

ELEVATED TAXI



Compliance to standards

ICAO:

International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1

ICAO:

Annex 14, Volume II - Heliports

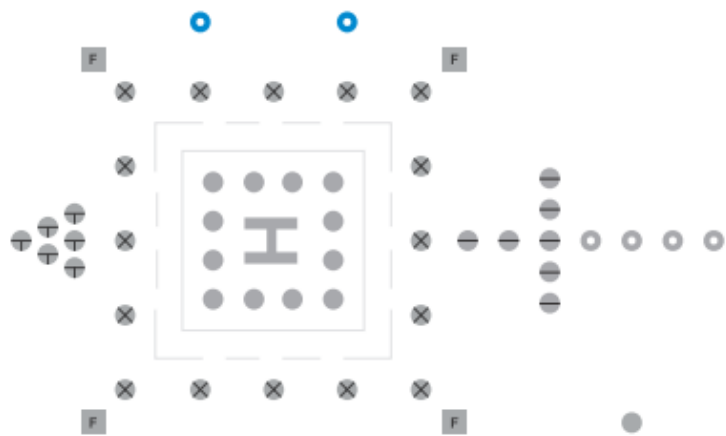
IEC TS 61827:

Electrical installations for lighting and beaconing of aerodromes.

Characteristics of inset and elevated luminaires used on aerodromes and heliports

Application





Taxiway lights



- ⊕ Aiming Point Lights
- ⊗ FATO Lights
- Floodlights
- Approach Lights
- Taxiway Lights
- TLOF Lights
- ⊖ Approach Lights
- 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.

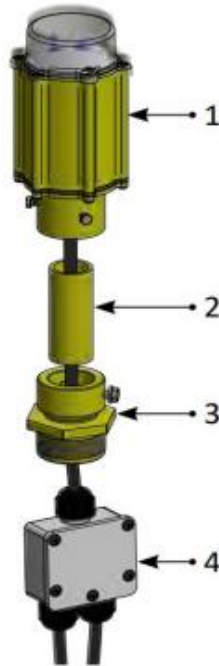
| | |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Product Code</p> | <p>AL - 010 - 02 - BL</p> <p>Series Indicator (Airfield Lighting) AL Product Indicator 010 LEDs Number 02 LEDs Light Colour (blue) BL</p> |
| <p>Description</p> | <p>Housing - Powder coated aluminium RAL 1004 (aviation yellow) </p> <p>Dispenser - clear polycarbonate</p> <p>Cable gland - nickel plated brass</p> <p>Fasteners - stainless steel</p> <p>Light fixtures are provided with anti condensation valve.</p> |
| <p>Environment</p> | <p>Temperature range: - 55° to +55°</p> <p>Degree of protection: IP X8</p> <p>Ka tested: Salt mist</p> |
| <p>Mounting</p> | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Φ160mm ElectroMax Shallow Base</p>  </div> <div style="text-align: center;"> <p>Φ8" IEC type Shallow Base with Adapter Ring</p>  </div> <div style="text-align: center;"> <p>Mounted on Φ160mm Base</p>  </div> </div> |

Electrical Characteristics

Power consumption: 4.5W

Power supply: 48V DC from controller - dimmable: 100%, 30%, 10%
90-230V, 50/60HZ - non dimmable
1.4A CC - dimmable: 100%, 30%, 10%(internal bypass + SPD)

Electrical Connections



1.Light Fixture pre cabled with 0,5m cable

Code:AL-010-02-BL

2. Ø32 mm Coupling Tube

Code:AL-100-AX

3.Frangible Coupling

Code:AL-101-AX

4.IP68 Electrical Junction Box

Code:AL-107-AX

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)

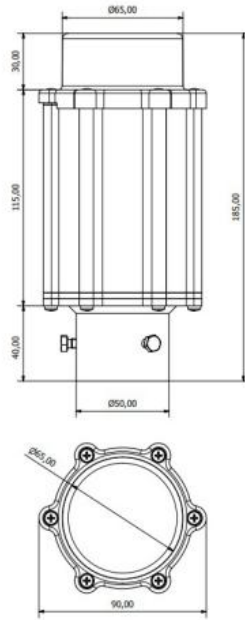
-1.4A CC power supply from controller with 2 core cable
V+ (red mark)
V- (blue mark)

Mechanical Characteristics

Diameter: 65 mm

Total height: 185 mm

Weight: 1 kg



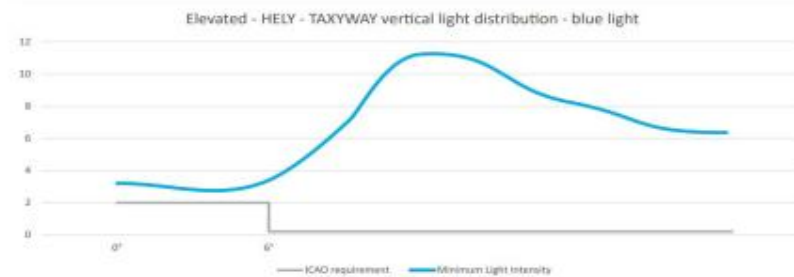
Photometric Characteristics

Intensity level: 100%, 30%, 10% version powered in 48 VDC or 1.4A CC

Horizontal output: 360°

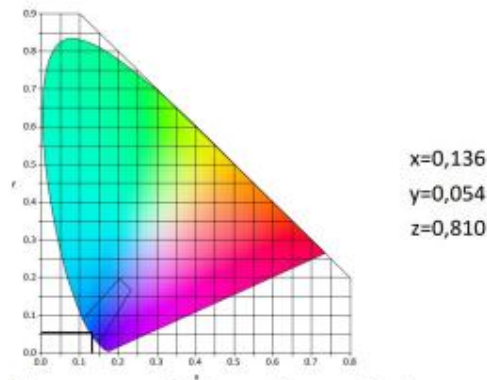
Light colour: Blue light

| | | |
|----------------------------------|-------|------|
| Vertical elevation angle: | 0 - 6 | >6 |
| Required minimum intensity [cd]: | 2 | 0.2 |
| Measured minimum intensity [cd]: | 3.4 | 11.4 |



The brightness intensity values complies with:
ICAO requirements Annex 14 Vol.1 cap.5.3.18.8

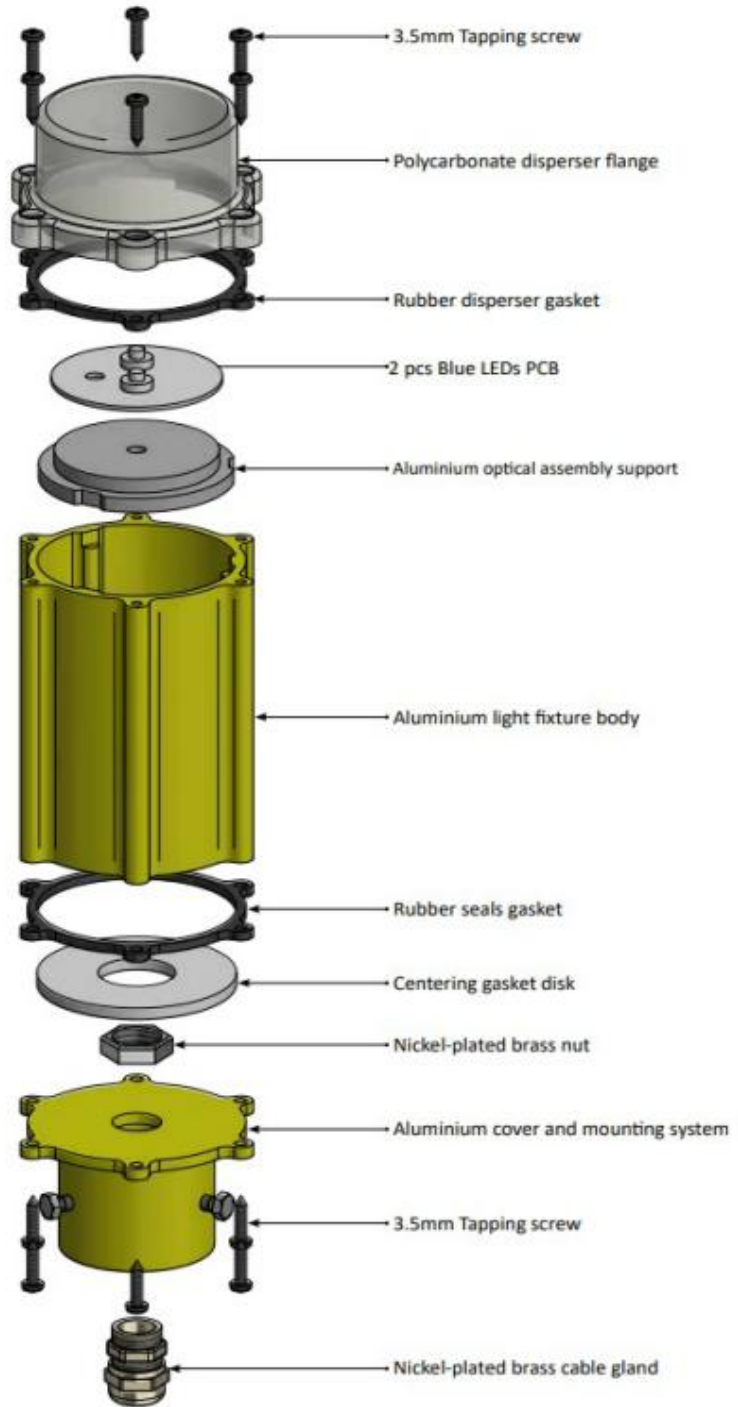
The light colour emitted by the light fixture is blue, with the trichromatics coordinates:



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



Accessory

| # | NAME - SERIES | PRODUCT CODE | IMAGE |
|---|-----------------------------------------|--------------|---------------------------------------------------------------------------------------|
| 1 | Φ32 mm Coupling Tube | AL-100-AX |  |
| 2 | Frangible Coupling | AL-101-AX |  |
| 3 | Φ260mm Base Plate | AL-102-AX |  |
| 4 | Mounting Flange | AL-103-AX |  |
| 5 | ElectroMax Standard Φ160mm Shallow Base | AL-104-AX |  |
| 6 | Adapter Ring for 8" Shallow Base | AL-105-AX |  |
| 7 | Φ160mm Surface Mounted Base | AL-106-AX |  |
| 8 | IP68 Electrical Junction Box | AL-107-AX |  |
| 9 | Φ160mm Shallow Base Installation Jig | AL-108-AX |  |