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

Compliances
- FAA AC 150/5390-2D Heliport Design Guide
- Exceeds FAA AC 150/5390-2D Appendix G Specifications
- ICAO Annex 14, Volume II for TLOF
- UL 1598 Standard (only "ACUL" 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 takeoff area (FATO) for metal helidecks and pavement heliports.

Why Our HL-492L is Better

- Recessed, semi-flush mounted, allows for obstruction-free movement of equipment and personnel.
- Small 6" [15.24 cm] fixture easily drops into metal helideck, fastens with 4 bolts.
- Corrosion resistant hard anodized finish suitable for marine environments and available in many different colors.
- Fixture sealed to bottom cover to prevent moisture intrusion.
- Lightweight and robust aluminum alloy construction.
- Prism removal and replacement achieved without need for adhesives or sealants.
- Pre-focused optics simplify maintenance.
- Cost-saving, energy-efficient LEDs.
- 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.
- Direct retrofit, drop in replacement. Factory retrofits available for your existing halogen fixtures.
- With our Dimming Controller option, the lights can be dimmed at night to reduce glare - select from three brightness levels.
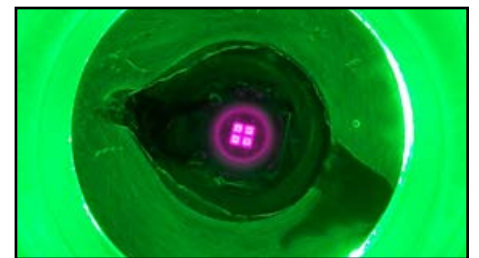- Available in 10-30VDC, 120-240VAC or 277VAC versions.

Hard Anodized for Corrosion Resistance: Custom colors are available to match your design 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.
- Low profile: .86" [2.18 cm] (base can mounted), 1.11" [2.82 cm] (helideck mounted).
- Diameter: 6" [15.24 cm]
- Bolt circle: 5.25" [13.34 cm]
- Power consumption: AC input = 7.2VA; DC input = 4W; IR AC input = 10.8VA; IR DC input = 7.2W
- Light channel within .2" (.51 cm) of grade.
- Fixture grounding: internal.
- Includes 48" [122 cm] of UL SO Cable 16AWG (UL Version).
- Weight: 3.1 lb. (1.4 kg). Carton size: .3 cu. ft. (.008 cu. meters); 8" (d) x 8" (w) x 8" (h) (20.3 cm (w) x 20.3 cm (d) x 20.3 cm (h))
- Temperature range: -4°F/+131°F (-20°C/+55°C).

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

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Common Replacement Parts

1	HL-492L Top Casting	16-492MA
2	Prism Gasket	65-033090
3	Clear Prism Dome	20-016080
4	Prism Clamp Teflon Gasket	27-492CG
5	O-ring	27-9396K175
6	HL-492L Prism Clamp	16-492-PLTMA
7	8-32 0.75" Long Screws	NS-S0832X063PFMSP
8	AC LED Replacement Kit	HL-XL9KITB-AC*
ALT	DC LED Replacement Kit	HL-XL9KITB-DC*
ALT	UL LED Replacement Kit	HL-XL9KITB-UL*
ALT	Dimming LED Replacement Kit	HL-XL9KITB-D*
9	No. 6 Screws	NS-S0632X025PPMSP
10	HL-492L Bottom Casting	16-492-BOTTOM2 5/8ma
11	6-32 0.5" Long Screw	NS-S0632X050PFMSP
12	Pipe Fitting	HA-PP000001
13	UL Cable Assembly	20-CABLE-ASSY-UL
14	2-Pin Male Connector	TRC-10518-117D002**
15	3-Pin Male Connector (DC Dimming only)	80-013031**
16	2-Conductor Female Connector	TRC-10519-07-021**
17	3-Conductor Female Connector (DC Dimming only)	80-012022**

*   For LED Replacement Kits, X = Color
** Not UL listed.

Base Can

A 6" [15.24 cm] deep base can is required for pavement installations. Part #: BA-525-6

Ordering Codes

Fixture	LED Color	Power/Compliance		Fixture Custom Color[5]	
HL-492L	**G:** Green (std)[1]	**AC:**	120-240VAC[4]	**BK:**	Black
	B: Blue	**AC3:**	277VAC[4]	**B:**	Blue
	R: Red	**ACUL:**	120-240VAC[3]	**G:**	Green
	W: White	**DC:**	10-30VDC[4]	**R:**	Red
	Y: Yellow	**DCD:**	10-30VDC Dimming[4]	**Y:**	Yellow (hard gold)
	IR: Infrared[2]				
HL-492L					

[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] Only "ACUL" lamp option can be UL listed. Connector not included. UL labeled fixtures only available for shipment to U.S. and Canada.
[4] Lamp option is not UL listed.
[5] Dark gray hard anodized is the standard finish.

HL-492L PERIMETER LIGHT GENERAL ARRANGEMENT (UL Listed)

4 holes .47" [1.2 cm] dia. on 5.25" [13.34 cm] bolt circle

.86" [2.18 cm]   6" [15.24 cm]   .25" [.635 cm]

3.125" [7.94 cm]

4.75" [12.07 cm]

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

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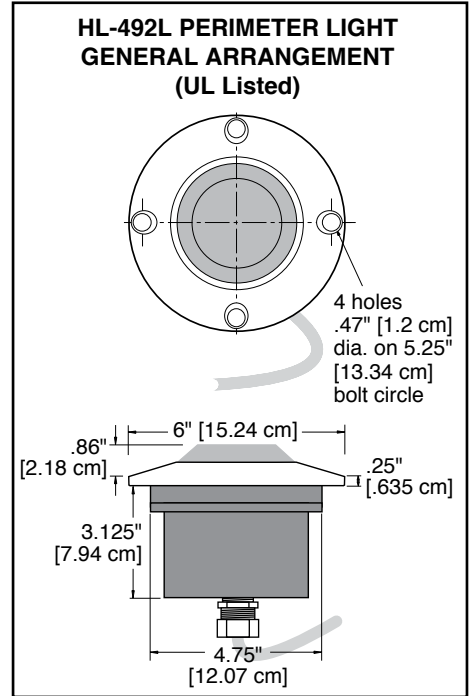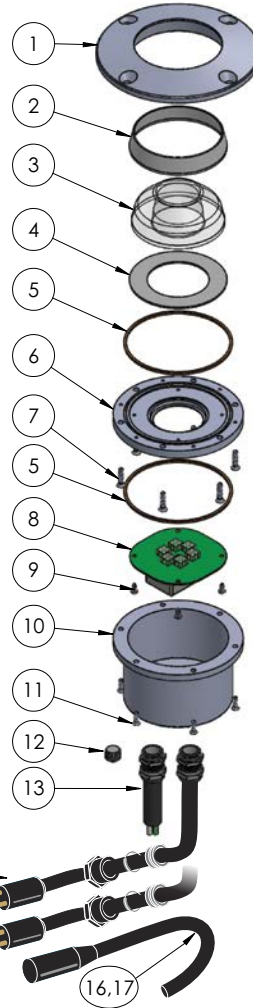**Sacramento, California, U.S.A.**
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HL-492L
6" Helideck/Helipad Semi-Flush
Perimeter Inset Light

How to Specify the HL-492L LED Helideck Semi-Flush Perimeter Light

The fixture shall be model HL-492L-(LED color)-(voltage) as marked by Flight Light Inc.

Construction:
- The fixture shall be 6" [15.24 cm] diameter, 5.25" [13.34 cm] bolt circle.
- The fixture shall be omnidirectional.
- The fixture shall be aluminum, hard anodized (Type III), 1 mil thick; Class 1 for clear, Class 2 for color.
- 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 150/5390-2D Heliport Design Guide
- ICAO Annex 14, Volume II for TLOF
- 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)
- UL Listed fixture
- Fixture custom color (default color is dark gray).
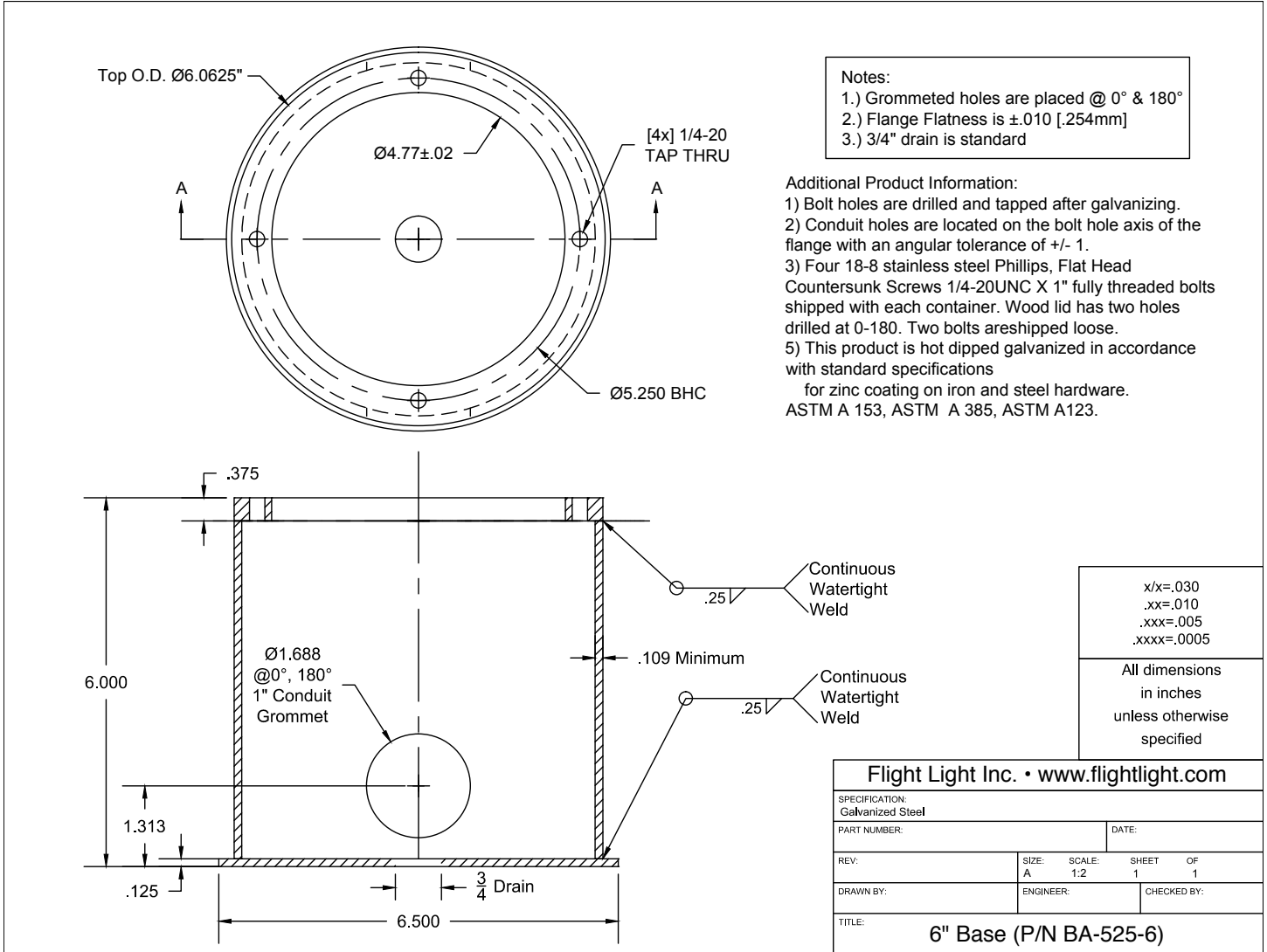- 6" [15.24 cm] Deep Base Can for ground installation.

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HL-492L
6" Helideck/Helipad Semi-Flush
Perimeter Inset Light

Top O.D. Ø6.0625"

Ø4.77±.02

[4x] 1/4-20
TAP THRU

A   A

Ø5.250 BHC

Notes:
1.) Grommeted holes are placed @ 0° & 180°
2.) Flange Flatness is ±.010 [.254mm]
3.) 3/4" drain is standard

Additional Product Information:
1) Bolt holes are drilled and tapped after galvanizing.
2) Conduit holes are located on the bolt hole axis of the flange with an angular tolerance of +/- 1.
3) Four 18-8 stainless steel Phillips, Flat Head Countersunk Screws 1/4-20UNC X 1" fully threaded bolts shipped with each container. Wood lid has two holes drilled at 0-180. Two bolts areshipped loose.
5) This product is hot dipped galvanized in accordance with standard specifications
   for zinc coating on iron and steel hardware.
ASTM A 153, ASTM A 385, ASTM A123.

.375

Continuous
Watertight
Weld
.25

.109 Minimum

6.000

Ø1.688
@0°, 180°
1" Conduit
Grommet

Continuous
Watertight
Weld
.25

1.313

.125

3/4 Drain

6.500

x/x=.030
.xx=.010
.xxx=.005
.xxxx=.0005

All dimensions
in inches
unless otherwise
specified

Flight Light Inc. • www.flightlight.com

SPECIFICATION:
Galvanized Steel

PART NUMBER: DATE:

REV: SIZE: SCALE: SHEET   OF
                        A   1:2   1   1

DRAWN BY: ENGINEER: CHECKED BY:

TITLE:
6" Base (P/N BA-525-6)

Visit our web site: www.flightlight.com

Data Sheet: HL-492L
11/21/2023