



Flight Light Inc.
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HL-490L Stainless Steel 6" Helideck/Helipad Semi-Flush Perimeter Inset Light

- 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 stainless steel 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-490L is Better

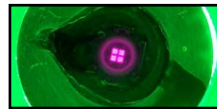
- Stainless steel construction better resists salt, chemicals, and weather exposure.
- Nitric acid passivated to maximize the essential corrosion resistance.
- Small 6" [15.24 cm] fixture easily drops into metal helideck, fastens with 4 bolts.
- Recessed, semi-flush mounted, allows for obstruction-free movement of equipment and personnel.
- Fixture sealed to bottom cover to prevent moisture intrusion.
- 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.
- Available in 10-30VDC, 120-240VAC or 277VAC versions.
- With our Dimming Controller option, the lights can be dimmed at night to reduce glare - select from three brightness levels.
- Available for non-heliport applications such as architectural lighting.

Specifications

- Construction: 304 stainless steel passivated with nitric acid.
- 316 stainless steel hardware.
- 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: 7.5 lb. (3.4 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-490L Top Casting..... 16-490MN
- 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-490L Prism Clamp..... 16-490PLTMN
- 7..... 8-32 316SS 0.75" Long Screws..... NS-91500A197
- 8..... AC LED Driver Board..... HL-GL9KIT-AC
- ALT ... AC LED Replacement Kit HL-XL490KITB-AC*
- ALT ... DC LED Replacement Kit HL-XL490KITB-DC*
- ALT ... UL LED Replacement Kit HL-XL490KITB-UL*
- ALT ... Dimming LED Replacement Kit..... HL-XL490KITB-D*
- 9..... No. 6 304SS Screws NS-S0632X025PPMSP
- 10..... HL-490L Bottom Casting 16-490-BOTTOM2 5/8M
- 11..... 6-32 316SS 0.5" Long Screw NS-91500A148
- 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**

* LED Replacement Kits include: LED Driver Board, Bottom Casting, Cable; X = Color
 ** Not UL listed.

Base Can

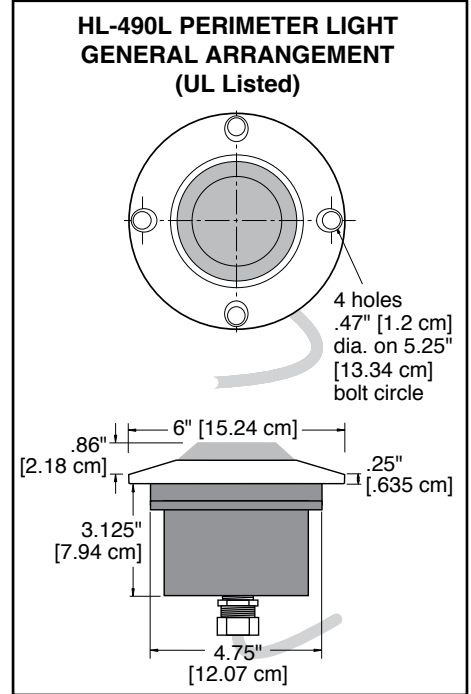
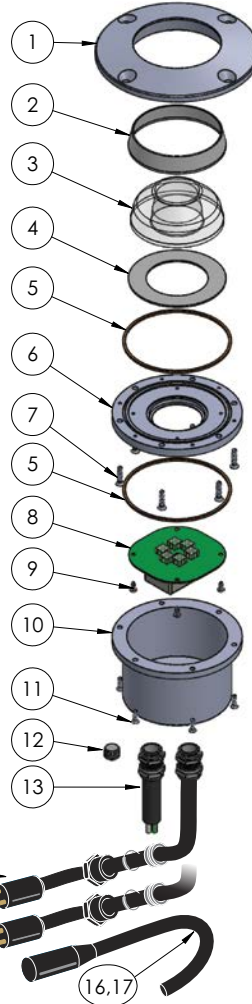
A 6" [15.24 cm] deep base can is required for pavement installations. Part #: BA-525-6



Ordering Codes

Fixture	LED Color	Power/Compliance
HL-490L	G: Green (std) ¹	AC: 120-240VAC ⁴
	B: Blue	AC3: 277VAC ⁴
	R: Red	ACUL: 120-240VAC ³
	W: White	DC: 10-30VDC ⁴
	Y: Yellow	DCD: 10-30VDC Dimming ⁴
	IR: Infrared ²	
HL-490L		

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.



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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How to Specify the HL-490L LED Helideck Semi-Flush Perimeter Light

The fixture shall be model HL-490L-(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 304 stainless steel with nitric acid passivation.
- 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 316 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
- 6" [15.24 cm] Deep Base Can for ground installation.

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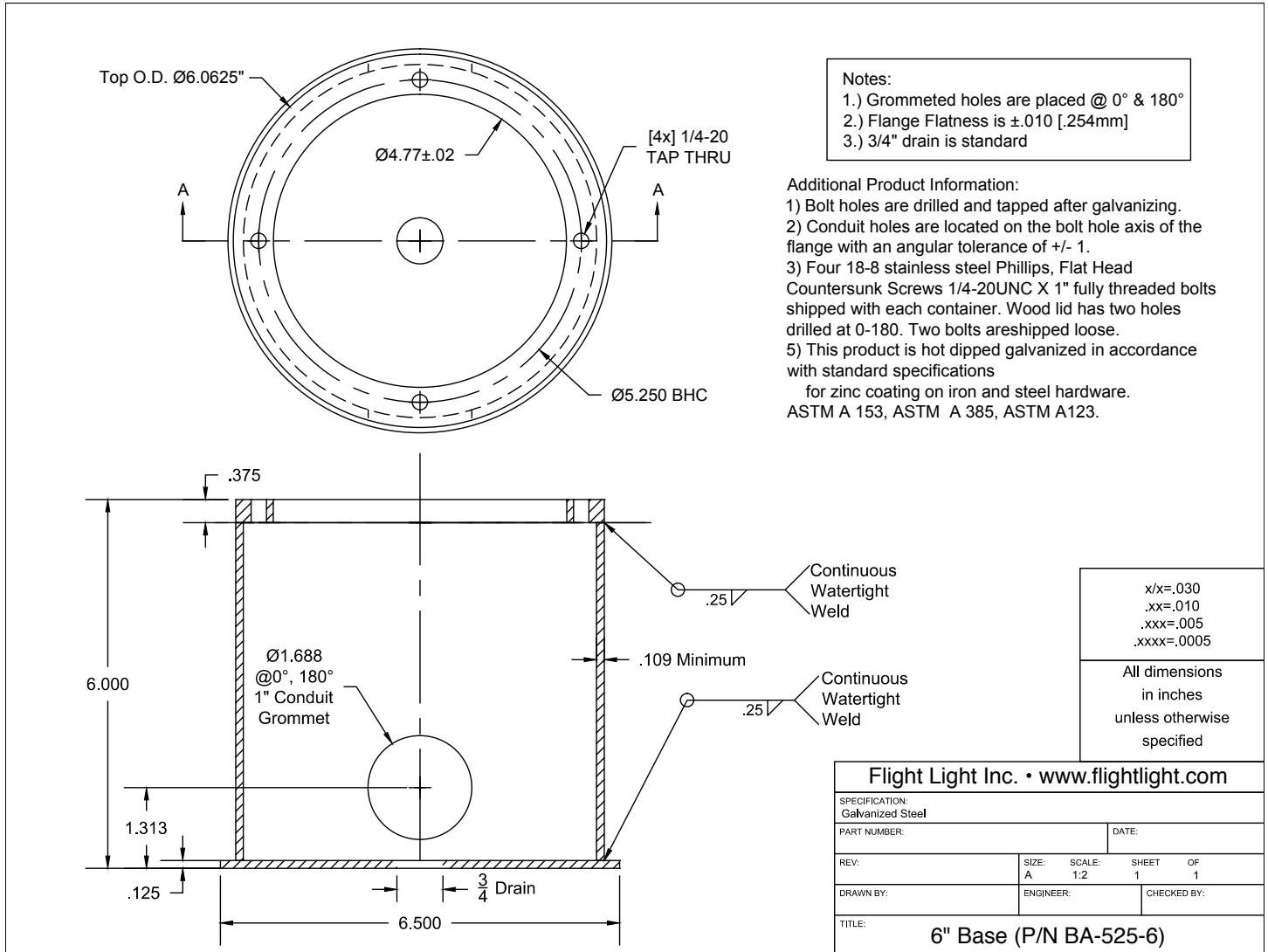


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