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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

HBLP-1MLED-B-HDBC

150 Watt Explosion Proof High Bay I-Beam LED Light Fixture - Class 1 Division 1 Group B Hydrogen

Product ID: 106053

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.

HBLP-1MLED-B-HDBC I-Beam Mount High Bay Groub B LED Fixture
Lamp Type: LED
Dimensions: 10.7"L x 16"Dia
Weight: 34lbs
Voltage: Universal 100-277V AC, 50/60Hz
Total Watts: 150W
Total Lumens: 10,000
Luminous Efficacy: 66.67 Lm/W
LED Lamp Life Expectancy: 60,000+ Hours
Color Temp: 4000K or 5000K
Color Rendering Index: >70
Beam Angle: 104³
Power Efficiency: >87%
Power Factor: >90%

Ambient Operating Temperature: -40°F to +113°F (-40°C to +45°C)

Operating Temperature Range: -40°F to +149°F (-40°C to +65°C)
Minimum Operating Temperature: -40°F (-40°C)
Maximum Case Temperature: +194°F (+90°C)
Housing Material: Copper Free Aluminum
Lens Material: Tempered Glass

Gasket Material: Rubber

Mounting: I-beam (up to 10") Mounting Bracket

Wiring Hub: 3/4" NPT

Ratings
Listing: United States & Canada
Class I, Divisions 1 & 2, Groups B, C & D
Class II, Divisions 1 & 2, Groups E, F, G
Class III, Divisions 1 & 2
Certified to UL844
Certified to C22.2 No.137-M81
T5 Temperature Rating
C1D1 Hydrogen Group B
IP67

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 HBLP-1MLED-B-HDBC Explosion Proof High Bay pendant mounted light fixture provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older fixtures. A newly designed mount offers a secure method of attaching the fixture to any I-beam up to 10". With Group B certification, this explosion proof LED light fixture is approved for use within hazardous environments that contain or main contain hydrogen.
This Class 1 Division 1 & 2, Class 2 Division 1 & 2 Group B (hydrogen) explosion proof light fixture provides 10,000 lumens of high quality light while drawing only 150 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention. Light weight and a low profile make this unit an attractive alternative to larger and heavier older fixtures and requires less hardware to install.



Click Photo to Enlarge

LED Drivers: Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of an electronic LED driver. This internal driver provides the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the electronic driver allows the EPL-LP-70W-LED-B-HDBC to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights.
LED Benefits: 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.
This light is universal voltage and can be operated on 100-277 VAC, 50/60Hz without any need for a ballast or transformer. The aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LED luminaries. The LED lamp produces 10,000 lumens with a color temperature of 4000K or 6000K and a color rendering index of 70 which produces colors and details much more accurately than high pressure sodium or mercury

vapor luminaries. The HBLP-1MLED-B-HDBC is designed with a mounting bracket that fits onto I-beams up to 10". We also offer surface and pendant mounted versions of this product.

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Units can be securely mounted to any 10" or smaller I-beam using two adjustable handles.

Mounting Options: A custom designed I-beam mounting bracket allows for easy attachment of the fixture to any I-beams (up to 10") commonly found in construction sites and civil engineering projects. The component's ability to resist bending ensures stable lighting performance in rough environments. During installation, the mounting bracket slides over the beam's horizontal flanges. After securing the preferred position on the I-beam, the operator can then tighten the fixture to the beam using the two adjustable handles. It is important to tighten both handles evenly and securely to prevent shaking or uneven positioning. Operators may reposition the light on the beam by loosening the handles, moving the unit to the desired location and tightening the handles.
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.

High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MH.
5. Retains 80% lumen output after 60,000 operating hours.
6. Powder coated aluminum fixture body.
7. Multiple Mounting Options Including Pendant, Wall, Ceiling, Cable Mounting and Swivel Bracket.
8. Low profile - Light weight
9. 10,000 Lumen output from only 150 watts

Superior LED Benefits

1. 60,000 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 LED 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.

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Frequently Asked Questions (FAQ)





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Product ID: 106053

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HBLP-1MLED-B-HDBC-Color Temp-Hub Config

Example: HBLP-1MLED-B-HDBC-6K-0.5IN

Color Temp	
6000K	-6K
4000K	-4K

Hub Config	
1/2 INCH	-0.5IN
3/4 INCH	-0.75IN

Links (Click on the below items to view):

- **IES (Photometric File)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic4**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**