM835SUBG9	4ft	Frosted Glass	9	178	1600	3500K	82	50,000	220	25	Yes
41272	LED9T8L48FGDIM841SUBG9	4ft	Frosted Glass	9	178	1600	4100K	82	50,000	220	25	Yes
41273	LED9T8L48FGDIM850SUBG9	4ft	Frosted Glass	9	178	1600	5000K	82	50,000	220	25	Yes
40991	LED8T8L24FG830SUBG9	2ft	Frosted Glass	8	156	1250	3000K	82	50,000	220	25	Yes
40992	LED8T8L24FG835SUBG9	2ft	Frosted Glass	8	156	1250	3500K	82	50,000	220	25	Yes
40993	LED8T8L24FG841SUBG9	2ft	Frosted Glass	8	156	1250	4100K	82	50,000	220	25	Yes
40994	LED8T8L24FG850SUBG9	2ft	Frosted Glass	8	156	1250	5000K	82	50,000	220	25	Yes
75508*	LED13T8L48DIM830SUBG8	4ft	Frosted Glass	13	154	2000	3000K	82	50,000	220	25	Yes
75510*	LED13T8L48DIM841SUBG8	4ft	Frosted Glass	13	162	2100	4100K	82	50,000	220	25	Yes
75511*	LED13T8L48DIM850SUBG8	4ft	Frosted Glass	13	162	2100	5000K	82	50,000	220	25	Yes
79547*	LED10T8L48FG850SUBG7	4ft	Frosted Glass	10	160	1600	5000K	82	50,000	220	10	Yes
75516*	LED10T8L36FG830SUBG7	3ft	Frosted Glass	10	145	1450	3000K	82	50,000	220	10	Yes
75519*	LED10T8L36FG850SUBG7	3ft	Frosted Glass	10	145	1450	5000K	82	50,000	220	10	Yes
75520*	LED8T8L24FG830SUBG7	2ft	Frosted Glass	8	150	1200	3000K	82	50,000	220	10	Yes
75521*	LED8T8L24FG835SUBG7	2ft	Frosted Glass	8	150	1200	3500K	82	50,000	220	10	Yes

1. Average Lamp Power and Average Lamp Lumens rated on QHE2x32T8/UNV ISN.  
\* Items will be discontinued when stock is depleted.

## Specifications & Lighting Data

Lamp	Ballast	Current (Amps)	System Power (W)	System Lumens (lm)	System Efficacy (lm/W)	No of Lamps
LED13T8/L48/FG/DIM	QHE 2X32T8/UNV ISN	0.26/0.12	32	4200	130	2
LED12T8L48FGPDIM	QHE 2X32T8/UNV ISN	0.24/0.10	29	4200	140+	2
LED10T8/L48/FG	QHE 2X32T8/UNV ISN	0.22/0.10	26	3200	123	2
LED9T8L48FGPDIM	QHE 2X32T8/UNV ISN	0.20/0.09	24	3200	133+	2
LED10T8/L36	QHE2X32T8/UNV/ISN	0.20/0.09	24	2900	120	2
LED8T8/L24	QHE2X32T8/UNV/ISN	0.17/0.08	20	2400	120	2

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