



POINT STATUS LIGHTS

PSL LED

HELICOPTER HOIST STATUS LIGHT

SAFE AREA & CLASS I, DIVISION 2 (ZONE 2)

- Compliances:
- ETL Listed to UL 1598 at $\pm 55^{\circ} \text{C}$
 - ETL Listed to CSA C22.2 No.250.0-04 Canada
 - ETL Listed to UL 1598A Marine Vessels at $\pm 55^{\circ} \text{C}$, IP66 & IP67
 - UK CAA CAP 437, ed. 8 (2018) Chapter 10 & Appendix J
 - Class I, Division 2, Groups A B C D, T5 at $\pm 55^{\circ} \text{C}$ (option -EX)
 - Class I, Zone 2, Groups IIA IIB+H2 IIC, T5 at $\pm 55^{\circ} \text{C}$ (option -EX)
 - Registered ISO 9001:2015
 - American Bureau of Shipping (ABS) Type Approved Product

According to CAP 437 latest edition, the helihoist status light is located on the nacelle of the wind turbine within the pilot's field of view, which is capable of being operated remotely from the platform itself or from within the nacelle using the ROS options. A steady green light is displayed to indicate to the pilot that the turbine blades and nacelle are secure and it is safe to operate. A flashing green light is displayed to indicate that the turbine is in a state of preparation to accept hoist operations or, when displayed during hoist operations, that parameters are moving out of limits. When the light is extinguished this indicates to the operator that it is not safe to conduct helicopter hoist operations.

System	Color	Voltage	Helihoist	Options
PSL-35002	G: Green	1: 120 volts $\pm 20\%$ 2: 220 volts $\pm 20\%$ 4: 24 volts DC	1B-C057	EX: Class I, Div 2 (lights only)* EX2: Class I, Div 2 (system)* SS: Stainless Steel 316L Box WM: Control Unit Wire Markers ROS: Remote Override Station ROSEX: Remote Override Station*

All external hardware is grade 316 (A4) stainless steel.
Metal castings are copper-free (< 0.4%) heat treated aluminum.

* Class I, Zone 2, T5 $\pm 55^{\circ} \text{C}$



PSL-35002-G-x-1B-C057
Includes Control Unit



PSL CONTROL UNIT
PL10610-xxxxxxx





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SPECIFICATION

The LED green helicopter hoist status light system shall comply with UK CAA CAP 437 including IP66 & IP67. All exterior aluminum cast beacon parts shall be corrosion resistant and meet the US Military Standard Salt Fog Test conducted per MIL-STD-810F, Method 509.4, Procedure I, paragraph 4.5.2. The fixture shall be treated for marine conditions by cleaning per US Department of Defense TT-C-490 method III, pretreated with chrome-free aluminum conversion coating per US MIL-C-5541 type II, epoxy powder base coat primer and glossy polyester powder coat finish in color RAL 6003 (FED-STD-595 color #14097) dark green. Powder coating per US Department of Defense MIL-PRF-24712A type VI and oven cured. There shall be no exterior plastic parts; all shall be cast aluminum, glass and stainless steel. The light shall have an IP67 rated vent to prevent condensation by pressure equalization.

The system shall include alarm monitoring of the light fixture. Any alarm condition shall disable the light output, activate a red pilot light located on the door of the control unit and activate the remote alarm contact. The system shall include a photoelectric controller for automatic operation between day and night intensity modes. The system may be enabled either manually or via two (2) remote input signals. Remote input signals shall allow activation of the three (3) modes of operation: OFF, Green Flashing, Green Steady.

Helihoist Light:	Intensity:	Flash Rate:
Day mode	> 410 candelas	120 fpm
Night mode	< 60 candelas	

Main Status Light	watts	VA	Voltage
Peak Power:	70.1	116.8	120V AC
	68.5		220V AC
	58.4		24V DC
Average Power:	35.1	58.4	120V AC
	34.3		220V AC
	29.2		24V DC

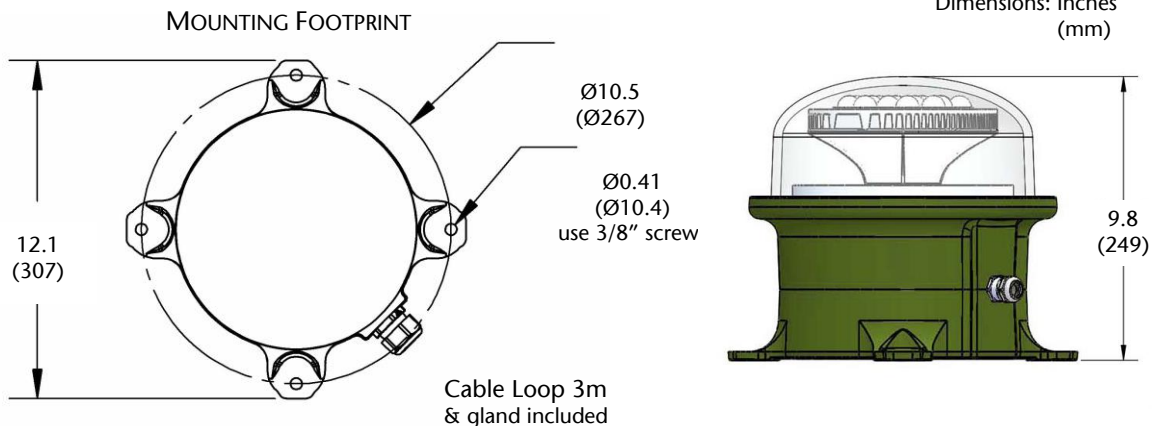
Weight of Main Light: 20.2 lbs 9.2 kg

Input Voltage Range*:
 120V AC unit ± 20%
 220V AC unit ± 20%
 24V DC unit ± 10%

Temperature Rating: ± 55° C

Options –ROS and –ROSEX Remote Override Station

Provides for remote manual operation of the status light system. When ordered, this station uses line voltage and connects to the "RTO" terminal block in the PSL system control unit. The ROS switch may be located inside the nacelle or outside.



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PSL LIGHT VENTED TO IP67 & HAZARDOUS LOCATIONS FOR PREVENTION OF MOISTURE INGRESS

Severe environmental conditions with varying temperatures and humidity cause an air pressure differential that results in seal failure of IP66 and IP67 enclosures. Certified fixtures and enclosures begin to leak moist air which the temperature changes turn into condensation. This water can cause failure of the electronic components and corrosion of the metal parts and housing. Point Lighting Corporation uses a very fine pore membrane vent that allows air to pass freely, but water, dust and dirt are prevented from entering. The vent is certified to IP66 & IP67, IEC 600-2-78 humidity, IEC60068-2-11 salt fog, GR-3108-CORE corrosive gases and other IEC standards.

Helihoist Light
with PL10961-M12-HF Vent
Installed above the cable entry gland



FREEZE & HEAT CYCLING TEST PROGRAM TO CONFIRM PREVENTION OF MOISTURE INGRESS CALIBRATED ENVIRONMENTAL CHAMBER

Turn on the chamber, humidity control, dry air purge and ramp to 75°F (24°C) and 70% humidity for baseline readings.

Ramp to -67°F (-55°C) and 50% humidity at the rate of 2.5°F/min (1h 15m).

Hold at -67°F (-55°C) for 1 hour.

Ramp to 130°F (+55°C) and 95% humidity at a rate of 2.5°F/min (1h 15m).

Hold at 130°F (+55°C) and 95% humidity for 1 hour.

Repeat steps 2 - 5 Twenty (20) times