

EPL-SBDL-70LED-120-SS

70 Watt Explosion Proof LED Switch Blade Dock Light - 10 Foot Pivoting Stainless Steel Arm

Product ID: 105254

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-SBDL-70LED-120-SS-WHT Explosion Proof LED Dock Light

Lamp Type: LED

Lamp Dimensions: 11.5"-H x 13.25"-W x 12.5"-D

Arm Dimensions: 120" - Adjustable - Two pivot points

Total Watts: 70W

Lumens: 6,020

Voltage: 100-277 VAC, 50/60Hz

Lighting Configuration: Flood Pattern

Color Temp: 6000K, 70-CRI.

Beam Spread: 20° Spot or 40° Flood

Weight: 70lbs

Temp Rating: T5 -40C to +45C

Mounting: Adjustable SS Swing Arm w/ Surface Mount Bracket

Mount Finish: White Paint

Termination: 25` SOOW cord w/ inline EXP transformer & EXP Plug

Lamp Life: 100,000+ Hours

Ratings

T5 Temperature Rating

Class 1 Division 1&2 Groups C and D

Class 2 Division 1&2 Groups E,F,G

Class 3 Division 1&2

Certified to UL844

Certified to UL1598/A

IP66 Rated Waterproof

NEMA 4X

70% Lumen Retention @ 50,000 Hours

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics EPL-SBDL-70LED-120-SS-WHT explosion proof switch blade pivoting 10` stainless steel dock light provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. This LED light fixture and swing arm mounting system are both finished with a white paint. LED technology and the

double pivot point swing arm design makes this lamp an excellent replacement upgrade option for less durable and efficient halogen or HID loading bay and dock lights.

****PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE****

This Class 1 Divisions 1 & 2, Class 2 Division 1 & 2 explosion proof dock light provides 6,020 lumens of high quality light while drawing only 70 watts. The 70 watt LED lamp assembly in this unit produces higher quality illumination with better color rendering and contrasting than typical 400 watt halogen lamps while drawing only 70 watts at 0.59 amps on 120 Volts AC. The copper free aluminum alloy body of the LED light head 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 50,000 hour rated lifespan with 70% lumen retention. The high output LED light head is mounted to an adjustable two-part swing arm constructed of light weight stainless steel. The two piece arm design provides two pivot points, one at the mounting bracket and one in the center of the swing arm. The stainless steel swing arm swings 170° from the mounting bracket point and 340° from the center pivot point, while the light head is vertically adjustable up to 270°, providing full adjustability for this 70 Watt explosion proof LED fixture and allows users to position the light as needed during operations. This switch blade swing arm can be mounted with the light head oriented on the top side or bottom side of the arm, allowing operators to illuminate objects in any location. This swing arm is ideal also for mounting the unit to loading door areas and docks for use as a loading bay or dock light.

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This explosion proof light fixture is comprised of a 70 watt LED light head mounted atop a 10' switchblade style swing arm made of square stainless steel tube with a white paint finish for durability. Included with this unit is 6' of wire to be used to connect this unit in compliance with NEC methods for Class I, Div. I locations. The wire entrance is sealed and a 1/2 inch threaded NPT allows operators to make conduit connections at the base of the lamp head.

The lamp assembly includes a 70 watt LED lamp and aluminum finish reflector in a copper-free cast aluminum housing. The shell, covers and sealed fittings are also made of copper-free aluminum. The lens is constructed of 3/4" thermal shock and impact resistant tempered glass and the housing contains threaded joints lubricated with non-drying lubricant. The LED lamp has no filament and is thus highly resistant to damage from shocks or impacts, greatly reducing the chances of damage should the lamp be dropped or hit, unlike incandescent lamps which may break or shatter. The lamp is rated at 50,000+ hours of life, providing longer service life than typical halogen lamps.

Durability: This unit incorporates a 70 watt LED lamp assembly containing seven CREE XLamp MC-E® ten watt LEDs producing 860 lumens each, and a copper-free cast aluminum housing with a thermoset powder coat finish. The shell, covers and sealed fittings are also made of copper-free aluminum. The lens is constructed of 3/4" thermal shock and impact resistant tempered glass and the housing contains threaded joints lubricated with non-drying lubricant. The LED lamp assembly has no filament and is thus highly resistant to damage from shocks or impacts, greatly reducing the chances of damage should the lamp be dropped or hit, unlike incandescent lamps which may break or shatter. The lamp is rated at 50,000+ hours of life, providing longer service life than typical halogen lamps.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or "duty cycle" accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED's core temperature. This flash rate is

too fast to detect with the human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.

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 dock light is universal voltage capable and can be operated with 100-277 VAC, 50/60Hz. This explosion proof LED light fixture is IP66 rated, dust-proof, and protected against high pressure jets and temporary submersion. The cast 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 LEDs and electronics.

This LED light produces 6,020 lumens with a color temperature of 6000K and a color rendering index of 70 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. We offer this light fixture with a 20° spot beam or a 40° flood beam.

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, MV.
5. Retains 70% lumen output after 50,000 operating hours.
6. White paint finish for durability.
7. Adjustable stainless steel swing arm
8. Low profile - Light weight
9. 6,020 Lumen output from only 70 watts

Superior LED Benefits

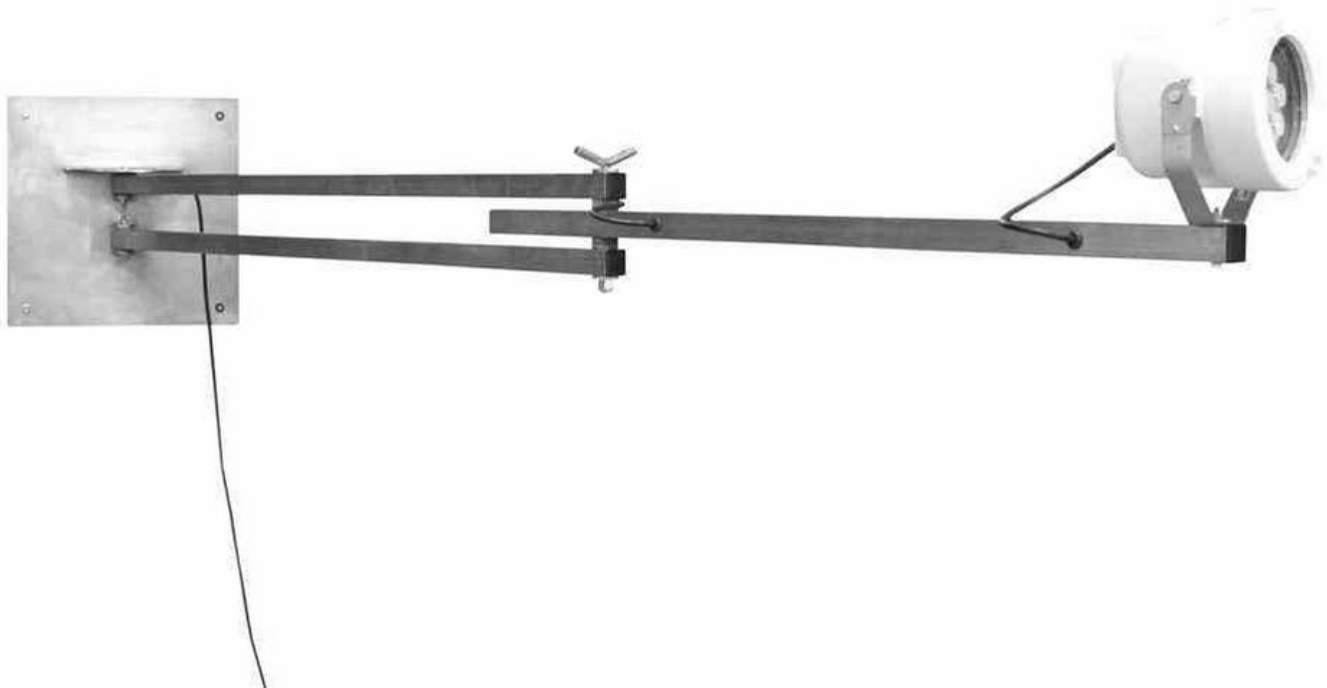
1. 50,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LEED 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.

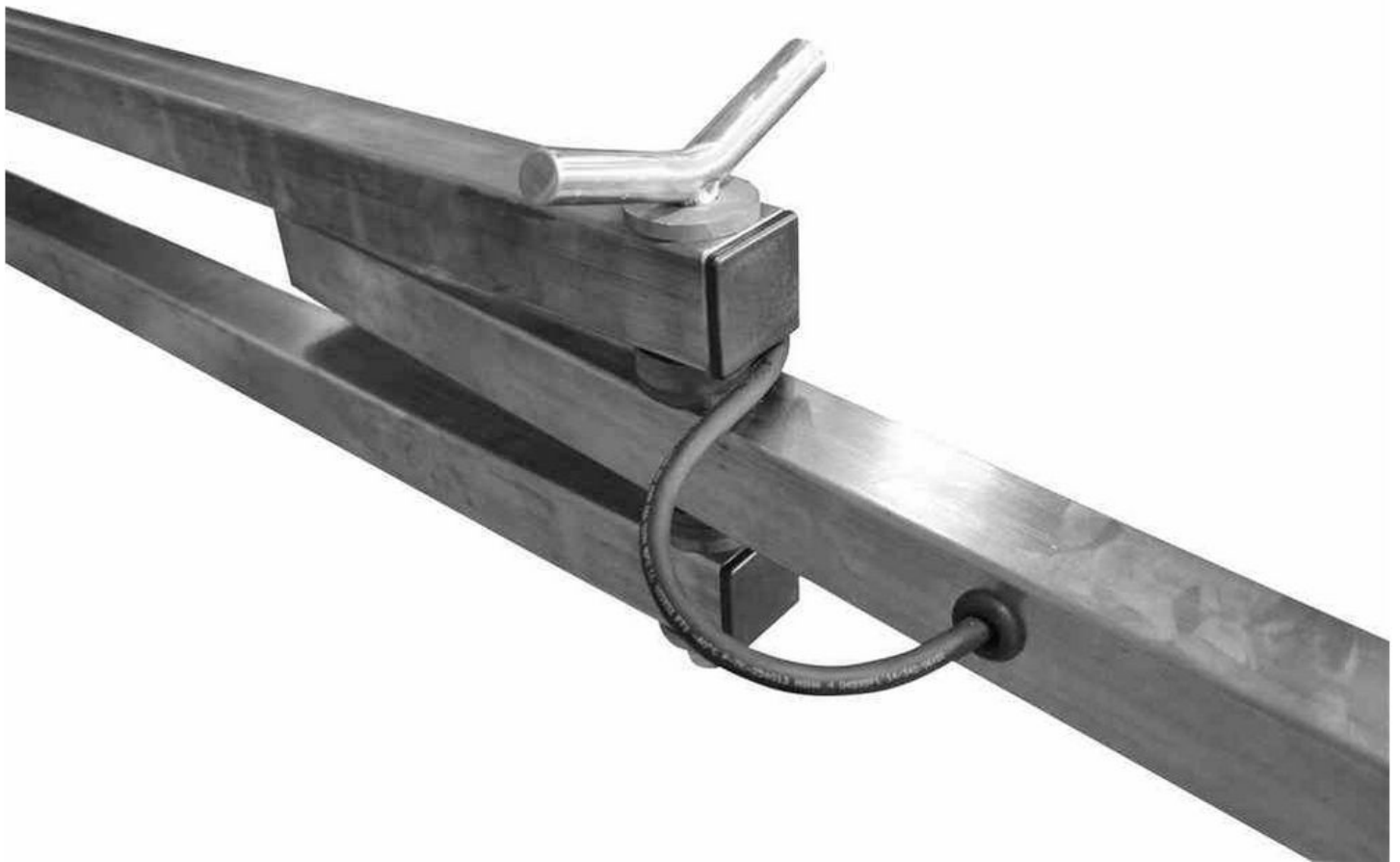
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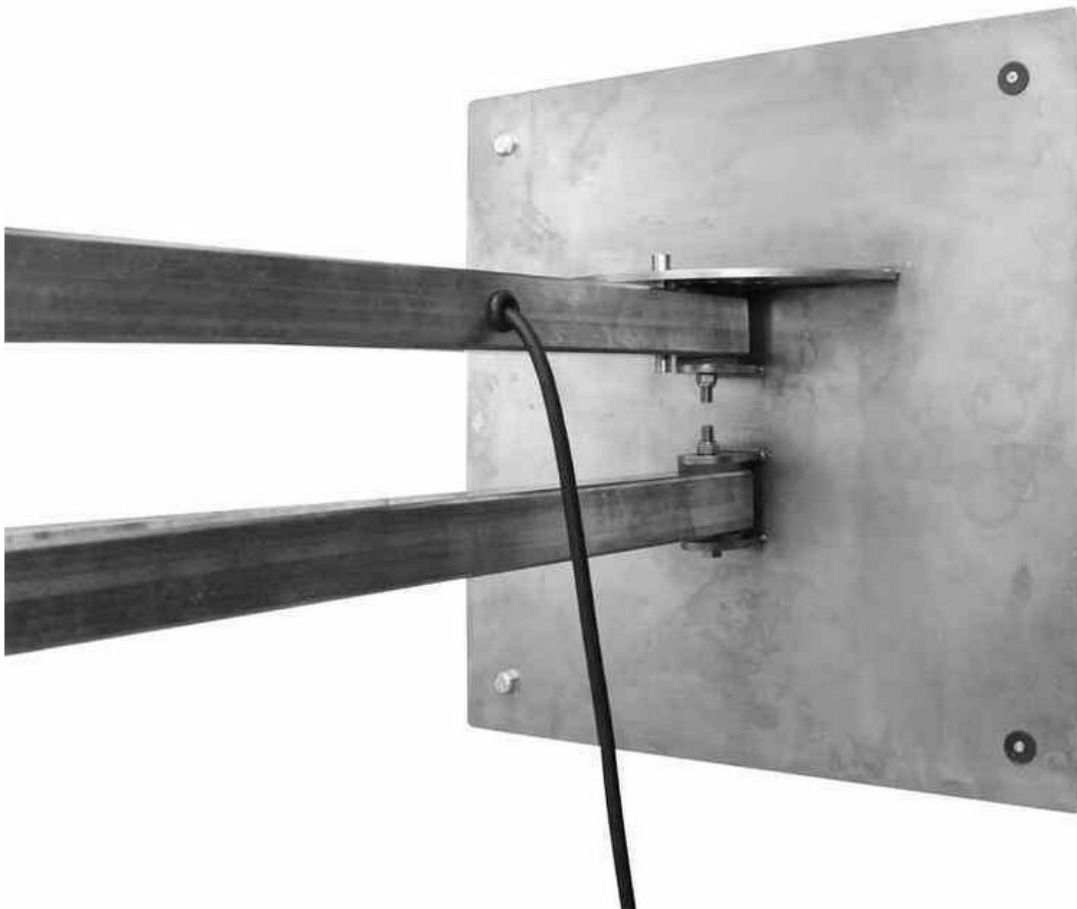


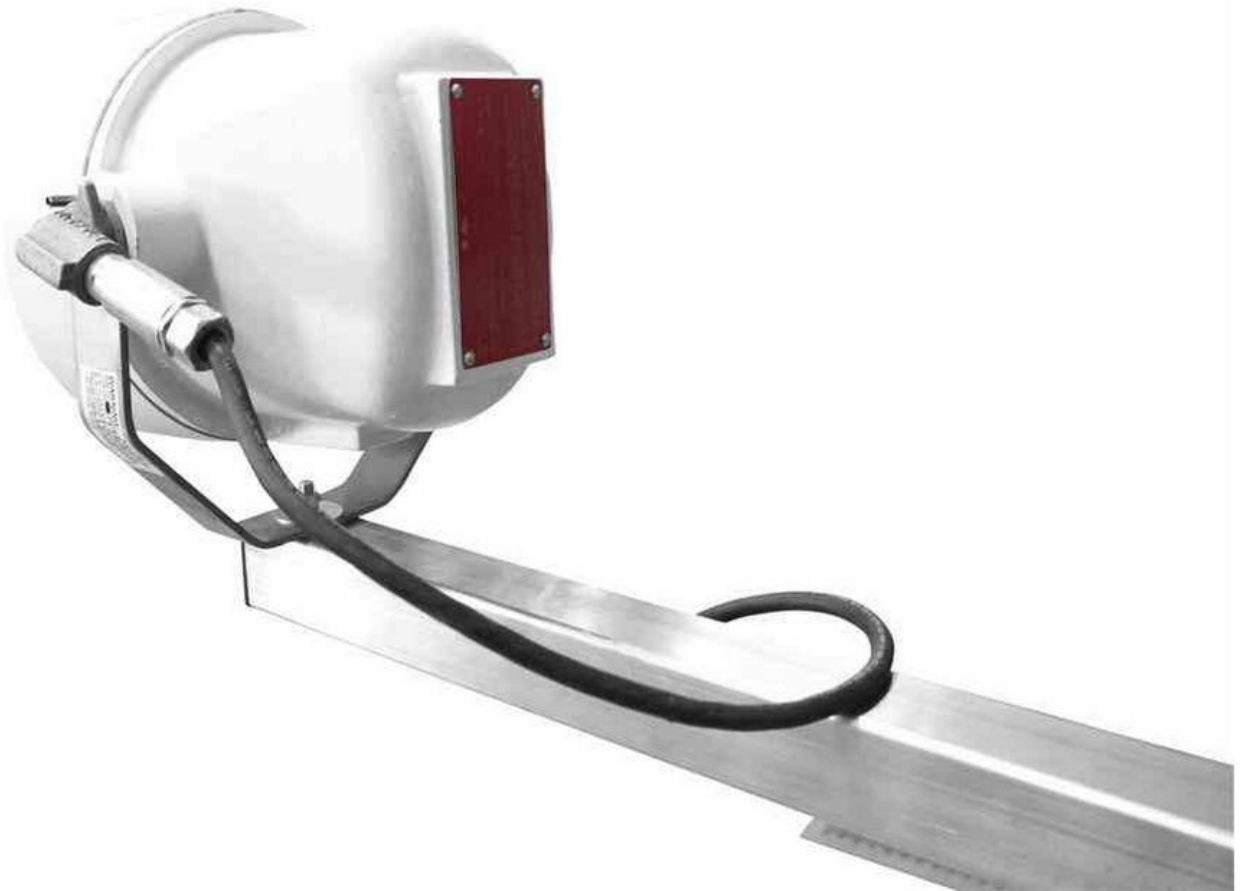
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Frequently Asked Questions (FAQ)









EPL-SBDL-70LED-120-SS

Product ID: 105254

Warranty: 36 Months

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-SBDL-70LED-120-SS-Beam Config

Example: EPL-SBDL-70LED-120-SS-SP

Beam Config	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

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