



EVOLUTION X

LED LUMINAIRE

..... *The Next Generation in Hazardous Area LED Lighting*





Next in our new generation of LED luminaires... **Evolution X**



The Chalmit **Evolution X** floodlight is the latest innovation to join our next generation X Series of LED luminaires designed for global use in any harsh or hazardous environment.

Based on extensive customer feedback, the Evolution X combines high powered performance with long term maintenance benefits. Providing a market leading photometric output up to 40,000 lumens, and offered with a variety of optics to efficiently illuminate any Zone 1/21 application, the Evolution X is a true successor to the traditional high output HID floodlights.



The Designer Perspective

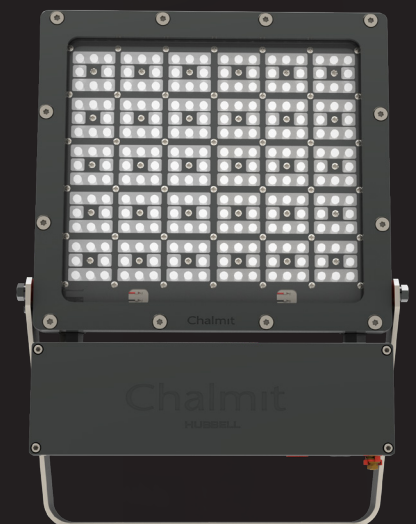
We have a dedicated team of product designers who specialise in the development and design of our market leading and innovative luminaires. Ivon Dachlan is the Lead Design Engineer behind the **Evolution X** and has been part of the Chalmit engineering team for 13 years. We asked Ivon about her approach to the design process for the **Evolution X** and her favourite feature:

Key Design Considerations

- Reduced installation and access time
- High photometric performance
- Long lifetime

Favourite Feature

The **Evolution X** luminaire can easily be converted to a remote installation setup. There's the option available to use a remote gearbox with flying lead which makes maintenance really easy and saves time!





Long Life

Low Maintenance

Weighing only 17kgs, the newly designed LED enclosure is slimline, robust and sealed for life with no exposed flame paths. An expected LED L70 life >200,000 hours at the maximum rated ambient of 60°C makes the Evolution X luminaire effectively maintenance free.

➤ Product Features

Floodlight. Pendant. High Bay. Pole/Column.

- **120,000 maintenance free hours at 25°C**
- **Highly Energy Efficient >106lm/W**
- **Available with asymmetric optic - minimising light pollution**
- **Temperature Range -55°C to +60°C**
- **Three lumen output options: 20,000, 30,000, 40,000**
- **5000k, 4000k and 3000k available at 80 CRI**

Find Out More

Visit www.hubbell.com/chalmit/en/Evolution-X

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EVOLUTION X

Ex db eb LED Floodlight

The next generation in Zone 1 LED luminaires, the **Evolution X** floodlight focuses on the need of the user by combining high powered performance with long term maintenance benefits. Providing a market leading photometric output up to 40,000 lumens, and offered with a variety of optics to efficiently illuminate any Zone 1/21 application, the **Evolution X** is a true successor to the traditional high output HID floodlights.

With no exposed flamepaths and an expected LED L70 life >200,000 hours at the maximum rated ambient of 60°C, the robust LED enclosure is effectively maintenance free. The optional benefit of a removeable gearbox with excellent IP allows the maintainable components to be easily accessible, and ensures that the ground breaking **Evolution X** is suitable for global use in any harsh or hazardous environment.



International Approvals

Mounting Options

Floodlight. Pendant. High Bay. Pole/Column.

Standard Specification

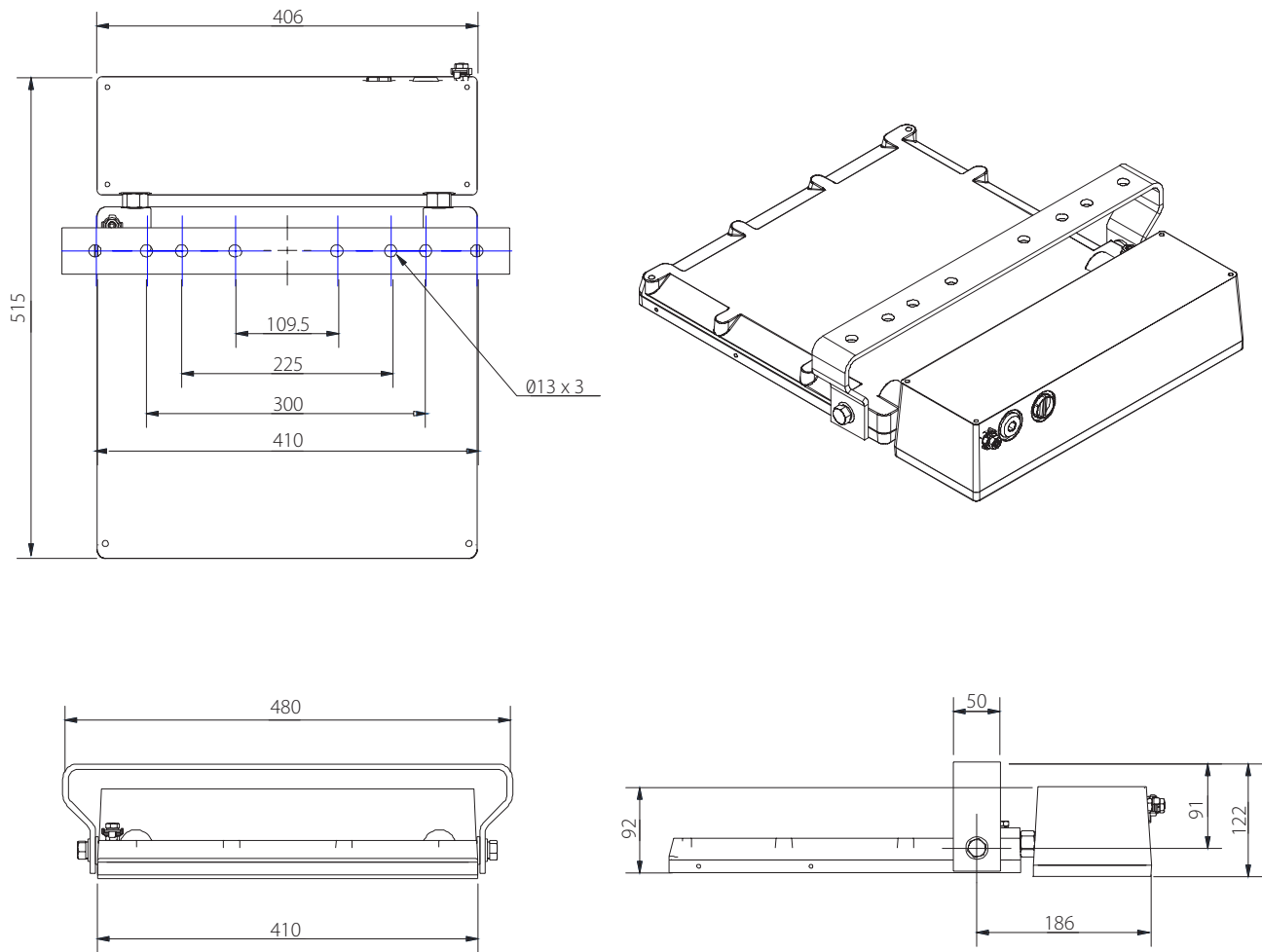
Evolution X Ex db eb LED Floodlight

Type of Protection	Ex db eb (Flameproof, Increased Safety) Ex tb (Dust Protected Enclosure)
ATEX Classification	Group II Category 2 GD
Area Classification	Zone 1 and 21 areas to EN 60079-10-1 and EN 60079-10-2 with installation to EN 60079-14
Certificate	EU Type Examination Certificate CML20ATEX1114X IECEx Certificate of Conformity IECEx CML 20.0073X
Coding	Ex db eb IIB+H2 T* Gb Ex tb IIIC T***C Db IP6X Refer to table for T rating and Ambient
Enclosure	LM6 Marine grade aluminium body with UV resistant glass diffuser. LED heatsink and gearbox with epoxy powder finish (RAL 7040)
Entry	2 x M20 cable entries
Termination	3 core 6mm ² max conductor with looping
Installation	3 x Ø13 mounting holes stirrup
Control Gear	Electronic Driver
Optical Distribution	Wide beam
Colour Temperature (CCT)	5000K (Cool White)
Colour Rendering Index (Ra)	>80
Maintenance	Front access to gearbox lid with 4x M6 captive screws
LED Lifetime @ 60°C Ambient	L70 > 200,000hrs
System Life @ Ambient	120,000hrs @ 25°C
Impact Protection	IK10
Ingress Protection	IP66/67 to EN 60529
Surge Protection	6kV
Electrical Supply	110-277V AC, 50/60Hz 127-250V DC

Features

- Highly **Energy Efficient** >106lm/W
- Slimline, Sealed for life** LED enclosure with no exposed flamepaths
- Easy access gearbox** with captive screws
- Available with **asymmetric optic**, minimising light pollution
- Remote gearbox** option with flying lead for ease of maintenance and installation
- 120,000** maintenance free hours at 25°C

PENDANT MOUNT





Chalmit® EVOLUTION X

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