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TECHNICAL DATASHEET · AIRPORT PORTABLE LIGHTING · RED UNSERVICEABILITY LIGHT

Polaris V1 Unserviceability Light

EcoSolaris code **ECO-AL-2044** | Ordering code **AL-117-01-RE** | **Made in Romania** — Manufactured in the EU



Battery-powered portable light with a fixed red beam for marking unserviceable areas, closed runways and taxiways and work zones at airports. Lightweight, waterproof and designed for fast deployment even by non-specialist staff.

PRODUCT CODE	COLOUR / INTENSITY
AL-117-01-RE	**fixed red, minimum 10 cd**
CHROMATICITY COORDINATES	POWER CONSUMPTION
x = 0.698; y = 0.302	**1 W**

Price on request | EcoSolaris technical support · Dubai

Technical specifications

Product code	AL-117-01-RE
Colour / intensity	fixed red, minimum 10 cd
Beam	omnidirectional, 360° horizontal; vertical elevation 0°/10°
Measured minimum intensity	0°: 9.14 cd; 6°: 26.8 cd; 10°: 27.3 cd; 20°: 15.9 cd; 30°: 3.76 cd; 40°: 3.00 cd; 50°: 4.65 cd
Chromaticity coordinates	x = 0.698; y = 0.302
Power consumption	1 W
Battery	sealed deep-cycle lead-acid 12 V – 12 Ah (other battery optional)
Autonomy	up to 12 nights
Degree of protection	IP65
Disperser impact resistance	shock-resistant clear polycarbonate, IK10
Environmental testing	salt mist
Width / total height	236.5 mm / 245 mm
Weight	5.9 kg
Transport	air transportable; user-replaceable battery

Features

- High-power LEDs with dedicated optics: higher photometric output, lower consumption
- Up to 12 nights of autonomy
- Permanent 4-LED battery status indication
- POWER ON/OFF button to fully disconnect the battery
- MANUAL ON / PHOTOCELL button: 100% brightness or automatic night operation
- Optional radio control

Standards and compliance

- ICAO Annex 14, Volume I – Aerodromes
- 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 for aerodromes and heliports
- Red colour within ICAO Annex 14 Vol. I, fig. A1-1b (solid-state aeronautical ground lights)

Materials and construction

- Housing: powder-coated aluminium, RAL 1004 (aviation yellow)
- Disperser: clear UV-resistant polycarbonate
- Casing: UV-resistant polycarbonate
- Cable gland: nickel-plated brass
- Fasteners: stainless steel
- Carrying handle: aluminium

Configuration options

- Photocell sensor for automatic night switching
- Radio control
- Charging in individual trays, racks or with solar panels
- Different battery on request

Ordering code structure

AL - 117 - 01 - RE

AL	Series indicator (airfield lighting)
117	Product indicator – unserviceability light
01	Number of LEDs
RE	LED colour: red

Compatible accessories

AL-123-AX	Polaris solar panel stand
AL-124-AX	Polaris base plate
AL-125-AX	Individual charger
AL-126-AX	Charging rack
AL-141-AX	Polaris photovoltaic panel
AL-159-AX	Polaris base station
AL-165-AX	Polaris radio remote control

Applications

Marking unserviceable areas at airports · **Closed runways and taxiways** · **Work zones and construction sites on the airside** · **Runway incursion prevention**