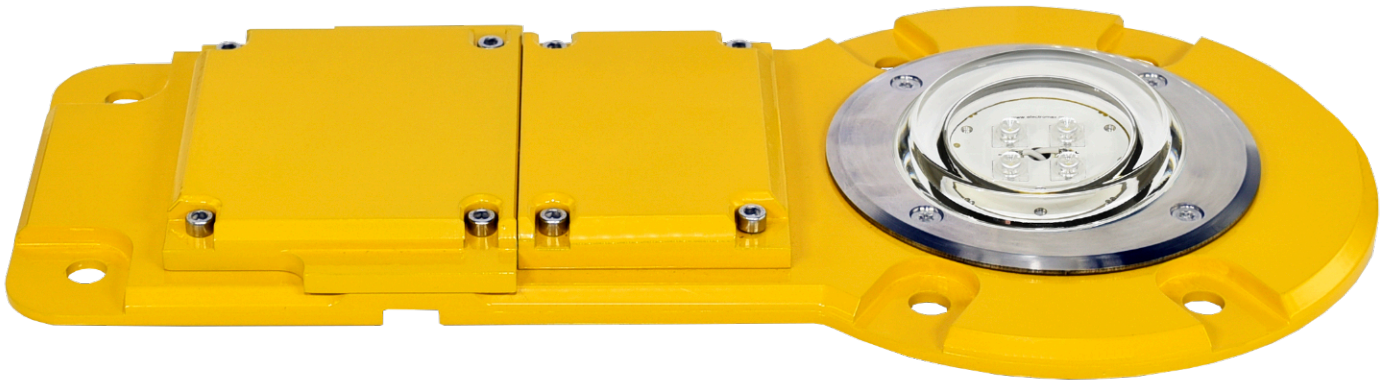
Flat Fato Aiming - FD



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Compliance to Standards

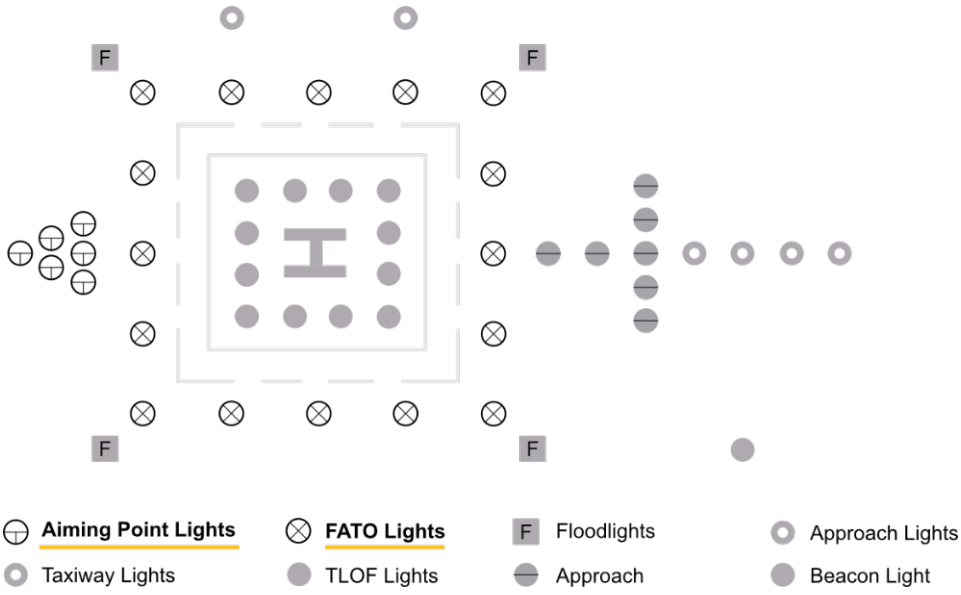
ICAO:
International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1

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

Aiming point and FATO lights (Final Approach and Take Off Area)



Features

Designed and built with simplicity and ease of maintenance in mind.

High-power LED technology with an estimated lifetime of 100,000 hours.

Lightweight, low-energy and environment friendly lighting fitting. Extensive use of aluminium alloys reduces fitting weight and eases handling in the field.

Product Code

AL - 071 - 04 - WH - FD

Series Indicator (Airfield Lighting)	**AL**
Product Indicator	**071**
LEDs Number	**04**
LEDs Light Color (White)	**WH**
Indicative for surface mounting fixture	**FD**

Description

Housing - Powder coated aluminium RAL 1004 (aviation yellow)
Disperser - hardened glass
Disperser flange - nickel plated ring
Cable gland - nickel plated brass
Fasteners - stainless steel

Light fixtures are provided with anti condensation valve.
Light fixtures are UV protected.

Environment

Temperature range:	-55° to +55°
Degree of protection:	IP68
Humidity:	0-100%
Ka tested:	Salt mist - in accordance with: IEC 60068-2-11 & IEC 60068-2-25

Mounting

Light fixtures are designed to be mounted on any hard flat surface, such as:

- ☑ Concrete
- ☑ Asphalt
- ☑ Metallic structures

Electrical Characteristics

Power consumption: 8.4 W
Power supply:
48 VDC from controller - dimmable: 100%, 30%, 10%
90-230 V, 50/60 Hz - non dimmable
1.4 A CC - dimmable: 100%, 30%, 10% (internal bypass + SPD)

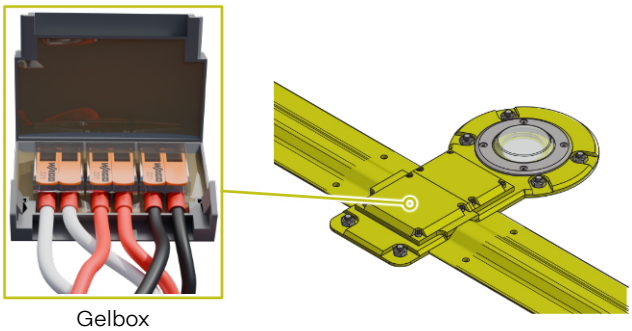
Types of power supply:

48 VDC power supply from controller with 3 core cable
V+ (brown)
V- (blue)
Dimming (green/yellow)

230 VAC directly from mains power supply
Live (brown)
Neutral (blue)
Ground (green/yellow)

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

Electrical connections are made inside the housing using a gel-filled junction box (gelbox).



Gelbox
Code: 201-2593

The light fixture is supplied with a sufficiently long cable, which is routed through a channel outside the heliport area.

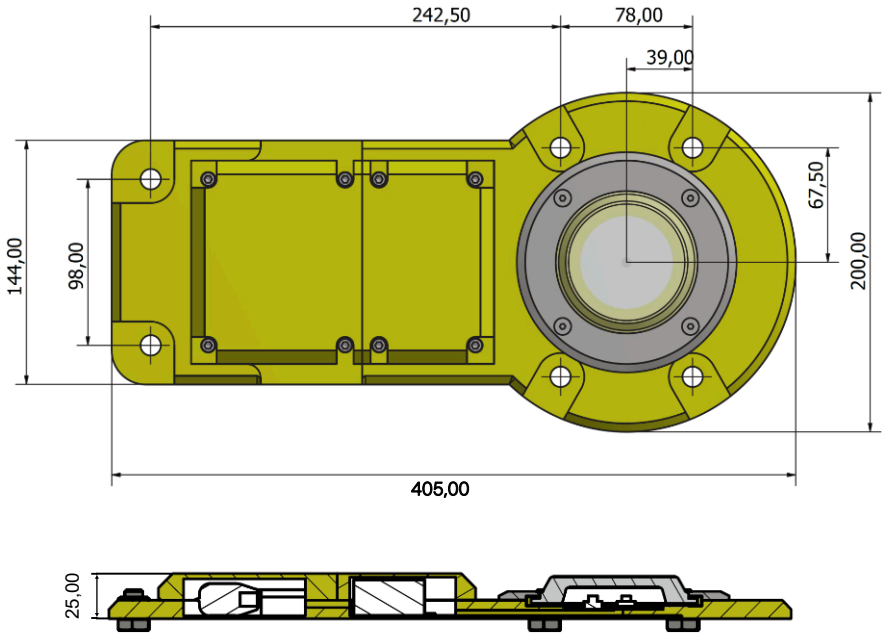
The power cable will be protected by an aluminum cable protection with a weight of 2.2 kg/m.



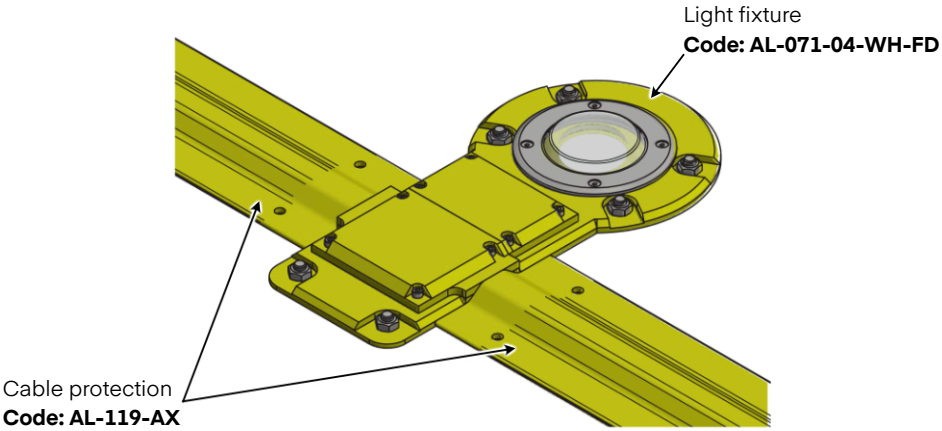
Cable protection
Code: AL-119-AX

Mechanical Characteristics

Lenght: 405 mm
Width: 200 mm
Height: 25 mm
Weight: 2.5 kg



Installation of lighting fixture and cable protection:
- with M10 welded bolts on the metalic platform
- with M10 threaded holes in the metal platform



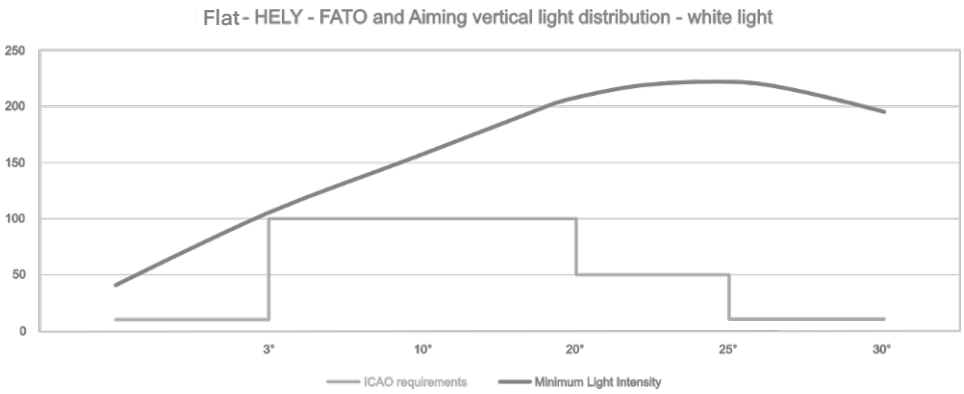
Photometric Characteristics

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

Horizontal output: 360°

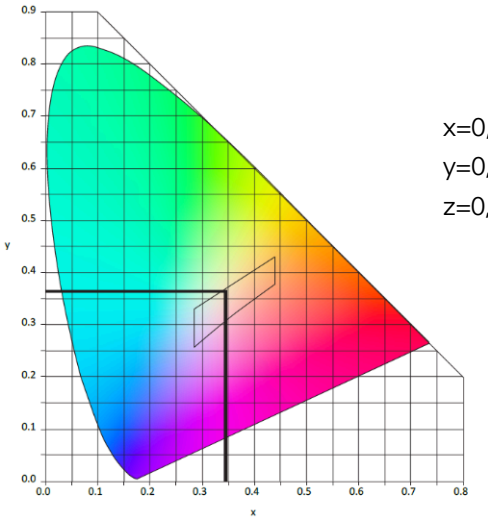
Light color: White

Vertical elevation angle	0°	3°	10°	20°	25°	30°
Required minimum intensity [cd]	10	100	100	100	50	10
Measured minimum intensity [cd]	40.3	104	158	209	223	196



The brightness intensity values complies with:
ICAO requirements Annex 14 Vol.2 fig. 5-12, illustration 4.

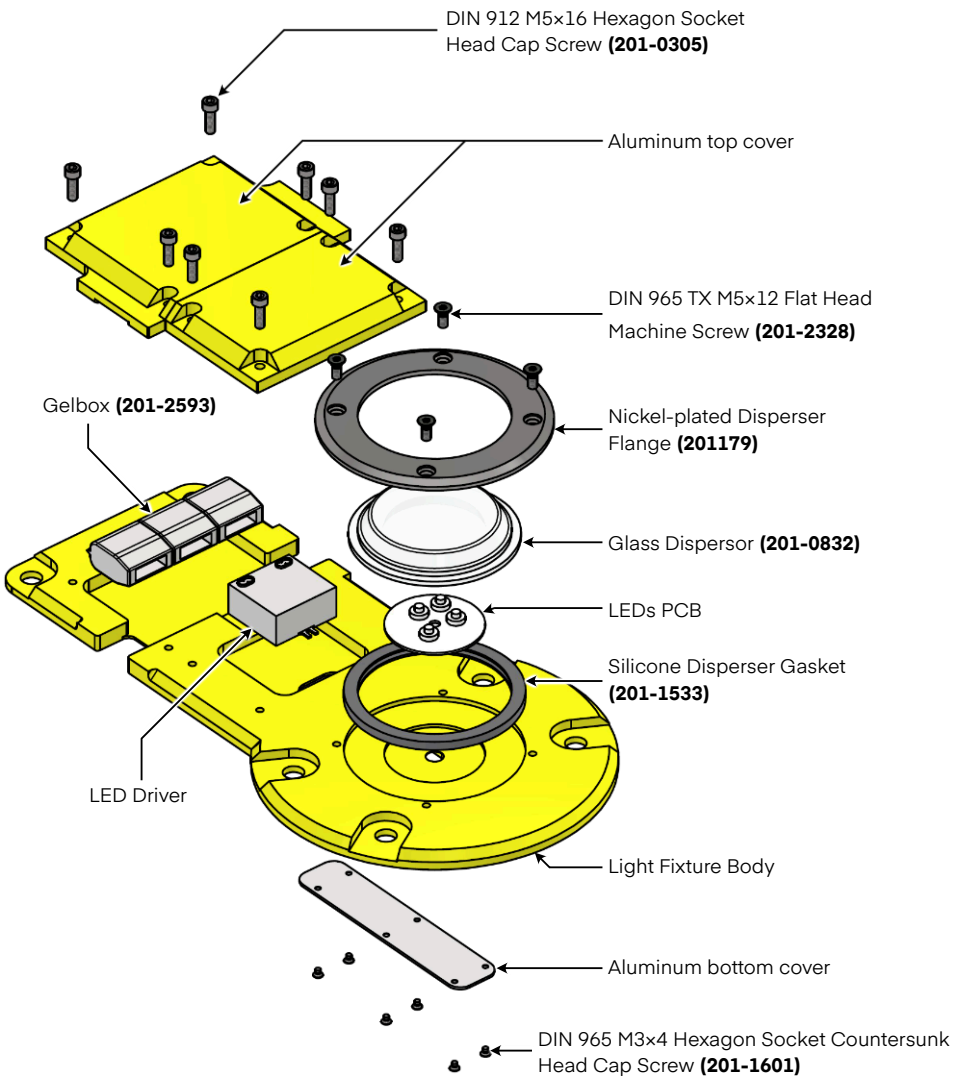
The light color emitted by the light fixture is white, with the following trichromatic coordinates:



x=0,347
y=0,370
z=0,283

The measured trichromatic coordinates correspond to color range requirements in:
ICAO Annex 14 - Aerodromes Vol.1, fig, A1-1b. Colors for aeronautical ground lights (solid state lighting)

Spare Parts


DIN 912 M5×16 Hexagon Socket Head Cap Screw **(201-0305)**
Aluminum top cover
DIN 965 TX M5×12 Flat Head Machine Screw **(201-2328)**
Gelbox **(201-2593)**
Nickel-plated Disperser Flange **(201179)**
Glass Dispersor **(201-0832)**
LEDs PCB
Silicone Disperser Gasket **(201-1533)**
LED Driver
Light Fixture Body
Aluminum bottom cover
DIN 965 M3×4 Hexagon Socket Countersunk Head Cap Screw **(201-1601)**

Accessory

To order accessories please call our customer support. For contact details please refer to our website - www.signalight.com

#	Name - Series	Product Code	Image
1	Cable protection	AL-119-AX	



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