

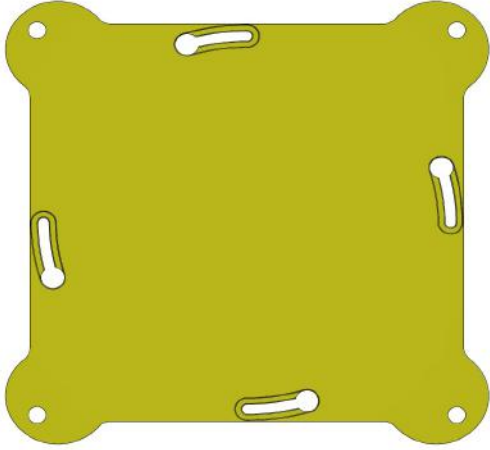


# POLARIS THRESHOLD END



<b>Compliance to standards</b>	<p><b>ICAO:</b> International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1</p> <p><b>IEC TS 61827:</b> Electrical installations for lighting and beaconing of aerodromes. Characteristics of inset and elevated luminaires used on aerodromes and heliports</p>								
<b>Application</b>	<p>Portable Directional Approach Runway lights indicating for airplane pilots the landing direction on an Airport runway, low and medium intensity according ICAO.</p> <p>The POLARIS design has been done in such way as to provide maximum safety.</p> <p>It is a reliable and flexible product, being easy to fit into any kind of infrastructure.</p>								
<b>Features</b>	<p>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</p> <p>Radio controlled 868MHz (optional 915MHz) with an operating range up to 8km. Operating modes: Steady Flashing Visible/Infrared(optional)</p> <p>Control option: via POLARIS computer interface via remote controller local with POLARIS buttons</p>								
<b>Product Code</b>	<p><b>AL - 114 - 04 - GR-RE</b></p> <table> <tr> <td>Series Indicator (Airfield Lighting)</td> <td><b>AL</b></td> </tr> <tr> <td>Product Indicator</td> <td><b>114</b></td> </tr> <tr> <td>LEDs Number</td> <td><b>04</b></td> </tr> <tr> <td>LEDs Light Colour (green/red)</td> <td><b>GR-RE</b></td> </tr> </table>	Series Indicator (Airfield Lighting)	<b>AL</b>	Product Indicator	<b>114</b>	LEDs Number	<b>04</b>	LEDs Light Colour (green/red)	<b>GR-RE</b>
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<b>Description</b>	<p> <b>Housing</b> - powder coated aluminium RAL 1004 (aviation yellow)   <b>Dispenser</b> - clear polycarbonate UV resistant  <b>Cable gland</b> - nickel plated brass  <b>Fasteners</b> - stainless steel  <b>Casing</b> - polycarbonate UV resistant  <b>Carrying handle</b> - aluminum         </p> <p>Light fixtures are provided with anti condensation valve.</p>
<b>Environment</b>	<p> <b>Temperature range:</b> - 55° to +55°  <b>Degree of protection:</b> IP X8  <b>Ka tested:</b> Salt mist         </p>
<b>Mounting</b>	<p> <b>1. Polaris Solar panel stand AL-123-AX</b>  </p> <p> <b>2. Polaris base plate AL-124-AX</b>  </p>

## Electrical Characteristics

**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

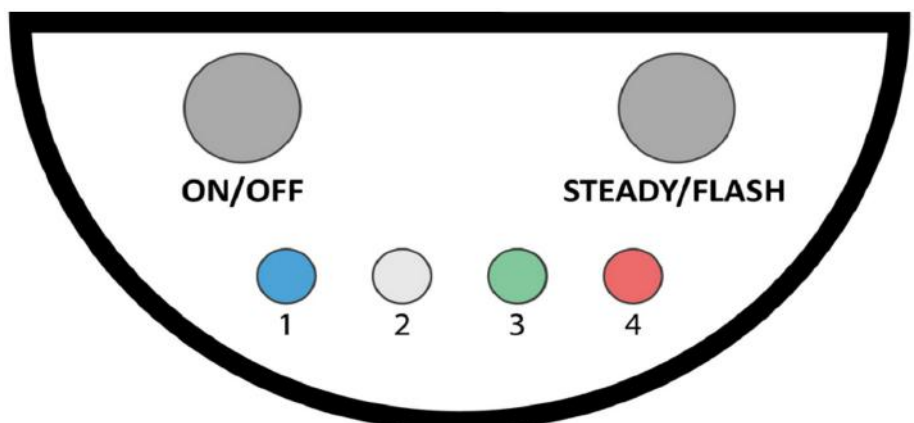
### Battery Charging

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.

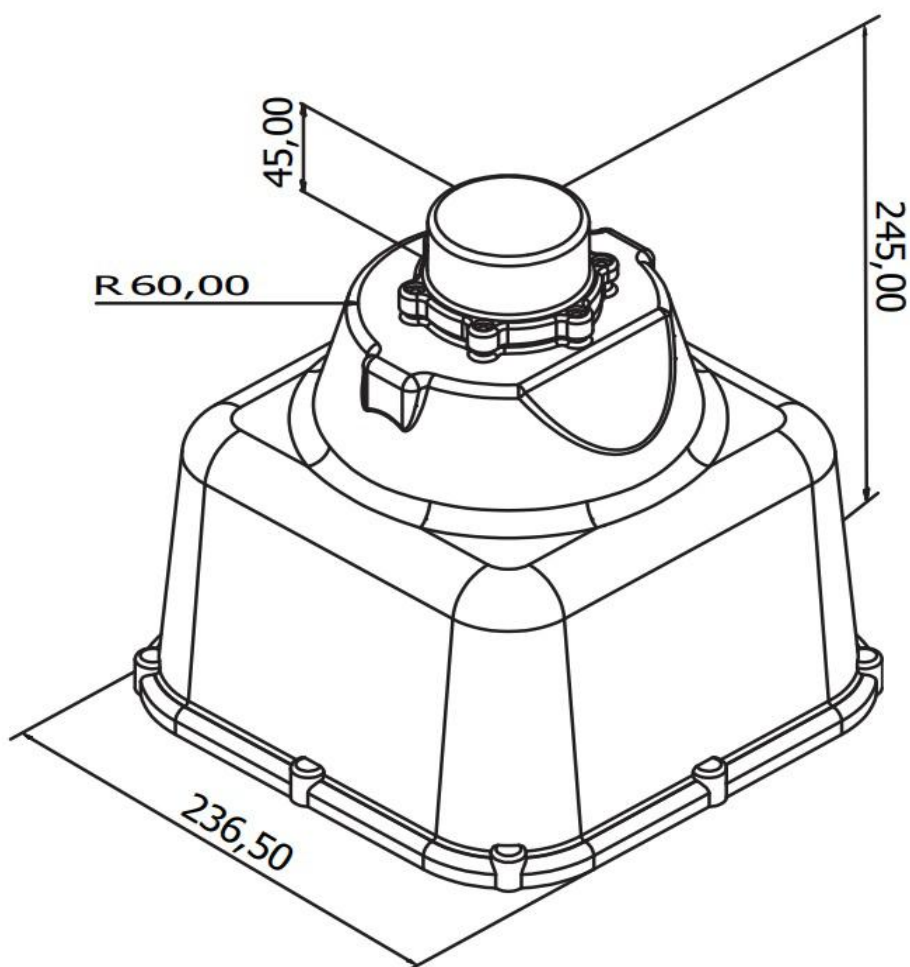


**Mechanical  
Characteristics**

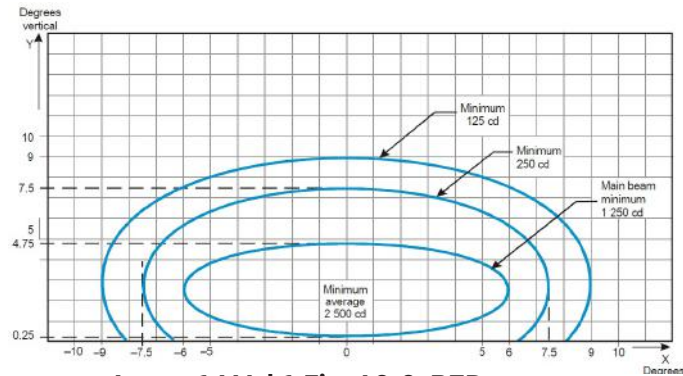
**Width:** 236.5 mm

**Total height:** 245 mm

**Weight:** 5.9 kg



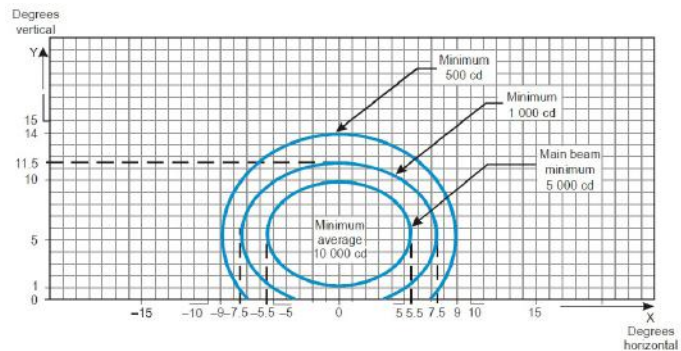
## Photometric Characteristics



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

Low intensity: 10% Average 250 cd

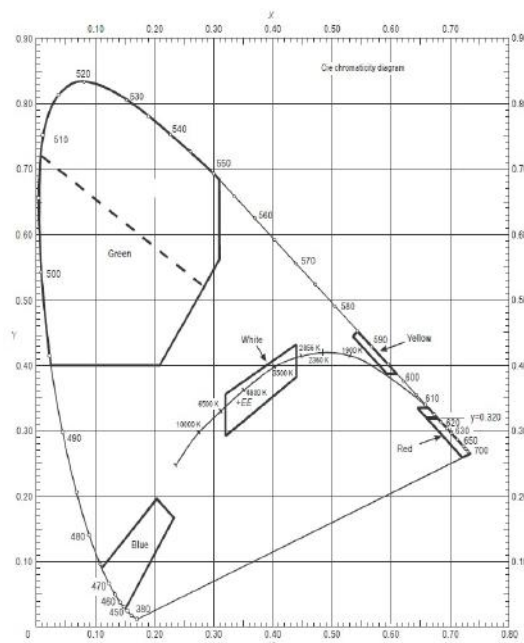
Medium intensity: 30% Average 750 cd



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

Low intensity: 10% Average 1000 cd

Medium intensity: 30% Average 3000 cd







The measured trichromatic 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

To order accessories please call our customer support.  
For contact details please refer to our website - [www.signalight.com](http://www.signalight.com)

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



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