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

www.LarsonElectronics.com
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Product ID: 146077

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.

LEDT8-24-V1-1224 14W T-series Low Voltage Rough Service LED Bulb

UL Listing: United States
Lamp Type: LED Tube
Dimensions: 24"
Weight: 381 grams
Voltage: 11-25V AC/DC
Watts: 14 watts
Total Lumens: 1,750
Lumens Per Watt:125
Lamp Life Expectancy: 50,000+ Hours
Beam angle: 150 degrees
Color temperature: 3000K (clear), 4500K (clear), or 5600K (light frost)
Operating Temp : -20°C to 85°C

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
Single End Powered
Rough Service

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 LEDT8-24-V1-1224 rough service 14 watt T-series low voltage 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 14 Watt T-series low voltage LED Bulb works with any T8 fluorescent light fixtures, can

be configured for any T series fluorescent bulb fixture, requires no ballast for operation and can handle rough service applications. 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 or both ends of the LED tube (black wire to one end and white wire to the other). Thus, this is an ideal upgrade for 2 foot fixtures with failed ballasts. These multi-voltage LED fluorescent bulbs run directly off any low voltage ranging from 11 volts to 25 volts AC and DC.



Click Photo to Enlarge



Click Photo to Enlarge

These are the first generation of our 14 watt LED tubes. Lumen output is 125 lumens per watt for a total of 1,750 lumens per bulb.

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.

These low voltage, rough service LED fluorescent tube replacements can be used as upgrades or replacements to our own Larson Electronics.com 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 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. needed Durable enough for portable use in exhibitions and tradeshows.

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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Product ID: 146077

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

Options:

-Color Temp-Lens Type
Example: -3000K-CLR

Color Temp	
3000K	-3000K
4500K	-4500K
5600K	-5600K

Lens Type	
CLEAR	-CLR
FROSTED	-FRST
HEAVY FROST	-HIFRST

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com//images/product/CECCert/146077.PDF)
- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/146077.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com//images/product/NECCert/146077.PDF)
- **HigResPic9**(https://www.larsonelectronics.com//images/product/HigResPic9/146077.JPG)
- **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)