

# LED RETROFIT T8 LAMP SERIES

## Product Description

All of our LED T8 Tubes are made with the best quality of Surface Mounted Diodes (SMD). Each color temperature goes through a series of quality control and binning processes to provide the best light quality and consistency; it has a slower depreciation in lumen output than other forms of Solid State Lights.

### FEATURES

- 50,000 Hours (Energy Star TM-21 Tested)
- Instant On; No Flickering
- Not Affected by Turning On/Off
- Slow Lumen Depreciation
- No Long Term Maintenance Costs
- Up to 50% Energy Savings
- Solid State Lighting
- No Mercury or UV Radiation
- 100% Recyclable
- Shatter Proof

### APPLICATIONS

#### Indoor

- Schools
- Hospitals
- Warehouses
- Offices
- Supermarkets
- Storage
- Commercial/Industrial
- Hospitality
- Retail
- High Bay

#### Outdoor

- Parking Structures
- Sign Illumination
- Building Accent Lighting
- Parking Garages
- Tunnels

**CRI: Minimum 82 CRI**

**CCT: 3500K, 4000K or 5000K**

**Efficacy: 100+ Lumen/Watt**

**Limited Warranty: 5 Years**

**DesignLights Consortium Qualified Product\***

**UL Listed**

\*DesignLights Consortium (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

## Ordering Information

Example: LTU18-SW-UNV-RE

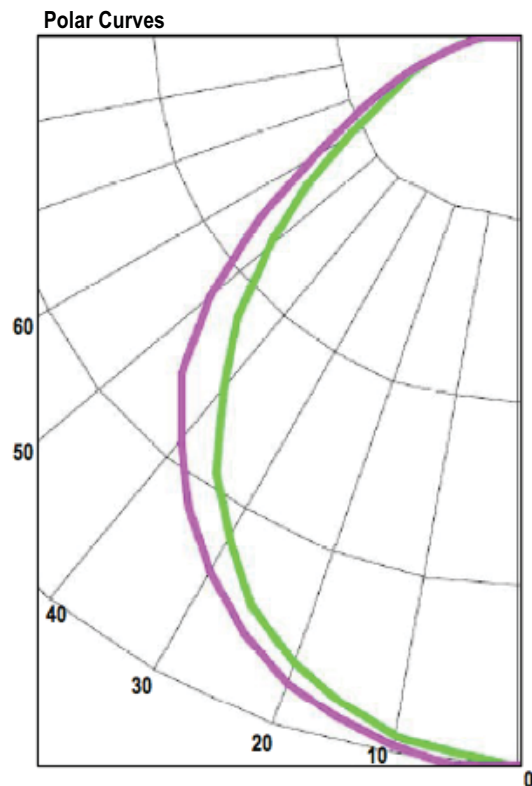


Product	Watt	CCT	Voltage	Options
LTU	<b>09</b> 9W (2')	<b>WW</b> 3500K	<b>UNV</b> 100-277V	<p><b>DIM</b> Dimming (120V only) -Compatible with analog dimmers, dims 0-100%</p> <p><b>RE</b> Rotatable End -Both ends of the lamp can be adjusted to redirect the direction of light output</p> <p><b>CC</b> Clear Cover -PC cover is clear which allows the LED diodes to be visible</p>
	<b>12</b> 12W (3')	<b>SW</b> 4000K		
	<b>18</b> 18W (4')	<b>CW</b> 5000K		



Model No.	Watts	THD	Color Temp. CCT (K)	CRI	Lumens	Efficacy	Nominal Length	Base	Beam Angle
L-TU09-WW-UNV	9	<15%	3500K	>82	900	100	24"	Bi-Pin	160
L-TU09-SW-UNV	9	<15%	4000K	>82	900	100	24"	Bi-Pin	160
L-TU09-CW-UNV	9	<15%	5000K	>82	918	102	24"	Bi-Pin	160
L-TU12-WW-UNV	12	<15%	3500K	>82	1200	100	36"	Bi-Pin	160
L-TU12-SW-UNV	12	<15%	4000K	>82	1200	100	36"	Bi-Pin	160
L-TU12-CW-UNV	12	<15%	5000K	>82	1224	102	36"	Bi-Pin	160
L-TU18-WW-UNV	18	<15%	3500K	>82	1800	100	48"	Bi-Pin	160
L-TU18-SW-UNV	18	<15%	4000K	>82	1836	102	48"	Bi-Pin	160
L-TU18-CW-UNV	18	<15%	5000K	>82	1872	104	48"	Bi-Pin	160

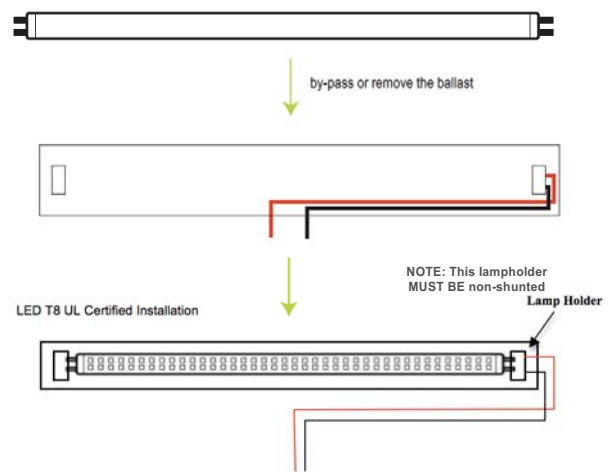
## Photometry



## Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	870.76	31.4	31.4
0-40	1404.45	50.6	50.6
0-60	2313.32	83.4	83.4
0-90	2757.82	99.4	99.4

## Installation Instructions



1. Turn off power to fixture
2. Remove existing fluorescent lamps
3. Remove ballast cover
4. Disconnect power line from the ballast
5. Cut all lampholder leads from the ballast, leaving the leads as long as possible
6. Strip the plastic cover from ends of wire connected to lampholders
7. Using the two wires from the only one lampholder connect one to neutral and one to hot end. **NOTE: This lampholder MUST BE non-shunted**
8. Remove Ballast
9. Insert LED lamp in fixture with the power input end inserted to the powered lampholder

