

# HIGH INTENSITY

## HIGH INTENSITY OBSTRUCTION LIGHT HIOL-A



According to Annex 14 of ICAO regulations, High Intensity Obstruction Lights (HIOL) should be used to warn the presence of obstacles with an height above 150m or when an aeronautical study indicates such lights as mandatory for the correct warning of an elevated structure, such as chimneys, cranes, buildings, bridges, high tension pylons and other buildings.

High Intensity Obstruction Lights include two type of beacons, with different characteristics and uses:

- HIOL Type A (intensity 200.000cd, day-mode white flashing; 20.000cd, twilight-mode white flashing; 2.000cd, night-mode white flashing), mainly used on skyscrapers, bridges, etc;

LUXSOLAR offers to its customers also DUAL type beacons in the same light fixture, suitable to be used during the day (with white LEDs) and during the night (with red LEDs); these beacons are:

- DUAL HIOL Type AB (intensity 200.000cd, day-mode white flashing; 20.000cd, twilight-mode white flashing; 2.000cd, night-mode red flashing) should be used in combination with Low Intensity Obstacle Lights, Type B;
- DUAL HIOL Type AC (intensity 200.000cd, day-mode white flashing; 20.000cd, twilight-mode white flashing; 2.000cd, night-mode red steady burning) should be used in combination with Medium Intensity Obstacle Lights, Type C.



# HIGH INTENSITY

## HIOL-A 120° and HIOL-AB/AC 120°



note: electronic beacon driver in a separate enclosure

\*as option

IP66



LUXSOLAR L856-LXS-RUG High Intensity Obstruction Light is compliant to ICAO (High Intensity - Type A and Type AB/AC) and FAA (Type L-856). With a body designed for optimum light emission and increased cooling, high quality and ultra-bright LEDs and patented lenses; LUXSOLAR HIOL-A and HIOL-AB/AC product is the most up-to-dated and technologically advanced Aircraft Warning Light.

This LED device emits 200.000 candelas during day mode and through LUXSOLAR separate controller intensity is automatically adjusted in day/twilight/night mode; another advantage is the compact shape that allows to have in one light fixture also the DUAL mode (white LEDs for day and twilight and red LEDs for night).

LUXSOLAR L856-LXS-RUG is the right choice for skyscrapers, bridges and all high structures where high intensity visibility is required.

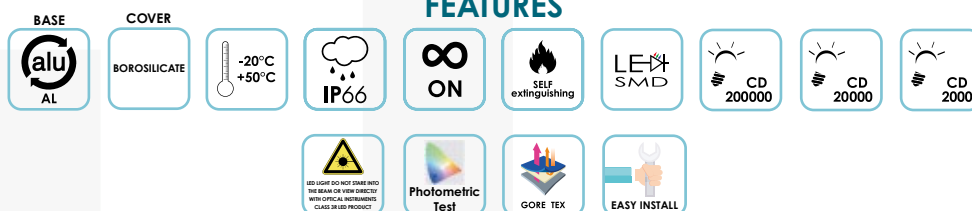
### CERTIFICATION



### COMPLIANCE



### FEATURES



### TYPICAL APPLICATION



# HIGH INTENSITY

## HIOL-A 120° and HIOL-AB/AC 120° TECHNICAL SPECIFICATIONS

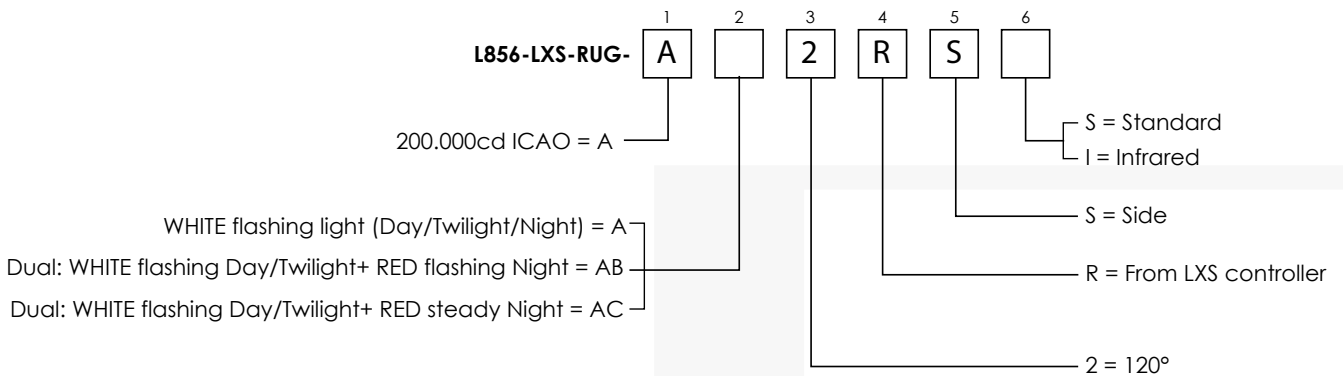
### OPTICAL FEATURES

- Based on LED technology
- **WHITE light** - HIOL A
  - § 200.000cd day mode
  - § 20.000cd twilight mode
  - § 2.000cd night mode
- **WHITE/RED light** - HIOL AB/AC
  - § 200.000cd day mode
  - § 20.000cd twilight mode
  - § 2.000cd night mode
- Cd emission @ -0,5° and +4°
- Horizontal beam radiation: 120°
- Vertical beam spread: +3 / +7°
- PMMA lens

### MECHANICAL FEATURES

- Anodised aluminium body with heat-sink pins for maximum heat dissipation
- Terminal JB for connection in Glass Reinforced Polyester (GRP), black colour
- Borosilicate glass cover protection
- Degree of protection: IP66
- Anti-condensation Gore-Tex valve
- Operating temperature: -20°C to +50°C
- Lamp unit weight: 16kg
- SS304 beacon support base

### ORDER CODE



### ELECTRICAL FEATURES

- Electronic components installed inside separate LUXSOLAR controller
- Average power consumption LXS-RUG 120° @40fpm:
  - § Day mode: 220W
  - § Twilight mode: 26W
  - § Night mode: 12W
- Peak power consumption: 1400VA
- No RF radiations
- LED feeded at constant current

### OPTIONS

- IR wavelength 850nm, compatible with pilot's NVG

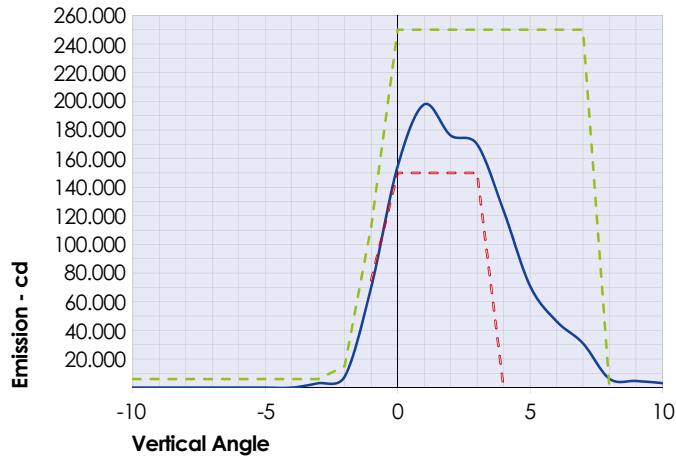
### CERTIFICATIONS

- CE marking

### COMPLIANCE

- ICAO Aerodromes - Annex 14 Vol. 1, Ch. 6: High intensity, Type-A flashing obstacle light HIOL-A/AB/AC Type
- FAA AC150/5345-43 E.B. #67 type L-856
- EASA CS-ADR-DSN

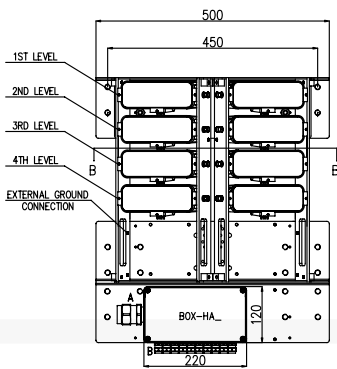
# HIGH INTENSITY



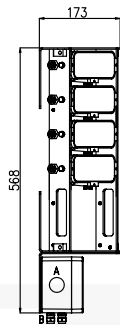
- L856-LXS-RUG average emission level at 70°C ambient temperature
- - - ICAO ANNEX 14 high intensity - Min. Required Intensity ICAO
- - - ANNEX 14 high intensity - Max. Required Intensity

## HIOL-A 120°

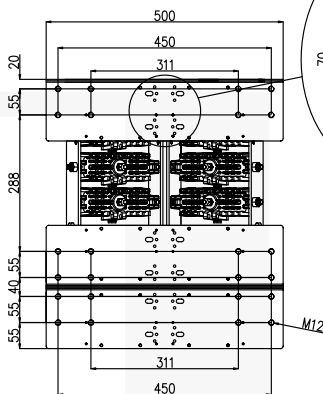
FRONT VIEW



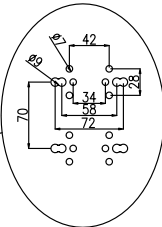
SIDE VIEW



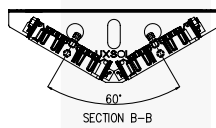
REAR VIEW



FIXING DETAILS

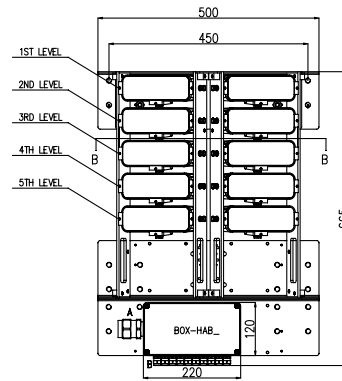


TOP VIEW

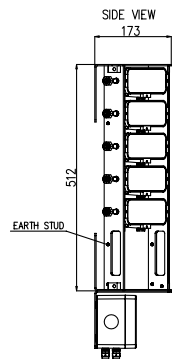


## HIOL-AB/AC 120°

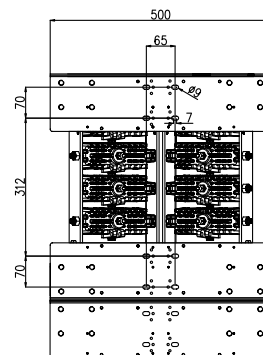
FRONT VIEW



SIDE VIEW



REAR VIEW



TOP VIEW

