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TECHNICAL DATASHEET · HELIPORT LIGHTING · SURFACE-MOUNTED FLAT LIGHT · GREEN

Flat TLOF FD Heliport Light

EcoSolaris code **ECO-AL-1037** | Ordering code **AL-073-03-GR-FD** | **Made in Romania** Manufactured in the EU





FD version of the Flat TLOF light, with an integrated junction box and cables protected in aluminium profiles on the surface. It marks the touchdown and lift-off area perimeter in green on existing decks that cannot be drilled.

ORDERING CODE	LIGHT COLOUR
AL-073-03-GR-FD	**Green**
POWER CONSUMPTION	48 VDC SUPPLY
4.5 W	**from controller, dimmable 100%, 30%, 10%**

Price on request | EcoSolaris technical support · Dubai

Technical specifications

Ordering code	AL-073-03-GR-FD
Application	TLOF perimeter lights (touchdown and lift-off area)
Light colour	Green
Power consumption	4.5 W
48 VDC supply	from controller, dimmable 100%, 30%, 10%
Mains supply	90–230 V, 50/60 Hz, non-dimmable
Constant-current supply	1.4 A CC, dimmable 100%, 30%, 10% (internal bypass + SPD)
Horizontal output	360°
Intensity 2°–5° (required / measured)	min. 15 cd / 37.2 cd
Intensity 5°–10° (required / measured)	min. 30 cd / 43.6 cd
Intensity 10°–13° (required / measured)	min. 15 cd / 35 cd
Intensity 13°–20° (required / measured)	min. 8 cd / 47.2 cd
Intensity 20°–90° (required / measured)	min. 3 cd / 37.5 cd
Chromaticity coordinates	x = 0.145; y = 0.701
Dimensions (L × W × H)	405 × 200 × 25 mm
Weight	2.5 kg
Cable protection	aluminium profile AL-119-AX, 2.2 kg/m
Fixing	M10 welded bolts or M10 threaded holes in the metal platform
Degree of protection	IP68
Operating temperature	-55 °C to +55 °C
Humidity	0–100%
Estimated LED lifetime	100,000 h

Features

- FD version: cables run on the surface inside aluminium protection profiles – no drilling of the deck for cable routes
- Electrical connections inside the housing in a gel-filled junction box (code 201-2593)
- Very low profile – no obstacle for helicopter wheels
- High-power LEDs with an estimated lifetime of 100,000 hours
- Three intensity steps (100%, 30%, 10%) with 48 VDC or 1.4 A CC supply
- Designed for simplicity and ease of maintenance

Standards and compliance

- ICAO Annex 14, Volume I – Aerodromes (design and operations)
- ICAO Annex 14, Volume II – Heliports
- IEC TS 61827 – Electrical installations for lighting and beaconing of aerodromes; characteristics of inset and elevated luminaires used on aerodromes and heliports
- Salt mist tested (Ka test) according to IEC 60068-2-11 and IEC 60068-2-25
- Chromaticity coordinates within the colour range required by ICAO Annex 14, Vol. I, fig. A1-1b (solid-state aeronautical ground lights)

Materials and construction

- Housing in powder-coated aluminium, RAL 1004 (aviation yellow)
- Hardened glass disperser
- Disperser flange – nickel-plated ring
- Nickel-plated brass cable gland
- Stainless steel fasteners
- Anti-condensation valve
- UV protected

Configuration options

- Power supply: 48 VDC from controller (dimmable 100%, 30%, 10%), 48 VDC non-dimmable or 110–230 VAC, 50/60 Hz non-dimmable
- Cable length: 1 m or 2 m
- Cable gland: chrome-plated, stainless steel or plastic
- Case: standard or with a case under the flat light connected by a short cable
- Electrical junction box: none, with simple terminals, or with terminals + varistor + fuse
- Snow plug protection: optional

Ordering code structure

AL - 073 - 03 - GR - FD

AL	Series indicator (airfield lighting)
073	Product indicator (Flat TLOF)
03	Number of LEDs: 3
GR	Light colour: green
FD	Surface-mounting fixture with integrated junction box and cable protected in an aluminium profile

Compatible accessories

AL-119-AX	Aluminium cable protection profile (2.2 kg/m)

Applications

TLOF perimeter (touchdown and lift-off area) · **Elevated heliports on hospitals and high-rise buildings** · **Existing solid decks where drilling is not possible** · **Metal heliport decks and offshore platforms**