Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

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Product ID: 146486

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



Image:

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

LEDT5HO-48-V2 28 watt T-series
UL Listing: United States
Lamp Type: LED Tube
Dimensions: 45.1875"
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
Operating Temp : -20°C to +45°C
Base: G5

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 - Special 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 LEDT5HO-48-V2 28 watt T-series LED tube lamp is an excellent choice for upgrading existing T5HO high output fluorescent lamp fixtures to LEDs as well as a direct replacement for our own LED light fixtures. This unit is the same length, but not the same OD, compared to standard T5 and T5HO lamps.

This 28 Watt T-series LED Bulb works with any T5/HO fluorescent light fixtures, can be configured for any T series fluorescent bulb fixture 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 T5 fluorescent lights with magnetic ballasts.

This LED lamp supports a G5 base type. The unit is the same length, but not the same OD, as standard T5 and T5HO lamps.

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.

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 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 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.

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 tradeshows.

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Frequently Asked Questions (FAQ)

There are no Faqs



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Product ID: 146486

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

-Termination-Voltage
Example: -X1-1227

Termination	
SINGLE END	-X1
END TO END	-X2

Voltage	
110-277 VAC	-1227
12-24 VDC	-1224

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Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/146486.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/146486.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/146486.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/146486.JPG)
- **HigResPic9**(https://www.larsonelectronics.com//images/product/HigResPic9/146486.JPG)
- **Video1**(https://www.youtube.com/watch?v=12Quu_Q_Hml)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)