

Larson Electronics' Magnalight.com Introduces Explosion Proof Surface Mount Infrared LED Light



Larson Electronics' Magnalight.com has introduced an explosion proof infrared LED light designed to provide illumination in the 1445nm range normally applied in spectroscopic testing and analysis applications. This permanent surface mounted infrared LED light is designed for Class 1 Division 1 locations and produces infrared light without the need for lenses or filters. This cool running and portable infrared LED light is ideal for wet or corrosive environments and can be operated from any source of 9 to 48 volt DC current.

The EPL-SMLED-20W-1445 Explosion Proof Infrared LED Light produces illumination in the 1445 nanometer infrared range and is ideal for analysis processes such as infrared spectroscopy. This 1445nm infrared light is invisible to the naked eye, but ideal for specialized applications where testing and observation of molecular structures and chemical composition is performed. The heavy duty aluminum body is watertight tested to resist corrosion from exposure to salt water and wet environments. A flat base with preformed mounting slots provides secure permanent mounting to flat surfaces and an aluminum alloy yoke allows the light head to be adjusted through 135° of vertical movement. The LED assembly in this unit consists of two 10 watt infrared LEDs specially positioned within the lamp head to provide maximum output with little loss to lens diffusion. The LED assembly is sealed within the housing with a thermal shock and impact resistant glass lens for durable and reliable protection. The LED design of this explosion proof LED light removes the need for special lenses or filters normally used with incandescent or HID infrared lamps.

Additionally, the LEDs in this lamp run much cooler, reducing the occurrence of

accidental burns and difficult handling associated with hot running incandescent portable lamps. As well as cool operation and rugged durability, this infrared LED light offers a 50,000 hour lamp life that typical incandescent lamps cannot match. Designed to operate with voltages ranging from 9 to 48 volts DC, this unit is ideal for hazardous locations and corrosive environments where low voltage current is readily available. The EPL-SMLED-20W-1445 explosion proof infrared LED light is Class 1 Division 1 approved, UL 1598 and UL 844 approved for marine environments.

"The EPL-SMLED-20W-1445 was especially designed with 1445nm LED light for infrared spectroscopy as it relates to identifying the molecular and chemical composition of petroleum samples and deposits," said Rob Bresnahan with Larson Electronics' Magnalight.com. "The UL listed Class 1 Division 1 rating enables operators to use this mid infrared LED light in hazardous areas where these materials are present."

Larson Electronics' www.Magnalight.com [1] carries an extensive line of explosion work lights, hazardous location lights, intrinsically safe lights, LED hand lamps, and explosion proof tank lights. You can view Larson Electronics' entire Magnalight line of explosion proof lighting by visiting their website at Magnalight.com. Magnalight can be reached directly by calling 1-800-369-6671 or 1-214-616-6180 for international inquiries.

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[1] <http://www.Magnalight.com>