QUASAR

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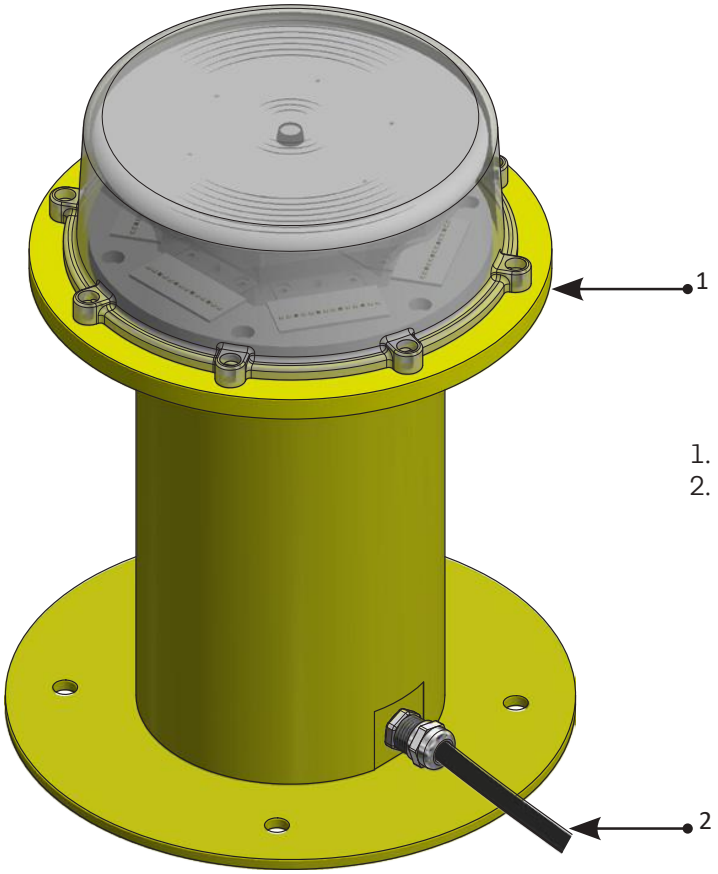
Compliance to standards	**ICAO:** International Civil Aviation Organization, Aerodromes, Annex 14, Vol. 1 - Aerodrome Design and Operations, Paragraph 6 **Romania CAA** (Romanian Civil Aeronautical Authority)**:** -Type B - No. 9525 from 10.04.2017 -Type C - No. 5836 from 10.04.2017
Application	Marking of aerial obstacles, such as: towers, buildings, antennas
Features	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.
Product Code	**AL - OBS - 14 - XXX** Series Indicator (Airfield Lighting) **AL** Category(Obstruction Lighting) **OBS** Product Indicator **14** Power Supply **XXX** **230** - Power Supply: 100-230 VAC **048** - Power Supply: 48 VDC **024** - Power Supply: 24 VDC **012** - Power Supply: 12 VDC

Description	**Housing** - Powder coated aluminium RAL 1004 (aviation yellow) **Dispenser** - clear polycarbonate **Cable gland** - nickel plated brass **Fasteners** - stainless steel Light fixtures are provided with anti condensation valve.
Environment	**Temperature range:** - 55^0 to $+55^0$ **Degree of protection:** IP 67
Mounting	Horizontal flat surface

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			



1. Light FIxture
2. Cable 2m

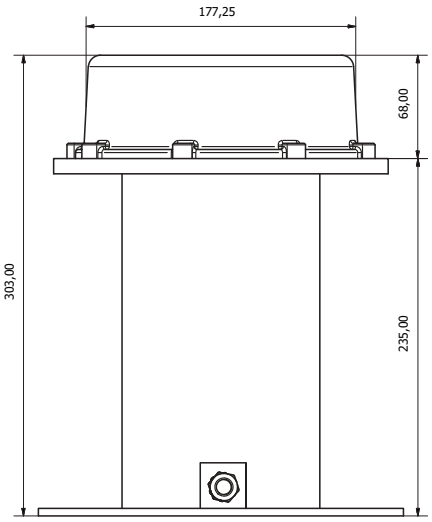
Types of power supply:

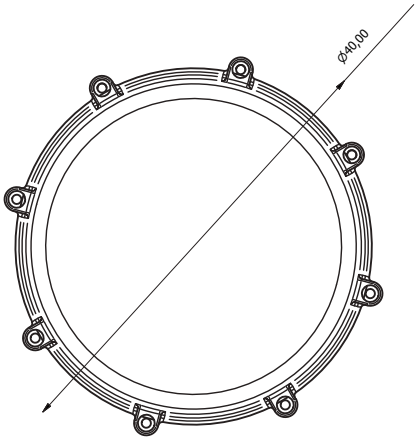
-Medium intensity obstruction light - Simple:

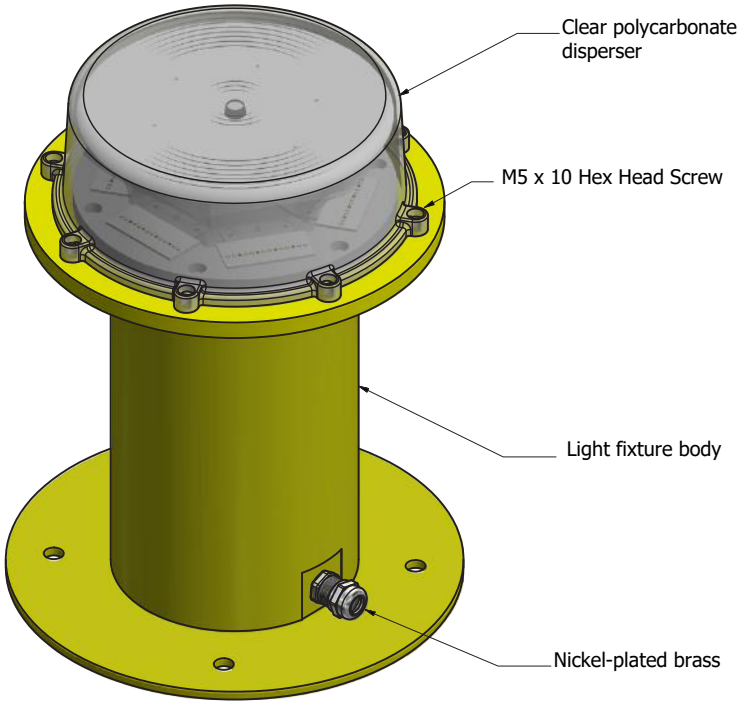
230V AC power supply - 3 core cable
12V DC power supply - 2 core cable
24V DC power supply - 2 core cable
48V DC power supply - 2 core cable

Mechanical Characteristics

Diameter: 240 mm **Total height:** 303 mm **Weight:** 6.4 kg







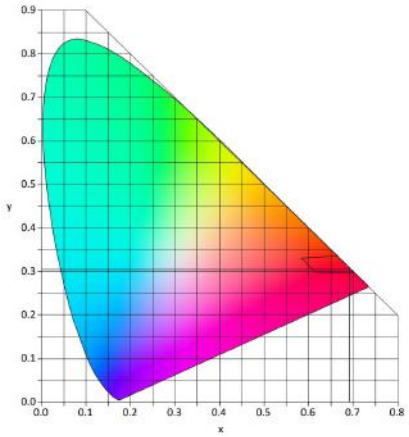
Photometric Characteristics

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:

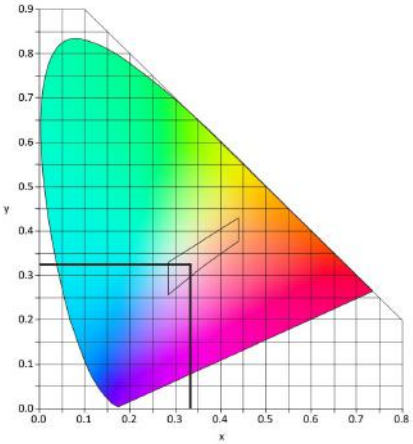
ICAO requirements Annex 14 Vol.1 table.6-3

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



x=0,698
y=0,302
z=0,000

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



x=0,327
y=0,338
z=0,335

The measured trichroamtic 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 TYPEI	Flashing	Flashing	Fixed
VERTICAL BEAM SPREAD	3^0	3^0	3^0
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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