HL-580L Stainless Steel Water Resistant LED Helideck/Helipad Surface Mount Perimeter Light

Compliance and Applications
• FAA AC 150/5390-2D Heliport Design Guide
• Exceeds FAA AC 150/5390-2D Appendix G Specifications
• Transport Canada TP14371, AGA 7.16
• IP68 Compliant (tested to a depth of 1 meter for 1 hour)
• Buy American Act Compliant

Our completely sealed, water resistant HL-580L surface mount stainless steel perimeter light helps mark the helipad Final Approach and Takeoff (FATO) area for metal helidecks and pavement heliports. Ideal for portable heliport applications and flood-prone areas.

Why Our HL-580L is Better:
Superior Design and Construction
• IP68 compliant, water resistant fixture can be submerged in water for several days and still function properly.
• Impenetrable, factory epoxy potted LED driver and LED board cavity maximizes LED life.
• Waterproof gel wire connectors eliminate the need for crimping tools.
• Corrosive resistant stainless steel construction stands up to salt, chemicals, and weather.
• Exposed to nitric acid passivation to maximize the essential corrosion resistance.
• Low profile, 5" [12.7 cm], reduces the risk of damage to the fixture.
• Sturdy stainless steel construction, 10 lb. [4.5 kg], stands up to heavy use.

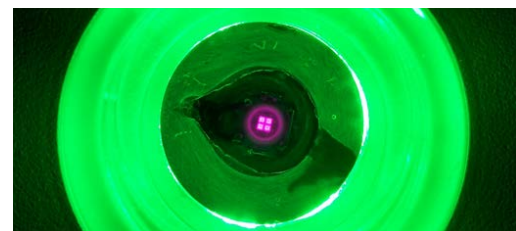### Easy Installation and Maintenance
• Easy installation, light fixture body serves as junction box for electrical connections.
• Preconfigured, only add the desired cable length.
• Only two main replacement parts.
• Low maintenance LED light source has 50,000 hour lifetime (50X longer than halogen).
• 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: 304 stainless steel with nitric acid passivation.
• 316 stainless steel hardware.
• Height: 5" [12.7 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 = 7.2W
• Available in 10-30VDC, 100-240VAC, or 277VAC versions.
• Fixture grounding: internal.
• Requires water resistant UL Cable, OD = 0.24" - 0.47" (6-12mm). Recommended AWG (varies by application): 16-3/C SOOW 600V 90C.
• 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)
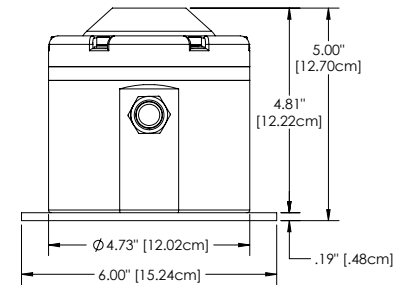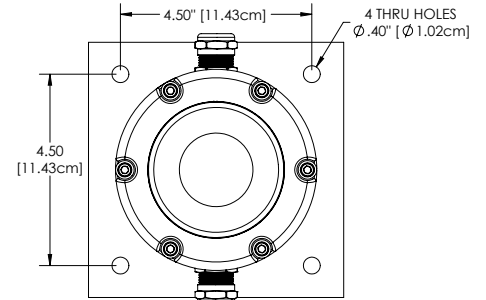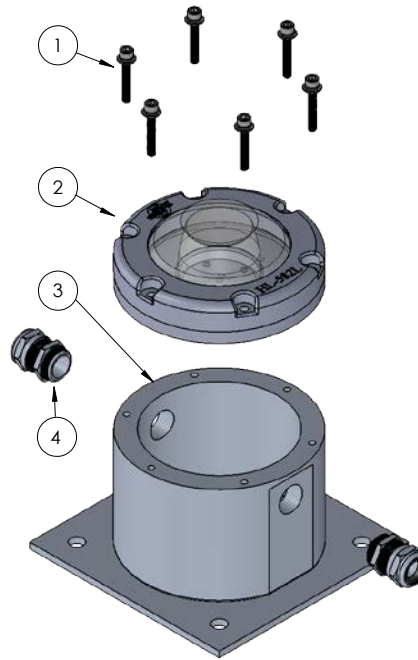

Visible/Infrared LED Option
• Night Vision Goggle (NVG) compatible.
• Infrared Output:
  - Exceeds SAE Aerospace recommendations for Landing/Taxi Lights.
  - Usable beam width: 55° to 125° vertical, 360° horizontal.
  - Output wavelength: 850nm.
  - Infrared does not dim with the "DCD" dimming option.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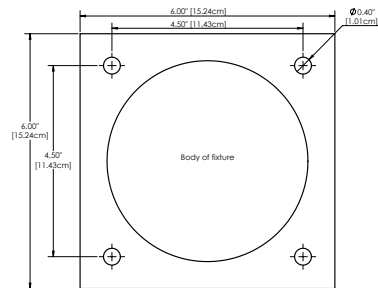 - Output wavelength: 530nm.

+1.800.806.3548 USA
+1.916.394.2800 Worldwide

www.flightlight.com
sales@flightlight.com

Flight Light Inc., 2708 47th Ave.
Sacramento, CA, 95822, USA

Common Replacement Parts

1...... Screw Kit.................HL-580SCREWKIT
2...... Upper Assembly.......HL-580TOPKIT
3...... Lower Assembly.......HL-580BOTTOMKIT
4...... Cord Grip 27-CD20DA-BR
NA... Gel Connector Kit....HL-580GCK

4.50" [11.43cm]

4 THRU HOLES
Ø .40" [Ø 1.02cm]

4.50
[11.43cm]

5.00"
[12.70cm]

4.81"
[12.22cm]

Ø 4.73" [12.02cm]

.19" [.48cm]

6.00" [15.24cm]

Photometric Comparison with FAA Requirements

Vertical Angle (Deg)	FAA Spec (Cd) Min.	HL-580L Avg. Intensity (Cd)
2	15	70.8
5	15	66.5
10	15	48.3
13	15	36.6
20	5	23.9

6.00" [15.24cm]
4.50" [11.43cm]
Ø 0.40" [1.01cm]
6.00" [15.24cm]
6.00" [15.24cm]
4.50" [11.43cm]

Body of fixture

Download a mounting plate template from our website.

Ordering Codes

Fixture	LED Color	Power	Cable Layout
HL-580L	**G:** Green (std)[1] **B:** Blue **R:** Red **W:** White **Y:** Yellow **IR:** Infrared[2]	**AC:** 100-240VAC **AC3:** 277VAC **DC:** 10-30VDC **DCD:** 10-30VDC Dimming	**G1C:** 1 Gland with Cable[3] **G2C:** 2 Glands with Cable[4] **G2NC:** 2 Glands with No Cable[5]

[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] G1C Layout will have a plug covering the second M20 hole.
[4] G2C Layout will not support dimming option. Specify cable size so we can quote correct secondary connector.
[5] G2NC Layout: Customer must supply water resistant cable. Cable connections are made inside the fixture.

How to Specify the HL-580L LED Helideck/Helipad Surface Mount Perimeter Light

The fixture shall be model HL-580L-(LED color)-(voltage) as marked by Flight Light Inc.

Construction:
- The fixture height shall not exceed 5" [12.7 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 Mounting Plate shall be square 6" x 6" [15.2 x 15.2 cm] and .19" [.48 cm] thick.
- Fixture shall be ground mounted.

LED/Light Cavity:
- 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:
- IP68 Compliant (tested to a depth of 1 meter for 1 hour)
- 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)

+1.800.806.3548 USA
+1.916.394.2800 Worldwide

www.flightlight.com
sales@flightlight.com

Flight Light Inc., 2708 47th Ave.
Sacramento, CA, 95822, USA

Product specifications may be subject to change without prior notice. Verify current specifications when ordering. © Flight Light Inc. | 4/12/2024