

# LEDlescent™ T8 Ballast-Free Lamps

Internal Driver/Line Voltage Linear LED T8 Lamp



LEDlescent T8 Ballast-Free lamps are an energy saving alternative, designed to replace traditional fluorescent T8/T12 lamps by bypassing the existing ballast. These LED T8 lamps contain no mercury, provide instant light and a uniform light distribution.

Engineered to operate directly on 120-277V, these lamps minimize labor and recycling costs. These lamps can be used with occupancy and vacancy sensors for enhanced energy savings.

When installing the LEDlescent T8 lamps, the UL rating of the existing fixture is not voided (even when it is electrically modified) since our LEDlescent T8 lamp is UL Classified (as a luminaire conversion retrofit kit) under UL standard 1598C. UL 1598C is the standard covering LED retrofits intended for an existing UL rated fixture. Since the user is retrofitting with a UL1598C classified LED kit, the installer must follow the installation instructions included with the lamps for the modified fixture to retain its UL rating.

## Application Information

### Applications

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

## Key Features & Benefits

- Optimized glass optics available in 2ft, 3ft, 4ft, and 8ft lengths
- CCT: 3000K, 3500K, 4100K, 5000K
- Light emitting area: 340° (17W and 18W Nano Plastic, 320°)
- Installed directly on 120-277V
- Patented built-in safety circuit prevents current from flowing through the lamp when only one end is engaged in the socket thereby eliminating potential shock hazard
- No risk of electrical arcing between the lamp pins and the lamp holders
- For use with shunted and non-shunted sockets therefore no socket change is needed
- Double ended lamp is wired end-to-end preventing non-passive failure of a fluorescent lamp should it be inadvertently installed in the fixture
- 17W and 18W Shatterproof Frosted Nano Plastic lamps do not break in the manner of glass LED or fluorescent lamps
- THD <20%, power factor >0.90
- G13 medium bi-pin base; 8ft has single-pin base
- Long life: 50,000 hour life (L<sub>70</sub>)
- Non-dimmable
- 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
- Approved for use with tube guards

## Product Offering

Length	Color Temperature	CRI
96in.	3000K, 3500K, 4100K, 5000K	82
48in.	3000K, 3500K, 4100K, 5000K	82
36in.	3000K, 3500K, 4100K, 5000K	82
24in.	3000K, 3500K, 4100K, 5000K	82

## Specifications and Certifications



## Specification Data

Catalog #	LED12T8/L48/FG/850/BF 75008	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 15 Subpart B Class B

**Max Case Temperature:** 158°F (70°C)

### Lighting Data

**Lumen Output:** See specification table

**Lumens per Watt:** Up to 168

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

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

**R9:** Up to 14

## Ordering Information

Item Number	Ordering Abbreviation	Lamp Length	Lamp Power (W)	Initial Lumens (lm)	Efficacy (LPW)	Color Temp. (CCT)	CRI	Beam Angle (°)	Package Quantity	DLC (Y/N)
40354	LED34T8/L96/FG/830/BF	8ft	34	4000	118	3000K	82	220	10	Y
40355	LED34T8/L96/FG/835/BF	8ft	34	4000	118	3500K	82	220	10	Y
40356	LED34T8/L96/FG/841/BF	8ft	34	4400	129	4100K	82	220	10	Y
40357	LED34T8/L96/FG/850/BF	8ft	34	4400	129	5000K	82	220	10	Y
40603*	LED18T8/L48/FP/830/BF	4ft	18	2500	139	3000K	82	200	25	Y
40604*	LED18T8/L48/FP/835/BF	4ft	18	2500	139	3500K	82	200	25	Y
40605*	LED18T8/L48/FP/841/BF	4ft	18	2500	139	4100K	82	200	25	Y
40606*	LED18T8/L48/FP/850/BF	4ft	18	2500	139	5000K	82	200	25	Y
40962	LED17T8L48FP830BF	4ft	17	2500	147	3000K	82	200	25	Y
40963	LED17T8L48FP835BF	4ft	17	2500	147	3500K	82	200	25	Y
40964	LED17T8L48FP841BF	4ft	17	2500	147	4100K	82	200	25	Y
40965	LED17T8L48FP850BF	4ft	17	2500	147	5000K	82	200	25	Y
75024	LED17T8/L48/FG/830/BF	4ft	17	2100	124	3000K	82	220	25	Y
75025	LED17T8/L48/FG/835/BF	4ft	17	2100	124	3500K	82	220	25	Y
75026	LED17T8/L48/FG/841/BF	4ft	17	2200	129	4100K	82	220	25	Y
75027	LED17T8/L48/FG/850/BF	4ft	17	2200	129	5000K	82	220	25	Y
75020*	LED14T8/L48/FG/830/BF	4ft	14	1700	121	3000K	82	220	25	Y
75021*	LED14T8/L48/FG/835/BF	4ft	14	1700	121	3500K	82	220	25	Y
75022*	LED14T8/L48/FG/841/BF	4ft	14	1800	129	4100K	82	220	25	Y
75023*	LED14T8/L48/FG/850/BF	4ft	14	1800	129	5000K	82	220	25	Y
75005	LED12T8/L48/FG/830/BF	4ft	12	1700	142	3000K	82	220	25	Y
75006	LED12T8/L48/FG/835/BF	4ft	12	1700	142	3500K	82	220	25	Y
75007	LED12T8/L48/FG/841/BF	4ft	12	1800	150	4100K	82	220	25	Y
75008	LED12T8/L48/FG/850/BF	4ft	12	1800	150	5000K	82	220	25	Y
41062	LED9.5T8L48FG830BF	4ft	9.5	1600	168	3000K	82	220	25	Y
41063	LED9.5T8L48FG835BF	4ft	9.5	1600	168	3500K	82	220	25	Y
41064	LED9.5T8L48FG841BF	4ft	9.5	1600	168	4100K	82	220	25	Y
41065	LED9.5T8L48FG850BF	4ft	9.5	1600	168	5000K	82	220	25	Y
75009	LED12T8/L36/FG/830/BF	3ft	12	1450	121	3000K	82	220	25	Y
75010	LED12T8/L36/FG/835/BF	3ft	12	1450	121	3500K	82	220	25	Y
75011	LED12T8/L36/FG/841/BF	3ft	12	1450	121	4100K	82	220	25	Y
75012	LED12T8/L36/FG/850/BF	3ft	12	1450	121	5000K	82	220	25	Y
75013	LED9T8/L24/FG/830/BF	2ft	9	1100	122	3000K	82	220	25	Y
75014	LED9T8/L24/FG/835/BF	2ft	9	1100	122	3500K	82	220	25	Y
75015	LED9T8/L24/FG/841/BF	2ft	9	1100	122	4100K	82	220	25	Y
75016	LED9T8/L24/FG/850/BF	2ft	9	1100	122	5000K	82	220	25	Y

\*Phasing out

## Ordering Guide

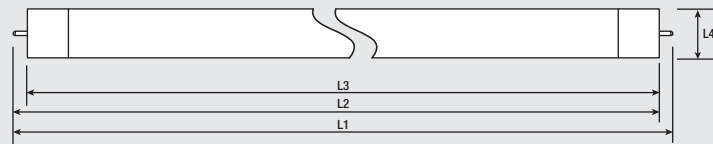
LED	17	T8	/	L	48	/	XX	/	8	41	/	BF
LED	Wattage	LampType		Length	48 inches		FG = frosted glass non-dimmable FP = frosted Nano Plastic		CRI = 82	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K		LEDiescent™ T8 ballast-free lamps

## Application Information

### Application Notes

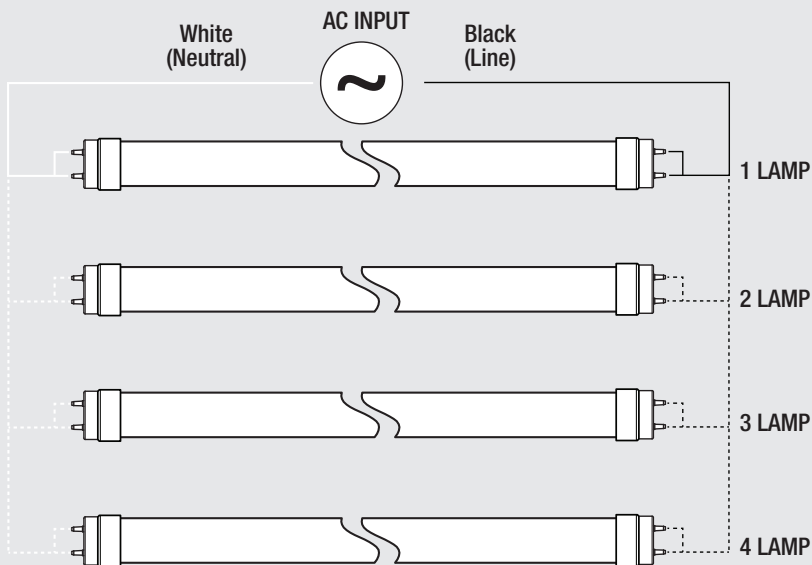
1. All installation, inspection, and maintenance of lighting fixtures should be done with the power to the fixture turned off. Lamps should be installed and operated in compliance with the National Electrical Code (NEC), Underwriters Laboratories Inc. (UL) requirements, and all applicable codes and regulations.
2. Ensure lamp holders/sockets are in good operating condition before installation.
3. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
4. Operating temperature range between -4°F and 113°F (-20°C and 45°C).
5. Suitable for use in dry and damp environments.
6. LEDlescent is compatible with Philips Bodine ELI-S-20 Emergency Lighting Inverters and IOTA inverter models IIS-25-I, IIS-35-I, IIS-50-1, IIS125, IIS-375, IIS-550.
7. Please read and comply with all instructions before attempting installation.
8. For detailed warranty information, please see [www.sylvania.com](http://www.sylvania.com).

## Assembly Diagram



Product Description	L1 End of Base Pin to End of Opposite Pin End	L2 Base Face to End of Opposite Base Pin	L3 Base Face to Base Face	L4 Bulb Outside Diameter
LED/L96	93.865" ± 0.135" (2384.171mm ± 0.135mm)	93.535" ± 0.115" (2375.789mm ± 2.921mm)	max 93.30" (2369.82mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)
LED/L48	47.725" ± 0.055" (1212.2mm ± 1.4mm)	47.45" ± 0.05" (1205.25mm ± 1.25mm)	max 47.22" (1199.4mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)
LED/L36	35.72" ± 0.055" (907.4mm ± 1.4mm)	35.45" ± 0.05" (900.45mm ± 1.25mm)	max 35.22" (894.6mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)
LED/L24	23.72" ± 0.055" (602.6mm ± 1.4mm)	23.45" ± 0.05" (595.65mm ± 1.25mm)	max 23.22" (589.8mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)

## Wiring Diagram



- Note:
1. LEDlescent™ lamp is polarity neutral. Can be installed in either direction.
  2. Sockets may be shunted or non-shunted. Tie socket leads together for non-shunted sockets.

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## Warranty

LEDlescent™ T8 Ballast-Free lamps are covered by the LED T8 Lamp Limited Warranty. For additional details, please visit [www.sylvania.com/warranty](http://www.sylvania.com/warranty).

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