

## WAGGY – Elevated Runway Guard Lights



**Elevated Runway Guard Light – 6.6A / 110-230VAC / 24VDC**

## WAGGY – Elevated Runway Guard Lights

<b>Compliance standards</b>	<p>ICAO: Annex 14, Volume I - Aerodrome Design and Operations</p> <p>FAA: 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>MIL-STD-810F Military Standard: Environmental test methods and engineering guidelines.</p>																										
<b>Application</b>	High Intensity Runway Guard Light																										
<b>Features</b>	<p>Designed and built with simplicity and ease of maintenance in mind. High power LED technology.</p> <p>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>AL - XXX - 48 - XX - XX</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 70%;">Series Indicator (Airfield Lighting)</td> <td style="text-align: right;">AL</td> </tr> <tr> <td>Product Indicator</td> <td style="text-align: right;">XXX</td> </tr> <tr> <td style="padding-left: 20px;">026 - Input: 110/230Vac from mains</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">037 -Input: 6.6A from CCR constant brightness</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">063 - Input: 6.6A from CCR with brightness control</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">079 - Power supply - 24 VDC</td> <td></td> </tr> <tr> <td>LEDs Number (48 LEDs)</td> <td style="text-align: right;">48</td> </tr> <tr> <td>LEDs Light Colour (cool white )</td> <td style="text-align: right;">XX</td> </tr> <tr> <td style="padding-left: 20px;">RE - Red Light - TWL (Traffic Warning Light)</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">AM - Amber Light - RGL (Runway Guard Light)</td> <td></td> </tr> <tr> <td>Mounting type</td> <td style="text-align: right;">XX</td> </tr> <tr> <td style="padding-left: 20px;">FC - Mounted on Standard 2" O.D. Frangible Coupling</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">FB - Mounted on Low Profile Frangible Bracket</td> <td></td> </tr> </table>	Series Indicator (Airfield Lighting)	AL	Product Indicator	XXX	026 - Input: 110/230Vac from mains		037 -Input: 6.6A from CCR constant brightness		063 - Input: 6.6A from CCR with brightness control		079 - Power supply - 24 VDC		LEDs Number (48 LEDs)	48	LEDs Light Colour (cool white )	XX	RE - Red Light - TWL (Traffic Warning Light)		AM - Amber Light - RGL (Runway Guard Light)		Mounting type	XX	FC - Mounted on Standard 2" O.D. Frangible Coupling		FB - Mounted on Low Profile Frangible Bracket	
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<b>Description</b>	Housing - Powder coated aluminium RAL 1004 (aviation yellow)																										

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Fastening system powder - coated aluminium, RAL 1004 (aviation yellow) Anti-glare visor powder - coated aluminium, RAL 9005 (gloss black) Dispenser - clear polycarbonate  
 Cable gland - nickel plated brass  
 Fasteners - stainless steel

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.

Optional: failure device - trigger alarm in case of one or more cluster fails

<b>Environment</b>	Temperature range	-40° to +50°
	Degree of protection	IP65
	Humidity	0-100%
	Wind speed	Up to 480 Km/h

**Mounting**



Standard 2" frangible coupling

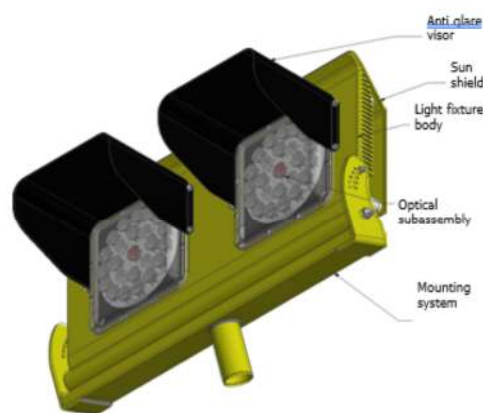
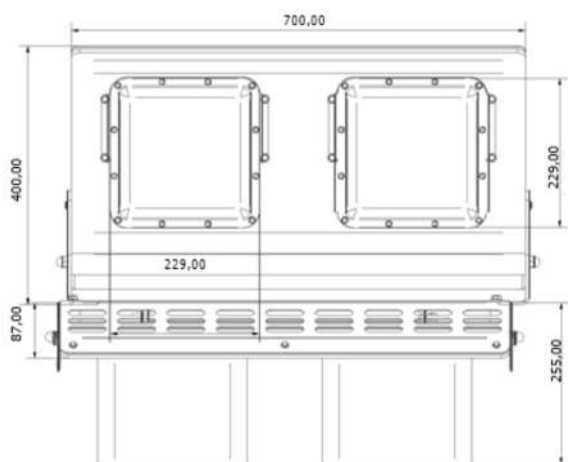


Low profile frangible bracket

<b>Mechanical Characteristics</b>	Dimensions :	700 x 400 x 255 mm
	Weight :	22 kg

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Packaging: The high intensity runway guard light is supplied in a ISPM 15 - compliant wooden crate.  
 Crate dimensions: 1.010 mm x 450 mm x 400 mm.  
 Total weight: 28 Kg



### 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

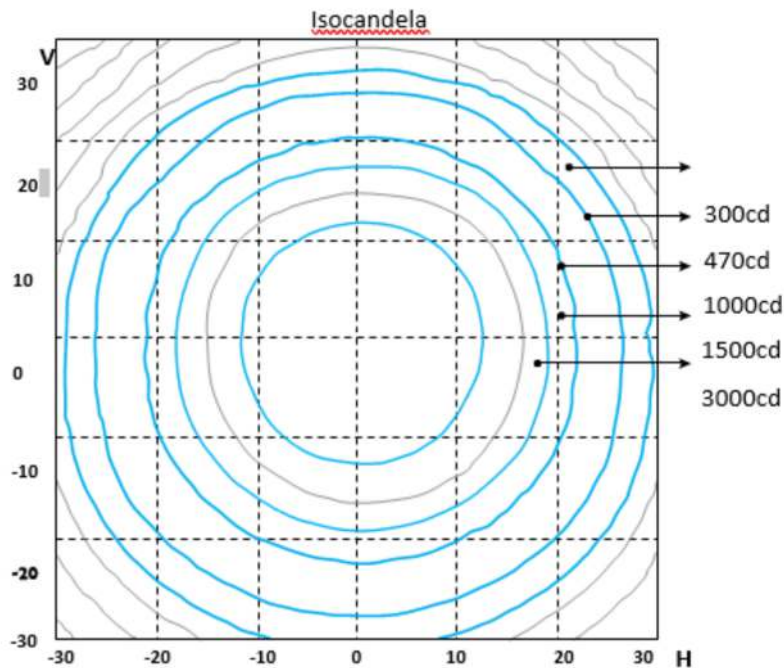
## WAGGY – Elevated Runway Guard Lights

voltage source.

Connecting to 24 VDC power supply:

The 24V DC LED high intensity runway guard light is supplied with a 2core (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

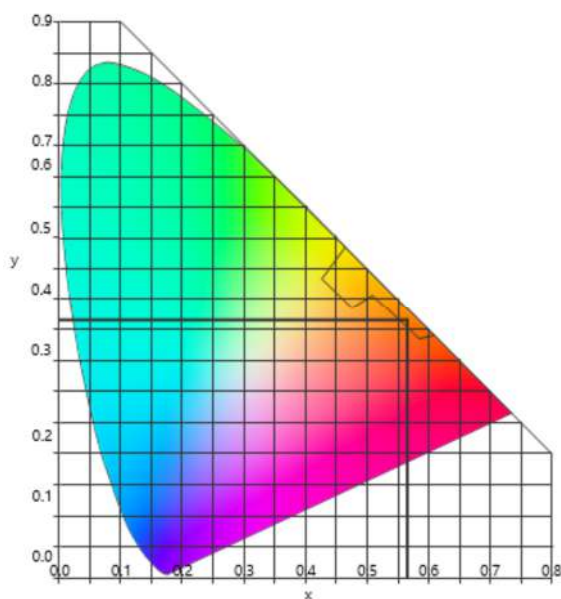


Light colour : Yellow Light

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

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



$x=0,569$

$y=0,421$

$z=0,010$

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)