POLARIS
Unserviceability Light

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Compliance to standards	**ICAO:** International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1 **EASA CS ADR-DSN.R.870 Unserviceable areas requirements** **IEC TS 61827:** Electrical installations for lighting and beaconing of aerodromes. Characteristics of inset and elevated luminaires used on aerodromes and heliports
Application	An unserviceability light shall consist of a red fixed light. The light has an intensity sufficient to ensure conspicuity considering the intensity of the adjacent lights and the general level of illumination against which it would normally be viewed. The intensity is more than 10 cd of red light.
Features	The light unit is lightweight, durable, waterproof and has been developed for fast deployment by non-skilled operators and will operate in the worst environmental conditions. All the units are equipped with high power LEDs, matched by dedicated optics to drastically increase photometric performances, save on power consumption and reduce life cycle costs. Autonomy up to 12 nights.

Product Code

AL - 117 - 01 - RE

Series Indicator (Airfield Lighting)	**AL**
Product Indicator	**117**
LEDs Number	**01**
LEDs Light Colour (red)	**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

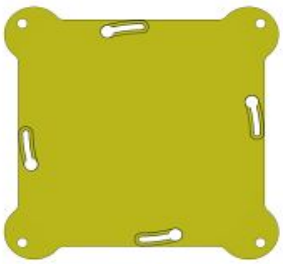
Environment

Temperature range:	-20^0 to $+50^0$
Degree of protection:	IP 65
Ka tested:	Salt mist

Mounting

1. Polaris Solar panel stand
AL-123-AX

2. Polaris base plate
AL-124-AX

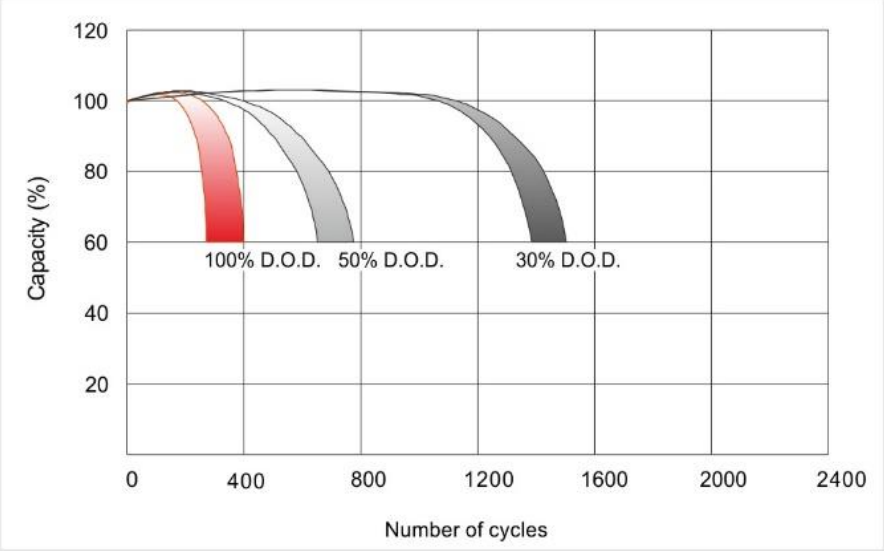


Electrical Characteristics

Power consumption: 1W

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

Charging cycle number in relation to discharge depth



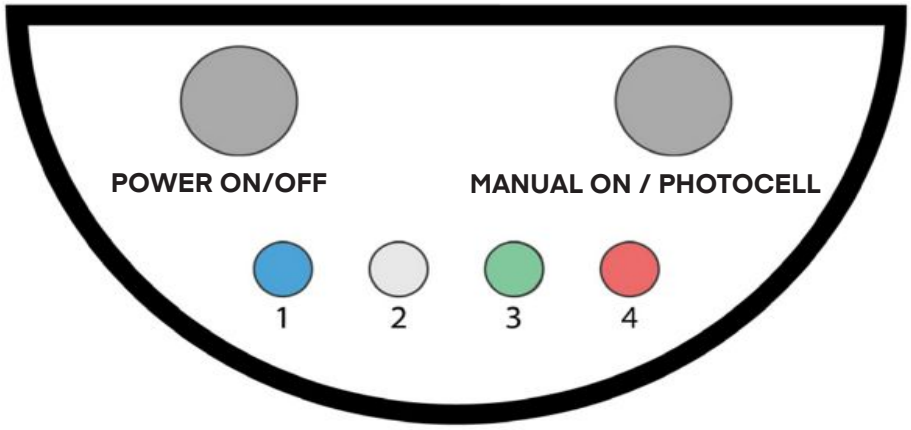
Battery Charging

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

Electrical Characteristics

Battery Monitoring & Charging:

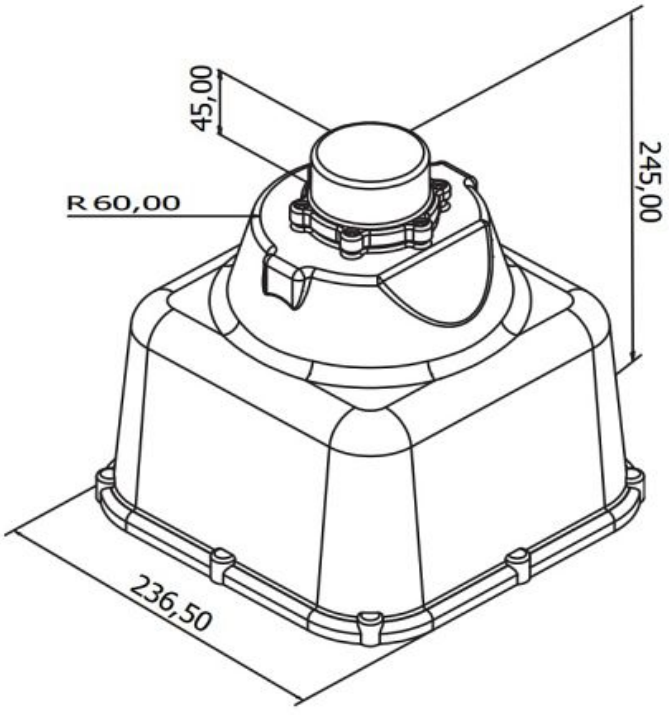
The battery status is constantly monitored and a set of four LEDs gives a permanent indication.



Power ON/OFF - pressing the button to disconnect the battery
MANUAL ON /PHOTOCELL - pressing the button to set 100% brightness or to connect the photocell.

Mechanical Characteristics

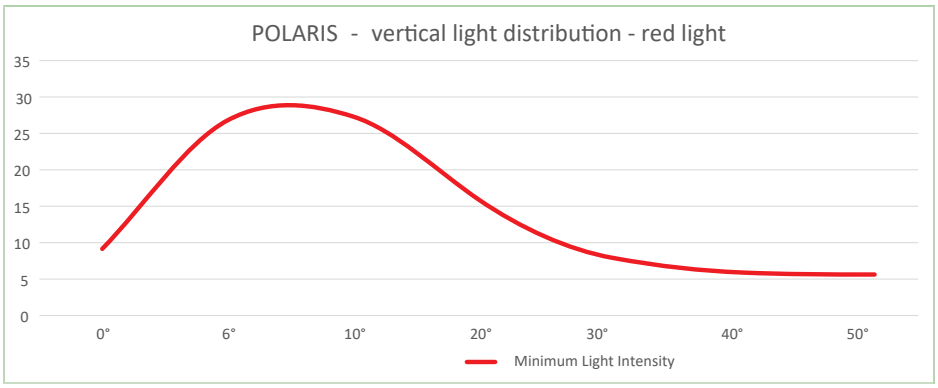
Width: 236.5 mm **Total height:** 245 mm **Weight:** 5.9 kg



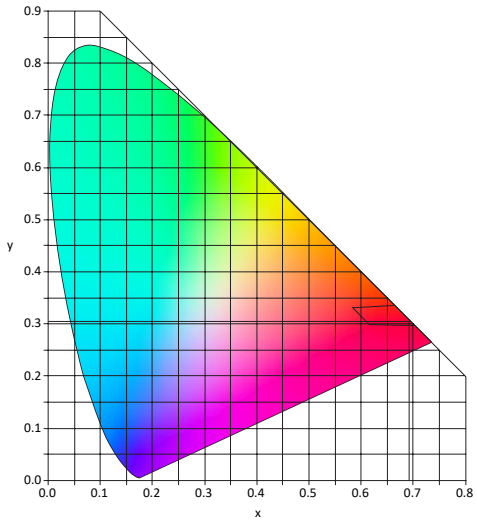
Photometric Characteristics

POLARIS - Unserviceability Ligh

Vertical elevation angle	0°	6°	10°	20°	30°	40°	50°
Measured minimum intensity [cd]	9.14	26.8	27.3	15.9	3.76	3.00	4.65



The light colour emitted by the light fixture is red, with the trichromatic coordinates:



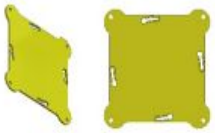
x=0,698
y=0,302
z=0,000

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

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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