



# EVOLUTION X

## LED LUMINAIRE

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





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# 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 and the teams 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!



# EVOLUTION X



# 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

- 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
- Floodlight. Pendant. High Bay. Pole/Column

## Find Out More

Our sales team are on hand to answer any questions you may have about our Evolution X products. Call us now on **0141 882 5555**

Or email us direct with your comments to [getintouchuk@hubbell.com](mailto:getintouchuk@hubbell.com)



# 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 removable 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.



## 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 UK Type Examination Certificate CML 21UKEX1510X
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 <sup>2</sup> 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
- ◆ Available with **asymmetric optic**, minimising light pollution
- ◆ **Slimline, Sealed for life** LED enclosure with no exposed flamepaths
- ◆ **Remote gearbox** option with flying lead for ease of maintenance and installation
- ◆ **Easy access gearbox** with captive screws
- ◆ **120,000** maintenance free hours at 25°C

Std. Cat No.	Delivered Output	Power Consumption	Tclass	T°C (Dust)	Ambient °C	Weight
<b>EVXB/20L/LE</b>	20,980 lm	188W	T5 T4	T100 T135	-55 to +40 -55 to +60	15.5kg
<b>EVXB/30L/LE</b>	29,433 lm	253W	T5 T4	T100 T135	-55 to +40 -55 to +60	17kg
<b>EVXB/40L/LE</b>	40,052 lm	375W	T5 T4	T100 T135	-55 to +40 -55 to +60	17kg

Options - Suffix to Catalogue No.

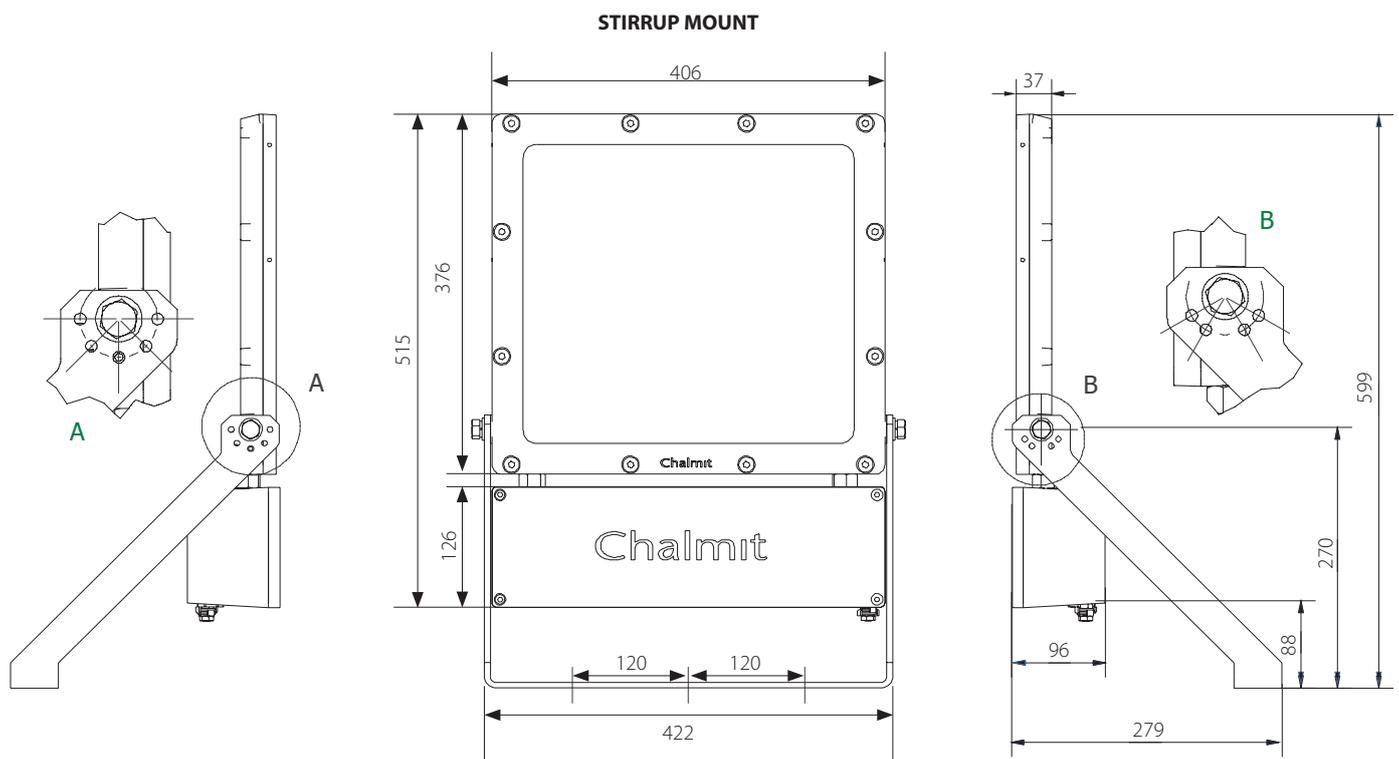
<b>/M25</b>	M25 Cable Entries
<b>/N</b>	Narrow Beam Distribution (≈5% reduction in output)
<b>/AS</b>	Asymmetric Distribution (≈11% reduction in output)
<b>/DM</b>	DALI Dimmable driver
<b>/RG05</b>	Remote Gearbox complete with 5m Cable to LED Enclosure (0, 10 & 15m cable lengths also available**)
<b>/4K</b>	4000K (Neutral White) LEDs
<b>/3K</b>	3000K (Warm White) LEDs

\*\*Cable construction to BS 6883. For alternative cable length, replace 05 with the required dimension, e.g. /RG10.

Accessories *order separately*

	Order Code
<b>Pole Mounting Bracket Assembly (48-70mm Pole Diameter)</b>	<b>SEVO4-0001</b>
<b>Wire Guard</b>	<b>SEVX4-0002</b>
<b>Anti Glare Shield</b>	<b>SEVX4-0001</b>
<b>Crane Damper Bracket</b>	<b>SEVX4-0010</b>

For pendant mounting please see our separate datasheet on the Chalmit website





# EVOLUTION X

Ex db eb LED Pendant

The next generation in Zone 1 LED luminaires, the **Evolution X** 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 pendants.

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.



**Mounting Options**  
Pendant. High Bay.

## Standard Specification

Evolution X Ex db eb LED Pendant

<b>Type of Protection</b>	Ex db eb (Flameproof, Increased Safety) Ex tb (Dust Protected Enclosure)
<b>ATEX Classification</b>	Group II Category 2 GD
<b>Area Classification</b>	Zone 1 and 21 areas to EN 60079-10-1 and EN 60079-10-2 with installation to EN 60079-14
<b>Certificate</b>	EU Type Examination Certificate CML20ATEX1114X IECEx Certificate of Conformity IECEx CML 20.0073X UK Type Examination Certificate CML 21UKEX1510X
<b>Coding</b>	Ex db eb IIB+H2 T* Gb Ex tb IIIC T***C Db IP6X Refer to table for T rating and Ambient
<b>Enclosure</b>	LM6 Marine grade aluminium body with UV resistant glass diffuser. LED heatsink and gearbox with epoxy powder finish (RAL 7040)
<b>Entry</b>	2 x M20 cable entries
<b>Termination</b>	3 core 6mm <sup>2</sup> max conductor with looping
<b>Installation</b>	8 x Ø13 mounting holes stirrup
<b>Control Gear</b>	Electronic Driver
<b>Optical Distribution</b>	Wide beam
<b>Colour Temperature (CCT)</b>	5000K (Cool White)
<b>Colour Rendering Index (Ra)</b>	>80
<b>Maintenance</b>	Front access to gearbox lid with 4x M6 captive screws
<b>LED Lifetime @ 60°C Ambient</b>	L70 > 200,000hrs
<b>System Life @ Ambient</b>	120,000hrs @ 25°C
<b>Impact Protection</b>	IK10
<b>Ingress Protection</b>	IP66/67 to EN 60529
<b>Surge Protection</b>	6kV
<b>Electrical Supply</b>	110-277V AC, 50/60Hz 127-250V DC

## Features

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

Std. Cat No.	Delivered Output	Power Consumption	Tclass	T°C (Dust)	Ambient °C	Weight
<b>EVXB/20L/LE/PE</b>	20,980 lm	188W	T5 T4	T100 T135	-55 to +40 -55 to +60	15.5kg
<b>EVXB/30L/LE/PE</b>	29,433 lm	253W	T5 T4	T100 T135	-55 to +40 -55 to +60	17kg
<b>EVXB/40L/LE/PE</b>	40,052 lm	375W	T5 T4	T100 T135	-55 to +40 -55 to +60	17kg

Options - Suffix to Catalogue No.

<b>/M25</b>	M25 Cable Entries
<b>/N</b>	Narrow Beam Distribution (≈5% reduction in output)
<b>/AS</b>	Asymmetric Distribution (≈11% reduction in output)
<b>/DM</b>	DALI Dimmable driver
<b>/RG05</b>	Remote Gearbox complete with 5m Cable to LED Enclosure (0, 10 & 15m cable lengths also available**)
<b>/4K</b>	4000K (Neutral White) LEDs
<b>/3K</b>	3000K (Warm White) LEDs

\*\*Cable construction to BS 6883. For alternative cable length, replace 05 with the required dimension, e.g. /RG10 or /RG00 if the cable will be supplied & fitted by installer.

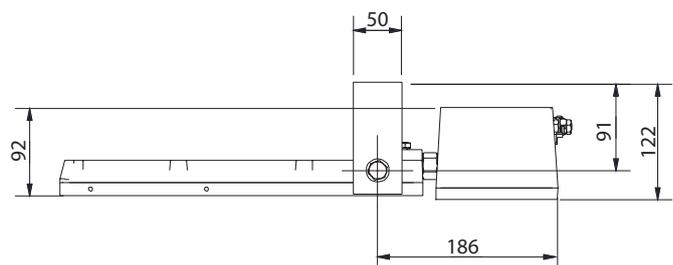
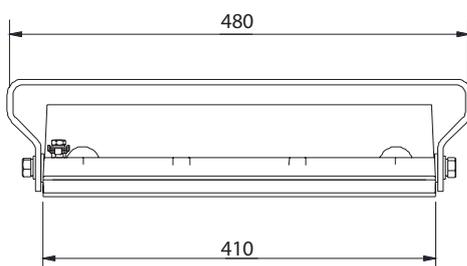
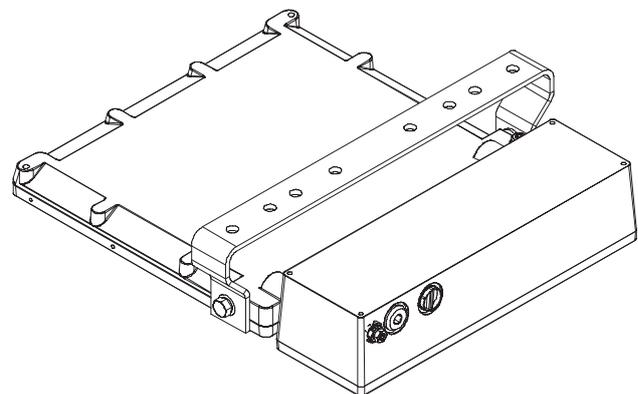
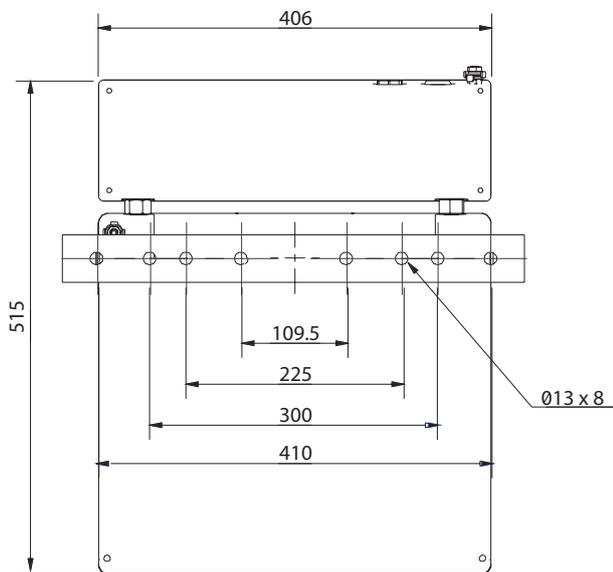
Accessories *order separately*

Order Code

Wire Guard

**SEVX4-0002**

PENDANT MOUNT





# EVOLUTION X REMOTE GEARBOX

Ex db eb LED Floodlight

Following the success of our Evolution X Floodlight we are delighted to present the **Evolution X Remote Gearbox** floodlight. Bringing all of the benefits from the existing product the **Evolution X Remote Gearbox** provides users with ease of installation, inspection and maintainence expected of a next generation Zone 1 floodlight.

Utilising [Rapid Connection Gland \(RCG\)](#) entries between remote gearbox and LED engine allows simple field installation whilst reducing weight mounted at height. The robust LED enclosure is effectively maintenance free and mounting the **Evolution X Remote Gearbox** in an easily accessible location will provide reduced installation (CAPEX), maintenance and inspection (OPEX) for the lifetime of the fixture.



## Mounting Options

Floodlight. Pendant. High Bay. Pole/Column.

## Standard Specification

Evolution X Ex db eb LED Floodlight

<b>Type of Protection</b>	Ex db eb (Flameproof, Increased Safety) Ex tb (Dust Protected Enclosure)
<b>ATEX Classification</b>	Group II Category 2 GD
<b>Area Classification</b>	Zone 1 and 21 areas to EN 60079-10-1 and EN 60079-10-2 with installation to EN 60079-14
<b>Certificate</b>	EU Type Examination Certificate CML20ATEX1114X IECEX Certificate of Conformity IECEX CML 20.0073X UK Type Examination Certificate CML 21UKEX1510X
<b>Coding Remote LED Heatsink</b>	Ex db eb IIB+H2 T* Gb Ex tb IIIC T**°C Db IP6X Refer to table for T rating and Ambient
<b>Coding Remote Gear Box</b>	Ex db eb IICT* Gb Ex tb IIIC T**°C Db IP6X Refer to table for T rating and Ambient
<b>Enclosure</b>	LM6 Marine grade aluminium body with UV resistant glass diffuser. LED heatsink and gearbox with epoxy powder finish (RAL 7040)
<b>Entry</b>	2 x M20 cable entries
<b>Termination</b>	3 core 6mm <sup>2</sup> max conductor with looping
<b>Installation</b>	3 x Ø13 mounting holes stirrup
<b>Control Gear</b>	Electronic Driver
<b>Optical Distribution</b>	Wide beam
<b>Colour Temperature (CCT)</b>	5000K (Cool White)
<b>Colour Rendering Index (Ra)</b>	>80
<b>Maintenance</b>	Front access to gearbox lid with 4x M6 captive screws
<b>LED Lifetime @ 60°C Ambient</b>	L70 > 200,000hrs
<b>System Life @ Ambient</b>	120,000hrs @ 25°C
<b>Impact Protection</b>	IK10
<b>Ingress Protection</b>	IP66/67 to EN 60529
<b>Surge Protection</b>	6kV
<b>Electrical Supply</b>	110-277V AC, 50/60Hz 127-250V DC

## Features

- ◆ Highly **Energy Efficient** >106lm/W
- ◆ Available with **asymmetric optic**, minimising light pollution
- ◆ **120,000** maintenance free hours at 25°C
- ◆ **Slimline, Sealed for life** LED enclosure with no exposed flamepaths
- ◆ **Easy access gearbox** reduces CAPEX and OPEX

Std. Cat No.	Delivered Output	Power Consumption	Tclass	T°C (Dust)	Ambient °C	Weight
<b>EVXB/20L/LE/**/RG00<sup>^</sup></b>	20,980 lm	188W	T5 T4	T100 T135	-55 to +40 -55 to +60	LED Enclosure = 10.0kg Remote Gear Box = 5.5kg
<b>EVXB/30L/LE/**/RG00<sup>^</sup></b>	29,433 lm	253W	T5 T4	T100 T135	-55 to +40 -55 to +60	LED Enclosure = 10.0kg Remote Gear Box = 7.0kg
<b>EVXB/40L/LE/**/RG00<sup>^</sup></b>	40,052 lm	375W	T5 T4	T100 T135	-55 to +40 -55 to +60	LED Enclosure = 10.0kg Remote Gear Box = 7.0kg

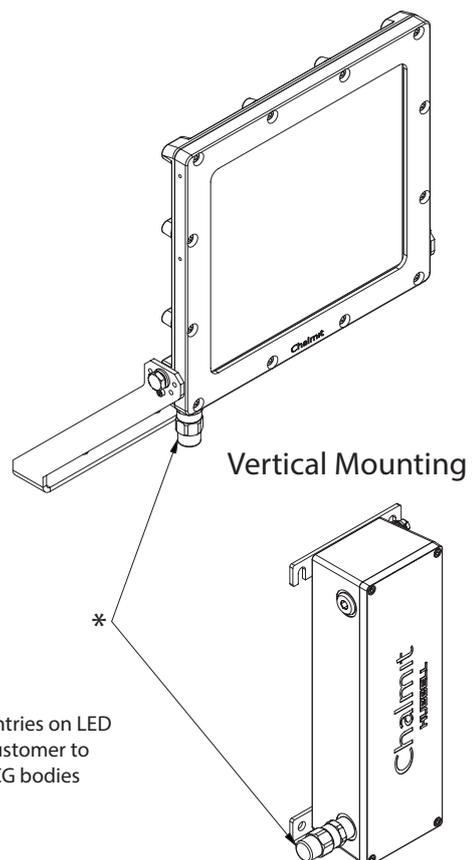
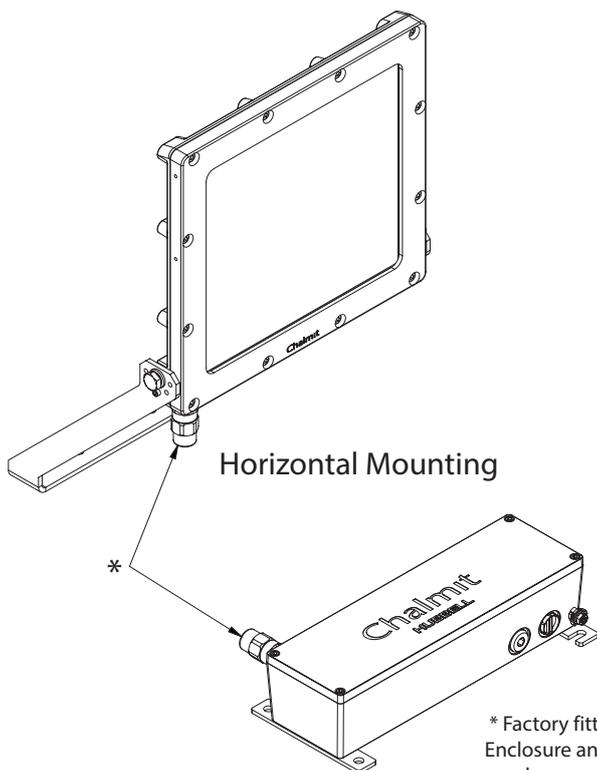
<sup>^</sup> Factory fitted with Hawke RCG entries on LED Enclosure and Remote Gearbox. Customer to purchase appropriate cable and Hawke RCG bodies

Options - Suffix to Catalogue No.

<b>/M25</b>	M25 Cable Entries
<b>/N</b>	Narrow Beam Distribution (≈5% reduction in output)
<b>/AS</b>	Asymmetric Distribution (≈11% reduction in output)
<b>/PE</b>	Pendant Mount (further details on Evolution X Pendant data sheet)
<b>/DM</b>	DALI Dimmable driver
<b>/4K</b>	4000K (Neutral White) LEDs
<b>/3K</b>	3000K (Warm White) LEDs

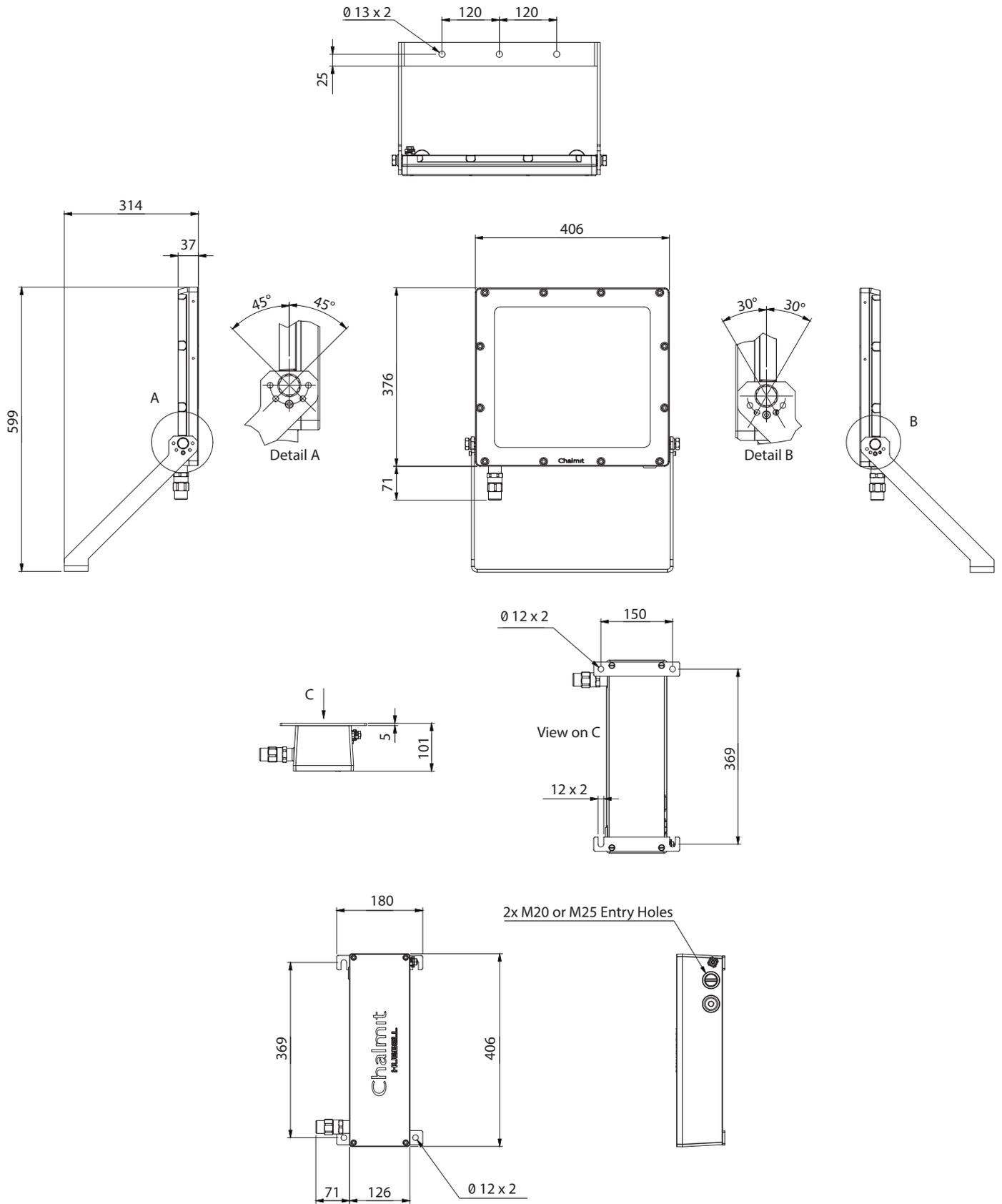
Accessories *order separately*

	Order Code
Pole Mounting Bracket Assembly (48-70mm Pole Diameter)	<b>SEVO4-0001</b>
Wire Guard	<b>SEVX4-0002</b>
Anti Glare Shield	<b>SEVX4-0001</b>
Crane Damper Bracket	<b>SEVX4-0010</b>



\* Factory fitted with [Hawke RCG](#) entries on LED Enclosure and Remote Gearbox. Customer to purchase appropriate cable and RCG bodies

# Dimensioned Drawings





# SUSTAINABILITY

## At Hubbell

At Hubbell we are committed to reducing the environmental impact of our operations.

We are continually developing products and processes that support sustainability and offer energy efficient solutions for our customers and partners.

Our focus remains addressing and managing the risks associated with climate change and we are committed to facilitating a sustainable future.

For more information visit us at [www.hubbell.com/hubbell/en/sustainability](http://www.hubbell.com/hubbell/en/sustainability)

### Our ESG Goals



**10%**  
Reduction in  
GHG Emissions  
*By 2025*



**10%**  
Reduction in  
Water Consumption  
*By 2025*



#### Social Responsibility

Inclusion, Diversity, Equality  
Employee Health & Safety  
Community Impact  
Hubbell Foundation Donations



#### Environmental Stewardship

Environmental Performance Awareness  
Reduced Energy and Emissions  
Sustainability and Infrastructure  
Management Handbook



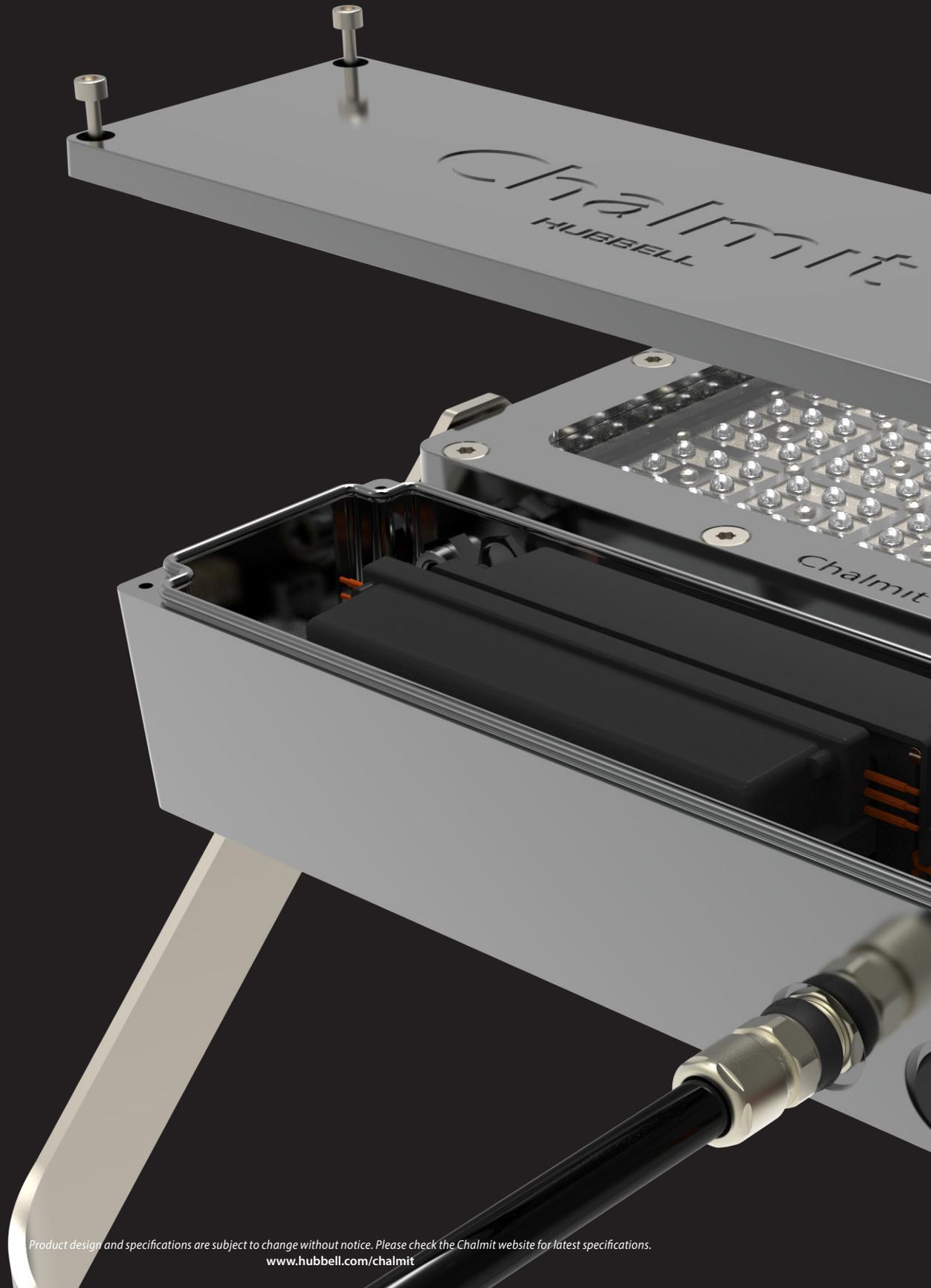
#### Products With Impact

Product Quality & Safety  
Renewable Energy & Efficiency  
Ethical Product Design  
Responsible Supply Chain

Hubbell are proud to have been named as one of 2022's most ethical companies

# EVOLUTION X

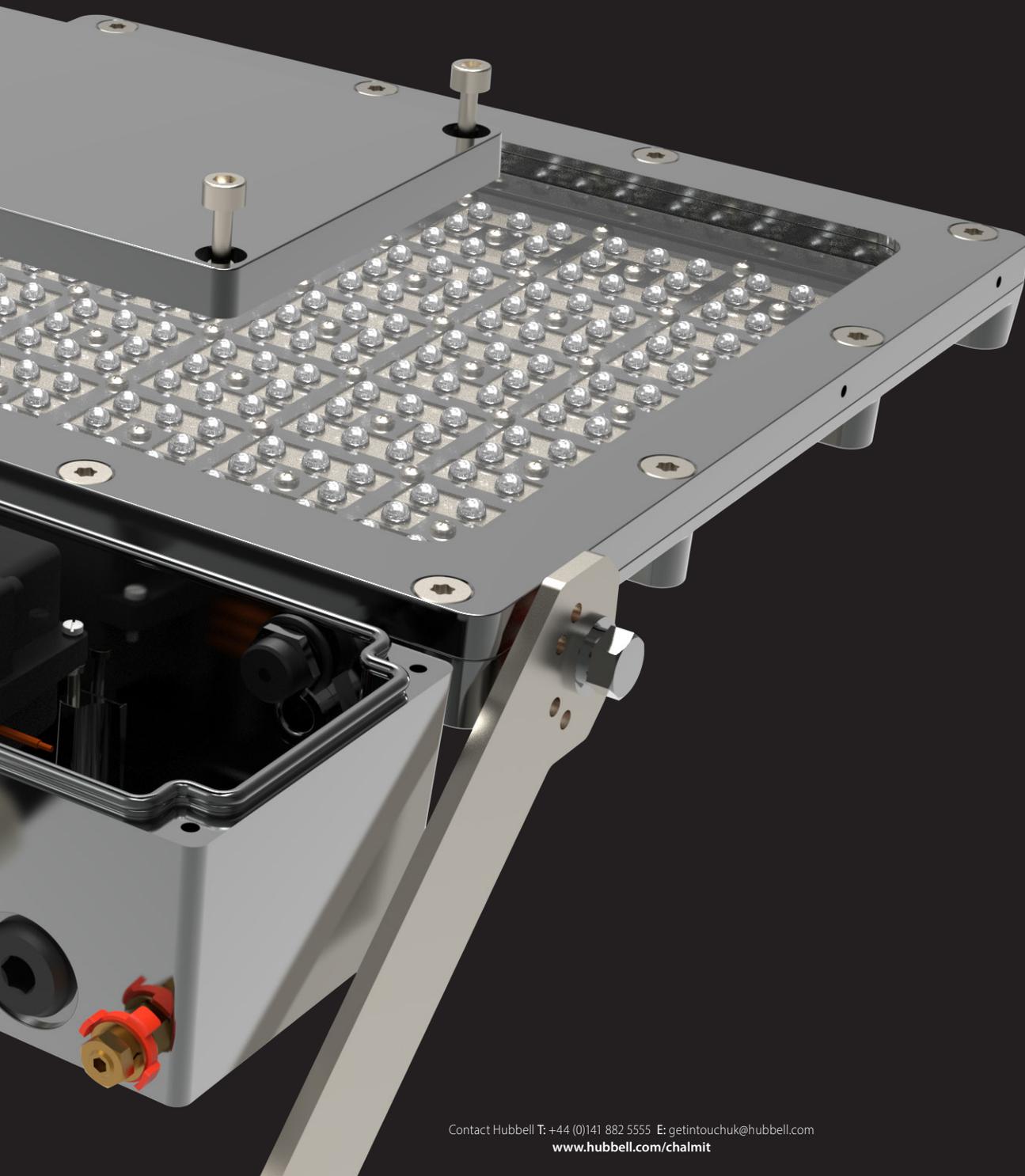
**Evolution X** A sleek and powerful luminaire to compliment our X Series range of products.



Product design and specifications are subject to change without notice. Please check the Chalmit website for latest specifications.  
[www.hubbell.com/chalmit](http://www.hubbell.com/chalmit)



For a truly interactive introduction to our revolutionary **Evolution X** floodlight visit [www.hubbell.com/chalmit/en/Evolution-x](http://www.hubbell.com/chalmit/en/Evolution-x)



# The X SERIES Has Evolved

A DEDICATED ENERGY SAVING LED LUMINAIRE FOR EVERY APPLICATION



## Protecta X

ZONE 1 and Industrial Linear LED



## Evolution X

ZONE 1 LED Floodlight



## Arran X

ZONE 2 and Industrial LED Floodlight



## NEO X

ZONE 1 LED Bulkhead

Safety, reliability, ease of installation and maintenance is at the heart of our X Series design philosophy. We utilise the latest LED chip technology, to enable us to guarantee optimum light output performance and increased service life. We understand the challenges of extreme environments and constantly push boundaries to provide real and innovative solutions.

Be the first to know about our latest X Series innovations at [www.chalmit.com](http://www.chalmit.com)

A large, stylized blue 'X' graphic is centered on a dark background. The background features a blurred industrial scene, possibly a refinery or power plant, with various structures and lights. The text 'X SERIES' is prominently displayed in the center of the 'X' shape.

**X SERIES**

# Chalmit® EVOLUTION X

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Chalmit®