




# POINT SURFACE FLOODLIGHT PSF-AX MARINE HELIDECK FLOODLIGHT ATEX ZONES 1 & 2 IECEx

Compliances: IECEx Listed Ex d IIB T6 Gb Ta -55 to +55-deg C IP66  
 ATEX Listed  II 2 G Ex d IIB T6 Gb Ta -55 to +55-deg C IP66  
 Registered ISO 9001:2008  
 ICAO Annex 14, Volume II  
 UK CAA CAP 437, Chapter 3, paragraph 3.5  
 American Bureau of Shipping (ABS) Type Approved Product  
 ABS Green Passport per MEPC179 (59)  
 International Maritime Organization (IMO) MODU Code 2001, para 13.5



The PSF-53017-AX is a zones 1 & 2 medium intensity LED surface mounted helipad and helideck floodlight intended to "wash" the pad with light. The purpose of the PSF-AX is to provide cones of light "washing" the surface that provides improved conspicuity and depth perception to the pilot.

Point Type	Voltage	AX	Rear Entries (2)
PSF-53017	1: 120 volts 2: 220-240 volts 3: 12 volts DC 4: 24 volts DC	AX: ATEX & IECEx Zone 1 Zone 2	(blank): 3/4-inch NPT 10: 1-inch NPT M20: Metric M25: Metric SNP: Safety Net Plate <sup>^</sup>



Marine Treatment of the cover and black anodizing of the body are included: *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.*

<sup>^</sup> Includes SS mounting hardware for PSF only.

Listed: Baseefa14ATEX0274  
IECEx BAS 14.0130

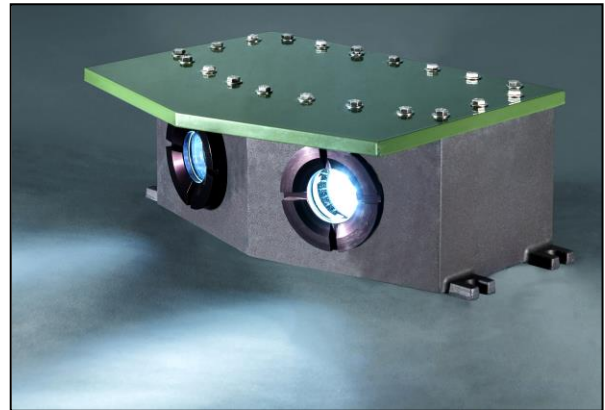
Peak (per beam): 4,000 candelas  
 Total output per fixture: 8,000 candelas  
 LED rated average life: 100,000 hours

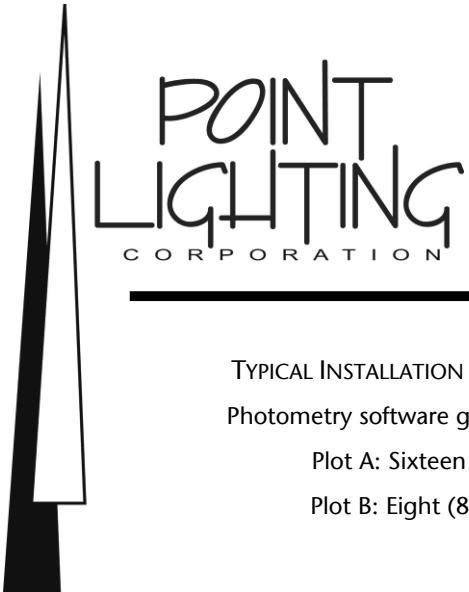
T-number: T6 (85 deg C)  
 T ambient: +55 deg C  
 Operating: -55 deg C to +55 deg C  
 Frequency: 50/60 Hz  
 Ingress Rating: IP66

All external hardware is grade 316 (A4) stainless steel.  
 Metal castings are copper-free (< 0.2%) heat treated aluminum.

Note: Cover hardware tool PL10839-PSFAX is required for all new installations.

PSF-53017-2-AX





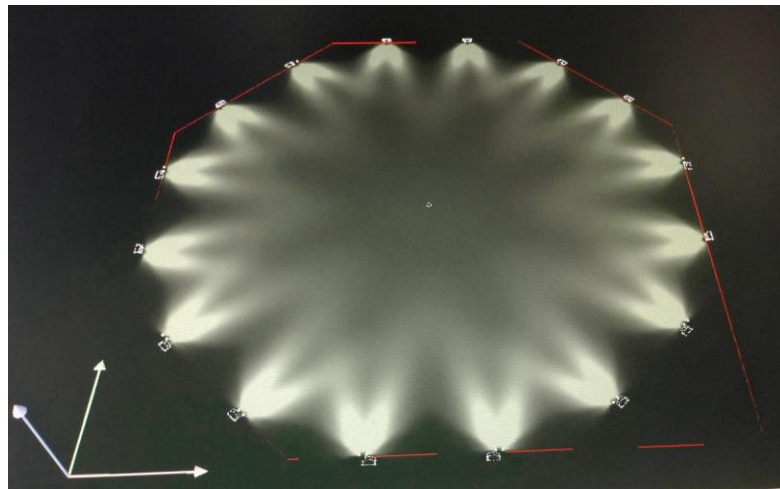
# POINT SURFACE FLOODLIGHT PSF-AX MARINE HELIDECK FLOODLIGHT ATEX ZONES 1 & 2 IECEx

TYPICAL INSTALLATION PHOTOMETRY PLOTS FOR A 22 D-VALUE OCTAGONAL HELIDECK  
Photometry software generated plots the average across the surface of the octagon

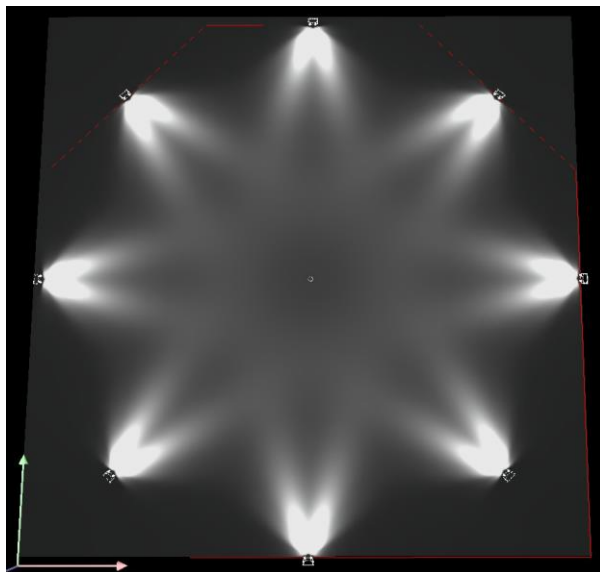
Plot A: Sixteen (16) PSF Surface Floodlights produces 31 lux average

Plot B: Eight (8) PSF Surface Floodlights produces 11.76 lux average

PLOT A



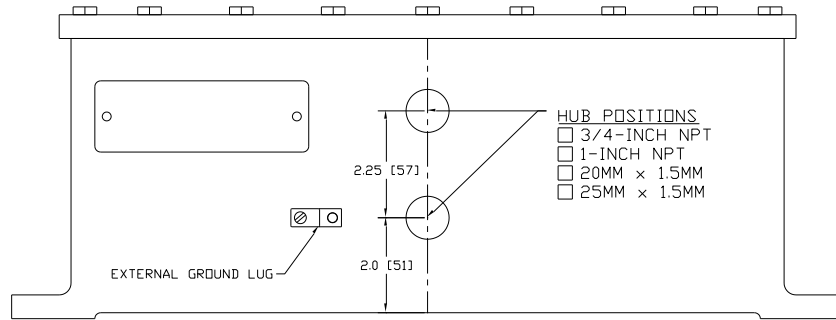
PLOT B





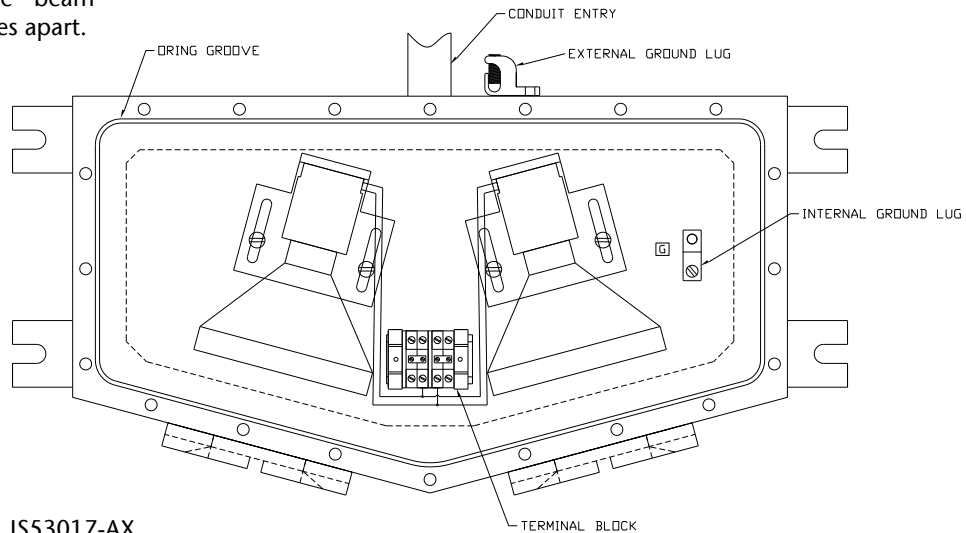
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PSF-53017-AX Rear View



The two (2) flood lamps are positioned with the beam centerlines 30-degrees apart.

PSF-53017-AX Top View



Instruction Sheet: IS53017-AX

Weight: 48 lbs 22 kg  
 Dimensions: 12.0 D 15.5 W 6.6 H  
 (305) (394) (167)  
 Bolt Pattern: Four (4) holes for 3/8-16 screws  
 Arranged on flanges spaced  
 4.5 x 16.5-inches  
 Important Notes: \* Required for new installations  
 \*\* No substitute by certification  
 Quantity 20 per fixture

### Replacement Parts

PL11003-1 Lamp LED 120v, 12.5 watts  
 PL11003-2 Lamp LED 230v, 9.5 watts  
 PL11056-3 Lamp LED 12/24v DC, 9 watts  
 PL10737-1 Socket & Bracket AC Assembly (2)  
 PL10737-1-DC Socket & Bracket DC Assembly (2)  
 PL 11107-25 \*\* Cover Bolts 316SS (20)  
 PL10235-14-SS\*\* Washer Flat 316SS (20)  
 PL10839-PSFAX\* Torque Wrench Kit

## POINT LIGHTING CORPORATION

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 Tel 01 860.243.0600  
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 website: www.PointLighting.com



# POINT SURFACE FLOODLIGHT PSF-EX

## MARINE HELIDECK FLOODLIGHT CLASS I, DIVISIONS 1 & 2 WITH OPTIONAL BRIGHTNESS CONTROL

Compliances: ETL Listed Class I, Divisions 1 & 2, Groups C & D, T6 (over 55-deg C), IP66/67  
 ETL Listed Class I, Zones 1 & 2, Groups IIA & IIB, T6 (over 55-deg C), IP66/67  
 ETL Listed per UL 50E, UL 844, UL 1598 & UL 1598A Marine Vessels  
 ETL Listed per CSA C22.2 No. 137-M1981 & No. 250.0-08 Canada  
 Registered ISO 9001:2015  
 ICAO Annex 14, Volume II  
 American Bureau of Shipping (ABS) Type Approved Product  
 International Maritime Organization (IMO) MODU Code 2001, para 13.5



The PSF-53018-EX is a medium intensity LED surface mounted helipad and helideck floodlight intended to "wash" the pad with light. The purpose of the PSF-EX is to provide cones of light "washing" the surface that provides improved conspicuity and depth perception to the pilot. The PSF uses a Point Lighting proprietary board mounted LED design for the two well-controlled directional beams angled 30 degrees apart. This fixture does not use lamps. The output is substantially brighter than any other competing heliport surface floodlight. Listed to IP66 & IP67.

Point Type	— Voltage	— EX	— Options & Rear Entry (2)
PSF-53018	1: 93-250 volts AC 3: 10.8-26.4 volts DC	EX: Class I Divisions 1 & 2 Zones 1 & 2	(blank): ¾-inch NPT 10: 1-inch NPT M20: Metric M25: Metric SNP: Safety Net Plate^ VB: Variable Brightness*

Intensity (per fixture): 4,348 lumens  
 Peak (per beam): 7,609 candelas  
 Total output per fixture: 15,218 candelas  
 LED rated average life: 100,000 hours

T-number: T6 (85 deg C)  
 T ambient: +55 deg C  
 Operating: -55 deg C to +55 deg C  
 Frequency: 50/60 Hz  
 Ingress Rating: IP66 & IP67

**Power Consumption:**

34 watts	12/24 volts DC
34 watts	36 VA 120 volts AC
36 watts	38 VA 230 volts AC

All external hardware is grade 316 (A4) stainless steel.  
 Metal castings are copper-free (< 0.2%) heat treated aluminum.

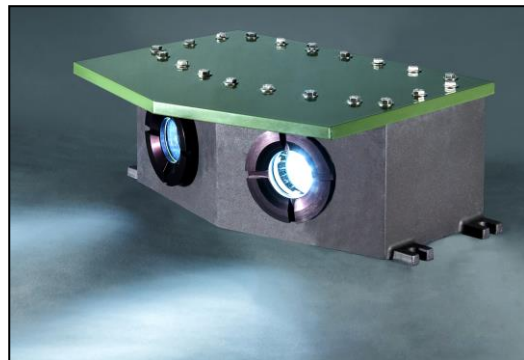
Note: It is recommended to install circuit level surge protection for the PSF circuit which may be an SPU Surge Protector Unit or a PHC System Controller.

Note: Cover hardware tool PL10839-PSFEX is required

^ Includes SS mounting hardware for PSF only.

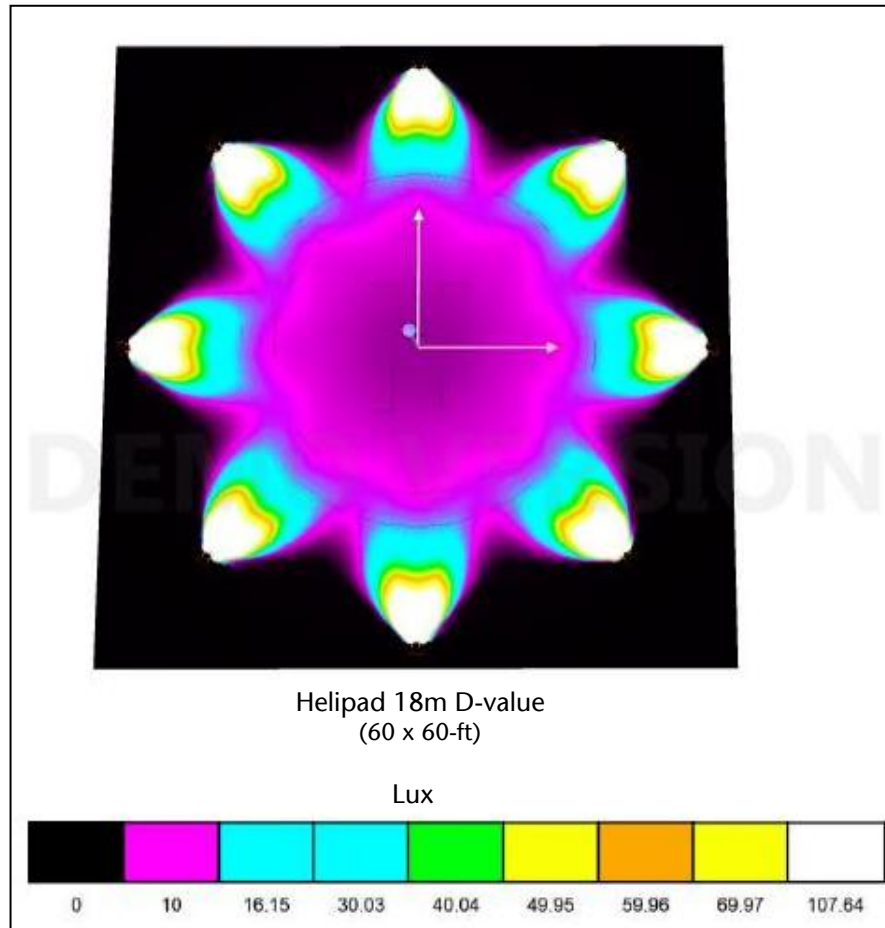
\* OPTIONAL BRIGHTNESS CONTROL: Provides 100% and two reduced steps. Requires use of a PHC adjustable brightness system controller.

PSF-53018-1-EX



TYPICAL PHOTOMETRIC PLOT

False color rendering of the isocandela plot using eight (8) PSF-53018 LED surface floodlights each with two angled beams peaking at 7,609 candelas measured on a calibrated Hoffman automatic goniometer.



Instruction Sheet: IS53018-EX

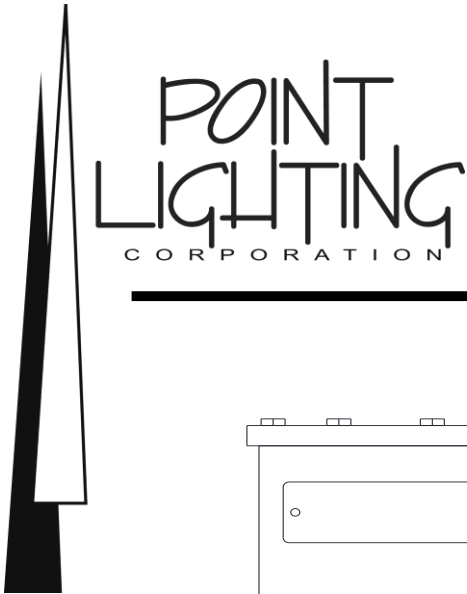
Weight: 48 lbs 22 kg  
Dimensions: 12.0 D 15.5 W 6.6 H  
(305) (394) (167)

Bolt Pattern: Four (4) holes for 3/8-16 screws  
Arranged on flanges spaced  
4.5 x 16.5-inches

Important Notes: \* Required for new installations  
\*\* No substitute by certification

Replacement Parts (number per PSF)

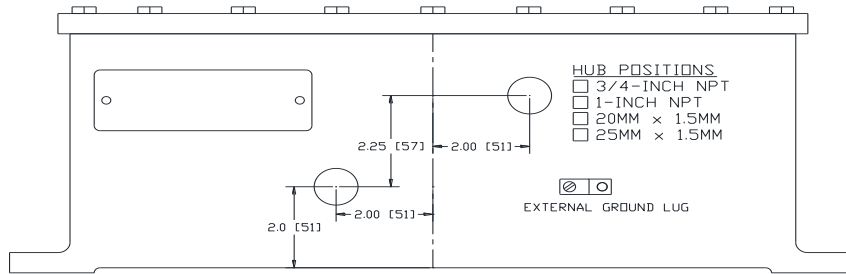
PL11251	Replacement LED Set (2)
PL10725-2-COB	Power Supply, AC (2)
PL10725-3-COB	Power Supply, DC (2)
PL11001-1	O-Ring, Cover (1)
PL10049-S	O-Ring, Window (2)
PL11047	Terminal Block (1)
PL11141-1-SS**	Cover Bolts 316SS (20)
PL10235-14-SS**	Washer Flat 316SS (20)
PL10839-PSFEX*	Torque Wrench Kit



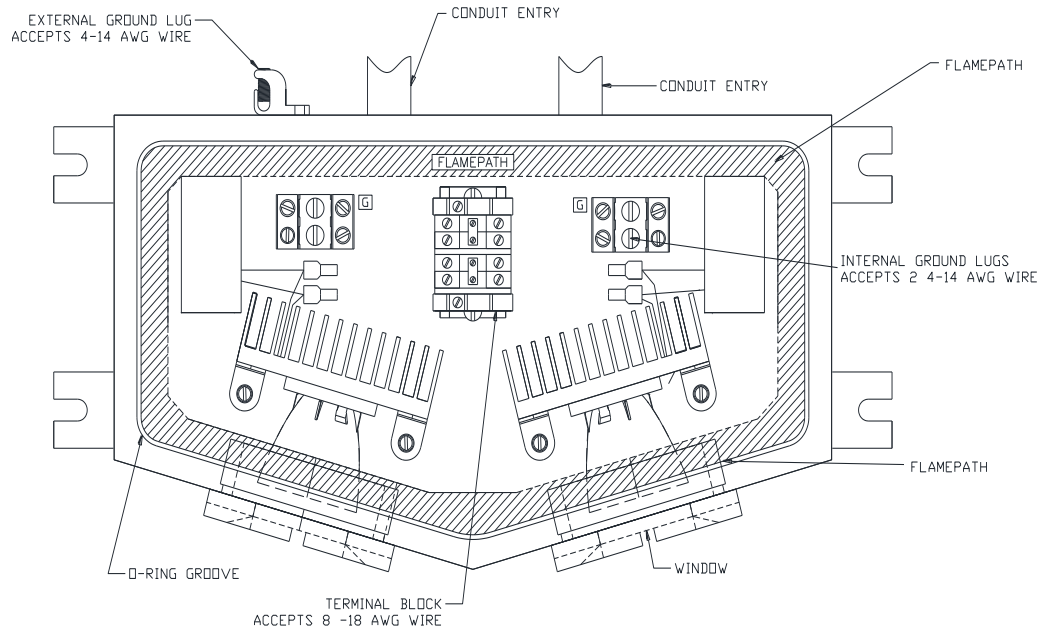
# POINT SURFACE FLOODLIGHT PSF-EX

## MARINE HELIDECK FLOODLIGHT CLASS I, DIVISIONS 1 & 2 WITH OPTIONAL BRIGHTNESS CONTROL

PSF-53018-EX Rear View



PSF-53018-EX Top View



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