



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



PH (916) 394-2800 **FX (916) 394-2809**
TF (800) 806-3548 **EM info@flightlight.com**

HL-590L
Stainless Steel LED Helideck
Surface Mount Perimeter Light

- Compliances**
- FAA AC 150/5390-2C Heliport Design Guide
 - Exceeds FAA Engineering Brief 87 Specifications
 - Transport Canada TP14371, AGA 7.16
 - Buy American Act Compliant

Applications

Our HL-590L surface mount stainless steel perimeter light helps mark the helipad Final Approach and Takeoff (FATO) area for metal helidecks and pavement heliports. Ideal for offshore applications.

Why Our HL-590L is Better

Superior Design and Construction

- Low profile, 4.175" [10.6 cm], reduces the chances of being damaged.
- Corrosive resistant stainless steel construction stands up to salt, chemicals, and weather.
- Exposed to nitric acid passivation to maximize the essential corrosion resistance.
- Sturdy stainless steel construction, 10 lb. [4.5 kg], stands up to heavy use.
- 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

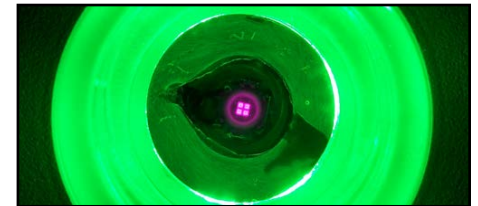
- Optical performance exceeds FAA Engineering Brief 87 specifications.
- 3-Step Dimming Controller to minimize nighttime glare available.
- Monochromatic output of LEDs is more conspicuous than halogen.



Only 4.175" [10.6 cm] in height.

Specifications

- Construction: 304 stainless steel with nitric acid passivation.
- 316 stainless steel hardware.
- Height: 4.175" [10.6 cm]
- Mounting plate: 6" x 6" x .19" [15.2 x 15.2 x .48 cm]
- Weight: 10 lb. [4.5 kg]
- Power consumption: AC input = 7.2VA; DC input = 4W; IR AC input = 10.8VA; IR DC input = 4.5W
- Fixture can be used with 100-240VAC or 10-30VDC.
- 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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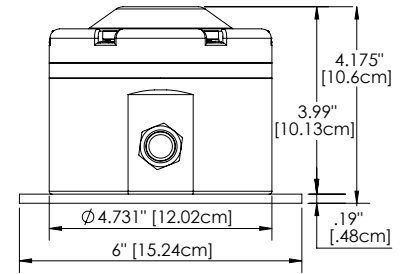
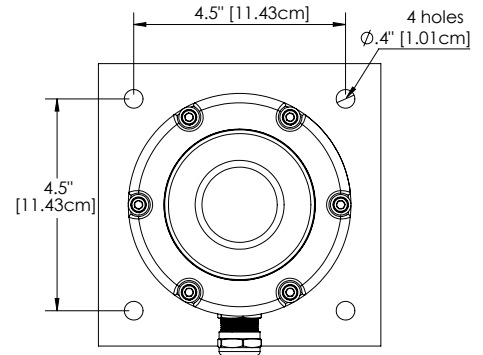
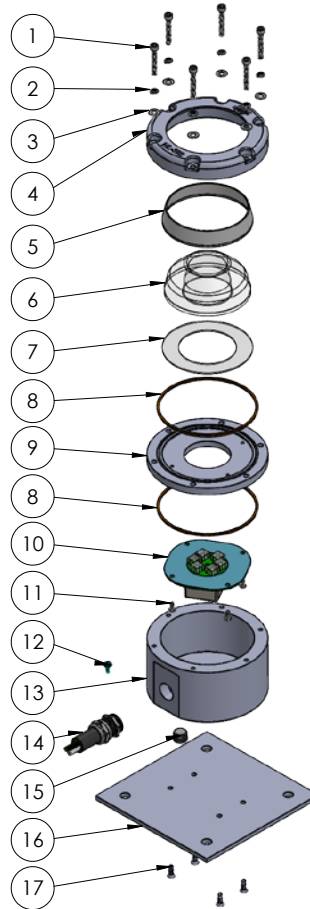
HL-590L

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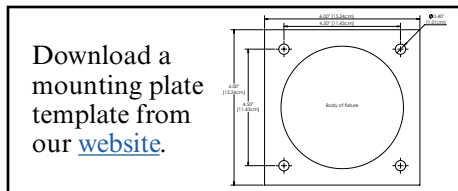
Common Replacement Parts

- 1.....10-32 316 SS 1-1/4" [32 mm] Long Screw ..NS-92185A227
 - 2.....10 316 SS Split Lock Washer..... NS-92147A430
 - 3.....10 316 SS Flat Washer NS-90107A011
 - 4.....HL-590L Top Casting..... 16-590MN
 - 5.....Prism Gasket 80-033090
 - 6.....Clear Prism Dome 80-016080
 - 7.....Prism Clamp Teflon Gasket 27-492CG
 - 8.....O-Ring..... 27-9396K175
 - 9.....HL-590L Prism Clamp 16-590-PC
 - 10.....FAA LED Driver & Board HL-XL9KIT-AC*
 - ALT ..FAA LED Driver & Board DC..... HL-XL9KIT-DC*
 - ALT ..FAA 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-590L Bottom Casting..... 16-590-BOTTOM
 - 14.....Power Cord Assembly..... 16-590PCA
 - 15.....Plug Pipe 1/4" Hex Socket SS..... HA-PP000001
 - 16.....Mounting Plate..... 16-590MP
 - 17.....8-32 316 SS 1/2" [13 mm] Long Screw NS-91500A194
- * For LED Driver & Board Kits, X = Color



**Photometric Comparison with
 FAA Requirements**

Vertical Angle (Deg)	FAA Spec (Cd) Min.	HL-590L 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	Voltage
HL-590L	G: Green (std) ¹ B: Blue R: Red W: White Y: Yellow IR: Infrared ²	AC: 100-240VAC DC: 10-30VDC DCD: 10-30VDC Dimming
HL-590L		

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.

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How to Specify the HL-590L LED Helideck Surface Mount Perimeter Light

The fixture shall be model HL-590L-(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 304 stainless steel with nitric acid passivation.
- Hardware shall be 316 stainless steel.
- 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 4.5W 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:

- Buy American Act Compliant
- FAA AC 150/5390-2C Heliport Design Guide
- Optical performance exceeds FAA Engineering Brief 87 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)

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