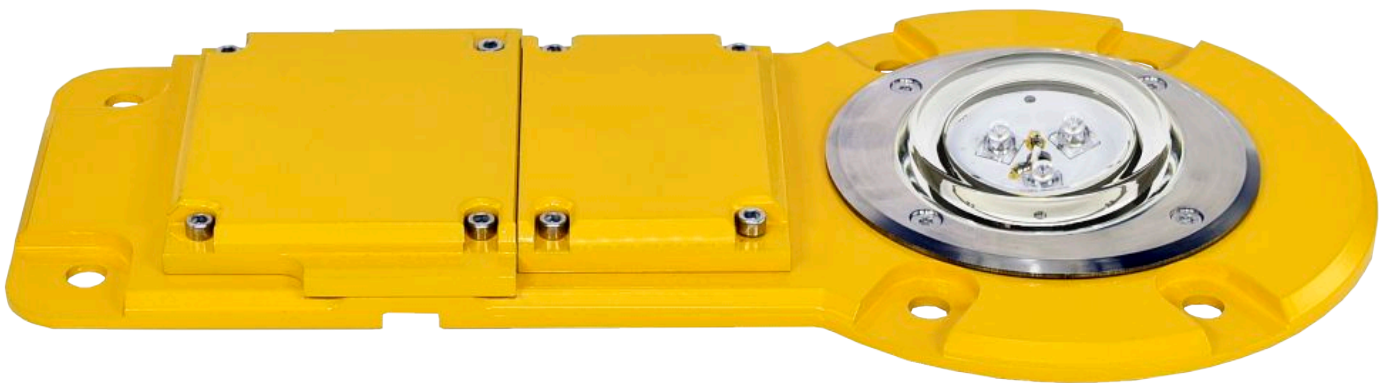
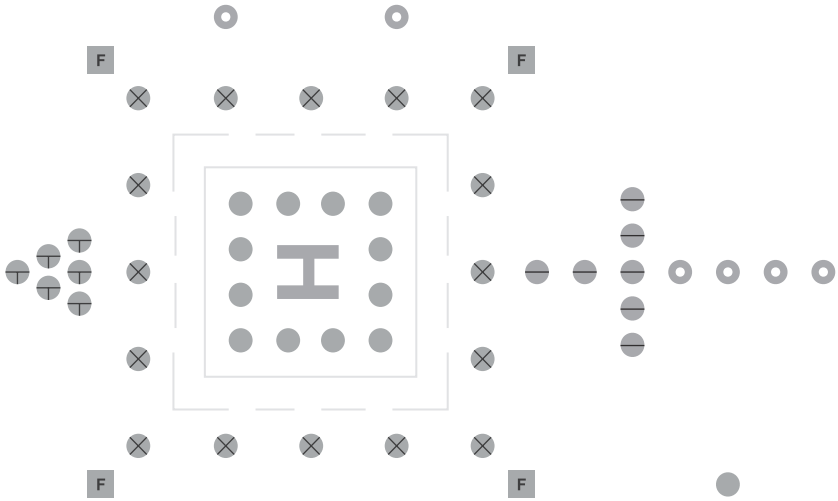



# Flat ALIGNMENT - FD



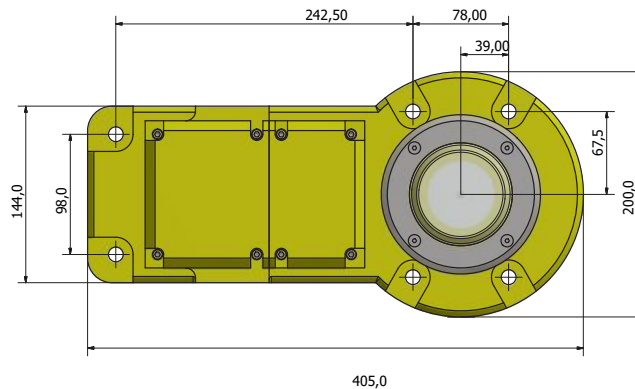
Constructive variant for metal platforms

<p><b>Compliance to standards</b></p>	<p><b>ICAO:</b> Annex 14, Volume I - Aerodrome Design and Operations Annex 14, Volume II - Heliports</p> <p><b>IEC TS 61827:</b> Electrical installations for lighting and beaconing of aerodromes. Characteristics of inset and elevated luminaires used on aerodromes and heliports</p>
<p><b>Application</b></p>	<p>TLOF lights (Touchdown and Lift Off Area Perimeter) and ALIGNMENT guidance lighting system.</p>  <ul style="list-style-type: none"> <li>⊕ Aiming Point Lights</li> <li>⊗ FATO Lights</li> <li>ⓕ Floodlights</li> <li>⦿ Approach Lights</li> <li>○ Taxiway Lights</li> <li>■ TLOF Lights</li> <li>⊖ Approach</li> <li>● Beacon Light</li> </ul>
<p><b>Features</b></p>	<p>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>

<b>Product Code</b>	<p><b>AL - 075 - 03 - WH - FD</b></p> <table> <tr> <td>Series Indicator (Airfield Lighting)</td><td><b>AL</b></td></tr> <tr> <td>Product Indicator</td><td><b>075</b></td></tr> <tr> <td>LEDs Number (3 LEDs)</td><td><b>03</b></td></tr> <tr> <td>LEDs Light Colour (cool white)</td><td><b>WH</b></td></tr> <tr> <td>Indicative for surface mounting fixture</td><td><b>FD</b></td></tr> </table>	Series Indicator (Airfield Lighting)	<b>AL</b>	Product Indicator	<b>075</b>	LEDs Number (3 LEDs)	<b>03</b>	LEDs Light Colour (cool white)	<b>WH</b>	Indicative for surface mounting fixture	<b>FD</b>
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LEDs Light Colour (cool white)	<b>WH</b>										
Indicative for surface mounting fixture	<b>FD</b>										
<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>	<table> <tr> <td><b>Temperature range:</b></td><td>- 55<sup>0</sup> to +55<sup>0</sup></td></tr> <tr> <td><b>Degree of protection:</b></td><td>IP X8</td></tr> <tr> <td><b>Ka tested:</b> Salt mist</td><td>in accordance with IEC 60068-2-11 and IEC 60068-2-25</td></tr> </table>	<b>Temperature range:</b>	- 55 <sup>0</sup> to +55 <sup>0</sup>	<b>Degree of protection:</b>	IP X8	<b>Ka tested:</b> Salt mist	in accordance with IEC 60068-2-11 and IEC 60068-2-25				
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<b>Ka tested:</b> Salt mist	in accordance with IEC 60068-2-11 and IEC 60068-2-25										
<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 :** 200 mm  
**Height:** 23.5 mm  
**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)

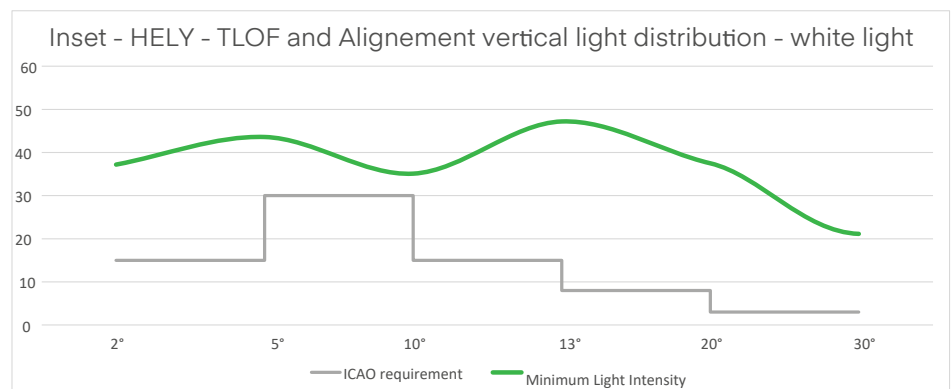
The light fixtures will be provided with sufficient length cable, which will be laid through a channel outside the heliport area, where it will be electrically connected using an IP65-rated junction box.

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:** Green light

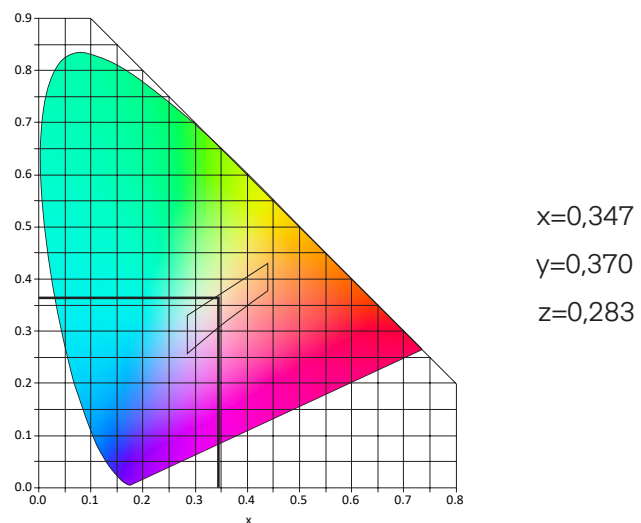
Vertical elevation angle	2°-5°	5°-10°	10°-13°	13°-20°	20°-90°
Required minimum intensity [cd]	15	30	15	8	3
Measured minimum intensity [cd]	37.2	43.6	35	47.2	37.5



**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 white, with the trichromatic coordinates:**



**The measured trichromatic coordinates correspond to colour range requirements in:**

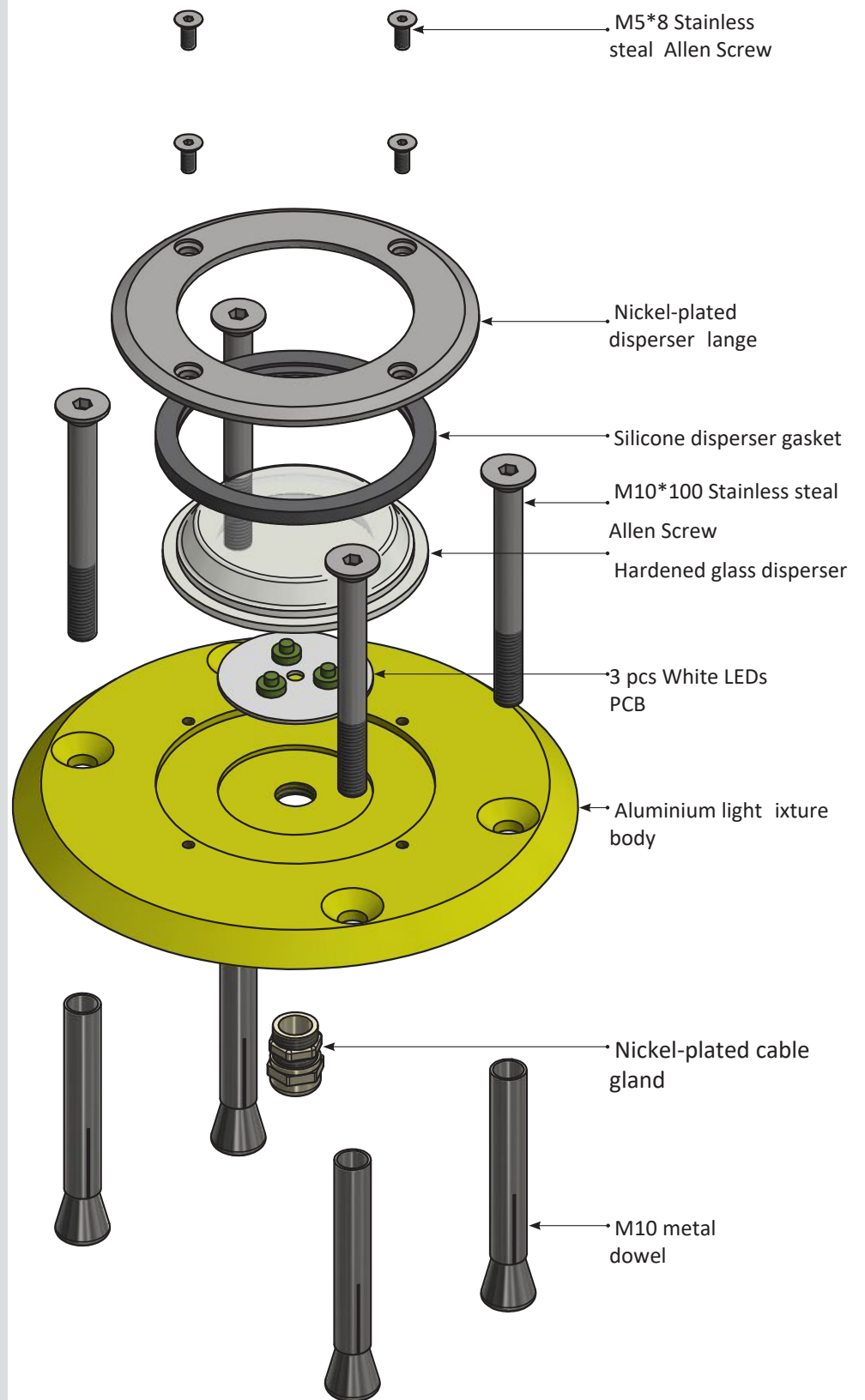
ICAO Annex 14 - Aerodromes Vol.1, fig. A1-1-1b.

Colours for aeronautical ground lights (solid state lighting)

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