


QUASAR

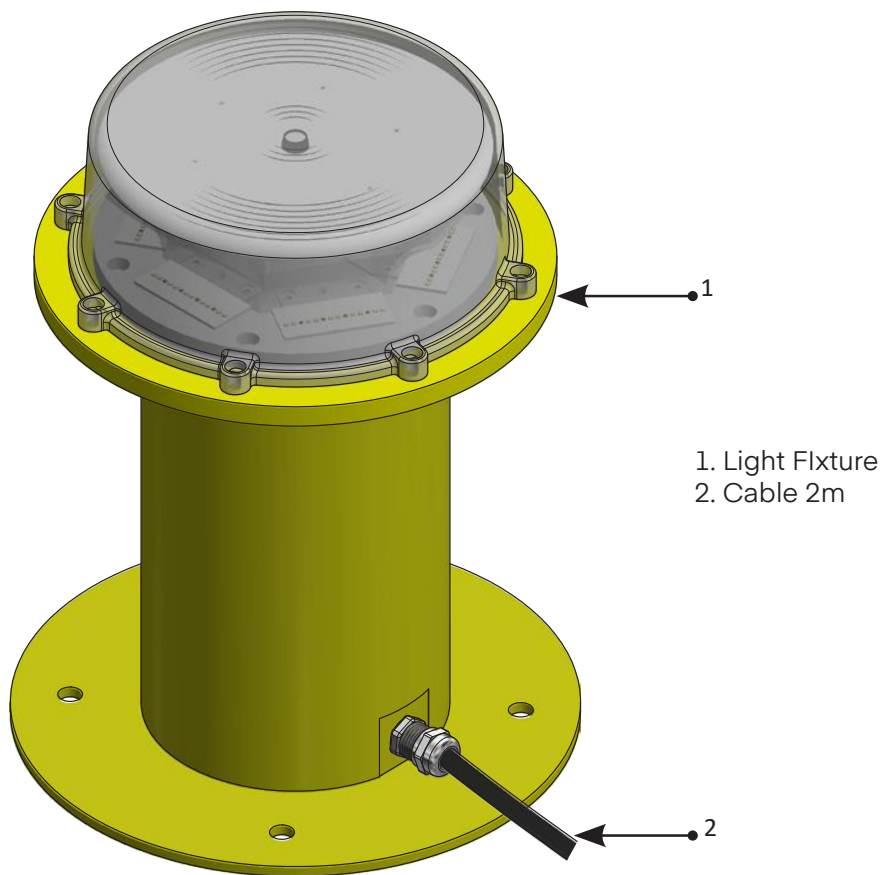


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|--------------------------------------|---|--------------------------------------|-----------|---------------------------------|------------|-------------------|-----------|--------------|------------|
| Compliance to standards | <p>ICAO: International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1 - Aerodrome Design and Operations, Paragraph 6</p> <p>Romania CAA (Romanian Civil Aeronautical Authority): -Type B - No. 9525 from 10.04.2017 -Type C - No. 5836 from 10.04.2017</p> | | | | | | | | |
| Application | <p>Marking of aerial obstacles, such as: towers, buildings, antennas</p> | | | | | | | | |
| Features | <p>Designed and built with simplicity and ease of maintenance in mind. High power LED technology in 100000 hours estimated lifetime. 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 - OBS - 21 - XXX</p> <table> <tr> <td>Series Indicator (Airfield Lighting)</td><td>AL</td></tr> <tr> <td>Category (Obstruction Lighting)</td><td>OBS</td></tr> <tr> <td>Product Indicator</td><td>21</td></tr> <tr> <td>Power Supply</td><td>XXX</td></tr> </table> <p> 230 - Power Supply: 100-230 VAC 048 - Power Supply: 48 VDC 024 - Power Supply: 24 VDC 012 - Power Supply: 12 VDC </p> | Series Indicator (Airfield Lighting) | AL | Category (Obstruction Lighting) | OBS | Product Indicator | 21 | Power Supply | XXX |
| Series Indicator (Airfield Lighting) | AL | | | | | | | | |
| Category (Obstruction Lighting) | OBS | | | | | | | | |
| Product Indicator | 21 | | | | | | | | |
| Power Supply | XXX | | | | | | | | |

| | |
|---------------------------|---|
| <p>Description</p> | <p> Housing - Powder coated aluminium RAL 1004 (aviation yellow) Dispenser - clear polycarbonate Cable gland - nickel plated brass Fasteners - stainless steel </p> <p>Light fixtures are provided with anti condensation valve.</p> |
| <p>Environment</p> | <p> Temperature range: - 55° to +55° Degree of protection: IP 67 </p> |
| <p>Mounting</p> | <p>Horizontal flat surface</p>  |

Electrical Characteristics

| | Type A | Type B | Type C | Type A/C |
|-----------------------|---|--------|--------|------------|
| Max power | 220W | 35W | 35 W | 220 W |
| Max power consumption | 110Wh | 15Wh | 35Wh | 110Wh/35Wh |
| Power supply | Power Supply: 100-230 V AC Power Supply: 48 V DC; 24 V DC; 12 V DC | | | |



Types of power supply:

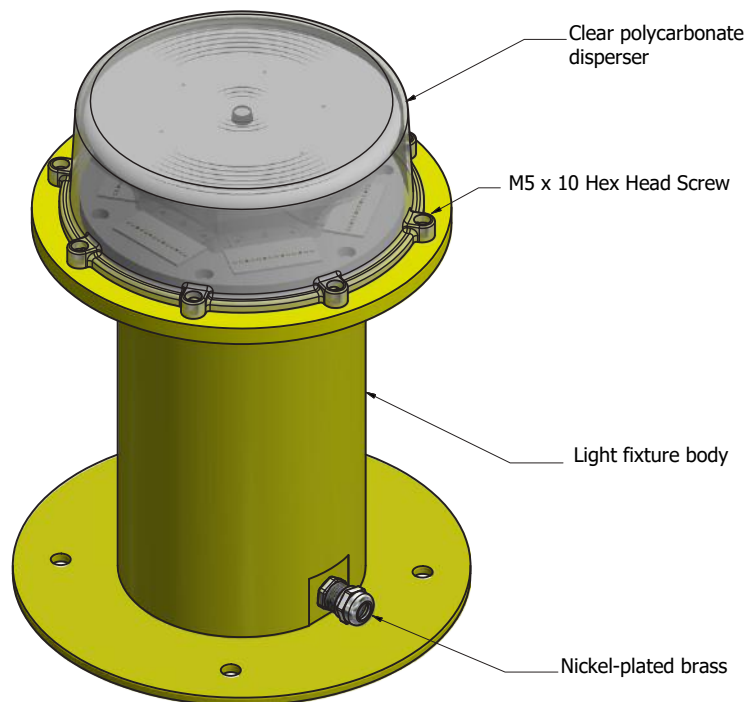
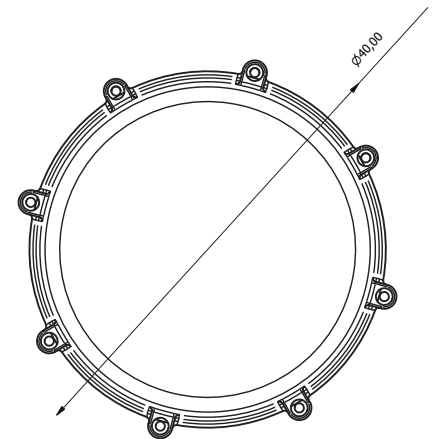
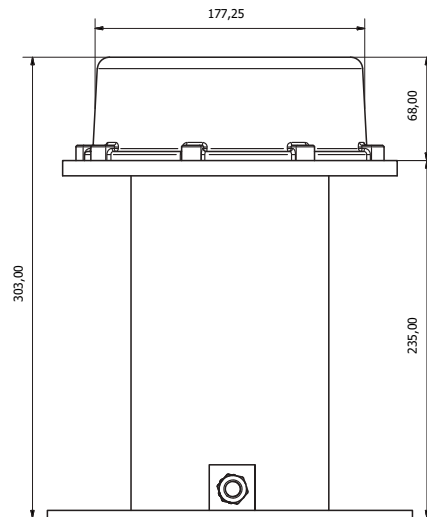
- Medium intensity obstruction light - Simple:
 - 230V AC** power supply - 3 core cable
 - 12V DC** power supply - 2 core cable
 - 24V DC** power supply - 2 core cable
 - 48V DC** power supply - 2 core cable

Mechanical Characteristics

Diameter: 240 mm

Total height: 303 mm

Weight: 6.4 kg

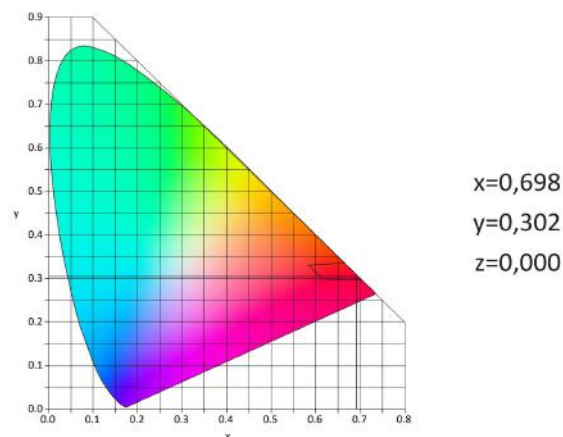


Photometric Characteristics

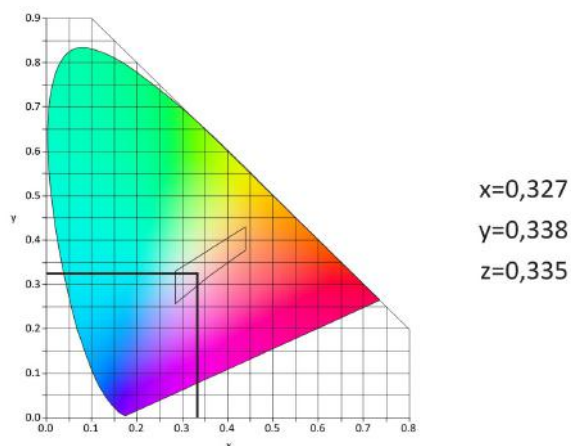
| Tested Product | Light intensity [cd] | | | Light intensity [cd] Vertical elevation -1° | | Vertical beam spread | | Frequency | |
|----------------|----------------------|----------|------|--|----------|----------------------|-------------------|--------------|----------|
| | Prescribed | Measured | | Prescribed | Measured | Prescribed | Measured | Prescribed | Measured |
| | | max | min | | | | | | |
| Type B | 2000 ±25% | 2478 | 1665 | min 50% (1000 cd) max 75% (1500 cd) | 1163 | min 3° | 3,11 ⁰ | 20-60 fpm | 50 |
| Type C | 2000 ±25% | 2438 | 1670 | min 50% (1000 cd) max 75% (1500 cd) | 1189 | min 3° | 3,18 ⁰ | - | - |

The brightness intensity values complies with:
ICAO requirements Annex 14 Vol.1 table.6-3

Red light colour emitted by the light fixture, with the trichromatic coordinates:



White light colour emitted by the light fixture, 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)

Photometric Characteristics

| | Type A | Type B | Type C |
|----------------------|-----------------|----------------|----------------|
| CODE | AL-OBS-12-XXX | AL-OBS-13-XXX | AL-OBS-14-XXX |
| LIGHT COLOR | White | Red | Red |
| SIGNAL TYPE | Flashing | Flashing | Fixed |
| VERTICAL BEAM SPREAD | 30° | 30° | 30° |
| PEAK INTENSITY | 20 000 cd ± 25% | 2 000 cd ± 25% | 2 000 cd ± 25% |
| LEDs NUMBER | 60 | 24 | 24 |
| TWILIGHT SENSOR | Yes | | |

Options

- GPS:** ensures the synchronization of flashing sequences between all obstruction lights.
- PHOTOCELL:** acts as a switch between day mode and night mode, depending on ambient light.



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