



POINT HELIDECK LIGHTS PEL-EX LED v5 CLASS I, DIVISION 2 & ZONE 2

Compliances: ETL Listed Class I, Division 2, Groups A B C D, T5 at -40 deg C to +55 deg C*
 ETL Listed Class I, Zone 2, Groups IIA, IIB+H2, IIC T5 at -40 deg C to +55 deg C*
 ETL Listed to UL 844 & UL 1598
 ETL Listed to UL 1598A Marine Vessels at -40 deg C to +55 deg C
 ETL Listed to CSA C22.2 No. 137-M1981 & No. 250.0-08 Canada
 FAA AC 150/5390-2B Heliport Design Guide
 ICAO Annex 14, Volume II
 Registered ISO 9001:2008
 UK CAA CAP 437 & Transport Canada TP14371, AGA 7.17
 IMO 2009 MODU Code (2010) paragraph 13.5.20
 American Bureau of Shipping (ABS) Type Approved Product



The PEL-EX POINTSPEC series of elevated LED heliport lights include the highest grade technical features and available in the industry. These lights are intended for mounting directly onto conduit around the perimeter of a heliport or helideck. For surface mounted lights, see file HL114LSMEX.

Point Type	Voltage	Array	Color	Entry	EX	Style & Options
PEL-57005	1: 120v 2: 220v 3: 12v DC 4: 24v DC	H: Heliport C: CAP 437 N: NVG ** V: Vertical^	G: Green Y: Yellow W: White R: Red B: Blue IR: Infrared	10B: 1-inch Bottom	EX: Class I Div 2	VB: Variable Brightness NC: NVG *** Compatibility S3: w/Junction Box*

Visibility Range of Array H as Tested:

Visible Color > 8 nautical miles
 Option -NC *** > 3 nautical miles

*** For Night Vision Goggles (NVG)
 For use with visible (non-IR) array;
 adds IR LEDs at 855 nm



The PEL v5 H array is 4.5 watts at 120-220V
 The PEL v5 C array is 7.4 watts at 120-220V

Note: Array H brightness exceeds ICAO Annex 14
 * T6 at -40 deg C to +45 deg C
 ** For NVG tactical use only: PEL-57005-1N-IR-EX
 ^ Light with narrow high vertical beam spread normally in white

With -S3 Option

PEL-57005-1H-G-10B-EX
 ONLY 4.5 WATTS



CLEAR LENS BUT GREEN LIGHT PRODUCED
 COLOR CODED LED BOARD





POINT HELIDECK LIGHTS PEL-EX LED v5 CLASS I, DIVISION 2 & ZONE 2

PEL EX LED SPECIFICATIONS

The LED lighted (specify: voltage) 50/60 Hz heliport light shall operate properly at an input voltage supply of 120V +/-20% (93V to 144V) or, for 220V units, 176V to 250V. Within the preceding ranges, the output to the LED board shall be a controlled, stabilized constant current. The lights shall be listed and labeled for use in hazardous locations: Class I, Division 2, Groups A, B, C, D & T5 and Class I, Zone 2, Groups IIA, IIB+H, IIC with a temperature rating of T5 per UL844 & CSA C22.2 No. 137-M1981 at max +55-deg C. Note: T6 at max +45-deg C.

The heliport lights shall be listed *Suitable for Use in Wet Locations* to UL1598A Marine Vessels, UL1598 2nd Edition Luminaries; CSA C22.2 No. 250.0-08, 2nd Edition; UL50 11th Edition Standard for Enclosures for Electrical Equipment and CSA C22.2 No. 94-M91 Special Purpose Enclosures for use at -40 deg C to +55 deg C and sealed to IP66 ingress protection. The photometric performance shall exceed 25 candelas over a range defined by ICAO Annex 14, Volume II, Figure 5-9.

The fixture shall have Marine Treatment for marine conditions by cleaning per US MIL method III of TT-C-490, pretreated with chrome-free aluminum conversion coating per US MIL-DTL-5541, Type II, epoxy powder base coat primer and glossy polyester powder coat finish coat in color RAL 6003 (FED-STD-595 color #14097) dark green. Oven cured per US MIL-PRF-24712A. The manufacturer shall certify compliance with the US Military Standard Salt Fog Test conducted per MIL-STD-810F, Method 509.4, Procedure I, paragraph 4.5.2. All screws shall be stainless steel.

The LEDs shall be soldered in a factory set position to insure consistent light output. Wire mounted raised LEDs that can be bent out of position shall be unacceptable and cause for rejection. The LED board shall be treated with a protective dielectric conformal coating for protection from moisture and corrosion.

The LED heliport light shall be POINTSPEC Series PEL-57005-EX manufactured by Point Lighting Corporation.

POWER CONSUMPTION

Code	Type	Voltage	Frequency	Watts*	VA*
-1H	Array H	120 AC	50/60 Hz	4.5	5.24
-2H	Array H	220 AC	50/60 Hz	4.5	5.47
-3H	Array H	12 DC	---	4.0	---
-4H	Array H	24 DC	---	4.0	---
-1C	Array C	120 AC	50/60 Hz	7.4	8.4
-2C	Array C	220 AC	50/60 Hz	7.4	8.0
-3C	Array C	12 DC	---	6.2	---
-4C	Array C	24 DC	---	6.0	---



Note: The PEL optical subassembly is permanently sealed to prevent moisture penetration and it is not serviceable.

WEIGHT, DIMENSIONS & SHIPPING DATA

	inches (mm)				Multi-Pack Carton		
	Weight	Height	Width	Depth	Qty	Weight	Dim (inches)
PEL EX:	3.5 lbs 1.6 kg	8.3 (210)	6.0 (152)	5.0 (127)	12	47 lbs 21.3 kg	22 x 15 x 17

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