

28W LED Bulb - 47" T8 - 3500 Lumens - Replacement/Upgrade for Fluorescent Lights w/ R17D Sockets

LEDT8-28W-V2-R17D

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



LEDT8-28W-V2-R17D 28 watt T-series

UL Listing: United States

Lamp Type: LED Tube

Dimensions: 47"L x 1.03"OD

Weight: 1.35 Lbs (6.14 grams)

Voltage: 110 Volts to 277 VAC or 12/24 VDC

Watts: 28 watts

Total Lumens: 3,500

Lumens Per Watt: 125

Lamp Life Expectancy: 50,000+ Hours

Beam angle: 150 degrees

Color temperature: 5600K, 5000K, 4500K, 4000K, 3500K, 3000K, 2700K

Operating Temp: -20°C to +45°C

Base: Recessed Double Contact (R17d)

Ratings/Approvals

Listed for United States and Canada

UL-1993

CAN/CSA C22.2 No 1993

125 lm/w efficiency

IP20 Rated

80% Lumen Retention @ 50,000+ Hours

Internal Driver

Special Orders- Requirements

Contact us for special requirements

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The Larson Electronics LEDT8-28W-V2-R17D 28 watt T-series LED tube lamp is an excellent choice for upgrading existing T8 high output fluorescent lamp fixtures with R17D sockets to LEDs as well as a direct replacement for our own LED light fixtures.

This 28 Watt T-series LED Bulb works with any T8 fluorescent light fixtures with R17D sockets and requires no ballast for operation. 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. These LED light tubes can also be plugged directly into fluorescent light fixtures with magnetic ballasts, which makes them an ideal retrofit for older T8 fluorescent lights with magnetic ballasts and R17D sockets.

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.

Wiring: This LED lamp is available in two different wiring configurations; the X1 version and the X2 version. Having two wiring configurations available offers operators a choice to best fit their specific wiring requirements when replacing fluorescent tubes with more efficient LED lamps.

The X1 model uses a wiring configuration that has the operator connect both the hot wire and the neutral wire to a single side of the LED lamp. This version utilizes non-shunted sockets which are the type of sockets that are used with dimming and rapid start ballasts. In this configuration, both the hot wire and the neutral wire are connected to the same tombstone on the LED lamp with the other tombstone and lamps base being used for support only and having no live connection.

The X1 model is considered to be the safer approach to LED tubes because of the lack of high voltages running through the inside of the heat sink. The X1 version approach also does not present any issues while installing or servicing the lamp. In order to install the X1 model, operators must rewire the fixtures to bypass the existing ballast and to replace the existing tombstones if they are shunted.

The X2 model must be wired from both ends of the LED tube with the hot wire connecting to one end and the neutral wire to the other. This is the way that fluorescent tubes are setup within existing fluorescent fixtures which means that the X2 model only requires operators to bypass or remove the existing fluorescent ballast before wiring the replacement LED lamp into the fixture.

Voltage: These multi-voltage LED fluorescent bulbs run directly off any voltage ranging from 110 volts to 277 volts AC, including 120 volts, 230 volts, 277 volts, etc. We now offer 12/24 Volt DC LED T-series bulbs as well.

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These are the first generation of our 28 watt LED tubes. Lumen output is 125 lumens per watt for a total of 3,500 lumens per bulb.

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 T8 light fixture with R17D sockets 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 hot wire to one end and the neutral 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.



Frequently Asked Questions (FAQ)





Warranty: 12 Months

Options:

LEDT8-28W-V2-R17D-Termination-Voltage-Color Temp

Example: LEDT8-28W-V2-R17D-X1-HV-56K

Termination	
SINGLE END	-X1
END TO END	-X2

Voltage	
110-277 VAC	-HV
12-24 VDC	-LV

Color Temp	
5600K	-56K
5000K	-50K
4500K	-45K
4000K	-40K
3500K	-35K
3000K	-30K
2700K	-27K

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](#)