



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 sales@flightlight.com

HL-392 **LED or Halogen** **8" Helipad Semi-Flush** **Perimeter Inset Light**

- Compliances**
- FAA AC 150/5390-2C Heliport Design Guide
 - Exceeds FAA Engineering Brief 87 Specifications
 - ICAO Annex 14, Volume II for TLOF
 - UL 1598 Standard (only "LPUL" lamp is UL listed)
 - Transport Canada TP14371, AGA 7.16
 - IP67 Compliant
 - Buy American Act Compliant

Applications

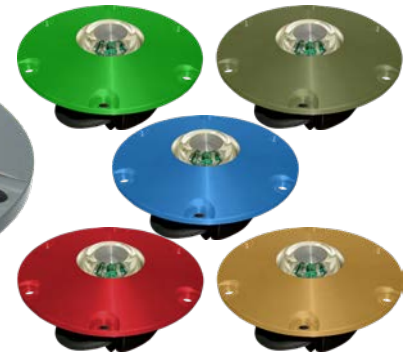
Semi-flush perimeter light helps mark helipad touchdown and lift-off area (TLOF) and/or final approach and take-off area (FATO) for pavement heliports.

Why Our HL-392 is Better

- Recessed, semi-flush mounted, allows for obstruction-free movement of equipment and personnel.
- Lightweight and robust aluminum alloy construction.
- Hard anodized for increased wear and corrosion resistance.
- Pressure test plug ensures moisture-proof light cavity.
- Prism removal and replacement achieved without need for adhesives or sealants.
- Pre-focused optics simplify maintenance.
- Available in 10-30VDC, 120-240VAC or 277VAC versions.
- Direct retrofit, drop in replacement. Factory retrofits available for your existing halogen fixtures.
- Independent intensity testing has provided results which exceed FAA Engineering Brief 87 specifications.
- Available for non-heliport applications such as architectural lighting.

Specifications

- Anodization: Aluminum fixtures, machined stock 6061T6. Hard Anodized MIL 8625 Type III, 1 mil thick; Class 1 for clear, Class 2 for color.
- Hardware shall be 304 stainless steel.
- Low profile: .81" [2.06 cm] (base can mounted), 1.06" [2.69 cm] (helideck mounted).
- Diameter: 8" [20.32 cm]
- Bolt circle: 7.25" [18.42 cm]

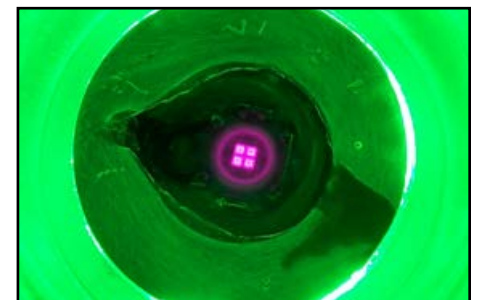


Custom color matching is available to meet your design specifications.

- Light channel within .2" (.5 cm) of grade.
- Color beam variations achieved by dichroic coating.
- Fixture grounding: internal.
- Includes 48" [122 cm] of UL SO Cable 16AWG (UL Version).
- Weight: 4.65 lb. (2.1 kg). Carton size: .23 cu. ft. (.007 cu. meters); 9" (d) x 9" (w) x 5" (h) (22.86 cm (w) x 22.86 cm (d) x 12.7 cm (h))
- Temperature range: -4°F/+131°F (-20°C/+55°C).

LED Version

- Cost-saving, energy-efficient LEDs.
- Power Consumption: AC input = 7.2VA; DC input = 4W; IR AC input = 10.8VA; IR DC input = 7.2W
- Power adapter included.
- Low maintenance - LED light source has 50,000 hour lifetime (50X longer than halogen).
- Monochromatic output of LEDs is more conspicuous than halogen.
- Pilots prefer LED over halogen because of increased visibility.
- With our Dimming Controller option, the lights can be dimmed at night to reduce glare - 3 brightness levels.



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 "LVD" dimming option.
- Visible Output:
 - Exceeds ICAO TLOF requirements for green LEDs (see photometric chart).
 - Usable beam width: 30° vertical, 360° horizontal.
 - Output wavelength: 530nm.

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HL-392 LED or Halogen 8" Helipad Semi-Flush Perimeter Inset Light

Common Replacement Parts (Halogen & LED)

- 1..... Body Casting (Std) – Anodized
- 2..... Deep Bottom Cover Casting.....80-040206
- 4..... Bottom Cover Gasket.....27-4061T271
- 6..... Prism Clamp36-392-PLT
- 15..... Prism Clamp Gasket80-021309
- 16..... Prism Gasket65-033090
- 18..... White (Clear) Prism Dome20-016080
- 25..... Pressure Test Plug.....80-021256
- ALT ... Schrader Tank Valve80-021327
- 27..... 2-Pin Male ConnectorTRC-10518-117D002
- 28..... 3-Pin Male Connector (DC Dimming only)..80-013031
- 29..... 2-Conductor Female Connector.....TRC-10519-07-021
- 30..... 3-Conductor Female Connector (DC Dimming only)..80-012022

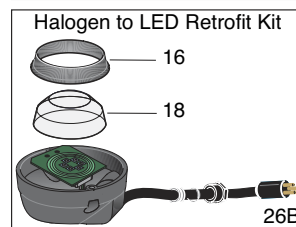
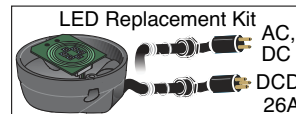
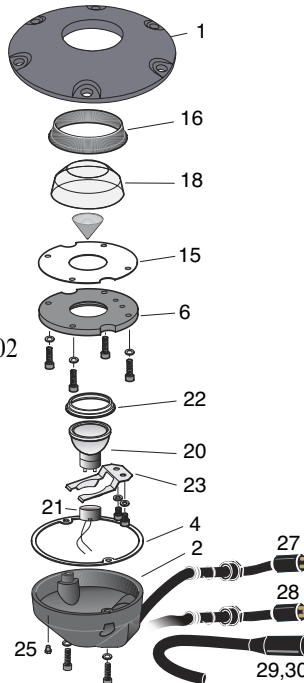
Halogen ONLY Parts:

- 18..... Green Prism Dome.....80-019193
- ALT ... Yellow Prism Dome.....80-019191
- ALT ... Red Prism Dome80-019182
- ALT ... Blue Prism Dome80-019190
- 20..... 50W 120V Reflector LampLA-008084
- 21..... 120V/240V Lamp Holder80-015057
- 22..... Lamp Gasket.....80-033077
- 23..... Lamp Retaining Spring80-032039

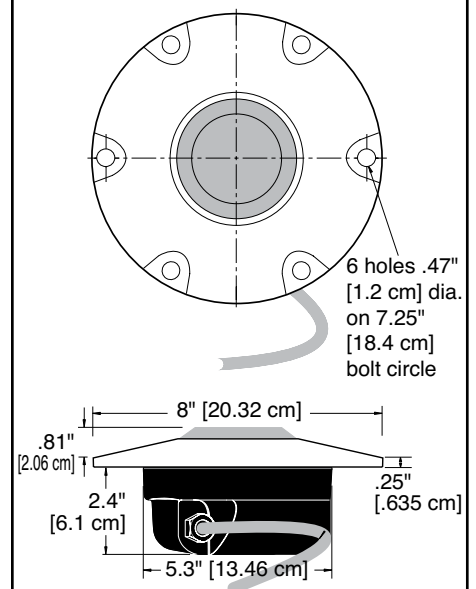
LED ONLY Parts:

- 26A AC LED Replacement KitHL-XL8KITB-AC*
- ALT ... Dimming LED Replacement Kit....HL-XL8KITB-D*
- ALT ... DC LED Replacement KitHL-XL8KITB-DC*
- ALT ... UL LED Replacement KitHL-XL8KITB-UL*
- 26B Halogen to LED Retrofit KitHL-XLPKITB-392*

* For LED Replacement Kit, X = Color



HL-392 PERIMETER LIGHT GENERAL ARRANGEMENT (UL Listed)



Photometric Comparison with ICAO Requirements for TLOF

| Vertical Angle (Deg) | Avg. Intensity (Cd) | ICAO Spec (Cd) |
|----------------------|---------------------|----------------|
| 2 | 70.8 | 15 |
| 5 | 66.5 | 30 |
| 10 | 48.3 | 15 |
| 13 | 36.6 | 8 |
| 20 | 23.9 | 3 |

Ordering Codes

| Fixture | Output | Power/Compliance | Custom Color ⁵ |
|---------------|--|--|---|
| HL-392 | G: Green (std) ¹ B: Blue R: Red W: White Y: Yellow IR: Infrared ² | 50: 50W, 120V ³ 52: 50W, 240V ³ LP: 120-240VAC LED ^{3,4} LP3: 277VAC LED ^{3,4} LPUL: 120-240VAC LED ^{4,6} LV: 10-30VDC LED ^{3,4} LVD: Dimming 10-30VDC LED ^{3,4} | G: Green B: Blue MG: Military Green R: Red Y: Yellow (hard gold) |

¹ Green is currently the recommended output color for heliport perimeter lights.

² Infrared must be used in conjunction with visible LEDs. Infrared does not dim with the "LVD" dimming option.

³ Lamp option is not UL listed.

⁴ Color LED with white (clear) prism. Power adapter included.

⁵ Gray anodized is the standard finish.

⁶ Only "LPUL" lamp option can be UL listed. Connector not included. UL labeled fixtures only available for shipment to U.S. and Canada.

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HL-392
LED or Halogen
8" Helipad Semi-Flush
Perimeter Inset Light

How to Specify the HL-392 Helipad Semi-Flush Perimeter Light

The fixture shall be model HL-392-(LED color)-(lamp type and voltage) as marked by Flight Light Inc.

Construction:

- The fixture shall be 8" [20.32 cm] diameter, 7.25" [18.42 cm] bolt circle.
- Casting thickness shall not exceed .25" [.64 cm].
- The fixture shall be omnidirectional.
- The fixture shall be aluminum, anodized (Type III).
- The fixture shall have a modular design comprised of 2 major parts: Bottom Casting and Top Casting. The Bottom and Top Casting are sealed by means of a Prism Clamp and O-ring.
- Hardware shall be 304 stainless steel.
- Fixture shall ground internally.
- The fixture shall include 48" [122 cm] of UL SO Cable 16AWG (UL Version).

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:

- IP67 Compliant
- Buy American Act Compliant
- FAA AC 150/5390-2C Heliport Design Guide
- ICAO Annex 14, Volume II for TLOF
- 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)
- UL Listed fixture
- Fixture Custom Color (default color is grey)

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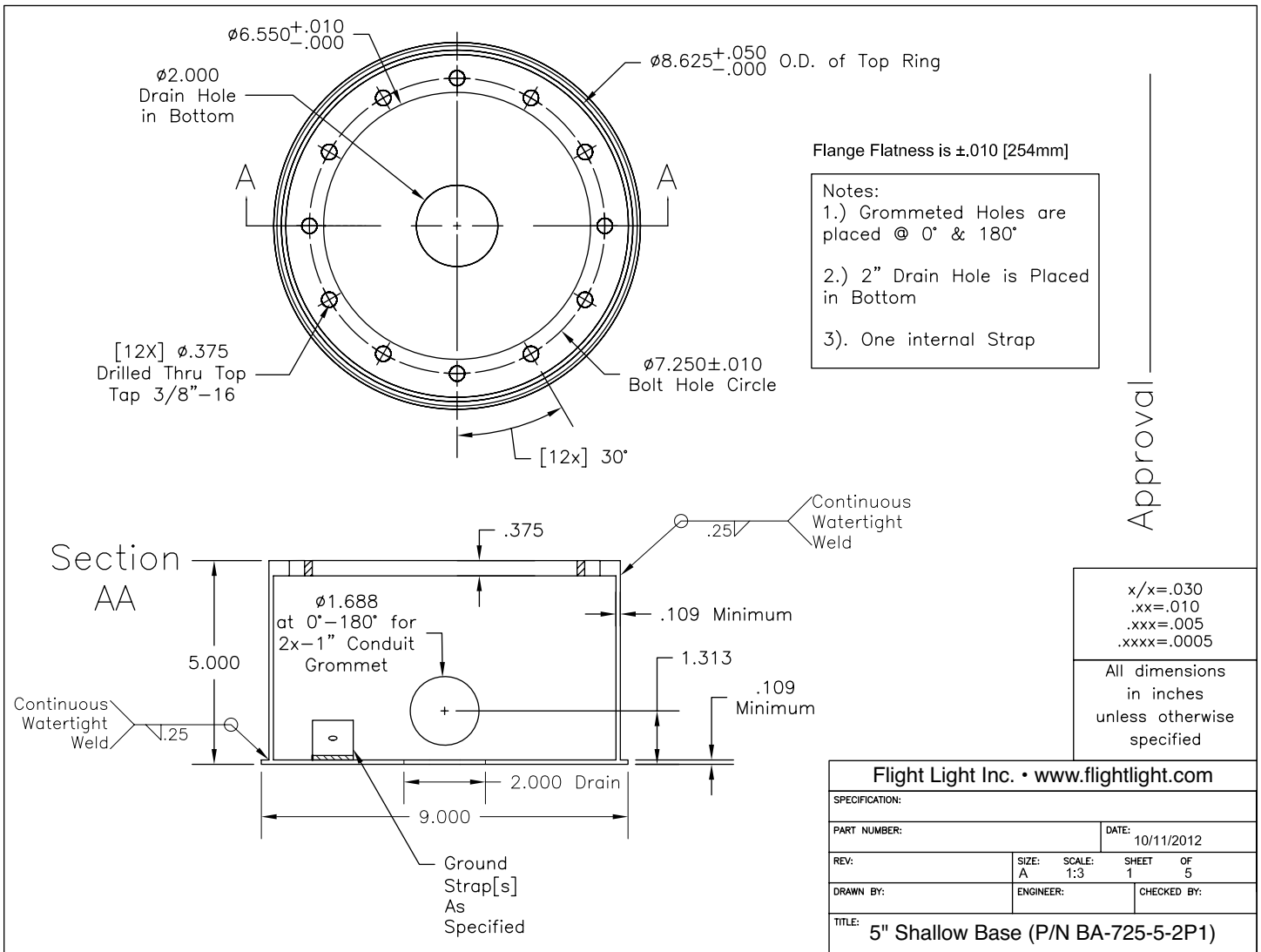
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HL-392
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8" Helipad Semi-Flush
Perimeter Inset Light

5" Shallow Base (P/N BA-725-5-2P1)

• L-868A FAA Approved



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