

HIGH INTENSITY OBSTRUCTION LIGHT



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;
- **HIOL Type B (intensity 100.000cd, day-mode white flashing; 20.000cd, twilight-mode white flashing; 2.000cd, night-mode white flashing)**, mainly used on high voltage pylons where is not practicable install cable markers.

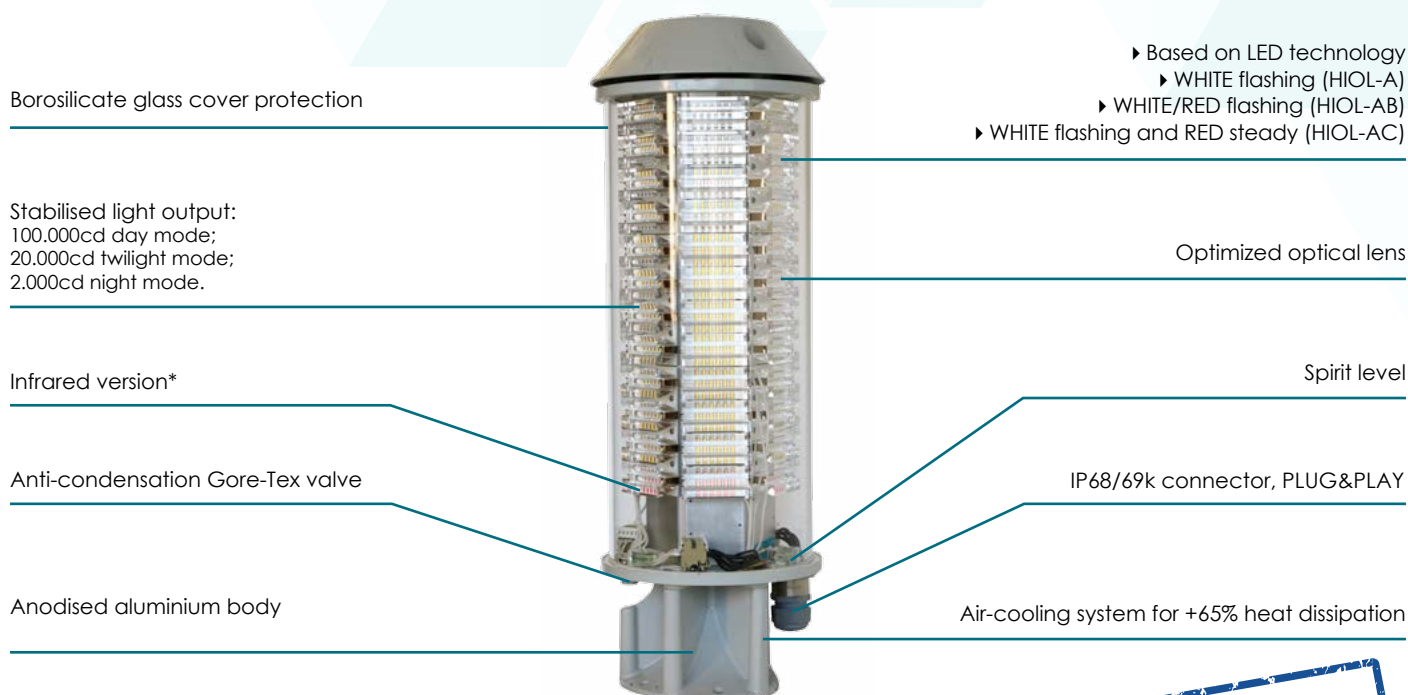
LUXSOLAR offers to its customers also **DUAL type beacons in the same light fixture, suitable to be used during the day (with white LEDs)** and during the night (with red LEDs); these beacons are:

- **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

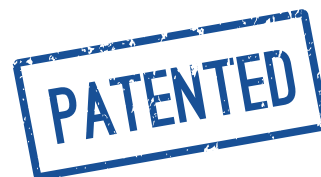
HIOL-B 120°/240°/360° (LXS-200)



NOTE: electronic beacon driver in a separate enclosure

*as option

IP66



LUXSOLAR L857-LXS-200 High Intensity Obstruction Light is compliant to **ICAO** (High Intensity - Type B) and **FAA** (Type L-857). With a **body designed for optimum light emission and increased cooling, high quality and ultra-bright LEDs and patented lenses**; LUXSOLAR HIOL-B product is the **most up-to-dated and technologically advanced Aircraft Warning Light**.

This LED device emits 100.000 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 L857-LXS-200 is the right choice for pylons, overhead wires towers and all high structures where high intensity visibility is required.

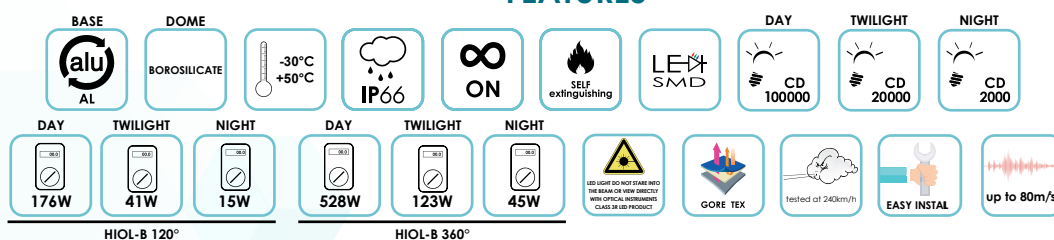
CERTIFICATION



COMPLIANCE



FEATURES



TYPICAL APPLICATION



HIGH INTENSITY

HIOL-B 120°, 240° and 360° TECHNICAL SPECIFICATIONS

OPTICAL FEATURES

- Based on LED technology
- **WHITE light - HIOL B**
- **WHITE/RED light - HIOL BB/BC**
 - 100.000cd day mode
 - 20.000cd twilight
 - 2.000cd night mode
- Cd emission @ -0,5° and +4°
- Horizontal beam radiation: 120°, 240° and 360°
- Vertical beam spread: 4°
- PMMA lens
- Light output alignment device

MECHANICAL FEATURES

- Anodised aluminium body, painted RAL7035
- Borosilicate glass cover protection
- Silicon rubber, VMQ
- Base wind collector and internal heat sink for optimum cooling
- Degree of protection: IP66
- Anti-condensation Gore-Tex valve
- Operating temperature: -30°C to +50°C
- Lamp unit weight: 12kg approx.

ELECTRICAL FEATURES

- Avg power consumption HIOL-B 120° (@40fpm):
 - Day mode: 176W ±10%(*)
 - Twilight mode: 41W ±10%(*)
 - Night mode: 15W ±10%(*)
- Avg power consumption HIOL-B 240° (@40fpm):
 - Day mode: 352W ±10%(*)
 - Twilight mode: 82W ±10%(*)
 - Night mode: 30W ±10%(*)
- Avg power consumption HIOL-B 360° (@40fpm):
 - Day mode: 528W ±10%(*)
 - Twilight mode: 123W ±10%(*)
 - Night mode: 45W ±10%(*)

(*) The absorbed power includes the absorption of the Controller (for one beacon)

ELECTRICAL FEATURES

- Electronic components installed inside separate LUXSOLAR controller
- No RF radiations
- LED fed at constant current

OPTIONS

- @60fpm (only 120°)

APPLY TO

- Airport
- Stack
- High Building
- Chimney
- Tower crane
- Pipe line
- Bridge
- Transmission line
- Radio and television tower
- Wind turbine
- Wind mast measurement
- Radar
- Antenna

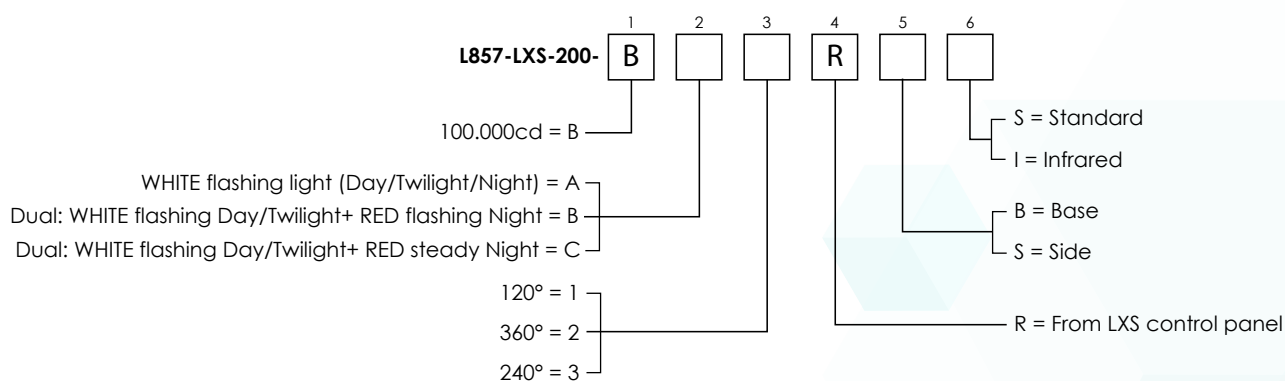
CERTIFICATIONS

- ICAO test report (EN17025 laboratory) nr. 466-QL19-R03
- CE marking

COMPLIANCE

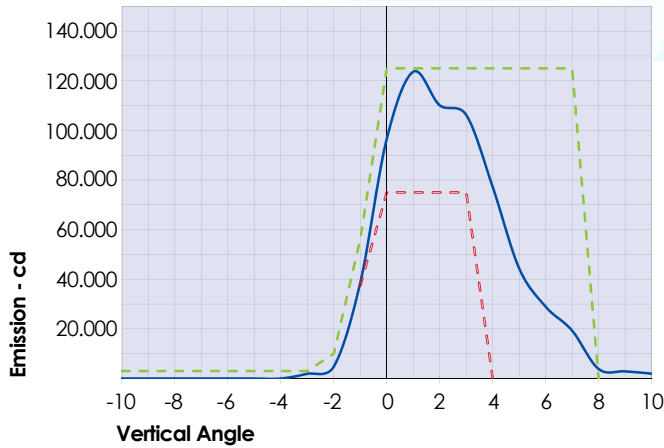
- ICAO Aerodromes - Annex 14 Vol. 1, Ch 6: High intensity, Type-B flashing obstacle light HIOL-B/BB/BC Type
- FAA AC150/5345-43; E.B. #67 type L-857

ORDER CODE

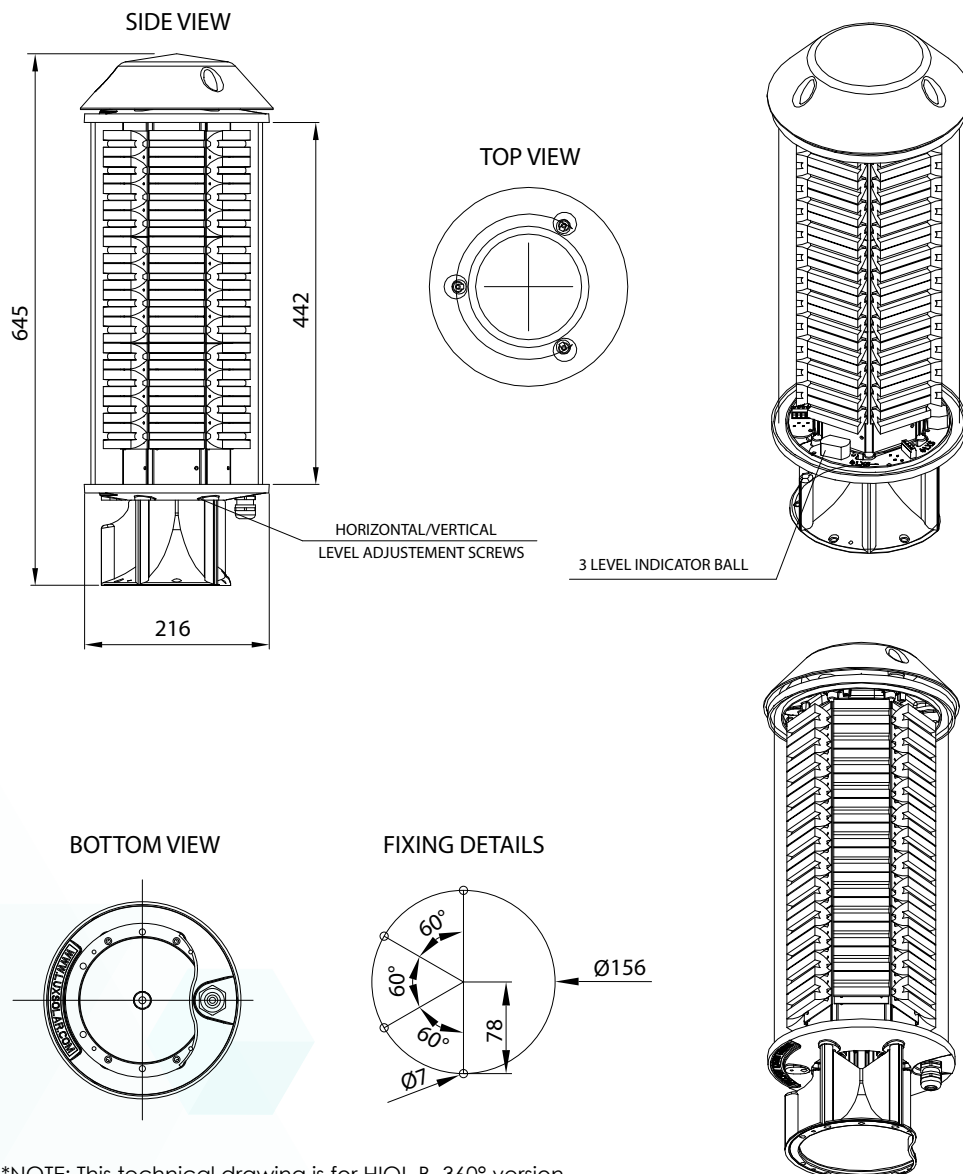


HIGH INTENSITY

HIOL-B 120°, 240° and 360° TECHNICAL SPECIFICATIONS



— L857-LXS-B average emission level at 70°C ambient temperature
 - - ICAO ANNEX 14 high intensity type B - Min. Required Intensity
 - - ICAO ANNEX 14 high intensity type B - Max. Required Intensity



*NOTE: This technical drawing is for HIOL-B, 360° version.