POLARIS THRESHOLD END



Compliance to standards	ICAO: International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1 IEC TS 61827: Electrical installations for lighting and beaconing of aerodromes. Characteristics of inset and elevated luminaires used on aerodromes and heliports			
Application	Portable Directional Approach Runway lights indicating for airplane pilots the landing direction on an Airport runway, low and medium intensity according ICAO. The POLARIS design has been done in such way as to provide maximum safety. It is a reliable and flexible product, being easy to fit into any kind of infrastructure.			
Features	Designed and built with simplicity and ease of maintenance in mind. High power LED technology (100 000 hrs lifespan). IRLED - optional. Lightweight, low-energy and environment friendly lighting fitting. Autonomy: Brightness level 100% - 20hrs 30% - 68hrs 10% - 204hrs 1% - 2040hrs Radio controlled 868MHz (optional 915MHz) with an operating range up to 8km. Operating modes: Steady Flashing Visible/Infrared(optional) Control option: via POLARIS computer interface via remote controller local with POLARIS buttons			
Product Code	AL - 114 - 04 - GR-RE Series Indicator (Airfield Lighting) Product Indicator LEDs Number LEDs Light Colour (green/red)	AL 114 04 GR-RE		

Description

Housing - powder coated aluminium RAL 1004 (aviation yellow)

Dispenser - clear polycarbonate UV resistant

Cable gland - nickel plated brass

Fasteners - stainless steel

Casing - polycarbonate UV resistant

Carrying handle - aluminum

Light fixtures are provided with anti condensation valve.

Environment

Temperature range: - 55° to +55°

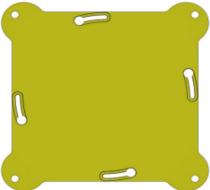
Degree of protection: IP X8
Ka tested: Salt mist

Mounting

1. Polaris Solar panel stand AL-123-AX



2. Polaris base plate AL-124-AX



Power consumption: 7W

Power supply: Power supply is provided by 1 rechargeable deep cycle sealed lead acid battery 12V - 12Ah (optional different battery can be used)

Lifespan: 1200 cycles User-replaceable Air transportable

Electrical Characteristics

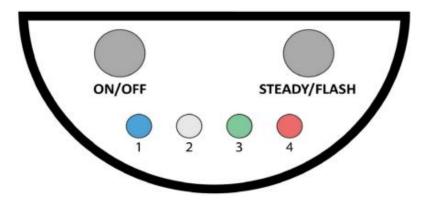
Battery Charging

The battery charger can be made in individual trays, in bigger racks or with solar panels.



Battery Monitoring & Charging:

The battery status is constantly monitored and a set of four LEDs gives a permanent indication.

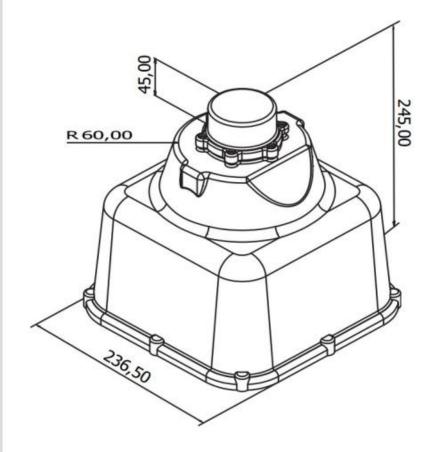


Width: 236.5 mm

Total height: 245 mm

Weight: 5.9 kg

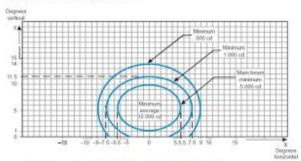
Mechanical Characteristics



Photometric Characteristics

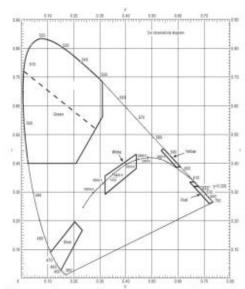
ICAO requirements Annex 14 Vol.1 Fig. A2-8. RED

Low intensity: 10% Average 250 cd Medium intensity: 30% Average 750 cd



ICAO requirements Annex 14 Vol.1 Fig. A2-3. GREEN

Low intensity: 10% Average 1000 cd Medium intensity: 30% Average 3000 cd



The measured trichroamtic coordinates correspond to colour range requirements in:

ICAO Annex 14 - Aerodromes Vol.1, fig, A1-1-1b.
Colours for aeronautical ground lights (solid state lighting)

Accessory

1	Polaris Solar panel stand	AL-123-AX	3
2	Polaris base plate	AL-124-AX	
3	Individual charger	AL-125-AX	
4	Charging rack	AL-126-AX	