

## EPL-48-100LED-SFC

**Explosion Proof Low Profile Linear LED Light - C1D1 - 120-277V AC 50/60 Hz - Surface Mount**

**Product ID: 105052**



Image: EPL-48-100LED-SFC

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-48-100LED-SFC Explosion Proof Linear LED Fixture

**UL Listing:** United States - Canada

**Lamp Type:** LED

**Dimensions:** 47.46" x 6.98" x 4.25"

**Weight:** 26 lbs

**Voltage:** Universal 120-277V AC 50/60 hz

**Total Watts:** 68W

**Lumens:** 7,250

**Luminous Efficacy:** 106 lm/w

**LED Lamp Life Expectancy:** 50,000+ Hours

**Color Temp:** 5000K

**Beam Angle:** Circular

**THD:** < 20%

**Power Factor:** > 0.9

**Ambient Operating Temp Range:** -40°C to 65°C

**Materials:** Aluminum w/ Tempered Glass Lens

**Finish:** Sealed Polyester Top Coat, Chemical Resistant Primer

**Mounting:** Surface Mount Bracket

**Wiring Hub:** (1) 3/4" Threaded NPT @ Side, (2) 3/4" Threaded NPT @ Ends

### Ratings

Class I, Division 1 Groups C & D

UL 1598/A

UL 844

CSA 22.2 No. 137

IP66 Rated

NEMA 4X

IEC 61000-3-2

EN 61000-4-5

### Special Orders - Special Requirements

Contact us for special requirements

**Toll Free:** 1-800-369-6671

**Intl:** 1-903-270-1187

**Fax:** 1-903-765-7664

**E-mail:** [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com)

### **Made in the Texas**

The EPL-48-100LED-SFC from Larson Electronics is an Explosion Proof Low Profile Linear LED Light that is a suitable replacement for HID and incandescent fixtures in flammable work sites. This 68-watt, T4A-rated unit emits 7,250 lumens of white light.

The IP66-rated LED lamp is compatible with surface mount configurations, via an aluminum surface mount bracket. This mounting configuration allows the LED light to be positioned in the following angles: 0°, 30°, 45°, 60° or 90°.

The EPL-48-100LED-SFC is comprised of solid state design LEDs, making this explosion proof led fixture highly resistant to shock and vibrations and cooler running than comparable incandescent and HID light fixtures. This 68-watt LED fixture produces 7,250 lumens of white light with a 5,000K color temperature rating and 70 CRI rating. The explosion proof LED lamp is multi-voltage capable and can be operated with 100-277V AC, 50/60Hz without any need for a special ballast. Surge protection includes 4 kV line-to-line and 4kV line-to-ground.

This LED fixture is constructed of aluminum with a dual coat finish for durability in rugged environments. The lens is made out of tempered glass. This Class I, Division 1 explosion proof luminary is IP66 rated and complies with IEC 61000-3-2, FCC Title 47 (Subpart B, Section 15) and EN 61000-4-5.



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)

**LED Benefits:** Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. 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 is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

**Mounting:** The EPL-48-100LED-SFC is compatible with surface mount configurations, which is facilitated by an aluminum surface mount bracket. This mounting configuration allows the LED light to be positioned in the following angles: 0°, 30°, 45°, 60° or 90°. One 3/4" threaded NPT hub located at the side and two 3/4" threaded NPT hubs located at the ends of the explosion proof LED fixture are available for access to the internal components of the unit or for conduit mounting.



**Applications:** Chemical processing, flammable work sites, oil and gas facilities, food processing plants, manufacturing, warehouses and more.

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](mailto:sales@larsonelectronics.com) for more information about our custom options tailored to meet your specific industry needs.

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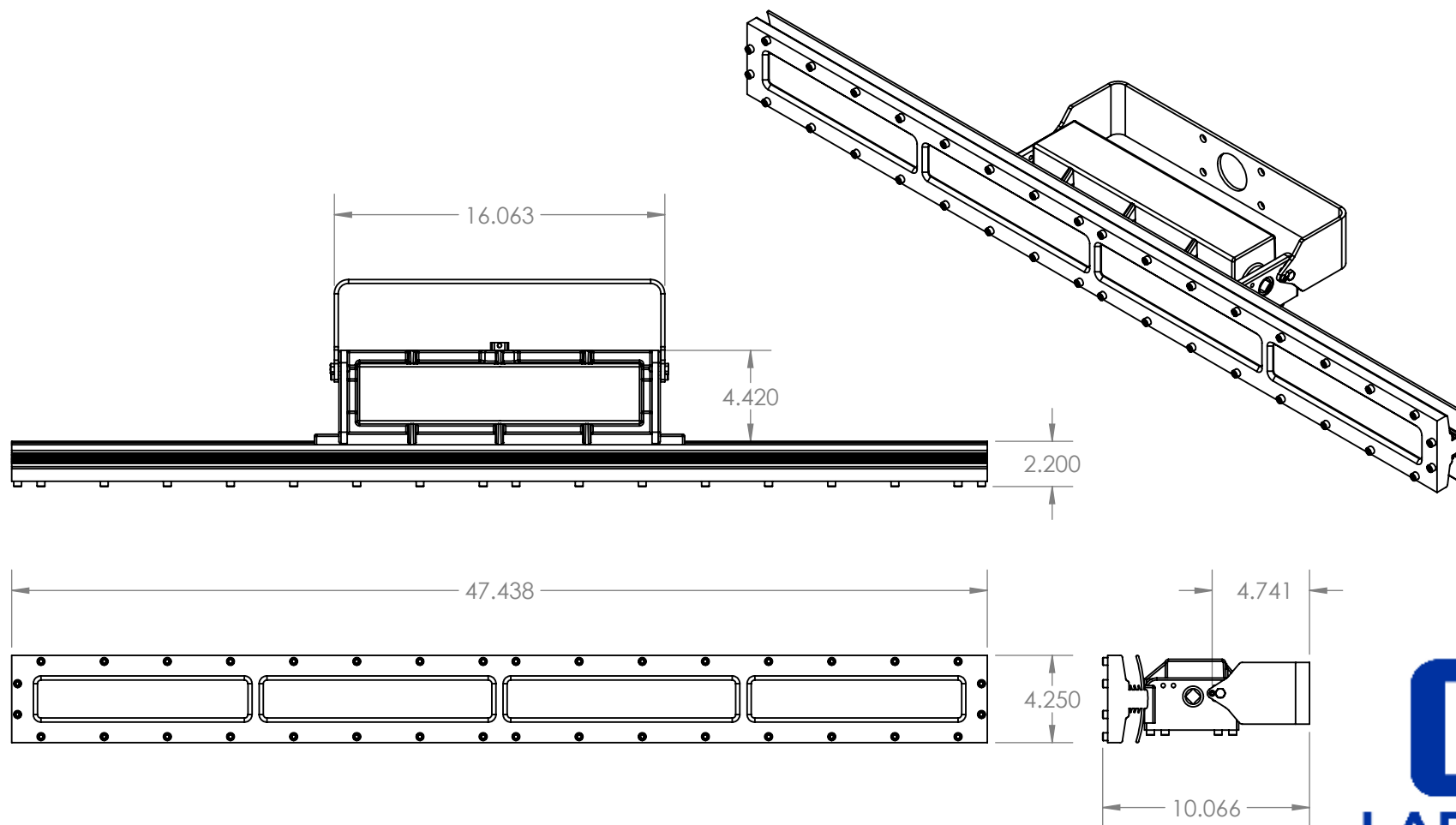
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TITLE:

**EPL-48-100LED-SFC**

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UNLESS OTHERWISE NOTED:

Angle  $\pm .5$  deg  
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.XX  $\pm .01$   
.XXX  $\pm .005$

FINISH

SURFACE AREA [sq. in]

DIMENSIONS ARE IN INCHES

MATERIAL

DO NOT SCALE DRAWING

DRAWN

CHECKED

DATE

NAME

CHRISTOPHER THAUER

N/A

4/17/2019

SIZE  
**A**

DWG. NO.

REV

SCALE: NTS

SHEET 1 OF 3

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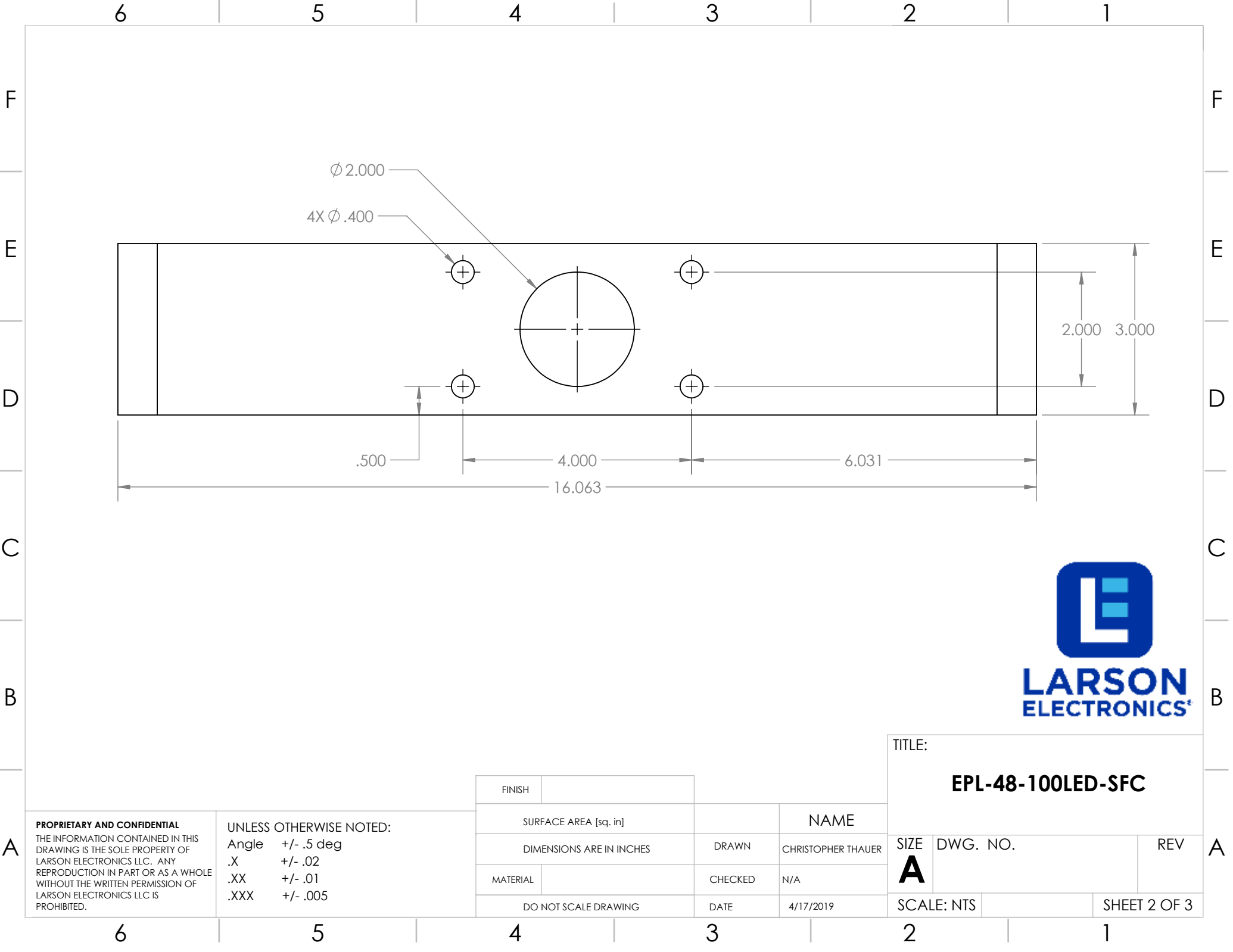
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| EPL-48-100LED-SFC |          |              |     |
| SIZE              | DWG. NO. |              | REV |
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| SCALE: NTS        |          | SHEET 2 OF 3 |     |

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| MATERIAL                 |  | CHECKED | N/A                |
| DO NOT SCALE DRAWING     |  | DATE    | 4/17/2019          |

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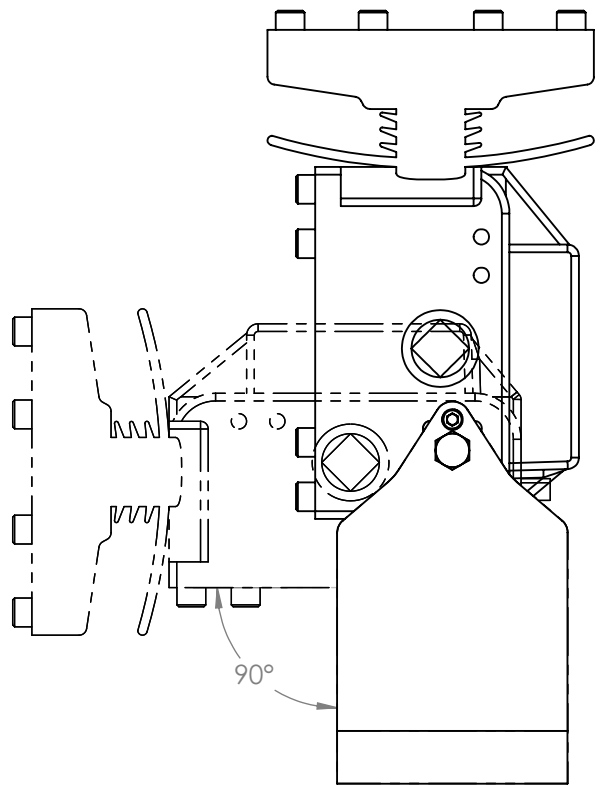
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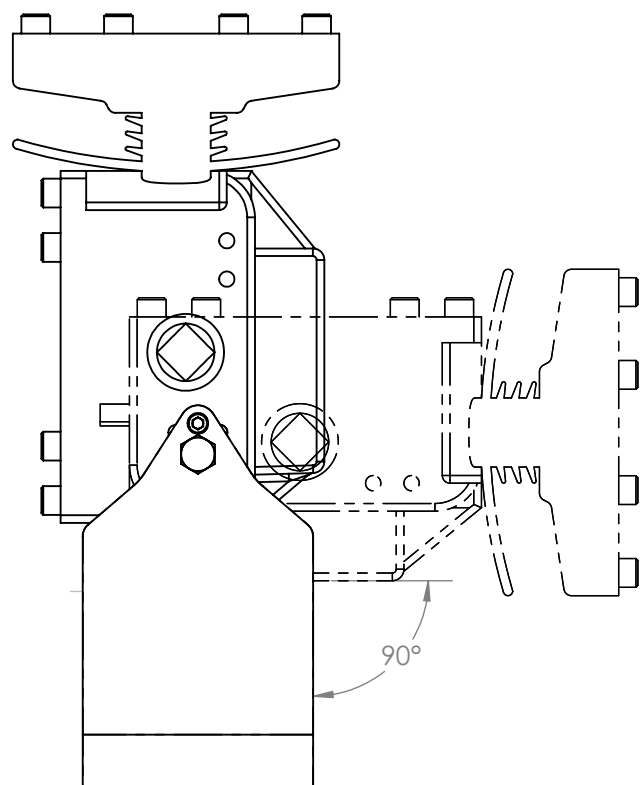
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**ROTATION A**



**ROTATION B**



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Angle +/- .5 deg  
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| SURFACE AREA [sq. in]    |  | NAME                        |
| DIMENSIONS ARE IN INCHES |  | DRAWN<br>CHRISTOPHER THAUER |
| MATERIAL                 |  | CHECKED<br>N/A              |
| DO NOT SCALE DRAWING     |  | DATE<br>4/17/2019           |

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| TITLE:<br><b>EPL-48-100LED-SFC</b> |          |              |
| SIZE<br><b>A</b>                   | DWG. NO. | REV          |
| SCALE: NTS                         |          | SHEET 3 OF 3 |

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## Frequently Asked Questions (FAQ)

There are no Faqs