

28W LED Bulb - 4' T8 Lamp - 3500 Lumens - 0-10V Dimming - Replacement or Upgrade for Fluorescent

LEDT8-28W-V3-D

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



LEDT8-28W-V3-D 28W T-series Fluorescent Style Dimming LED Tube

Listing: United States & Canada

Lamp Type: 0-10V Dimming 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

0-10V Dimming

Special Orders- Requirements

Contact us for special requirements

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The LEDT8-28W-V3-D from Larson Electronics is a 28 watt T-series 0-10V Dimming LED Tube Lamp that makes 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 3,500 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.

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 increase 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 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.

This LED light fixture features 0-10V dimming capabilities. This gives operators the ability to manually adjust the brightness of the LED lamp quickly and easily. The 0-10V dimming allows for adjustments to fit the brightness needs of any lighting situation. A 0-10V dimmable light works through the use of a DC control signal that ranges between zero and ten volts. The basic idea is that at 10 volts of input the light is at its brightest level with 0 volts being the lowest possible dimness setting. The smooth, continuous and flicker-free dimming of a 0-10V dimmable LED light is ideal for a wide range of different lighting applications. The LEDT8-28W-V3-D features an external remote mount driver. Power is run from the driver to the tombstone on the bulb and the dimming is controlled via the wires hanging out of the back. Please note that some modifications to existing fixtures may be required to accommodate the dimming wire.

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 (black wire to one pin and white wire to the other). 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. Low voltage fixtures require no modifications between 12V and 24V power sources, nor between alternating and direct current supply.

[Click Photo to Enlarge](#)

[Click Photo to Enlarge](#)

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. 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 is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

The LEDT8-28W-V3-D 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 28 watt LED tubes. Efficiency for this LED lamp is 125 lumens per watt, for a total of 3,500 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 fluorescent 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.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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. needed Durable enough for portable use in exhibitions and trade shows.



Frequently Asked Questions (FAQ)







Warranty: 12 Months

Options:

LEDT8-28W-V3-D-Color Temp-Diffusion-Voltage

Example: LEDT8-28W-V3-D-3000K-CLR-HV

| Color Temp | |
|------------|--------|
| 3000K | -3000K |
| 4500K | -4500K |
| 5600K | -5600K |
| 7500K | -7500K |

| Diffusion | |
|-------------|---------|
| CLEAR | -CLR |
| FROSTED | -FRST |
| HEAVY FROST | -HIFRST |

| Voltage | |
|--------------|-----|
| 110-277 VAC | -HV |
| 11-25V AC/DC | -LV |

Links (Click on the below items to view):

- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [Operations Manual](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic9](#)
- [Video1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)