

18W LED Bulb - 4' T8 Lamp - 2250 Lumens - Dual Power Ends - Replacement or Upgrade for

Fluorescent

LEDT8-18W-V1-X2

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



LEDT8-18W-V1-X2 28 watt T-series Fluorescent Style LED Tube Listing: United States & Canada

Lamp Type: LED T8-Style Tube (Dual Power Ends) Base: G13 Bi-Pin Dimensions: 47"-L x 1.03"-OD Weight: 0.77 lbs (350 grams) Voltage: 100-277 Volts AC, 50/60Hz or 11-25 Volts AC/DC Watts: 18 watts Total Lumens: 2,250 Luminous Efficiency: 125 lm/w Lamp Life Expectancy: 50,000+ Hours Color Temperature: 3000K, 4500K or 5600K Color Rendering Index: 85+ Beam angle: 150° Lighting Configuration: Flood Pattern Lens: Clear, Frosted, Heavy Frosted Power Efficiency: 90% Power Factor: >0.95 Ambient Temperature Rating: -40°C to +65°C Materials: Aluminum housing, polycarbonate lens Ingress Protection: IP20

Quick Summary

Listed for United States and Canada UL-1993 UL-1993 CLS CAN/CSA C22.2 No 1993 80% Lumen Retention @ 50,000+ Hours 125 Im/w efficiency Internal Driver Dual End Powered Line Voltage On One End, Neutral on Other LEL Listed

Special Orders- Requirements

Contact us for special requirements Toll Free: 1-800-369-6671 Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

The Larson Electronics LEDT8-18W-V1-X2 28 watt T-series LED tube lamp is an excellent choice for upgrading existing T8 fluorescent lamp fixtures to LEDs as well as a direct replacement for our own LED light fixtures. This LED lamp is LEL listed, providing 125 lumens per watt for a total of 2,250 lumens per lamp. These T8 LED replacement lamps offer 50,000 hour lamp life, over twice that of T8 or T5HO fluorescent lamps, while offering impact and vibration resistance far exceeding traditional light sources. The LEDT8-18W-V1-X2 features dual-sided power ends that has line voltage going to one end and the neutral line going to the other end. This 18 Watt T-series LED Bulb with dual sided power ends works with any T8 fluorescent light fixtures, can be configured for any T series fluorescent lamp fixture with G13 bi-pin tombstones or sockets, and requires no ballast for operation. To increase safety during installation and routine maintenance, these lamps are wired for dual sided power with internal integrated LED driver housed



within the tube. Internally, you simply bring the black wire to one end and the white wire to the other. The polycarbonate lens diffuses the light and makes this bulb ideal for food safe environments as there is no glass. The aluminum housing serves as a heat sink and provides rigidity and strength for this LED bulb. In fluorescent light fixtures with electronic ballasts, the operator needs to bypass the ballast and wire the power directly to one end of the LED tube and the neutral wire to the other end (black wire to one end and white wire to the other). The correct ends for each are clearly marked on each bulb to prevent incorrect wiring. Thus, this is an ideal upgrade for 4 foot fixtures with failed ballasts. These LED fluorescent style bulbs are universal voltage and run directly off any voltage ranging from 100 volts to 277 volts AC 50/60 Hz. The internal LED driver is a "smart" driver, sensing the incoming voltage and adjusting accordingly to provide the current required by the lamp. This allows operators to simply wire the fixture to voltage within the 120-277V range, no modifications required. This includes commonly found voltages such as 120V 60Hz, 220V 50Hz, 240V 60Hz, and 277V 60Hz. We also offer a 12/24V AC/DC version for low voltage applications for AC or DC power (positive to one end, negative to the other). Low voltage fixtures require no modifications between 12V and 24V power sources, nor between alternating and direct current supply.

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Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

The LEDT8-18W-V1-X2 features specially designed rotating end caps. Fluorescent lamps provide a full 360° beam coverage around the lamp. Since most fluorescent fixtures require directional lighting, reflectors have to be used to bounce the light back towards the intended target area for illumination. LED lamps are directional, which eliminates the need for back mounted reflectors and reduces wasted and lost light. However, the tombstones for existing fixtures may position the face of the LED lamp in a direction facing away from the target illumination area. With the rotating pins, operators can reposition the lamp so the face of the LED tube is positioned properly within existing fixtures. This also allows for fine tune adjustment of each individual lamp within fixtures containing multiple lamps.

These are the second generation of our 18 watt LED tubes. Efficiency for this LED lamp is 125 lumens per watt, for a total of 2,250 lumens per bulb. We offer a choice of 3000K warm white, 4500K natural white, and 5600K cool white color temperatures and clear, frosted, or heavy frosted lenses. The LEDT8 series of LED lamps are designed for direct replacement of 4ft fluorescent fixtures with G13 bases for replacing four foot T8, T8 high output, T12, T12 high output, and T12 very high output florescent lamps. Additionally, these lamps can be used in



fixtures that currently use a G5 to G13 adapter socket using T5 lamps. Please note, this tube is 47" in length and will not fit properly in fixtures designed to accept 45" T5 lamps without adapters.

These LED fluorescent tube replacements can be used as upgrades or replacements to our own explosion proof fluorescent lights, explosion proof paint spray booth lights as well as any other T series light fixture the operator already has in house. We have specially designed these for our explosion proof light fixtures, however, they can be used as replacements in standard fluorescent light fixtures. In our facilities, we replaced worn or spent fluorescent bulbs with these LED bulbs by removing the ballasts and bringing the white wire to one end and the black wire to the other end of the LED tube.

LED Lamp Benefits

- 1. 50,000 hour lifespan.
- 2. Can SAVE 50% or more on energy.

3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.

- 4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C,
- refrigeration)
- 5. 100% recyclable.
- 6. No toxins-lead, mercury.
- 7. No UV light, infrared radiation or CO2 emissions.
- 8. Qualifies buildings for LEED and other sustainable business certifications.
- 9. Bright, even light maintains consistent color over time.
- 10. Instant on/off No flickering, delays or buzzing.
- 11. Very good color rendering.
- 12. Vibration/impact resistant.
- 13. Significantly cooler operation.
- 14. Less frequent outages, higher output improves workplace safety.
- 15. Brings out natural appearance of products in sales or manufacturing applications.

16. Preserves integrity of retail products... no heat damage to formulations or thermal fade of branded packaging in display cases.

17. Unlimited indoor applications for overhead lighting, retail fixtures, signage, custom

lighting accents, manufacturing and general area illumination.

18. Easily retrofit existing conventional light fixtures, simplifies troffers since no ballasts are needed. Durable enough for portable use in exhibitions and trade shows.





Frequently Asked Questions (FAQ)



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LEDT8-48-RP

Lighting Facts Per Bulb

Brightness	2250 lumens
Estimated Yearly Based on 3 hrs/day Cost depends on ra	
Life Based on 3 hrs/day	y 46 years
Light Appearanc Warm 3000K	e Cool 4500K 5600K
Energy Used	18 watts



Warranty: 12 Months

Options:

LEDT8-18W-V1-X2-Color Temp-Diffusion-Voltage Example: LEDT8-18W-V1-X2-3000K-CLR-1227

	Color Temp	Diffusion		Vo	Voltage	
3000K	-3000K	CLEAR	-CLR	110-277 VAC	-1227	
4500K	-4500K	FROSTED	-FRST	11-25V AC/DC	-1224	
5600K	-5600K	HEAVY FROST	-HIFRST			
7500K	-7500K					



Links (Click on the below items to view):

- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- HigResPic1
- HigResPic2
- HigResPic3
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map