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TECHNICAL DATASHEET · HELIPORT LIGHTING · FLAT LIGHT

# Flat FATO / Aiming Light

EcoSolaris code **ECO-AL-1319** | Ordering code **AL-071-04-WH-F** | **Made in Romania** Manufactured in the EU





Low-profile omnidirectional white light for marking the FATO (Final Approach and Take-Off area) perimeter and the aiming point. The F version mounts on any hard flat surface (concrete, asphalt, metallic structures); the pre-cabled fixture has a sufficiently long cable routed through a channel outside the heliport area and connected via a metallic junction box (AL-139-AX). It suits elevated heliports with space under the platform for electrical connections.

| ORDERING CODE | LIGHT COLOUR |
|---|---|
| **AL-071-04-WH-F** | **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-071-04-WH-F |
| **Light colour** | white, steady |
| **Horizontal output** | 360° |
| **Intensity levels** | 100%, 30%, 10% (48 V DC or 1.4 A CC versions) |
| **Power consumption** | 8.4 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 |
| **Diameter** | 200 mm |
| **Height** | 23.26 mm without cable gland; 44 mm with cable gland |
| **Weight** | 1.5 kg |
| **Electrical connection** | pre-cabled fixture + AL-139-AX metallic junction box |
| **Estimated LED lifetime** | 100,000 hours |
| **Trichromatic coordinates** | x = 0.347; y = 0.370; z = 0.283 |
| **Intensity at 0° (required / measured min.)** | 10 / 40.3 cd |
| **Intensity at 3° (required / measured min.)** | 100 / 104 cd |
| **Intensity at 10° (required / measured min.)** | 100 / 158 cd |
| **Intensity at 20° (required / measured min.)** | 100 / 209 cd |
| **Intensity at 25° (required / measured min.)** | 50 / 223 cd |
| **Intensity at 30° (required / measured min.)** | 10 / 196 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
- Very low profile: 23.26 mm without cable gland

## 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 4 – 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

## 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 - 071 - 04 - WH - F**

| | |
|---|---|
| **AL** | Series: airfield lighting |
| **071** | Product indicator: aiming point and FATO lights |
| **04** | Number of LEDs |
| **WH** | LED colour: white |
| **F** | Surface-mounting fixture |

## Compatible accessories

| | |
|---|---|
| **AL-139-AX** | Metallic electrical junction box |

## Applications

**FATO perimeter marking** · **Aiming point marking** · **Elevated heliports (hospitals, buildings)** · **Ground-level heliports on concrete or asphalt** · **Metal structures with access under the platform**