Larson Electronics LLC
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Product ID: 106144

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.

LEDT8-48-BLST 15.9 watt T-series Fluorescent Style LED Tube

Listing: United States & Canada
Lamp Type: LED T8-Style Tube
Base: G13 Bi-Pin
Dimensions: 47.24"-L x 1.02"-OD
Weight: 0.77 lbs (350 grams)
Voltage: 100-277 Volts AC, 50/60Hz
Watts: 15.9 watts
Total Lumens: 2,000
Luminous Efficiency: 130 Lm/W
Lamp Life Expectancy: 50,000+ Hours
Color Temperature: 4000k or 5000k
Color Rendering Index: >82.5
Beam angle: 140°
Lighting Configuration: Flood Pattern
Lens: Frosted
Power Efficiency: 90%
Power Factor: >0.98
Ambient Temperature Rating: -20°C to +45°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 137
CAN/CSA C22.2 No 137 CLS
130 Lm/W efficiency
Certified to Canadian Standards
LEL Listed
80% Lumen Retention @ 50,000+ Hours
Internal Driver
Single End Powered

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 LEDT8-48-BLST 15.9 watt T-series 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 LED lamp is LEL listed, providing 130 lumens per watt for a total of 2,000 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. The LEDT8-48-BLST is equipped with a special driver that allows it to work with a flourescent ballast and no need for ballast removal or wiring around the ballast and also works with no ballast at all.

This 15.9 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.

In fluorescent light fixtures with electronic ballasts, the operator usually needs to bypass the ballast and wire the power directly to the LED tube (black wire to one pin and white wire to the other). That is not the case with the LEDT8-48-BLST model of lamps. These T-series LED tube lamps contain special drivers that allow them to work with flourescent ballasts with no damage to the LED. Operators do not need to wire around the existing ballasts during installation which saves both time and money. However, they do not require a flourescent ballast and work equally as well without a ballast at all. 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.



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 break during operation. 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 applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and

increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

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, like the LEDT8-48-BLST are directional, which eliminates the need for back mounted reflectors and reduces wasted and lost light.

These are the second generation of our 15.9 watt LED tubes. Efficiency for this LED lamp is 130 lumens per watt, for a total of 2,000 lumens per bulb. We offer a choice of 4000K and 5000k color temperatures and 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 florescent 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 with no need to remove the ballasts or wiring around them.

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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Product ID: 106144

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

Options:

-Color Temp
Example: -40K

Color Temp	
4000K	-40K
5000K	-50K

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com//images/product/CECCert/106144.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com//images/product/NECCert/106144.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/106144.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/106144.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/106144.JPG)
- **HigResPic4**(https://www.larsonelectronics.com//images/product/HigResPic4/106144.JPG)
- **HigResPic9**(https://www.larsonelectronics.com//images/product/HigResPic9/106144.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)