

SYLVANIA Lamps

LEDlescent™ Natural™ LED T8

TruWave Technology™

TruWave Technology offers the best alternative to natural light by mimicking the natural light spectrum, all while saving energy.

Benefits and Features

- Controls blue wavelengths for lower glare and reduced eye strain to improve readability and supports an improved sleep-wake cycle
- Perfect fit where clean light color rendering is needed for seeing realistic, vivid colors without sacrificing light output
- Properly saturates red to make building spaces and flesh tones accurate and vibrant, without oversaturating which compromises energy efficiencies
- Exceptional color quality without the loss of efficacy typical of most 90+ CRI solutions
- Familiar form factor of shatter-proof nano-plastic with plastic endcaps
- Double ended platform where lamp is wired end-to-end preventing non passive failure of a fluorescent lamp should it be inadvertently installed in the fixture
- 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
- Up to 129 LPW (Lamp efficacy)
- 3000K, 3500K, 4100K, 5000K color temperatures
- Non-dimmable
- CRI: 90; R₉ >50, average R₉-R₁₂ ≥78; IES TM-30-18 R_f >91 & R_g >95 exceptional color quality
- Beam angle: 200°, Light emitting area: 340°

Electrical

- Installed directly on 120-277V; no ballast required
- Power factor >0.90, THD ≤20%

Rated Life

- 60,000 hours (L₇₀)

Warranty

- 5 year limited lamp warranty (24/7 operation)



Wattage Comparison

Traditional Source	Traditional System Wattage	LED System Wattage	Energy Savings
32W T8 Fluorescent with QHE2x32 ISN	55W	34W	38%

Ambient Operating Range

- -4°F to 113°F (-20°C to 45°C)

Max Case Temperature

- 170°F (77°C)

Certifications and Listings

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

*FCC Title 47 CFR, Part 15 Subpart B Class B

**NSF/ANSI Standard 2 - Food Equipment

Installation

- Please refer to the Installation manual included inside the packaging and the applications information listed below for more information.



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

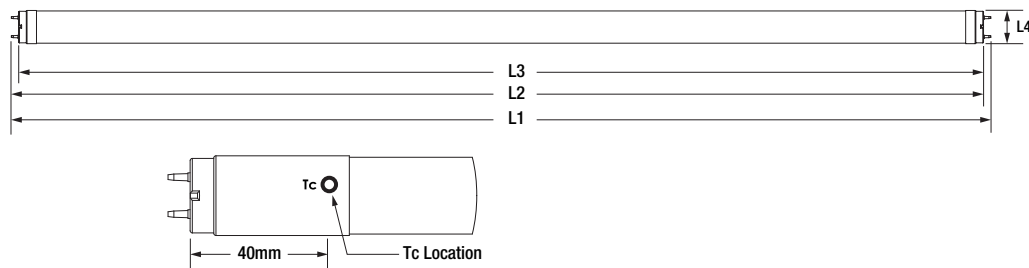
Ordering Guide

LED	17	/	T8	/	L48	/	FP	/	9	XX	TL	/	BF
LED	Wattage 17 = 17 Watts		Lamp Type T8		Length 48 = 48"		FP = Frosted Nano Plastic		CRI 9 = 90	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	TL = Natural with TruWave Technology™		BF = Ballast-Free

Ordering Information

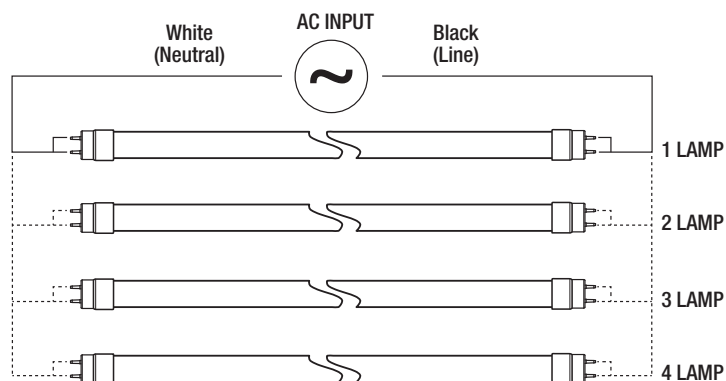
Item Number	Ordering Abbreviation	Power (W)	Length	Lamp Efficacy (LPW)	Typical Lumens (lm)	CCT	CRI	Package Qty	DLC Listed
40895	LED17T8/L48/FP/930TL/BF	17	4ft	124	2100	3000K	90	25	–
40896	LED17T8/L48/FP/935TL/BF	17	4ft	124	2100	3500K	90	25	–
40897	LED17T8/L48/FP/941TL/BF	17	4ft	129	2200	4100K	90	25	–
40898	LED17T8/L48/FP/950TL/BF	17	4ft	129	2200	5000K	90	25	–

Physical Information



Lamp Description	L1 End of Base Pin to End of Opposite Pin End	L2 Base Face to Opposite Base Pin	L3 Base Face to Base Face	L4 Bulb Outside Diameter
LED17T8/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)

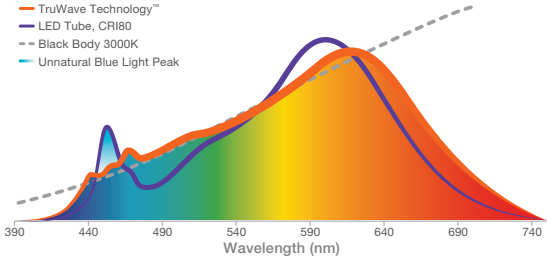
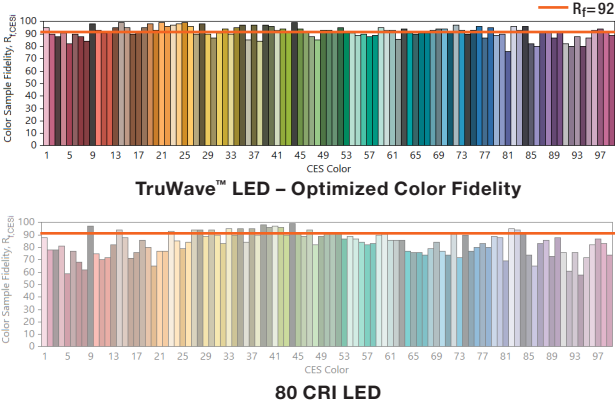
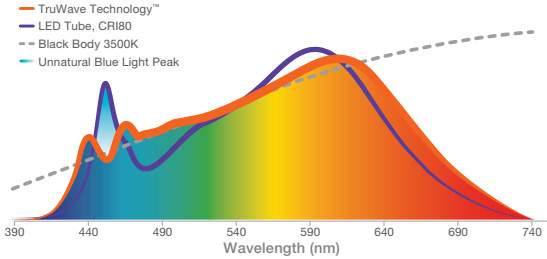
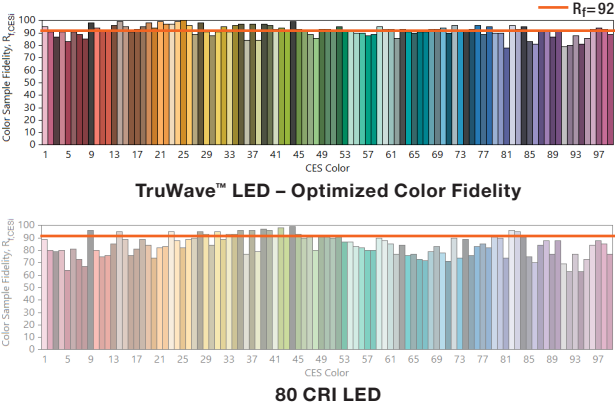
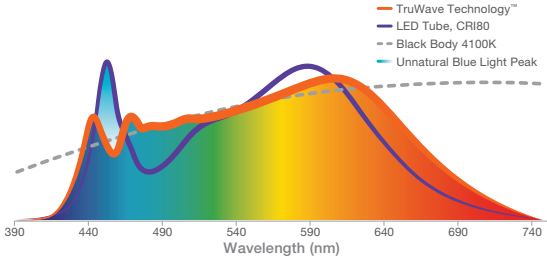
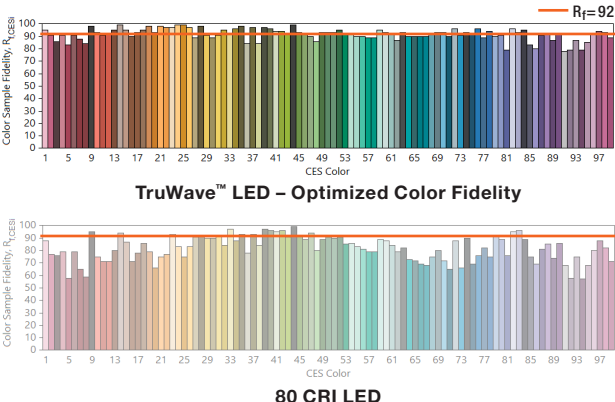
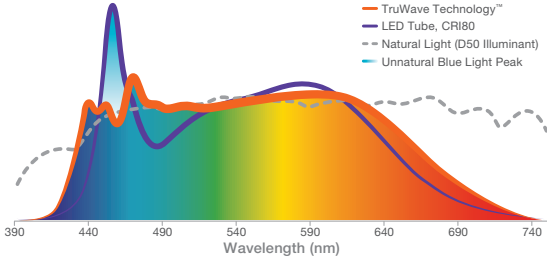
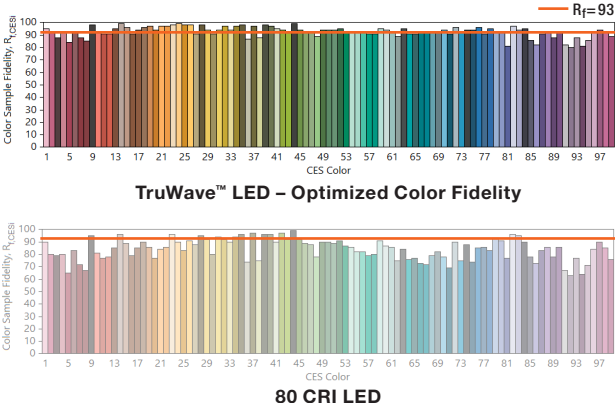
Wiring Diagram



Note:

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

Color Quality Comparison

CCT	Spectral Power Distribution	TM-30-18 Fidelity Index
3000K		
3500K		
4100K		
5000K		

Application Information

1. Suitable for open and enclosed fixtures.
2. Suitable for use in dry and damp environments; cannot come in direct contact with water.
3. Ensure lamp holders/sockets are in good operating condition before installation.
4. No socket change required. Sockets may be shunted or non-shunted. Tie socket leads together for non-shunted sockets as instructed in installation guide.
5. Not for emergency lighting.
6. Not to be used with dimmers.
7. Do not use LEDlescent™ T8 lamps with external LED drivers or ballasts.
8. 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.
9. 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.
10. 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.
11. Please read all installation instructions before attempting installation.
12. 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.
13. For detailed warranty information, please see www.sylvania.com/warranty.

Additional Specifications

- Optimized nano plastic optics with medium bi-pin G13 base
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- No UV emission
- Use with occupancy and vacancy sensors for enhanced energy savings

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Specifications subject to change without notice.

