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TECHNICAL DATASHEET · HELIPORT LIGHTING · FLAT LIGHT FD

Flat Alignment – FD Light

EcoSolaris code **ECO-AL-1320** | Ordering code **AL-075-03-WH-FD** | **Made in Romania** Manufactured in the EU





Low-profile omnidirectional white light for guiding pilots along the correct approach and departure paths (flight path alignment guidance). The FD version has an integrated gel-filled junction box (gelbox, code 201-2593) and is designed for existing platforms where drilling is not possible: the cable runs on the surface inside an aluminium cable protection profile (AL-119-AX, 2.2 kg/m) and is routed through a channel outside the heliport area.

ORDERING CODE	LIGHT COLOUR
AL-075-03-WH-FD	**white, steady**
HORIZONTAL OUTPUT	INTENSITY LEVELS
360°	**100%, 30%, 10% (48 V DC or 1.4 A CC versions)**

Price on request | **EcoSolaris technical support · Dubai**

Technical specifications

Ordering code	AL-075-03-WH-FD
Light colour	white, steady
Horizontal output	360°
Intensity levels	100%, 30%, 10% (48 V DC or 1.4 A CC versions)
Power consumption	6.3 W
Power supply	48 V DC from controller, dimmable; 90-230 V, 50/60 Hz, non-dimmable; 1.4 A CC, dimmable (internal bypass + SPD)
Degree of protection	IP68
Operating temperature	-55 °C to +55 °C
Humidity	0-100%
Salt-mist testing	IEC 60068-2-11 and IEC 60068-2-25
Dimensions	405 × 200 mm, height 25 mm
Weight	2.5 kg
Electrical connection	integrated gel-filled junction box (201-2593)
Estimated LED lifetime	100,000 hours
Trichromatic coordinates	x = 0.347; y = 0.370; z = 0.283
Intensity at 2°-5° (required / measured min.)	15 / 28.5 cd
Intensity at 5°-10° (required / measured min.)	30 / 31.5 cd
Intensity at 10°-13° (required / measured min.)	15 / 36.5 cd
Intensity at 13°-20° (required / measured min.)	8 / 47 cd
Intensity at 20°-90° (required / measured min.)	3 / 30.9 cd

Features

- Designed and built with simplicity and ease of maintenance in mind
- High-power LEDs with an estimated lifetime of 100,000 hours
- Lightweight, low-energy and environmentally friendly fitting
- Aluminium alloys reduce weight and ease handling in the field
- 3-step intensity control (100%, 30%, 10%)
- UV protected, with anti-condensation valve
- Integrated gel-filled junction box, no-drill installation

Standards and compliance

- ICAO Annex 14, Vol. I – Aerodromes
- ICAO Annex 14, Volume II – Heliports
- IEC TS 61827 – Electrical installations for lighting and beaconing of aerodromes; characteristics of inset and elevated luminaires
- ICAO Annex 14, Vol. II, fig. 5-12, illustration 5 – light intensity
- Colour compliant with ICAO Annex 14, Vol. I, fig. A1-1b (solid-state aeronautical ground lights)
- Salt-mist testing: IEC 60068-2-11 and IEC 60068-2-25

Materials and construction

- Housing: powder-coated aluminium, RAL 1004 (aviation yellow)
- Disperser: hardened glass
- Disperser flange: nickel-plated ring
- Cable gland: nickel-plated brass
- Fasteners: stainless steel
- Cable protection: aluminium profile, 2.2 kg/m

Configuration options

- Power supply: 48 V DC from controller (dimmable), 90-230 V AC (non-dimmable) or 1.4 A CC (dimmable)
- Cable length: 1 m or 2 m
- Cable gland: chrome-plated, stainless steel or plastic
- Case: standard or case under the flat light connected with a short cable
- Junction box: none, simple terminals, or terminals + varistor + fuse
- LED type: white, white + IR or IR
- Snow plug protection: yes / no

Ordering code structure

AL - 075 - 03 - WH - FD

AL	Series: airfield lighting
075	Product indicator: flight path alignment guidance lights
03	Number of LEDs
WH	LED colour: white
FD	Surface-mounting fixture with integrated junction box

Compatible accessories

AL-119-AX	Aluminium cable protection

Applications

Flight path alignment guidance · **Indicating approach and departure directions** · **Elevated heliports (hospitals, buildings)** · **Ground-level heliports on concrete or asphalt** · **Existing metal platforms where drilling is not possible**