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LEDT8-28W-V1

28 Watt LED Bulb - 4 Foot T8 Lamp - 3500 Lumens - Replacement or Upgrade for Fluorescent Light

Product ID: 64280

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

LEDT8-28W-V1 28 watt T-series Fluorescent Style LED Tube

Listing: United States & Canada
Lamp Type: LED T8-Style Tube
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: 28 watts
Total Lumens: 3,500
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 lm/w efficiency
Internal Driver
Single End Powered
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 LEDT8-28W-V1 28 watt T-series LED tube lamp is an excellent choice for upg existing T8 fluorescent lamp fixtures to LEDs as well as a direct replacement for our own LED light f This LED lamp is LEL listed, providing 125 lumens per watt for a total of 3,500 lumens per lamp. The LED replacement lamps offer 50,000 hour lamp life, over twice that of T8 or T5HO fluorescent lamps offering impact and vibration resistance far exceeding traditional light sources.

This 28 Watt T-series LED Bulb 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 increa safety during installation and routine maintenance, these lamps are wired for single sided power with internal integrated LED driver housed within the tube. Internally, you simply bring the black wire to one pin and the whi to the other. The polycarbonate lens diffuses the light and makes this bulb ideal for food safe environments as t 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 powe directly to one end of the LED tube (black wire to one pin and white wire to the other). Thus, this is an ideal up for 4 foot fixtures with failed ballasts. These LED fluorescent style bulbs are universal voltage and run directly o voltage ranging from 100 volts to 277 volts AC 50/60 Hz. The internal LED driver is a "smart" driver, sensing th incoming voltage and adjusting accordingly to provide the current required by the lamp. This allows operators t 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 fo voltage applications for AC or DC power. Low voltage fixtures require no modifications between 12V and 24V pc sources, nor between alternating and direct current supply.

Click Photo to Enlarge

Click Photo to Enlarge

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

The LEDT8-28W-V1 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 use bounce the light back towards the intended target area for illumination. LED lamps are directional, which elimin need for back mounted reflectors and reduces wasted and lost light. However, the tombstones for existing fixtu position the face of the LED lamp in a direction facing away from the target illumination area. With the rotating operators can reposition the lamp so the face of the LED tube is positioned properly within existing fixtures. Thi allows for fine tune adjustment of each individual lamp within fixtures containing multiple lamps.

LED T8 bulbs (left) compared to old Fluorescent T8 bulbs (right) in a body shop

These are the second generation of our 28 watt LED tubes. Efficiency for this LED lamp is 125 lumens per watt, total of 3,500 lumens per bulb. We offer a choice of 3000K warm white, 4500K natural white, and 5600K cool w color temperatures and clear, frosted, or heavy frosted lenses. The LEDT8 series of LED lamps are designed for replacement of 4ft fluorescent fixtures with G13 bases for replacing four foot T8, T8 high output, T12, T12 high and T12 very high output florescent lamps. Additionally, these lamps can be used in fixtures that currently use G13 adapter socket using T5 lamps. Please note, this tube is 47" in length and will not fit properly in fixtures de 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 operato already has in house. We have specially designed these for our explosion proof light fixtures, however, they car used as replacements in standard fluorescent light fixtures. In our facilities, we replaced worn or spent fluoresc bulbs with these LED bulbs by removing the ballasts and bringing the white wire to one end and the black wire 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 cas
17. Unlimited indoor applications for overhead lighting, retail fixtures, signage, custom lighting accents, manufacturing and gen illumination.
18. Easily retrofit existing conventional light fixtures, simplifies troffers since no ballasts. needed Durable enough for portable u exhibitions and trade shows.

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Frequently Asked Questions (FAQ)

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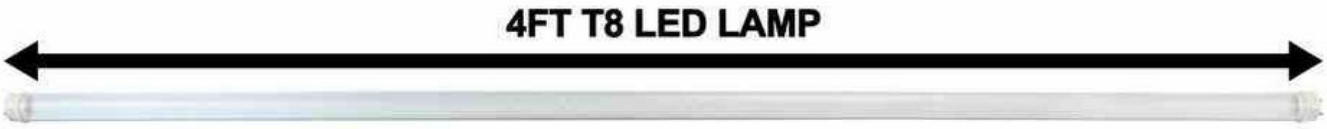

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LEDT8-28W-V1

Product ID: 64280

Warranty: 12 Months

Options:

LEDT8-28W-V1-Color Temp-Diffusion-Voltage

Example: LEDT8-28W-V1-3000K-CLR-1227

Color Temp	
3000K	-3000K
3500K	-3500K
4000K	-4000K
4500K	-4500K
5000K	-5000K
5600K	-5600K

Diffusion	
CLEAR	-CLR
FROSTED	-FRST
HEAVY FROST	-HIFRST

Voltage	
110-277 VAC	-1227
11-25V AC/DC	-1224

Links (Click on the below items to view):

- **Beam Information (Coverage, Datafile)**
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**
- **Dimensional Drawing 2D**
- **DXF (2D CAD Model)**
- **Operations Manual**
- **Solidworks EASM File**
- **SpecSheetSpanish**
- **Spectrum Curve (Wavelength Graph)**
- **STEP File (3D CAD Model)**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic9**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**