




WAGGY

Runway Guard Light



Compliance to standards	<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>																										
Application	<p>High Intensity Runway Guard Light</p>																										
Features	<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>																										
Product Code	<p>AL - XXX - 48 - XX - XX</p> <table> <tr> <td>Series Indicator (Airfield Lighting)</td><td>AL</td></tr> <tr> <td>Product Indicator</td><td>XXX</td></tr> <tr> <td> 026 - Input: 110/230Vac from mains</td><td></td></tr> <tr> <td> 037 - Input: 6.6A from CCR constant brightness</td><td></td></tr> <tr> <td> 063 - Input: 6.6A from CCR with brightness control</td><td></td></tr> <tr> <td> 079 - Power supply - 24 VDC</td><td></td></tr> <tr> <td>LEDs Number (48 LEDs)</td><td>48</td></tr> <tr> <td>LEDs Light Colour (cool white)</td><td>XX</td></tr> <tr> <td> RE - Red Light - TWL (Traffic Warning Light)</td><td></td></tr> <tr> <td> AM - Amber Light - RGL (Runway Guard Light)</td><td></td></tr> <tr> <td>Mounting type</td><td>XX</td></tr> <tr> <td> FC - Mounted on Standard 2" O.D. Frangible Coupling</td><td></td></tr> <tr> <td> 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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Description	<div data-bbox="1380 347 1460 425" data-label="Image">  </div> <p> Housing - Powder coated aluminium RAL 1004 (aviation yellow) 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 </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>Optional: failure device - trigger alarm in case of one or more cluster fails</p>								
Environment	<table> <tr> <td>Temperature range:</td><td>- 40° to +55°</td></tr> <tr> <td>Degree of protection:</td><td>IP 65</td></tr> <tr> <td>Humidity</td><td>0 - 100%</td></tr> <tr> <td>Wind speed</td><td>up to 480 km/h</td></tr> </table>	Temperature range:	- 40° to +55°	Degree of protection:	IP 65	Humidity	0 - 100%	Wind speed	up to 480 km/h
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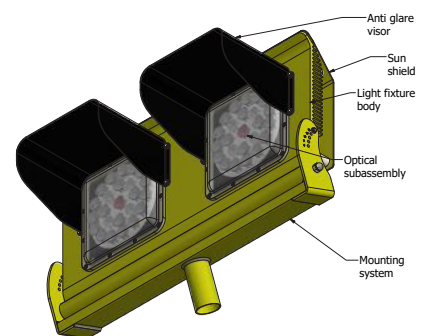
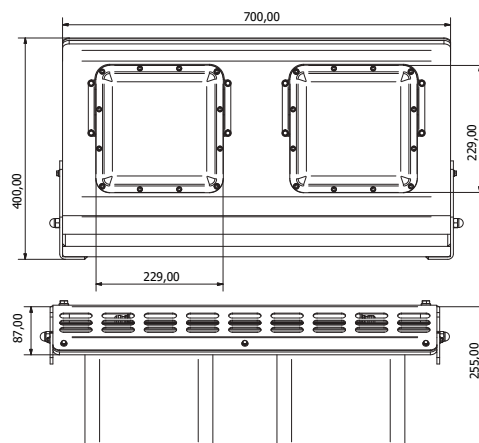
Mechanical Characteristics

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:

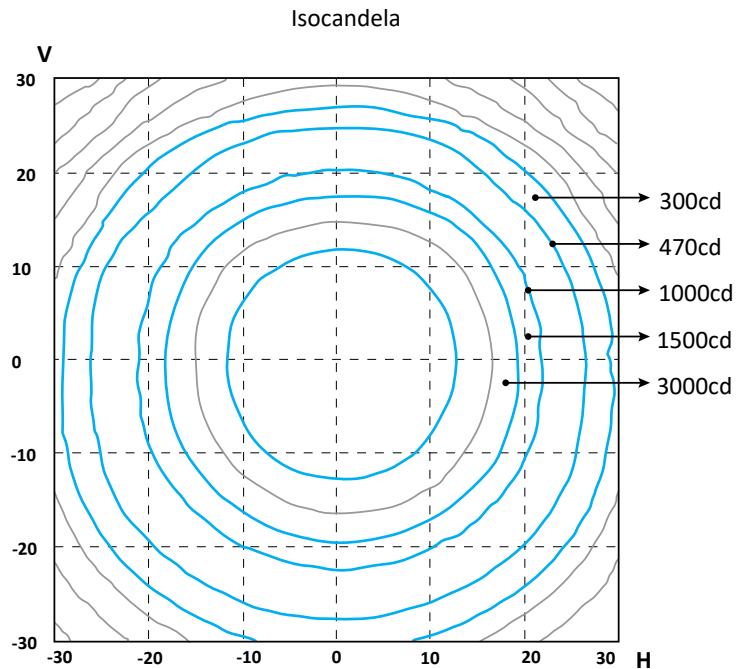
The 110/230V AC LED high intensity runway guard light is supplied with a 3-core (3 x 1.0mm²) 1m flying lead. The overall diameter of the cable is nominally 7.5mm. Connect the free ends of the cable to the proper voltage source.

Connecting to 24 VDC power supply:

The 24V DC LED high intensity runway guard light is supplied with a 2core (2 x 1.0mm²) 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**

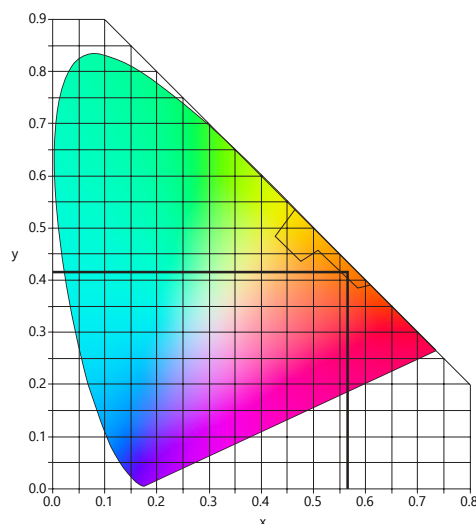
Light colour: Yellow light



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:



$x=0,569$

$y=0,421$

$z=0,010$

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)



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