

WDL-48-IPS-LED-1224

40 Watt LED Machine Vision Light - Adjustable Tube Light - 5000 Lumens - 11-25V DC/DC - Food Safe

Product ID: 148309

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



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.

WDL-48-IPS-LED-1224 LED Vision LED Light

Lamp Type: LED

Dimensions: 48.00"-L x 3.25"-W x 4.50"-H

Weight: 53 lb

Voltage: 11-25 V AC/DC

Watts: 40

Lumens: 5,000

Lamp Life Expectancy: 100,000+ Hours

Color Temperature: 5600K, 5000K, 4500K, 4300K, or 3000K

CRI: 80

Beam Type: 100° Flood or 30° Spot

Amps: 3.33 A @ 12 V DC, 1.67 A @ 24 V DC

Operating Temp Range: -40°C to +85°C

Housing Materials: CNC Machined Aluminum End Caps and Mounting Brackets

Lens Materials: Polycarbonate

Gasket Material: Silicone O-Rings

Mounting: Surface Mount via L Brackets

Wiring: 5" 16/2 SOOW Cord w/ Flying Leads

Ratings/Approvals

NRTL Certified to UL 1598

NRTL Certified to CSA 22.2 No. 250.0

IP67 Rated

Sanitation / Food Safe Suitable

Special Orders - Special Requirements

Contact us for special requirements

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The WDL-48-IPS-LED-1224 low profile LED light from Larson Electronics is a compact luminary designed for machine vision applications. This low

voltage machine light emits a total of 5,000 lumens during operation, with a color temperature rating of 5,000K. This LED light features an adjustable surface mount and constructed of CNC billet aluminum with a polycarbonate lens and double o-ring gasket, making it ideal for wash-down and food service applications.

The WDL-48-IPS-LED-1224 is designed for machine vision lighting installations in compact spaces. The 40-watt explosion proof LED light operates on 11-25V AC/DC low voltage. During operation, the unit emits 5,000 lumens of white light. It is available with the following color temperatures: 5600K, 5000K, 4500K, 4300K, or 3000K. For increased accuracy and detection, the luminary comes with a CRI rating of 80+. This light comes in a 100° flood beam configuration for wide area illumination or a 30° spot beam configuration for focused illumination.

The WDL-48-IPS-LED-1224 is wash-down and sanitation environments. This unit carries an IP67 waterproof rating, which ensures protection against limited ingress from dust, dirt, oil, and full protection against water directly sprayed at high pressure. The no glass assembly makes this unit a perfect fit for food service machine systems.

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. Solid state LED lighting is also safer for the environment as LEDs are 100% recyclable. And recycling simultaneously reduces operating costs by eliminating the need for the expensive special disposal services required with traditional gas burning and arc type lamps.

Durability: The WDL-48-IPS-LED-1224 LED assembly constructed of extruded aluminum for rigidity and even heat dissipation. This LED assembly is then housed within a polycarbonate cylinder, protected by aluminum end caps with double o-ring seals on each end. The industrial housing provides an IP67 ingress protection against dust and protection against high pressure water spray that are experienced in wash-down applications. This design is weather resistant, suitable for indoor or outdoor applications, and ideal for areas where dampness or dusty conditions are regularly encountered.

Wiring/Power: These machine vision LED lights are equipped with 5" 16/2 SOOW cord containing a standard two-wire (positive/negative) connecting configuration. These wash-down lights are universal voltage capable, operating on AC/DC voltages from 11-25 volts for machine vision systems. Each WDL-48-IPS-LED-1224 draws 40 watts at 3.33 amps on 12 V DC or 1.67 amps on 24 V DC.

Mounting: Mounting for this LED machine light is provided by two L bracket mounting tabs that allow operators to mount the light to flat surfaces. Once mounted, the WDL-48-IPS-LED-1224 can be adjusted 180° and locked into place via end cap set screws. The entire assembly weighs 53 lb and measures 48" long, 3.25" wide and 4.5" tall, making it ideal for mounting in areas where space is limited and a low profile fixture is required.

Applications: Machine vision lighting, industrial automation, industrial manufacturing, inspections, labeling, verification, quality assurance and more. 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)









WDL-48-IPS-LED-1224

Product ID: 148309

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

WDL-48-IPS-LED-1224-Color Temp

Example: WDL-48-IPS-LED-1224-56K

Color Temp	
5600K	-56K
5000K	-50K
4500K	-45K
4300K	-43K
3000K	-30K

Links (Click on the below items to view):

- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)