



P/N 2307335-1
P/N 2307490-1

ALPHABEAM® II

LED Aviation Light



FEATURES

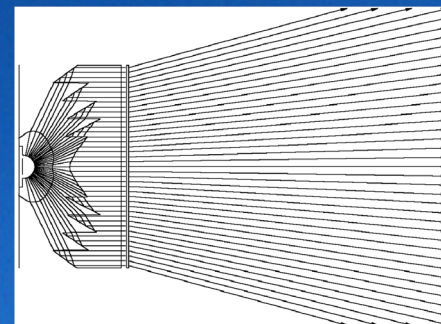
- Solid State Light Emitting Diode (LED) Light Source
- FAA-PMA approved
- Drop in replacement for PAR 46 (14.61 cm/5.75 in) dia.
- Multi-stage optical system
- Meets all applicable environmental requirements of RTCA DO-160G
- Built in thermal protection
- Intelligent Anti-Icing Lens
- Operates on 28 VDC / 28 VAC 400 Hz
- Meets Power Factor Correction aircraft specifications
- Calculated MTBF is 30,000 hours of continuous ON operation
- Manufactured in the USA
- Protected under patent #5,577,493, additional patents pending

GENERAL CHARACTERISTICS	TAXI/RUNWAY TURN-OFF LIGHTS 2307335-1	LANDING LIGHT (PMA PENDING) 2307490-1
Light Source	LED	
Candlepower in the Beam	75,000	300,000
Bulb Size	PAR 46 (14.61 cm/5.75 in)	
Aircraft Electrical Interface	Screw terminal	
Operating Voltage	28 VAC 400 Hz	28 VDC
Wattage	70W Typ.	60W Typ
Field of View	45° horizontal/ 10° vertical	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 +5C 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

FAA-PMA AIRCRAFT APPLICABILITY

AIRCRAFT	DROP-IN REPLACEMENT (ANSI CODE)
P/N 2307335-1 TAXI/RUNWAY TURN-OFF LIGHT	
Boeing 737-300	4551
Boeing 737-400	4551
Boeing 737-500	4551
Boeing 737-600	4551
Boeing 737-700	4551
Boeing 737-800	4551
Boeing 737-900	4551
Boeing 747-400	4551, Q4551
Boeing 767-200	4551, 4554
Boeing 767-300	4551, 4554
P/N 2307490-1 LANDING LIGHT (PMA PENDING)	
Lear 23, 24, 31, 35, 36	4580, Q4681
Lear 28, 29	4580, 4581
Lear 55, 60, 60XR	4580, 4581

ENGINEERING LIGHT FOR BETTER PRODUCTS