

SYLVANIA Lamps

LEDlescent™ T8 8ft 2-Piece Ballast-Free Lamps

Application

LEDlescent T8 and T8HO 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. Our revolutionary design features two four-foot pieces that connect making logistics easier and more cost efficient. These lamps are constructed with PET shatter resistant film to contain components should the tube break. Available in 8-foot lengths but ships in two 4-foot sections, saving money on shipping and storage, and minimizes the opportunity for breakage in the process.

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.

Benefits and Features

- Industry changing two-piece snap-fit design that is available in 36W
- Frosted glass optics with shatter-resistant PET coating
- Fa8 Single Pin Base
- Double-ended wiring configuration
- CCT: 3000K, 3500K, 4100K, 5000K
- 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
- Suitable for dry and damp locations (cannot come in direct contact with water)
- Suitable for open and enclosed fixtures
- These lamps have been tested and approved with some 0-10V dimmers
- No warm-up time, instant-on with full light output and stable lamp to lamp color



Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings*
F096T8 w/QHE 2X59 T8/UNV ISN	109	72	34%

*Energy savings over life of lamp calculated at \$0.11/kWh
If replacing T12 Slimline, savings is greater than 55%

Electrical

- Input voltage range: 120-277V_{AC}
- Input voltage tolerance: ±10% (108V-305V)
- Power Factor >0.9
- THD <25%

Rated Life

- 50,000 hours (L₇₀)

Warranty

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

Ambient Operating Range

- -4°F to +113°F (-20°C to +45°C)

Certifications and Listings

- UL 1993
- cUL1993
- UL1598C
- cUL1598C
- RoHS
- FCC
- NSF
- DLC 5.1



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

LED	36	T8	FA8	L96	2FGP	DIM	8	XX	BF
LED	Wattage	Lamp Type	Base Type	Length	Bulb Finish	Dimming	CRI	CCT	Operation
LED = LED Lamp	36 = 36 Watts	T8	FA8 = FA8	L96 = 96in (8ft)	FGP = Frosted Glass w/PET	DIM = Dimmable	8 = 80+	30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	BF = UL Type B

Ordering Information

Item Number	Ordering Abbreviation	Wattage (W)	Base Type	Replaces*	Input Voltage (V)	Average Rated Life (hrs.)	CCT	Typical Lumens (lm)	CRI	Power Factor	Bulb Finish	Case Qty	DLC Listed
41577	LED36T8FA8L96-2FGPDIM830BF	36	FA8	F096T8	120-277V	50,000	3000K	4400	82	>0.90	Frosted Glass w/PET	10	TBD
41578	LED36T8FA8L96-2FGPDIM835BF	36	FA8	F096T8	120-277V	50,000	3500K	4400	82	>0.90	Frosted Glass w/PET	10	TBD
41579	LED36T8FA8L96-2FGPDIM841BF	36	FA8	F096T8	120-277V	50,000	4100K	4400	82	>0.90	Frosted Glass w/PET	10	TBD
41580	LED36T8FA8L96-2FGPDIM850BF	36	FA8	F096T8	120-277V	50,000	5000K	4400	82	>0.90	Frosted Glass w/PET	10	TBD

*Can also be used to replace T12 Slimline 8ft (F96T12 with FA8 base)

Dimming Module Ordering Information

Item Number	Ordering Abbreviation	Dimming	Input Voltage	Input Current	Input Wattage	Output Wattage	Efficiency	Lifetime	Warranty
75826	LVDC100WTLEDUNVDIM	0-10V	120-277V _{AC}	Max. 1000mA	Max. 100W	Max. 95W	Max. 95%	50,000 hrs	5 yrs

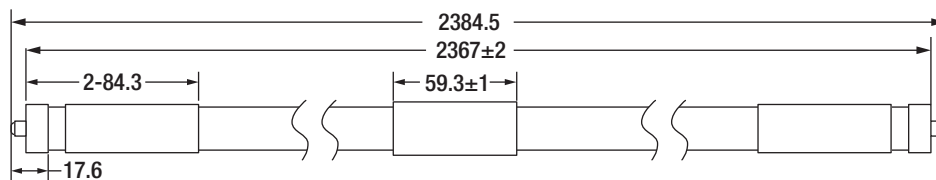
Note: Please refer to LEDVANCE data sheet for the Dimming Module (Item Number 75826): <https://www.ledvanceus.com/products/led-lamps/tubes/Pages/DUALescent-T8-Universal-Lamp-UL-Type-A+B.aspx> Module is only for use with the lamps specified in the data sheet.

Specifications & Lighting Data

Lamp	Ballast	Current – 120V/277V (AMPS)	System Power (W)	System Lumens (lm)	System Efficacy (lm/W)	No of Lamps
LED36T8FA8L96-2FGPDIM8XXBF	N/A	1.2/0.52	72	8800	122	2

Physical Information

Lamp Description	End of Base Pin to End of Opposite Pin End	Base Face to Base Face	Length of Center Connector Piece	Bulb Outside Diameter
LED36T8FA8L96-2FGPDIM8XXBF	93.88" ±0.08" (2384mm ±2mm)	93.19" ±0.08" (2367mm ±2mm)	2.33" ±0.04" (59.3mm ±1mm)	1.00" ±0.08" (25.4mm ±2.0mm)



Dimensions in mm

Features

2-piece design

Allows for ease of shipping and storing on standard pallets



Pins

Includes single pin FA8




Magnetic Clip

All lamps ship with a magnetic clip and screw to ensure stability in the center of the lamp

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