



# WAGGY

Runway Guard Light



<p><b>Compliance to standards</b></p>	<p><b>ICAO:</b> Annex 14, Volume I - Aerodrome Design and Operations</p> <p><b>FAA:</b> AC 150/5345-53 - Specifications for runway and taxiway light fixtures AC 150/5345-46c - Airport winter safety and operations AC 150/5200-30 - Design and installation details for airport visual aids AC 150/5340-30 - Airport lighting equipment certification program</p> <p><b>MIL-STD-810F Military Standard:</b> Environmental test methods and engineering guidelines.</p>
<p><b>Application</b></p>	<p>High Intensity Runway Guard Ligh</p>
<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>
<p><b>Product Code</b></p>	<p><b>AL - XXX - 48 - XX - XX</b></p> <p>Series Indicator (Airfield Lighting) <b>AL</b></p> <p>Product Indicator <b>XXX</b></p> <p>    <b>026</b> - Input: 110/230Vac from mains</p> <p>    <b>037</b> - Input: 6.6A from CCR constant brightness</p> <p>    <b>063</b> - Input: 6.6A from CCR with brightness control</p> <p>    <b>079</b> - Power supply - 24 VDC</p> <p>LEDs Number (48 LEDs) <b>48</b></p> <p>LEDs Light Colour (cool white ) <b>XX</b></p> <p>    <b>RE</b> - Red Light - TWL (Traffic Warning Light)</p> <p>    <b>AM</b> - Amber Light - RGL (Runway Guard Light)</p> <p>Mounting type <b>XX</b></p> <p>    <b>FC</b> - Mounted on Standard 2" O.D. Frangible Coupling</p> <p>    <b>FB</b> - Mounted on Low Profile Frangible Bracket</p>

<p><b>Description</b></p>	<p><b>Housing</b> - Powder coated aluminium RAL 1004 (aviation yellow) </p> <p><b>Fastening system powder</b> - coated aluminium, RAL 1004 (aviation yellow)</p> <p><b>Anti glare visor powder</b> - coated aluminium, RAL 9005 (gloss black)</p> <p><b>Dispenser</b> - clear polycarbonate</p> <p><b>Cable gland</b> - nickel plated brass</p> <p><b>Fasteners</b> - stainless steel</p> <p>The RGL will operate at 100% brightness during the day. During the night the RGL brightness will decrease to 10% intensity, according to figure A2- 24 si A2-25 ICAO Annex 14/2016.</p> <p><b>Optional:</b> failure device - trigger alarm in case of one or more cluster fails</p>
<p><b>Environment</b></p>	<p><b>Temperature range:</b> - 40° to +55°</p> <p><b>Degree of protection:</b> IP 65</p> <p><b>Humidity</b> 0 - 100%</p> <p><b>Wind speed</b> up to 480 km/h</p>
<p><b>Mounting</b></p>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Standard 2" O.D. <b>Frangible Coupling</b></p> </div> <div style="text-align: center;">  <p>Low Profile <b>Frangible Bracket</b></p> </div> </div>

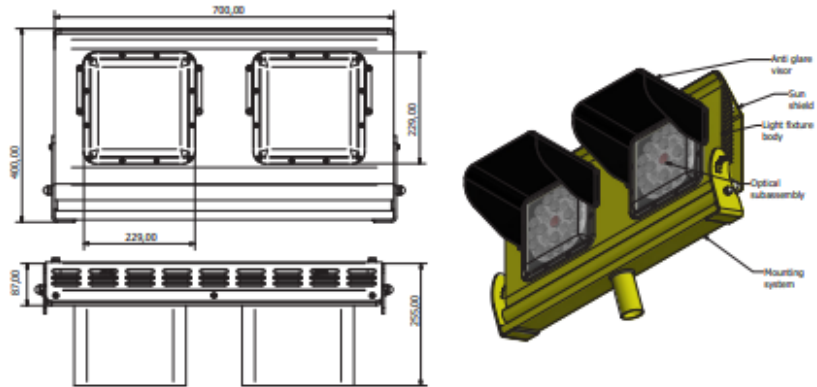
## Mechanical Characteristics

**Dimensions** 700 x 400 x 255 mm  
**Weight:** 22 kg

### Packaging:

The high intensity runway guard light is supplied in a ISPM 15 - compliant wooden crate.

**Crate dimensions:** 1010mm x 450mm x 400mm.  
**Total weight:** 28Kg



## Electrical Characteristics

**Power consumption** 20W  
**Power supply** 6.6A from CCR  
110/230VAC from mains AC parallel lighting circuit  
24 VDC

### Electrical Installation

The runway guard light can be supplied in either a 110/230V AC powered configuration, or a 6.6Amp AGL configuration. Please ensure that you connect the equipment to the correct supply.

#### Connecting to a 6.6Amp AGL circuit:

The 6.6A Waggy LED high intensity runway guard light is supplied with a 300mm flying lead and a factory fitted L-823 connector. The connector can be plugged directly into the secondary circuit of a 100W L-830 ground isolation transformer.

#### Connecting to a 110/230V AC supply:

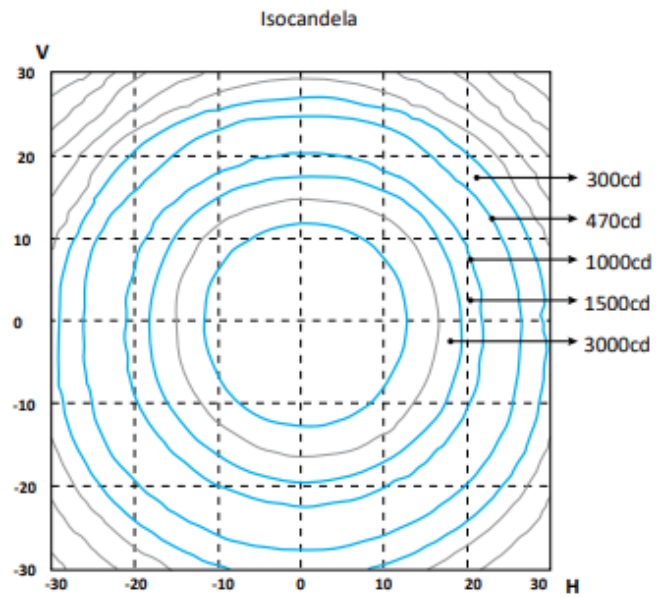
The 110/230V AC LED high intensity runway guard light is supplied with a 3-core (3 x 1.0mm<sup>2</sup>) 1m flying lead. The overall diameter of the cable is nominally 7.5mm. Connect the free ends of the cable to the proper voltage source.

#### Connecting to 24 VDC power supply:

The 24V DC LED high intensity runway guard light is supplied with a 2-core (2 x 1.0mm<sup>2</sup>) 1m flying lead. The overall diameter of the cable is nominally 7.5mm. Connect the free ends of the cable to the proper voltage source.

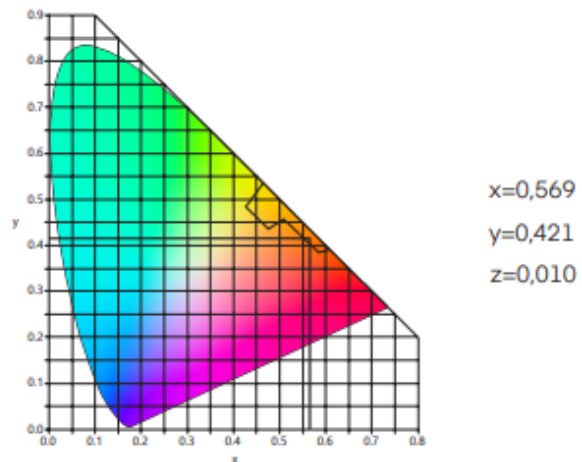
**Photometric Characteristics**

Light colour: Yellow light



The brightness intensity values complies with:  
**ICAO requirements Annex 14 Vol.1 Figure A2-25**

The light colour emitted by the light fixture is yellow, 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)