**Flight Light Inc.**
**2708 47th Ave.**
**Sacramento, California, U.S.A.**
**95822-3806**

**+1.800.806.3548**   www.flightlight.com
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## Compliances

- FAA AC 150/5390-2D Heliport Design Guide
- Exceeds FAA AC 150/5390-2D Appendix G Specifications
- Transport Canada TP14371, AGA 7.16
- IP67 Compliant
- Buy American Act Compliant

## Applications

Our HL-592L surface mount perimeter light helps mark the helipad Final Approach and Takeoff (FATO) area for metal helidecks and pavement heliports. Ideal for portable heliport applications.

## Why Our HL-592L is Better

### Superior Design and Construction

- Low profile, 4.175" [10.6 cm], reduces the chances of being damaged.
- Sturdy aluminum construction, 5 lb. [2.3 kg], stands up to heavy use.
- Standard hard anodized finish extends fixture service life.
- Factory sealed, moisture proof light cavity maximizes LED life.

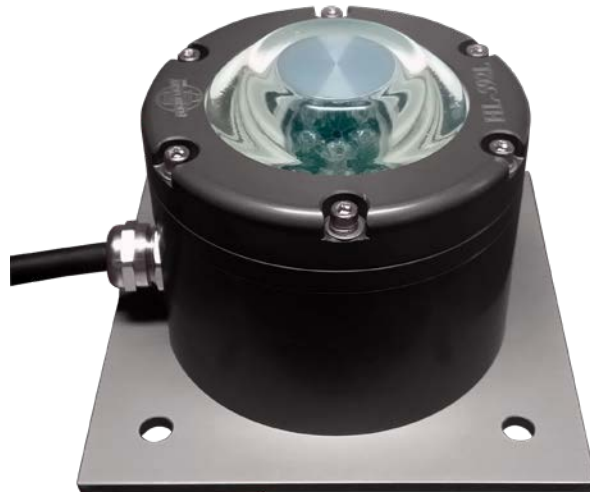### Easy Installation and Maintenance

- Lens and/or LED can be replaced while fixture remains installed - does not require adhesives or sealants.
- Low maintenance LED light source has 50,000 hour lifetime (50X longer than halogen).
- Integrated mounting plate allows simple 4-bolt installation.

### Optical Performance

- Optical performance exceeds FAA AC 150/5390-2D Appendix G specifications.
- 3-Step Dimming Controller to minimize nighttime glare available.
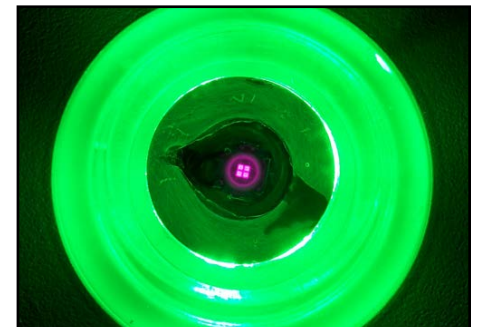- Monochromatic output of LEDs is more conspicuous than halogen.

## Specifications

- Construction: Machined aluminum 6061T6, anodized to MIL 8625 Type III, 1 mil thick.
- Color castings are only available with Type II, Class II (soft) anodized finish (not recommended for corrosive environments).



*Only 4.175" [10.6 cm] in height.*

- Height: 4.175" [10.6 cm]
- Mounting plate: 6" x 6" x .19" [15.2 x 15.2 x .48 cm]
- Weight: 5 lb. [2.3 kg]
- Power consumption: AC input = 7.2VA; DC input = 4W; IR AC input = 10.8VA; IR DC input = 7.2W
- Available in 10-30VDC, 100-240VAC, or 277VAC versions.
- Fixture grounding: internal.
- Includes 48" [122 cm] of UL SO Cable 16AWG.
- Installation requires four 3/8" [9.5 mm] bolts (not provided).
- Temperature range: -4°F/+131°F (-20°C/+55°C).
- Carton size: 0.3 cu. ft. (0.01 cu. meters); 8" x 8" x 8" (20.32 x 20.32 x 20.32cm)



## Visible/Infrared LED Option

- Night Vision Goggle (NVG) compatible.
- Infrared Output:
  - Exceeds SAE Aerospace recommendations for Landing/Taxi Lights.
  - Usable beam width: 55° to 125° vertical, 360° horizontal.
  - Output wavelength: 850nm.
  - Infrared does not dim with the "DCD" dimming option.
- Visible Output:
  - Usable beam width: 30° vertical, 360° horizontal.
  - Output wavelength: 530nm.

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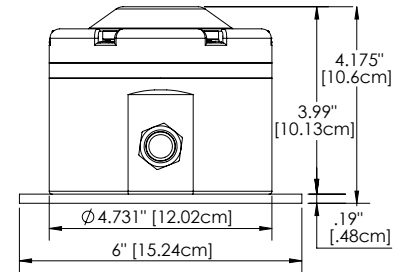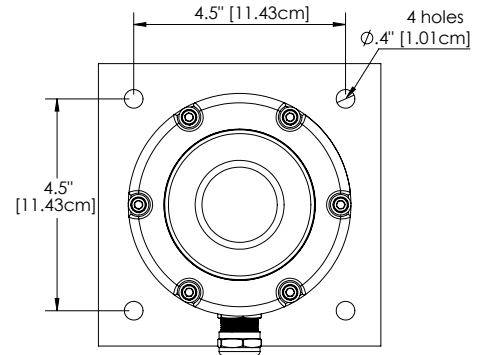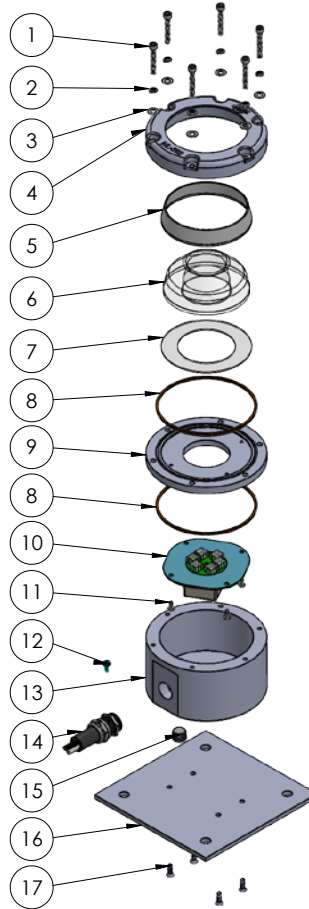**+1.800.806.3548**   www.flightlight.com
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**MADE IN USA**

**HL-592L**
**LED Helideck/Helipad**
**Surface Mount Perimeter Light**

## Common Replacement Parts

1........10-32 304 SS 1-1/4" [32 mm] Long Screw .. NS-92196A705
2........10 304 SS Split Lock Washer...................... NS-92146A550
3........10 304 SS Flat Washer ............................. NS-92141A011
4........HL-592L Top Casting............................... 16-592MA
5........Prism Gasket ........................................... 65-033090
6........Clear Prism Dome ................................... 20-016080
7........Prism Clamp Teflon Gasket ..................... 27-492CG
8........O-Ring...................................................... 27-9396K175
9........HL-592L Prism Clamp ............................. 16-592-PCA
10......LED Driver & Board ................................. HL-XL9KIT-AC*
ALT ..LED Driver & Board DC ......................... HL-XL9KIT-DC*
ALT ..LED Driver & Board IR ........................... HL-XL9KIT-IR*
ALT ..LED Diver & Board Dimming.................. HL-XL9KIT-D*
11......6 18-8 SS 5/16" [7.9 mm] Long Screw ........ NS-92525A313
12......6-32 Ground Screw Green......................... NS-92597A100
13......HL-592L Bottom Casting.......................... 16-592-BOTTOM
14......Power Cord Assembly ............................... 16-592PCA
15......Plug Pipe 1/4" Hex Socket SS.................... HA-PP000001
16......Mounting Plate ........................................ 16-592MP
17......8-32 304 SS 1/2" [13 mm] Long Screw ....... NS-91771A194

* For LED Driver & Board Kits, X = Color

Download a mounting plate template from our [website](website).



## Photometric Comparison with FAA Requirements

| Vertical Angle (Deg) | FAA Spec (Cd) Min. | HL-592L Avg. Intensity (Cd) |
|---|---|---|
| 2 | 15 | 70.8 |
| 5 | 15 | 66.5 |
| 10 | 15 | 48.3 |
| 13 | 15 | 36.6 |
| 20 | 5 | 23.9 |

## Ordering Codes

| Fixture | LED Color | Power | Fixture Custom Color[3] |
|---|---|---|---|
| HL-592L | **G:** Green (std)[1] <br> **B:** Blue <br> **R:** Red <br> **W:** White <br> **Y:** Yellow <br> **IR:** Infrared[2] | **AC:** 100-240VAC <br> **AC3:** 277VAC <br> **DC:** 10-30VDC <br> **DCD:** 10-30VDC Dimming | **G:** Green <br> **B:** Blue <br> **MG:** Military Green <br> **R:** Red <br> **Y:** Yellow (gold) |
| HL-592L | | | |

[1] Green is currently the recommended color for heliport perimeter lights.
[2] Infrared must be used in conjunction with visible LEDs. Infrared does not dim with the "DCD" dimming option.
[3] Dark gray hard anodized is the standard finish. Color castings are only available with Type II, Class II (soft) anodized finish (not recommended for corrosive environments).

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**HL-592L**
**LED Helideck/Helipad**
**Surface Mount Perimeter Light**

## How to Specify the HL-592L LED Helideck Surface Mount Perimeter Light

The fixture shall be model HL-592L-(LED color)-(voltage) as marked by Flight Light Inc.

**Construction:**
- The fixture height shall not exceed 4.175" [10.6 cm].
- The fixture shall be omnidirectional.
- The fixture shall be aluminum, hard anodized (Type III), 1 mil thick.
- Color castings shall have Type II, Class II (soft) anodized finish (not recommended for corrosive environments).
- The fixture shall have a modular design comprised of 3 major parts: Mounting Plate, Bottom Casting and Top Casting. The Bottom and Top Casting are sealed by means of a Prism Clamp and O-ring.
- The Mounting Plate shall be square 6" x 6" [15.2 x 15.2 cm] and .19" [.48 cm] thick.
- Fixture shall be ground mounted.
- The fixture shall include 48" [122 cm] of UL SO Cable 16AWG.

**LED/Light Cavity:**
- LED and lens shall be field replaceable.
- LED lifetime expectancy: 50,000 hours.
- Power consumption shall not exceed 7.2VA for AC lights, 4W for DC lights, 10.8VA for IR AC lights and 7.2W for IR DC lights.
- Infrared output wavelength: 850nm
- Infrared output usable beam width: 55° to 125° vertical, 360° horizontal
- Visible output wavelength: 530nm
- Visible output beam width: 30° vertical, 360° horizontal

**Compliances:**
- IP67 Compliant
- Buy American Act Compliant
- FAA AC 150/5390-2D Heliport Design Guide
- Optical performance exceeds FAA AC 150/5390-2D Appendix G Specifications
- Transport Canada TP14371, AGA 7.16

**Options (to be specified per each project):**
- Infrared (must be used in conjunction with visible LEDs)
- Dimming (only available with the Flight Light controller)
- Fixture custom color (default color is dark grey).