

DC INSET PERIMETER LIGHT 12/24 VDC Output from FEC Controller - NVG Compatible

HP1900 SERIES

*DISCONTINUED
1ST GENERATION*



**DC INSET PERIMETER
LIGHT**



This newly redesigned Inset perimeter light is the latest addition to the FEC Heliports line of high quality LED lights.

Perimeter lights are one of the most important safety features on your heliport. They are used to mark and illuminate the FATO and TLOF as well as to help the pilot locate the pad and safely and during night operations and inclement weather conditions. The Inset light is used in place of an elevated heliport perimeter light at locations where the lights are frequently knocked down by aircraft and or maintenance vehicles. These lights are strong enough to drive over without damaging the light.

Key Features:

- Mil-spec anodized cast aluminum body suitable for the harshest environments
- Pre-wired for quick and easy installations
- Standard color in Anodized Grey
- Annodized Blue, Red, and Gold finish are special order

Technical Details

Operating Voltage:

- 120/277V 50/60Hz input
- 12/24 VDC Output via FEC PLC Controller

Operating Power:

- 6 Watts @ 0.350ma

Operating temperature:

- - 40°f to 131°f
- - 40°c to + 55°c

Operating Lifespan:

- LED's Rated to 50,000 hrs

Light Source:

- 1x Osram Visible LED
- 3x Osram IR Diodes

Standard Part Numbers:

Fixture Only

- HP1971F True Green (528nm)
- HP1972F Blue (470nm)
- HP1973F White 6000K
- HP1974F Yellow/Amber (590nm)
- HP1982F Red

With Light Base:

- HP1971F True Green (528nm)
- HP1972F Blue (470nm)
- HP1973F White 6000K
- HP1974F Yellow/Amber (590nm)
- HP1982F Red

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Photometric:

Standards
U.S. Department of Transportation, Federal Aviation Administration,
Memorandum, Heliport Perimeter Light for Visual Meteorological
Conditions. Engineering Brief No. 87

Parameter	Requirement	Measured	Result
Min. Peak Intensity	5 cd from 16° - 90°	12.6 cd	Pass
Min. Peak Intensity	10 cd from 0° - 15°	23.3 cd	Pass
Min. Avg Intensity	15 cd from 0° - 15°	46.7 cd	Pass

cd = Candela

Standards

Internal Civil Aviation Organization (ICAO):
Aerodromes, Annex 14, Volume 2, Fourth Edition, dated July 2013
Aerodromes, Annex 14, Volume 1, Seventh Edition, dated July 2016

Parameter	Requirement	Measured	Result
Min. Peak Intensity	3 cd from 21° - 90°	12.6 cd	Pass
Min. Peak Intensity	8 cd from 13° - 20°	36.1 cd	Pass
Min. Peak Intensity	15 cd from 11° - 13°	51.5 cd	Pass
Min. Peak Intensity	30 cd from 6° - 10°	41.7 cd	Pass
Min. Peak Intensity	15 cd from 2° - 5°	30.9 cd	Pass

Test Purpose - Performance Testing (Photometry and Chromaticity)

Test Dates - December 11, 2018

Standards & Certification:

- ETL Listed to UL2108
- ETL Listed to UL1598 at -40° c to +55°c
- ETL Listed to CSA C22.2 NO. 250.0-08
- FAA EB#87, L-860HR & HS
- FAA AC 150/5390-2 (Latest Rev.), Heliports Design Guide
- ICAO Annex 14, Volume II
- UK CAP 437
- UK CAP 1264

Physical Characteristics

Overall Dimensions:

- Height Above Surface: 1.0"
- Body: 6 1/2" to 4 3/4"
- Mounting Flange: 10" Diameter

Mounting Pattern:

- 7 3/4" BHC, 8 equally spaced 1/4" holes, 82° C-Sink

Flange Material:

- 6061-T6, QQA-200/8

Body Material:

- 356-T6 Aluminum Alloy

Lens:

- Tempered Borosilicate

Hardware:

- 18-8 Stainless Steel

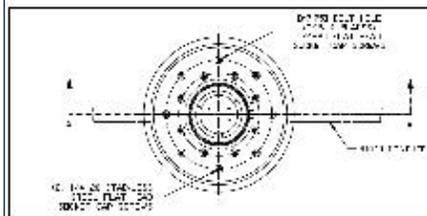
Finish:

- Hard Anodized per MIL-A-8625, Type II, Class 1

Mounting Can:

- Height 6-5/8 inches (168.27mm)
- Outside Diameter 11 inches (279.4mm)
- Inside Diameter 8-1/2 inches (215.9mm)

Inset Mounting Details



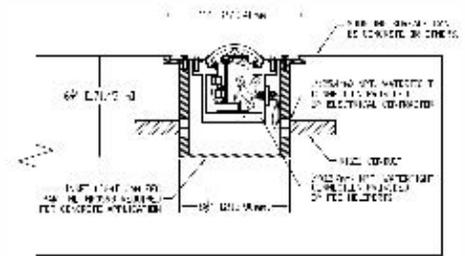
TOP VIEW

Mounting Notes:

- Set can in form so finished grade and the top of the mounting can are even
- Use watertight conduit and conduit fittings to rough in power source wiring to mounting cans.
- Mask / cover topside opening to prevent debris from entering the Mounting Can.

General Notes:

- After installation the lens is 1/2 inch (12.7mm) above grade
- Light fixture outside diameter is 10 inches (254mm) by 5 inches (127mm) in depth
- Mounting can outside diameter is 11 inches (279.4mm) by 6 5/8 inches (168.275mm) in depth



SECTION 4-A