

# Flat TAXI - FD

Taxiway lights



**Compliance to standards**

**ICAO:**

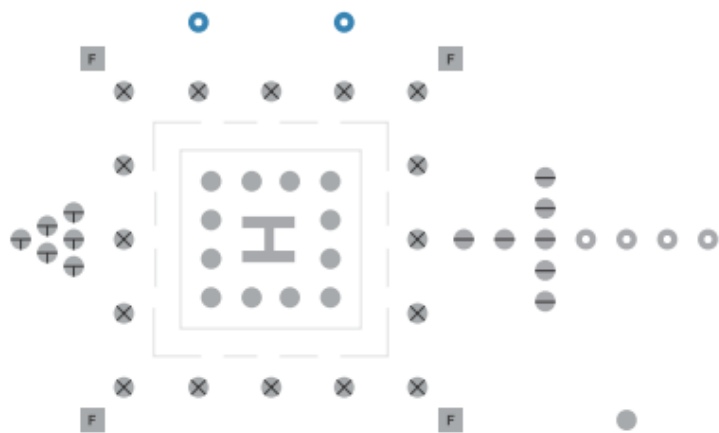
Annex 14, Volume I - Aerodrome Design and Operations  
Annex 14, Volume II - Heliports

**IEC TS 61827:**

Electrical installations for lighting and beaconing of aerodromes.  
Characteristics of inset and elevated luminaires used on aerodromes and heliports

**Application**


Taxiway lights



- ⊕ Aiming Point Lights
- ⊗ FATO Lights
- Ⓜ Floodlights
- Approach Lights
- Taxiway Lights
- TLOF Lights
- Approach
- Beacon Light

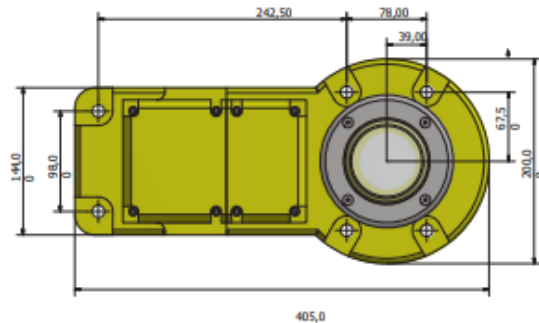
**Features**

Designed and built with simplicity and ease of maintenance in mind.  
High power LED technology.  
Lightweight, low-energy and environment friendly lighting fitting.  
Extensive use of aluminium alloys reduces fitting weight and eases handling in the field.

<b>Product Code</b>	<p><b>AL - 072 - 03 - BL - FD</b></p> <p>Series Indicator (Airfield Lighting) <b>AL</b>  Product Indicator <b>072</b>  LEDs Number (3 LEDs) <b>03</b>  LEDs Light Colour (blue) <b>BL</b>  Indicative for surface mounting fixture <b>FD</b></p>
<b>Description</b>	<p><b>Housing</b> - Powder coated aluminium RAL 1004 (aviation yellow) </p> <p><b>Dispenser</b> - hardened glass</p> <p><b>Dispenser flange</b> - nickel plated ring</p> <p><b>Cable gland</b> - nickel plated brass</p> <p><b>Fasteners</b> - stainless steel</p> <p>Light fixtures are provided with anti condensation valve.  Light fixtures are UV protected.</p>
<b>Environment</b>	<p><b>Temperature range:</b> - 55° to +55°</p> <p><b>Degree of protection:</b> IP X8</p> <p><b>Ka tested:</b> Salt mist in accordance with IEC 60068-2-11 and IEC 60068-2-25</p>
<b>Mounting</b>	<p>Light fixtures are designed to be mounted on any hard flat surface, such as:</p> <ul style="list-style-type: none"> <li>• concrete</li> <li>• asphalt</li> <li>• metallic structures</li> </ul>

## Mechanical Characteristics

**Length / Width:** 405 mm / 200 mm  
**Height:** 23.5  
**Weight:** 2.5 kg



Installation of lighting fixture and cable protection:

- with M10 welded bolts on the metallic platform
- with M10 threaded holes in the metal platform

## Electrical Characteristics

**Power consumption** 6W  
**Power supply** 48V DC from controller - dimmable : 100% ,30%, 10%  
90-230V, 50/60Hz - non dimmable

### Types of power supply :

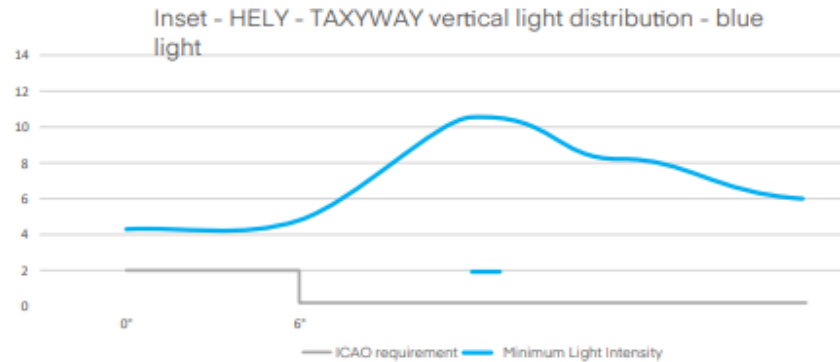
- 48V DC power supply from controller with 3 core cable
  - V+** (brown)
  - V-** (blue)
  - Dimming** (green/yellow)
- 230V AC directly from mains power supply
  - Live** (brown)
  - Neutral** (blue)
  - Ground** (green/yellow)

The light fixtures will be provided with sufficient length cable, which will be laid through a channel outside the heliport area, where it will be electrically con-nected using an IP65-rated junction box.  
The power cable will be protected by an aluminium profile with a weight of 2.2kg/m.

## Photometric Characteristics

**Intensity level:** 100%, 30%, 10% with controller in 48VDC  
**Horizontal output:** 360°  
**Light colour:** Blue light

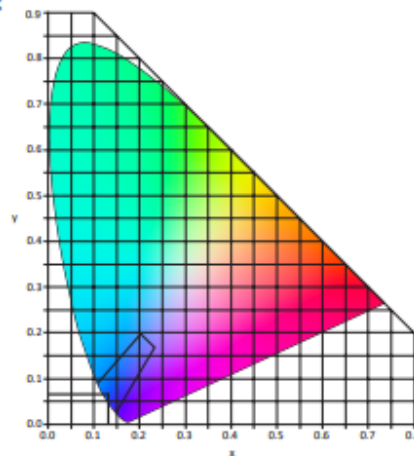
Vertical elevation angle	0°-6°	>6°
Required minimum intensity [cd]	2	0.2
Measured minimum intensity [cd]	4.3	10.6



**The brightness intensity values complies with :**

ICAO requirements Annex 14 Vol.2 fig.5-11/6

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



$x=0,135$

$y=0,056$

$z=0,809$

**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)

Spare Parts

