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EPL-UV-20W

Explosion Proof Black Light - 365nm UV cut off lens - Class 1 Division 1 - Class 2 Division 1

Product ID: 1983

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.

EPL-UV-20W

Lamp Type: HID Bulb
Dimensions: 11.5 "-L
Watts: 20
HID Life Expectancy: 2500 hours
Lumens: 1200 Without UV Lens
Lighting Configuration: HID Bulb/365Nm UV Lens
Materials: Aluminum Housing

Weight: 1.9lbs.

LUX: With Clear Lens :182,000

LUX: With UV Lens: 821
Charging Unit: 100/240VAC 50/60Hz w/overcharge protection, LED indicator

Lens Temp: 186 f

Head Temp: 90 f

Battery: 2600mAh Lithium Ion Battery

Run-Time: 90 Minutes

Approvals

Class 1, Division 1, Groups A, B, C, D
Class 1, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups E, F, G
IP68 Waterproof to 3 Meters
T4A Temperature Rating

Hazardous Location Classifications

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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Buy American Compliant

The Larson Electronics EPL-UV-20W Hazardous Location Approved UV flashlight has a Class 1 Division 1 Groups A-D approval and produces a beam in the ultra violet

spectrum capable of reaching 35 feet in length and has a 90 minute run time on a single charge..

This UV HID flashlight features a 365 Nm UV cutoff lens, and a 90 minute run time on a single charge of its waterproof 2600mAh Lithium Ion battery pack. A single 20 watt UV HID bulb powered by an internal ballast is combined with a 365 Nm UV cutoff lens to produce a UV beam capable of reaching 35 feet in length. This UV light produces 1.48 mW/cm squared, as measured 15 inches from the lens. This flashlight is IP68 rated waterproof, making it capable of withstanding submersion under pressure without damage. The durable aluminum body has a black anodized coating to provide durable protection for this units` internal electronics and an aesthetically pleasing appearance.

This HID flashlight includes a hard carrying case, waterproof battery and separate battery charging stand, AC charger (US/International compatible), and rubber lens/end cap protector. A clear lens is also included to allow this unit to be used as a normal flashlight. With the clear lens, this unit has a 1200 lumen output and produces a beam up to 2500 feet in length.



Certification Marks

Click Photo to Enlarge



Dark roadway with no illumination.

Click Photo to Enlarge

EPL-UV-20W with the clear lens.

Click Photo to Enlarge



Click Photo to Enlarge





The Battery can be removed from the flashlight and charged outside the hazardous area

Click Photo to Enlarge

Click Photo to Enlarge

This flashlight is equipped with a UV 365nm cut off lens and is commonly called an explosion proof black light. This UV light produces 821 LUX at the lens and 1.48 mW/cm squared, as measured 15 inches from the lens. The design of this

flashlight is ideal for specific types of inspection work within paint spray booths for the aerospace industry as well as specialized military and law enforcement applications.
This hazardous location approved flashlight is UL:
Class 1, Division 1, Groups A, B, C, D
Class 1, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups E, F, G

A brief note about High Intensity Discharge (HID) flashlights:

Incandescent flashlights have a bulb with a filament, much like the common household light bulb. A consistent amount of current is fed to the bulb. The filament glows and light and heat are produced. The filament glows because it is a poor conductor of electricity. Eventually the filament breaks due to vibration or diminished capacity. HID flashlights have a globe of gas that contains bounded by electrodes. A spark jumps across the electrodes igniting the gas. Initially, the amount of current required to ignite the gas is higher. Once the gas is lit, much less current is required to keep the gas burning.
A device called a ballast controls the amount of current sent to the bulb. HID flashlights use about 50% less energy than incandescent bulbs, which means longer battery life than halogen incandescent bulbs. More importantly, HID lights have no filament to break. Thus, the HID bulb life is around 2500 hours, compared to several hundred hours of the filament based incandescent bulb. The HID bulb is more efficient, so it produces much more light with less energy over a long period of time. The trade off, however, is that the ballast that sends current to the bulb is an expensive addition, increasing the cost of the flashlight. The bulb itself is also significantly more expensive than halogen bulbs.)

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Frequently Asked Questions (FAQ)



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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- Dimensional Drawing 2D
- MSDS (Material Safety Data Sheet
- Operations Manual
- Spectrum Curve (Wavelength Graph)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- Video4
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map