

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

HP2100 SERIES

This newly redesigned Ground perimeter 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.



DC GROUND MOUNTED
PERIMETER LIGHT

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
- Mil-spec anodized cast aluminum body suitable for the harshest environments
- Pre-wired for quick and easy installations

TECHNICAL DETAILS

OPERATING VOLTAGE:

12/24 VDC input from FEC
Controllers

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:

HP2190G True Green (528nm)
HP2193G Blue (470nm)
HP2191G White 6000K
HP2192G Yellow/Amber (590nm)
HP2181G Red

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

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
International 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 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: 4 1/4"
- Body Diameter: 6 1/2"
- Mounting Flange: 8.0"

Mounting Pattern:

- 7 1/6" BHC, 4 equally spaced 5/16" holes

Flange Material:

- 6061-T6, QQA200/88
- 356-T6 Aluminum Alloy

Lens:

- Tempered Borosilicate

Hardware:

- 18-8 Stainless Steel

Finish:

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

PRODUCT DETAILS:

