

LEDlescent™ Dimmable T8 Ballast-Free Lamps

Internal Driver/Line Voltage Linear LED T8 Lamp



LEDlescent Dimmable 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. These lamps are designed to be used on phase-cut dimmers providing uniform light through out the dimming range.

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
- Parking garage
- Tunnels

Key Features & Benefits

- Optimized glass optics available in 2ft, 3ft, and 4ft lengths
- Dimmable down to 10% using phase-cut dimmers
- CCT: 3000K, 3500K, 4100K, 5000K
- Beam angle: 220°
- 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
- THD <20%, power factor >0.90
- G13 medium bi-pin base
- Long life: 50,000 hour life (L₇₀)
- 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
48in.	3000K, 3500K, 4100K, 5000K	82
36in.	3000K, 3500K, 4100K, 5000K	82
24in.	3000K, 3500K, 4100K, 5000K	82

Specifications and Certifications



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

Max Case Temperature: 158°F (70°C)

Lighting Data

Lumen Output: See specification table

Lumens per Watt: Up to 150

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)	Color Temp. (CCT)	CRI	Beam Angle (°)	Package Quantity	DIM (Y/N)
TBD	LED17T8/L48/DIM/830/BF	4ft	17	2100	3000	82	220	25	Y
TBD	LED17T8/L48/DIM/835/BF	4ft	17	2100	3500	82	220	25	Y
TBD	LED17T8/L48/DIM/841/BF	4ft	17	2200	4100	82	220	25	Y
TBD	LED17T8/L48/DIM/850/BF	4ft	17	2200	5000	82	220	25	Y
TBD	LED12T8/L36/DIM/830/BF	3ft	12	1650	3000	82	220	25	Y
TBD	LED12T8/L36/DIM/835/BF	3ft	12	1650	3500	82	220	25	Y
TBD	LED12T8/L36/DIM/841/BF	3ft	12	1650	4100	82	220	25	Y
TBD	LED12T8/L36/DIM/850/BF	3ft	12	1650	5000	82	220	25	Y
TBD	LED9T8/L24/DIM/830/BF	2ft	9	1100	3000	82	220	25	Y
TBD	LED9T8/L24/DIM/835/BF	2ft	9	1100	3500	82	220	25	Y
TBD	LED9T8/L24/DIM/841/BF	2ft	9	1100	4100	82	220	25	Y
TBD	LED9T8/L24/DIM/850/BF	2ft	9	1100	5000	82	220	25	Y

Ordering Guide

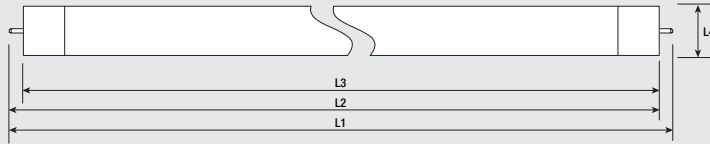
LED	17	T8	/	L	48	/	DIM	/	8	41	/	BF
LED	Wattage	Lamp Type		Length	48 Inches		Dimmable		CRI = 82	Color Temperature 41 = 4100K 30 = 3000K 35 = 3500K 50 = 5000K		LEDlescent™ T8 ballast-free lamps

Application Information

Application Notes

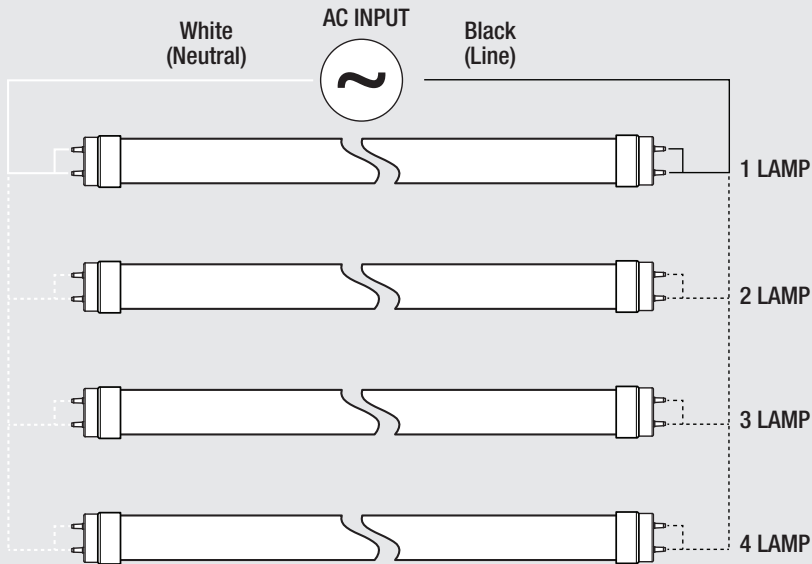
- All installation, inspection, and maintenance of lighting fixtures should be done with the power to the fixture turned off. Lamps should be installed and operated in compliance with the National Electrical Code (NEC), Underwriters Laboratories Inc. (UL) requirements, and all applicable codes and regulations.
- Ensure lamp holders/sockets are in good operating condition before installation.
- 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.
- Operating temperature range between -4°F and 113°F (-20°C and 45°C).
- Suitable for use in dry and damp environments.
- Suitable for use with tube guards.
- 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.
- Please read and comply with all instructions before attempting installation.
- Use with phase-cut dimmers, see dimmer compatibility list at www.sylvania.com.
- For detailed warranty information, please see 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/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.

Warranty

LEDlescent™ Dimmable T8 Ballast-Free lamps are covered by the LED T8 Lamp Limited Warranty. For additional details, please visit www.sylvania.com/warranty.

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