

1. What are the recommended applications for CUBEx IS Lightbar?

CUBEx IS Lightbars are suitable for

1. Area lighting
2. Walkway lighting
3. Cabin lighting (Shuttle Car and LHD)
4. Floor and dashboard gauge illumination
5. Awareness/mode lighting on continuous miner conveyors and general machine lighting.

Common applications include longwall chocks, multi-bolters, continuous miners, shuttle cars, conveyor belts, and RTVs. They are a direct replacement for existing flat lights from other suppliers.

The lightbar is available in multiple configurations to suit different applications, including headlight, area/flood lighting options, and mode lighting. With three separate banks, each light can also be configured to strobe or flash when required.

2. Can I adjust the brightness?

The **CX400 Lightbar** allows users to adjust the brightness for their specific application.

3. What happens if part of the light fails?

CUBEx IS Lights are designed with built-in redundancy. If one light bank fails, the second continues operating, ensuring continued visibility and safety. If the light is mechanically damaged, the light may remain serviceable and is not a high potential incident (HPI).

4. Can the lights be repaired or serviced?

To maintain safety certification, the lightbar is sealed for life and is not serviceable. If damage occurs, the unit should be replaced or returned for assessment. At 4-6 years, the light may be returned to NAUTITECH® cleaning, inspection, testing and recertification.

5. What temperature range can the lights operate in?

The lights are designed to operate reliably in temperatures from -20°C to +60°C, making them suitable for extreme environments.

6. How does the CUBEx Lightbar compare to other lighting solutions on the market?

Unlike many other products that use plastic housing, CUBEx lights feature a robust metal (316 stainless steel) construction for enhanced strength and longevity in harsh environments.

The Lightbar features 3 light banks with staged illumination for greater control and redundancy and delivers a wide spread of light for greater visibility.

7. What are the beam angles, brightness, and electrical specifications?

Beam angles range from 5° to 90° depending on build and application. Each fitting can deliver up to 1000 lumens, with 8 brightness levels from 12.5% to 100%.

Electrical specifications, such as current draw and operating voltage vary by configuration and can be provided based on specific build requirements.

8. What plug and control options does the lightbar come with?

The light is available with multiple connection options, including:

- Connector P1 – 12302 pigtail cable variants
- 12302 pigtail cable variant (2-wire TW) for product replacement of another supplier

The LED banks are individually controllable, like the current CX302 lights, allowing each bank function to be adjusted as required.

9. Does it come with a mounting bracket?

The light fitting has two mounting brackets in 316 stainless steel, that may be welded in place or bolted down. The brackets allow the light to pivot and lock, offering a large range of movement. An optional integrated Neodymium magnet is also available.

The two stainless steel mounting blocks on the ends, have a 12mm hole to allow the use of two M10 x 60 mm, stainless steel, Allen headed bolts. The hole spacing is the same as a similar flat light on the market. The range of angle can be locked using the M3 Allen headed grub screw located on each end bracket.

10. What is the Ingress Protection rating of the Flatlight and can it be used underwater?

The CUBEx IS Lightbar is rated to IP66 and designed for harsh environments.

Cleaning Solutions - it can be pressure cleaned up to 100 L/min at 100 kPa using mild detergents (pH < 8). It is not compatible with solvents or strong alkaline chemicals, which may damage the front lens.

Water Pressure - the lightbar is fully sealed with an IP67-rated connector. Additional protection is recommended to prevent direct high-pressure water impact over an extended period.