

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 two wattages: 36W and 42W
- Frosted glass optics with shatter-resistant PET coating
- 36W available in FA8 Single-Pin base
- Base Flexibility: 42W Lamps ship with FA8 and R17D bases (single-pin) but kit includes FA8 and R17D (recessed double-contact) bases to allow for retrofit into T8 or T12 Slimline (FA8 and R17D) or T8HO applications (FA8 and R17D)
- Kit includes bracket and screw for support in the middle of the lamps
- 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



Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings*
F096T8 w/QHE 2X59 T8/UNV ISN	109	72	34%
F096T8 w/QHE 2X59 T8/UNV ISN	109	84	23%
F096T8HO w/QHE 2X86 T8HO/UNV PSN	182	84	54%

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

- 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

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	XX	T8XX	FA8	L96	-2	FGP	DIM	8	XX	BF
LED	Wattage	Lamp Type	Base Type	Length	-2 = 2-piece	Bulb Finish	Dimming	CRI	CCT	Operation
LED = LED Lamp	36 = 36 Watts 42 = 42 Watts	T8 = T8 T8HO = T8HO	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	5.1
41578	LED36T8FA8L96-2FGPDIM835BF	36	FA8	F096T8	120-277V	50,000	3500K	4400	82	>0.90	Frosted Glass w/PET	10	5.1
41579	LED36T8FA8L96-2FGPDIM841BF	36	FA8	F096T8	120-277V	50,000	4100K	4400	82	>0.90	Frosted Glass w/PET	10	5.1
41580	LED36T8FA8L96-2FGPDIM850BF	36	FA8	F096T8	120-277V	50,000	5000K	4400	82	>0.90	Frosted Glass w/PET	10	5.1
41872	LED42T8HOL96-2FGPDIM830BF	42	FA8/R17D	F096T8/F096T8HO	120-277V	50,000	3000K	5040	82	>0.90	Frosted Glass w/PET	10	5.1†
41873	LED42T8HOL96-2FGPDIM835BF	42	FA8/R17D	F096T8/F096T8HO	120-277V	50,000	3500K	5040	82	>0.90	Frosted Glass w/PET	10	5.1†
41874	LED42T8HOL96-2FGPDIM841BF	42	FA8/R17D	F096T8/F096T8HO	120-277V	50,000	4100K	5040	82	>0.90	Frosted Glass w/PET	10	5.1†
41875	LED42T8HOL96-2FGPDIM850BF	42	FA8/R17D	F096T8/F096T8HO	120-277V	50,000	5000K	5040	82	>0.90	Frosted Glass w/PET	10	5.1†

*Can also be used to replace T12 Slimline 8ft (F96T12 with FA8 base).
†LED42T8HOL96 lamps ship with FA8 bases and are DLC approved. DLC does not have a category for lamps having R17D bases.

Dimming Module Ordering Information

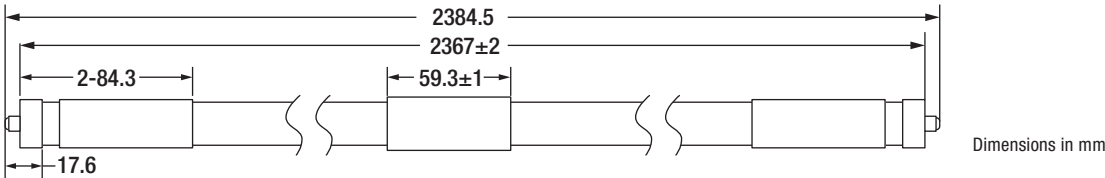
Item Number	Ordering Abbreviation	Dimming	Input Voltage	Input Current	Input Wattage	Output Wattage	Efficiency	Lifetime	Warranty
75826	LVDC100WTLEDUNVDIM	0-10V	120-277V _{AC}	Max. 1000mA	Max. 100W	Max. 95W	Max. 95%	50,000 hrs	5 yrs

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
LED42T8HOL96-2FGPDIM8XXBF	N/A	1.4 /0.61	168	10,080	60	2

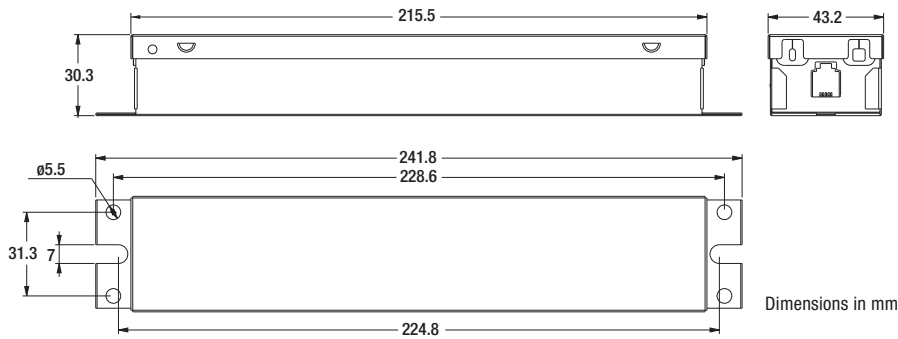
Lamp Physical Information

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)
LED42T8HOL96-2FGPDIM8XXBF	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)



Dimming Module

Overall Length	Width	Height
9.52" ± 0.08" (241.8mm ± 2mm)	1.70" ± 0.08" (43.2mm ± 2mm)	1.19" ± 0.04" (30.3mm ± 1mm)



Features

2-piece design

Allows for ease of shipping and storing on standard pallets



Accessories

The 42W lamp ships with interchangeable bases to allow for retrofit into Single-Pin or Recessed Double-Contact applications



Magnetic Clip

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



Base

36W has FA8 base
42W ships with FA8 and includes R17D for HO applications

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