

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

Part #: EPL-UV-20W

**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.

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EPL-UV-20W with the clear lens.

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

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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.)

**Specifications / Additional Information**

**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

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Part #: EPL-UV-20W (1983)













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