

PAD-STAR® DC ELEVATED POLE MOUNT- 2ND GENERATION

HP3000 SERIES



DC POLE MOUNT PERIMETER/
L-810 OBSTRUCTION LIGHT
HP0270 Pole Optional. Pole not included.

This newly redesigned Pole Perimeter / L-810 Obstruction Light is the latest addition to the FEC Heliports line of high quality LED lights.

Perimeter and Obstruction lights are one of the most important safety features on your heliport. They are used to mark and illuminate the FATO, TLOF, and Obstructions as well as to help the pilot locate the pad and safely land during night operations and inclement weather conditions.

KEY FEATURES:

- Hermetically sealed optical assembly to mitigate condensation
- Infra-Red equipment standard on all PadStar Series lighting
- NVG Compatible
- 10-Year Limited Warranty
- Engineered and designed to be universally compatible with any existing heliport lighting system

TECHNICAL DETAILS

OPERATING VOLTAGE:

12/24 VDC Output from FEC 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:

HP3160P True Green (528nm)
HP3163P Blue (470nm)
HP3161 P White 6000K
HP3162P Yellow/Amber (590nm)
HP3180P Red (L-810)

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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°	29.3 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 AND CERTIFICATIONS:

- ETL Listed to UL2108
- ETL Listed to UL 1598 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
- FAA AC 150/5345-43 Obstruction Light Specification L-81 O
- FAA E/8#98, Infrared Specification for Obstruction Lights

PHYSICAL CHARACTERISTICS:

Light Fixture:

Dimensions:

- Height 5 inches(127mm)
- Lid Diameter 4-3/4" (120.65mm)

Materials:

- Lens Tempered Glass
- Casting 356 T6 Aluminum Alloy

Mounting:

- 1"(25.4mm) NPT located on the bottom of each pole light

Materials:

- Casting 356 T6 Aluminum Alloy
- Light: 6lbs.

Notes: All machining on the Aluminum casting is done in house by FEC Heliports

PRODUCT DETAILS:

