FAA-PMA APPROVED!

P/N 2307490-1

ALPHABEAM® II

LED Aviation Light for Business Aviation

FEATURES

- Solid State Light Emitting Diode (LED) Light Source
- FAA-PMA approved
- Drop in replacement for PAR 46 (14.61 cm/5.75 in) dia.
- Multi-stage optical system
- Meets all applicable environmental requirements of RTCA DO-160G
- Built in thermal protection
- Anti-Icing Lens
- Operates on 28 VDC
- Calculated MTBF is 30,000 hours of continuous ON operation
- Manufactured in the USA

APPLICATIONS

- Landing Light
- Recognition Light

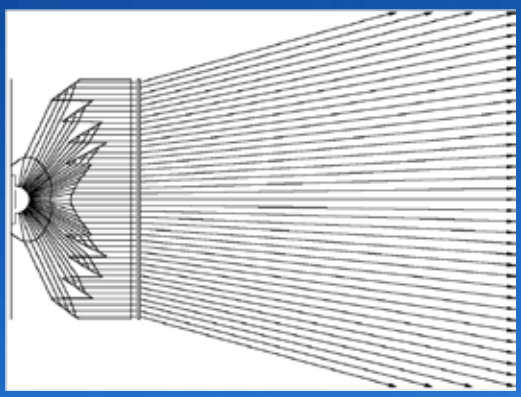
GENERAL CHARACTERISTICS	LANDING LIGHT 2307490-1
Light Source	LED
Candlepower in the Beam	300,000
Bulb Size	PAR 46 (14.61 cm/5.75 in)
Aircraft Electrical Interface	Screw terminal
Operating Voltage	28 VDC
Wattage	60 W Typ.
Field of View	10° horizontal/ 10° vertical
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +85°C

APPLICATION NOTES

1. Total Internal Reflection lens utilizes a high performance multi-stage optical system, consisting of primary and secondary optics that efficiently re-distribute light uniformly across the entire beam pattern.

2. Built in thermal protection prevents damage or accelerated degradation to the LED during extreme high temperature operation. The unit continuously monitors the temperature of the LED and will decrease power consumption during a high temperature event protecting the LED. Normal power consumption will resume once the high temperature condition elapses.

3. Intelligent Active Anti-Icing, designed into the Alphabeam prevents ice build up on the glass lens cover during all flight and taxi where icing is present. The unit continuously monitors the temperature of the glass and activates an optically clear resistive heating element built-in to the glass cover when outside air temperature achieves +5°C and below. During the heater operation, the Alphabeam will consume 30-40 additional watts. Once the heater circuit completes its anti-ice cycle, the unit automatically returns to its normal power rating.



Multi-Stage Optics