





LEDSOLUTIONS For Harsh & Hazardous Locations

Our LED Product Range

Chalmit has over a century's worth of experience in providing cutting edge lighting solutions to harsh, hazardous and marine markets.

As a pioneer of the world's first Zone 1 LED luminaire; the NexLED back in 2005; Chalmit has continued to invest in the unique characteristics of solid state lighting technologies to develop a proven track record in this field.

Our in-house research & development facility has benefited from this investment to help us successfully develop products with the unique characteristics required from our customers.

The result is a complete, proven and reliable range of LED luminaires with our underlying design philosophy at its heart - **Quality, Reliability and Low Maintenance.**





Made in Britain

Chalmit® products are designed and manufactured in the UK. We are proud to endorse and sustain a great tradition in engineering and innovation.





This versatile range of luminaires is a truly global lighting solution with versions available and specific to Zone 1, Zone 2 and Industrial applications.

When the HDL106 was introduced in 2009 it was hailed as 'the future of hazardous area lighting' due to its weight and power savings. With Chalmit's reputation for quality, reliability and safety the HDL106 continues to be as impressive then as it is now.

LED technology has revolutionised the market allowing up to 50% power savings compared against conventional HID luminaires. These power savings increase the lifespan of the HDL106 too, with over 150,000 maintenance free hours @ 25°C (L70) alongside a robust marine grade construction.

The HDL106N has been fitted with a new diffuser, ensuring that impact and IP requirements are satisfied throughout the range. Rigorous in-house and third party testing ensures that each luminaire not only meets, but exceeds certification authorities, Chalmit's and our customers' expectations.

Find Out More

For all order enquiries contact our Sales Team

T: +44 (0)141 882 5555 E: getintouchuk@hubbell.com

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HDL106N

Ex e LED Floodlight

The **HDL106N** is a lightweight and compact Zone 1 floodlight which can be interlinked to provide an effective LED alternative to traditional HID floodlights, up to 250W.

With a variety of beam options, extensive ambient range and marine grade construction, this is a global lighting solution to suit any harsh and hazardous application.





Mounting Options

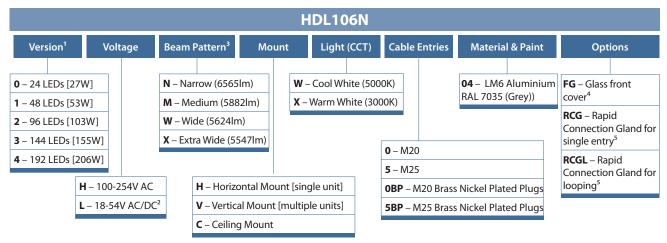
Floodlight. Pendant. Bulkhead. High Bay. Pole/Column. Road Lighting.

Standard Specification

HDL106N Ex e LED Floodlight

ADLITION EX 9 LED Floodlight	
Type of Protection	Ex e mb (Increased Safety, Encapsulation) 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 Sira 09ATEX5159X IECEx Certificate of Conformity IECEx SIR 09.0064X
Coding	Ex e mb IICT4/T3 Gb Ex tb IIICT103°C Db
Ambient °C	-20 to +50 (T4) / +59.5 (T3)
Enclosure	LM6 Aluminium with epoxy powder finish (RAL 7035) and Polycarbonate diffuser
Entry	2 x M20 cable entries
Termination	3 core 4mm² max. conductor with looping
Installation	Stirrup mounting bracket
Control Gear	Electronic Driver
Colour Temperature (CCT)	Refer to Ordering Matrix
Colour Rendering Index (Ra)	>70
Maintenance	M8 Hex Head and M6 SKT Head
Ingress Protection	IP66/67 to EN 60529
Surge Protection	4kV line to line, 6kV line to earth
Electrical Supply	Refer to Ordering Matrix

- Highly Energy Efficient
- Instant on crisp white light output
- Modular design allowing up to four interlinked luminaires, each providing a delivered output > 5500lm
- Lower power consumption than HID lamps
- Lightweight (6kg per module) lighting solution
- >150,000 maintenance free hours at 25°C (L70)



¹Power consumption provided in square brackets

Typical ordering reference:

HDL106N1HWHW004FG

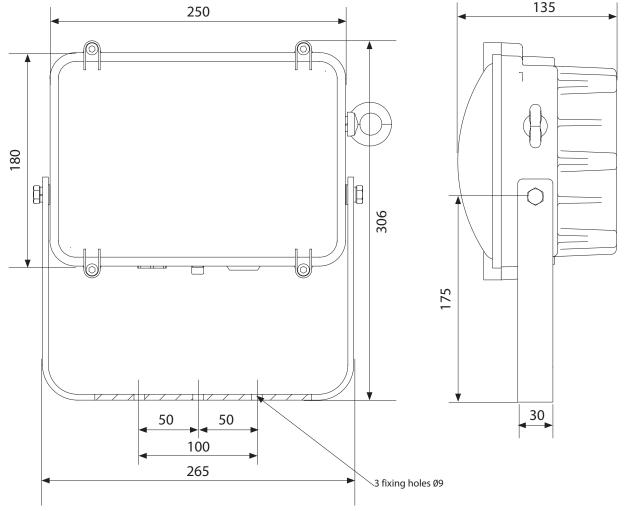
Accessories Should be ordered separately

Crane Damper Bracket (96 LEDs Twin Module)
Crane Damper Bracket (144 LEDs Triple Module)

Order Code
SHDL1-000002

SHDL1-000003

Single unit (24/48 LEDs)



²Upper ambient becomes +55°C. Coding becomes 'Ex e mb IIC T4 Gb; Ex tb IIIC T87°C Db'

³ Delivered outputs based on single module 48LED version

⁴ Standard Cover Front Clear Polycarbonate (No Abbreviation required)

⁵ Factory fitted with 4pin Rapid Connection Gland entry only. Purchaser to supply appropriately sized RCG body as determined by site specific cable requirement.



HDL106NE

Ex e LED Floodlight

The **HDL106NE** is a distinctive Emergency LED luminaire allowing up to three modules interlinked, providing an effective and efficient alternative to traditional battery-backed luminaires. With a variety of beam options available, and integral battery backup allowing for either 90 minutes or 3 hours battery duration, this is a flexible solution for any Emergency or Escape to Sea application.





Mounting Options

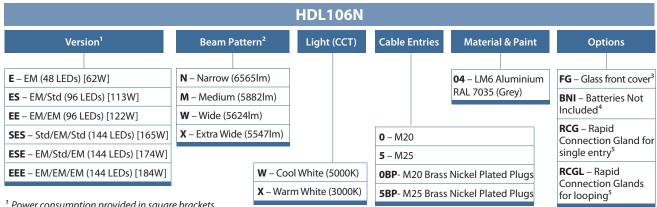
Floodlight. Pendant. Bulkhead. High Bay. Pole/Column. Road Lighting.

Standard Specification

HDL106NE Ex e LED Floodlight

3	
Type of Protection	Ex e mb (Increased Safety, Encapsulation) 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 Sira 09ATEX5159X IECEx Certificate of Conformity IECEx SIR 09.0064X
Coding	Ex e mb IICT4 Gb Ex tb IIICT103°C Db
Ambient °C	-20 to +50
Enclosure	LM6 Aluminium with epoxy powder finish (RAL 7035) and Polycarbonate diffuser
Entry	2 x M20 cable entries
Termination	4 core 4mm ² max. conductor with looping
Installation	Stirrup mounting bracket
Control Gear	Electronic Driver
Colour Temperature (CCT)	Refer to Ordering Matrix
Colour Rendering Index (Ra)	>70
Maintenance	M8 Hex Head and M6 SKT Head
Emergency Duration	90mins (75%) or 3hrs (37.5%)
Ingress Protection	IP66/67 to EN 60529
Surge Protection	4kV line to line, 6kV line to earth
Electrical Supply	100-254V AC 50/60Hz

- Highly Energy Efficient
- Instant on crisp white light output
- Modular design allowing up to three interlinked luminaires, each providing a delivered output > 5500lm
- Lower power consumption than HID lamps
- Lightweight (9kg per module) lighting solution
- >150,000 maintenance free hours at 25°C (L70)

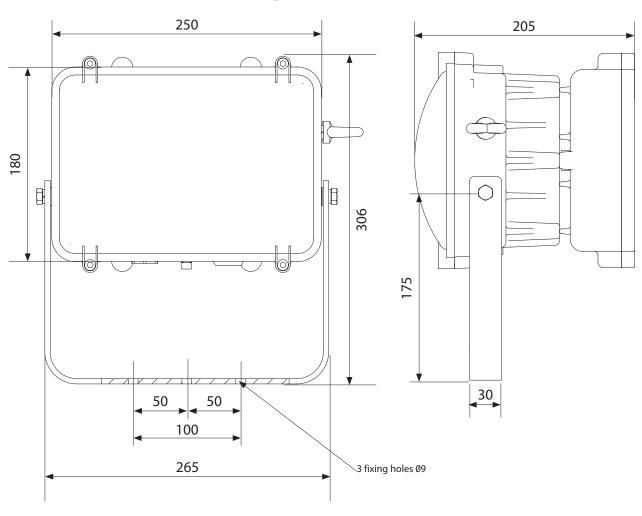


¹ Power consumption provided in square brackets

Typical ordering reference:

HDL106NESMW004FG

Single unit (48 LEDs)



² Delivered outputs based on single module 48LED version

³ Standard Cover Front Clear Polycarbonate (No Abbreviation required)

⁴Battery assembly HDLAL11131S to be ordered separately when required by site. Qty 1 HDLAL11131S assembly per emergency unit e.g. HDL106NESE*** requires Qty 2 HDLAL11131S.

⁵ Factory fitted with 4pin Rapid Connection Gland entry only. Purchaser to supply appropriately sized RCG body as determined by site specific cable requirement.



HDL206N

Ex e LED Floodlight

The **HDL206N** is an outstanding luminaire allowing up to four modules interlinked, providing an effective and efficient replacement for conventional high power HID floodlights, up to 250W.

With multiple beam options available, and a wide ambient range, this is a truly universal solution for all Zone 2 applications.





Mounting Options

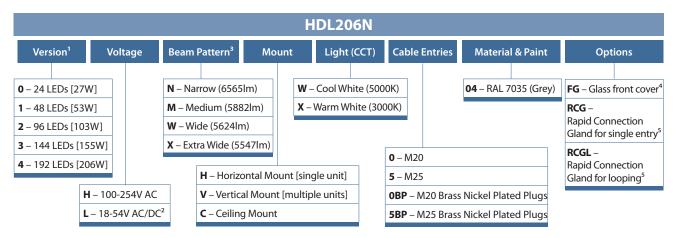
Floodlight. Pendant. Bulkhead. High Bay. Pole/Column. Road Lighting.

Standard Specification

HDL206N Ex e LED Floodlight

TIDE200N EX E LED Floodlight	
Type of Protection	Ex e mb (Increased Safety, Encapsulation) Ex tb (Dust Protected Enclosure)
ATEX Classification	Group II Category 3 GD
Area Classification	Zone 2 and Zone 22 areas to EN 60079-10-1 and EN 60079-10-2 with installation to EN 60079-14
Certificate	Type Examination Certificate Sira 11ATEX4314X
Coding	Ex e mb IIC T4/T3 Gc Ex tb IIIC T103°C Dc
Ambient °C	-20 to +50 (T4) / +59.5 (T3)
Enclosure	LM6 Aluminium with epoxy powder finish (RAL 7035) and Polycarbonate diffuser
Entry	2 x M20 cable entries
Termination	3 core 4mm ² max. conductor with looping
Installation	Stirrup mounting bracket
Control Gear	Electronic Driver
Colour Temperature (CCT)	Refer to Ordering Matrix
Colour Rendering Index (Ra)	>70
Maintenance	M8 Hex Head and M6 SKT Head
Ingress Protection	IP66/67 to EN 60529
Surge Protection	4kV line to line, 6kV line to earth
Electrical Supply	Refer to Ordering Matrix

- Highly Energy Efficient
- Instant on crisp white light output
- Modular design allowing up to four interlinked luminaires, each providing a delivered output > 5500lm
- Lower power consumption than HID lamps
- **Lightweight** (6kg per module) lighting solution
- 150,000 maintenance free hours at 25° (L70)



¹Power consumption provided in square brackets

Typical ordering reference:

HDL206N1HWHW004

Accessories Should be ordered separately

		Order Code
Crane Dam	per Bracket (96 LEDs Twin Module)	SHDL1-000002
Crane Dam	per Bracket (144 LEDs Triple Module)	SHDL1-000003

Single unit (24/48 LEDs) 250 250 250 3 fixing holes @9

² Upper ambient becomes +55°C. Coding becomes 'Ex e mb IIC T4 Gb; Ex tb IIIC T87°C Db'

³ Delivered outputs based on single module 48LED version

⁴ Standard Cover Front Clear Polycarbonate (No Abbreviation required)

⁵ Factory fitted with 4pin Rapid Connection Gland entry only. Purchaser to supply appropriately sized RCG body as determined by site specific cable requirement.



HDL206NE

Ex e LED Floodlight

The **HDL206NE** is a compact Emergency LED luminaire allowing up to three modules interlinked, providing an effective and efficient replacement to traditional battery-backed luminaires.

With its lightweight construction, and variety of beam options already available, the addition of an integral battery makes this is a global solution for any Zone 2 application.





Mounting Options

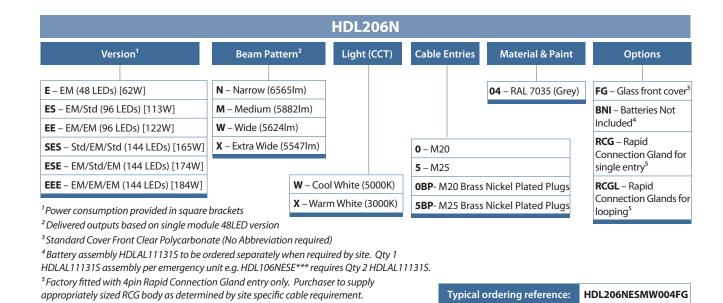
Floodlight. Pendant. Bulkhead. High Bay. Pole/Column. Road Lighting.

Standard Specification

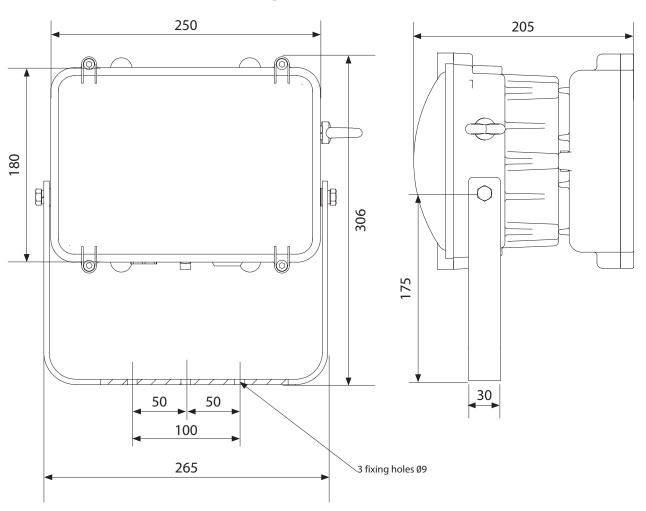
HDL206NE Ex e LED Floodlight

TIDEZOGITE EX C EED TIGGGIIGHT	Tibezoone ex e eed floodiight	
Type of Protection	Ex e mb (Increased Safety, Encapsulation) Ex tb (Dust Protected Enclosure)	
ATEX Classification	Group II Category 3 GD	
Area Classification	Zone 2 and 22 areas to EN 60079-10-1 and EN 60079-10-2 with installation to EN 60079-14	
Certificate	Type Examination Certificate Sira 11ATEX4314X	
Coding	Ex e mb IIC T4 Gb Ex tb IIIC T103°C Db	
Ambient °C	-20 to +50	
Enclosure	LM6 Aluminium with epoxy powder finish (RAL 7035) and Polycarbonate diffuser	
Entry	2 x M20 cable entries	
Termination	4 core 4mm ² max. conductor with looping	
Installation	Stirrup mounting bracket	
Control Gear	Electronic Driver	
Colour Temperature (CCT)	Refer to Ordering Matrix	
Colour Rendering Index (Ra)	>70	
Maintenance	M8 Hex Head and M6 SKT Head	
Emergency Duration	90mins (75%) or 3hrs (37.5%)	
Ingress Protection	IP66/67 to EN 60529	
Surge Protection	4kV line to line, 6kV line to earth	
Electrical Supply	100-254V AC 50/60Hz	

- Highly Energy Efficient
- Instant on crisp white light output
- Modular design allowing up to three interlinked luminaires, each providing a delivered output > 5500lm
- Lower power consumption than HID lamps
- Lightweight (9kg per module) lighting solution
- >150,000 maintenance free hours at 25°C (L70)



Single unit (48 LEDs)





HDN106N

LED Floodlight

The **HDN106N** is an outstanding luminaire, with a variety of beam options to suit any industrial application.

Up to four modules can be interlinked to increase the output without impacting on the product performance, and provide an effective replacement for conventional HID floodlights, up to 250W.





Mounting Options

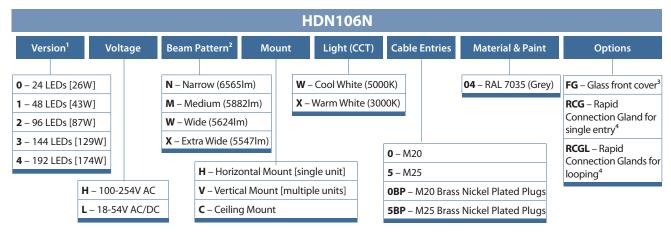
Floodlight. Pendant. Bulkhead. High Bay. Pole/Column. Road Lighting.

Standard Specification

HDN106N LED Floodlight

Ambient °C	-20 to +55
Enclosure	LM6 Aluminium with epoxy powder finish (RAL 7035) and Polycarbonate diffuser
Entry	2 x M20 cable entries
Termination	3 core 4mm ² max. conductor with looping
Installation	Stirrup mounting bracket
Control Gear	Electronic Driver
Colour Temperature (CCT)	Refer to Ordering Matrix
Colour Rendering Index (Ra)	>70
Maintenance	M8 Hex Head and M6 SKT Head
Ingress Protection	IP66/67 to EN 60529
Surge Protection	4kV line to line, 6kV line to earth
Electrical Supply	Refer to Ordering Matrix

- Highly Energy Efficient
- Instant on crisp white light output
- Modular design allowing up to four interlinked luminaires, each providing a delivered output > 5500lm
- Lower power consumption than HID lamps
- **Lightweight** (6kg per module) lighting solution
- >150,000 maintenance free hours at 25°C (L70)

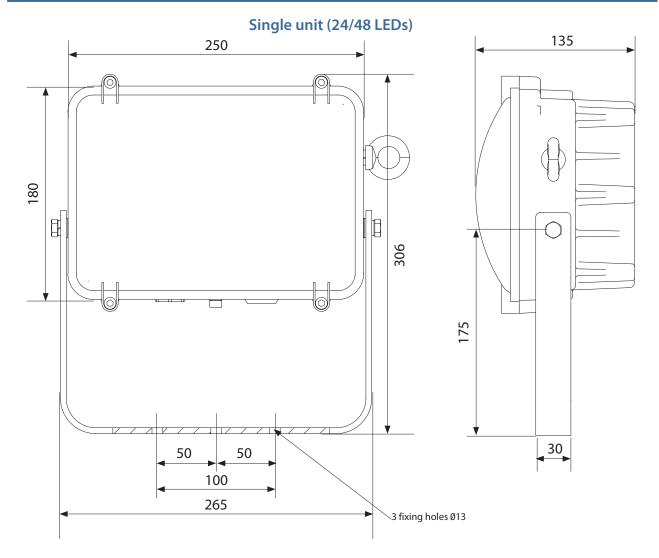


¹Power consumption provided in square brackets

Typical ordering reference: HDN106N1HWHW004FG

Accessories Should be ordered separately

Order Code Crane Damper Bracket (96 LEDs Twin Module) SHDL1-000002 Crane Damper Bracket (144 LEDs Triple Module) SHDL1-000003



² Delivered outputs based on single module 48LED version

³ Standard Cover Front Clear Polycarbonate (No Abbreviation required)

⁴ Factory fitted with 4pin Rapid Connection Gland entry only. Purchaser to supply appropriately sized RCG body as determined by site specific cable requirement.



HDN106NE

LED Floodlight

The **HDN106NE** is a distinctive Emergency LED luminaire allowing up to three modules interlinked, providing an effective and efficient replacement to traditional battery-backed luminaires.

With a wide ambient range and multiple beam options available, this is a truly global industrial solution for any application where Emergency lighting is required for a period of 90mins or 3hrs.





Mounting Options

Floodlight. Pendant. Bulkhead. High Bay. Pole/Column. Road Lighting.

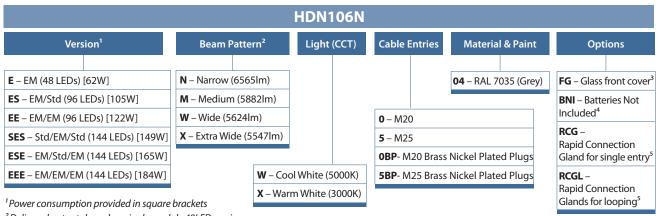
Standard Specification

HDN106NE LED Floodlight

TIDIN TOONE EED TIOOUIIGIIC	
Ambient °C	-20 to +55
Enclosure	LM6 Aluminium with epoxy powder finish (RAL 7035) and Polycarbonate diffuser
Entry	2 x M20 cable entries
Termination	4 core 4mm ² max. conductor with looping
Installation	Stirrup mounting bracket
Control Gear	Electronic Driver
Colour Temperature (CCT)	Refer to Ordering Matrix
Colour Rendering Index (Ra)	>70
Maintenance	M8 Hex Head and M6 SKT Head
Emergency Duration	90mins (75%) or 3hrs (37.5%)
Ingress Protection	IP66/67 to EN 60529
Surge Protection	4kV line to line, 6kV line to earth
Electrical Supply	100-254V AC 50/60Hz

- Highly Energy Efficient
- Modular design allowing up to three interlinked luminaires, each providing a delivered output > 5500lm
- Instant on crisp white light output

- Lower power consumption than HID lamps
- Lightweight (9kg per Emergency module) lighting solution
- >150,000 maintenance free hours at 25°C (L70)

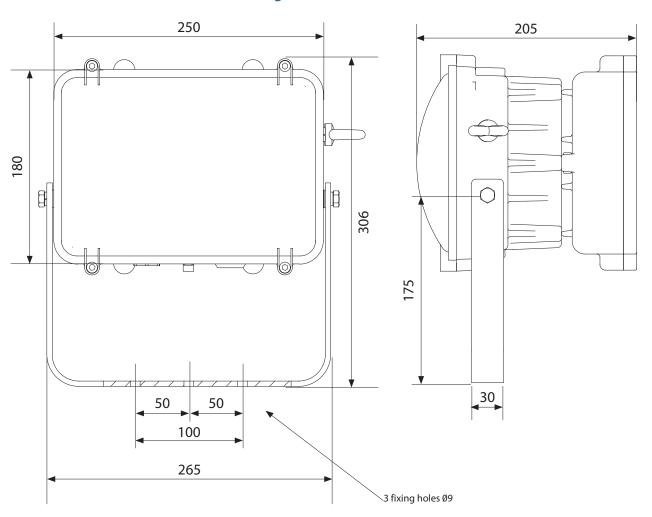


² Delivered outputs based on single module 48LED version

Typical ordering reference: HDN

HDN106NESMW004FG

Single unit (48 LEDs)



³ Standard Cover Front Clear Polycarbonate (No Abbreviation required)

 $^{^4}$ Battery assembly HDLAL11131S to be ordered separately when required by site. Qty 1 HDLAL11131S assembly per emergency unit e.g. HDL106NESE*** requires Qty 2 HDLAL11131S.

 $^{^5}$ Factory fitted with 4pin Rapid Connection Gland entry only. Purchaser to supply appropriately sized RCG body as determined by site specific cable requirement.



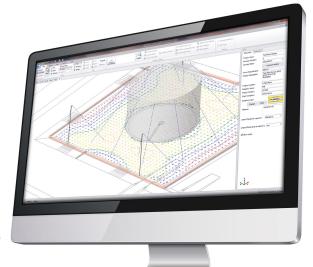
Lighting Design Software

Chalmit's Hazardous Area and Industrial Lighting Design Software **ChalmLite 6** has been developed specifically for the Harsh & Hazardous industry and is free to download.



With a simple Windows-based user interface and enhanced key features, the software allows users to create designs that range from simple to very complex layouts.

- Realistically rendered views
- Normal, escape and essential calculation facility
- Integrated CAD layer manager and CAD element tools
- Improved estimator, with single-page report option
- Luminaire selection by lumen range and hazardous classification













More than a Cable Gland

The ultimate hybrid of Cable Gland and Connector makes Hawke's RCG the perfect partner to Chalmit LED luminaires.

The 501/RCG (Rapid Connection Gland) combines the features of Hawke's market leading Cable Gland range with the plug and play benefits of a connector.

The Rapid Connection Gland provides rapid termination and disconnection in a costeffective package, reducing ownership expenses by decreasing the time it takes to carry out essential inspection, maintenance and repair.



The RCG Coupler provides the means to extend an existing cable without the need to use a junction box, or a more permanent splice kit. Combining two RCG cable glands and a simple termination system makes upgrading installations fast and easy.



View Hawke's full range of products at www.hubbell.com/hawke







SUSTAINABILITY At Hubbel

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

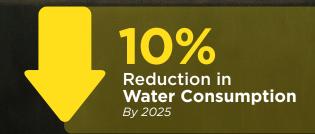
We are continually developing products and processes that support sustainability and offer energy efficient solutions for our customers and partners.

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

Our ESG Goals





Hubbell have been recognised as one of 2023's most ethical companies



WHERE WE ARE

- Expanded public ESG disclosures, including alignment with leading sustainability frameworks
- Established goals for reducing greenhouse gas emissions and water consumptions
- Launched sustainability website and increased employee awareness of ESG topics
- Hired sustainability and diversity leaders to manage and drive ESG efforts
- Signed the Paradigm for Parity pledge and were recognized as one of the 2021 World's Most Ethical Companies
- Enhanced focus on products that enable sustainability for customers and value chain



WHERE WE'RE HEADED

- Publishing an inaugural sustainability report and enhancing climate change disclosures
- Expanding and refining company wide sustainability strategy
- Formalizing Hubbell's sustainability governance and ESG policies
- Pursuing product stewardship and circular economy opportunities
- Promoting sustainability and managing risks in Hubbell's supply chain
- Developing new environmental and social targets
- Increasing supplier diversity and engaging with vendors on ESG topics



Social Responsibility

- Host two Employee Inclusion Groups:
 Women Advancing Their Careers At
 Hubbell (WATCH)
 and Multicultural Men (MCM)
- Hubbell Foundation donated over \$1 million in 2020
- Employee development formalized through Hubbell University



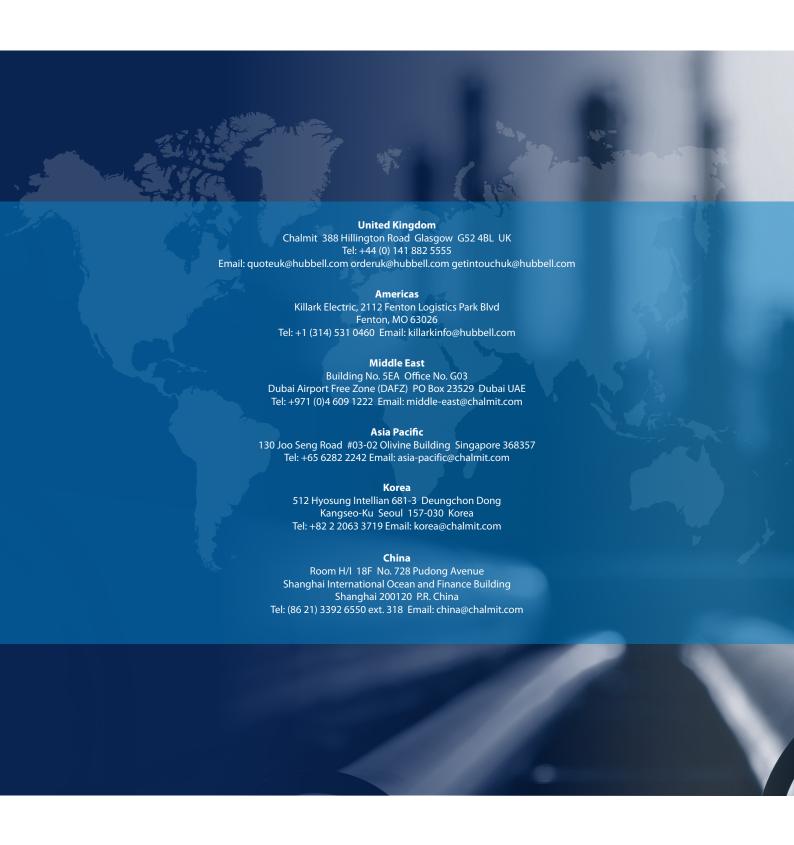
Environmental Stewardship

- Track environmental performance including greenhouse gas emissions, water and waste
- Audited largest facilities for energy reduction opportunities and implementing efficiency initiatives
- Launched a Hubbell Sustainability and Infrastructure Management Handbook which provides guidelines on improving the efficiency and sustainably of our facilities



Products With Impact

- Offer products that support renewable energy infrastructure
- LED lighting products allow for greater energy efficiency
- All products are designed with reliability and safety in mind





A proud member of the Hubbell family.