



**LED Solutions
for Hazardous Areas**

Quality, Reliability and Low Maintenance

Chalmit have over a century's worth of experience in providing cutting edge lighting solutions to hazardous and marine markets. We understand the unique characteristics of LED technology and have a proven track record, pioneering the world's first Zone 1 LED luminaire; the NexLED back in 2005.

As a business we have invested in the development of solid state lighting technologies to develop solutions that meet the exacting requirements of the Oil, Gas & Petrochemical industries.

The result is a proven and reliable range of LED luminaires that compliment and enhance our fluorescent and HID products.

At the heart of each new design is our underlying philosophy – quality, reliability and low maintenance.

Protecta LED

The Protecta is acknowledged as the number one offshore and marine fluorescent on the market. Utilising the proven, rugged enclosure, Protecta is now available as an LED version and delivers the equivalent light output to 2x18W & 2x36W fluorescent lamps. The innovative design has been engineered to equal the light output and distribution of traditional fluorescent luminaires.

In addition to the low maintenance benefits that LEDs provide, the luminaire is also ideally suited to low temperature applications.

For operation in ambient temperatures as low as -45°C, LEDs significantly out perform fluorescent light sources offering many advantages in these arduous conditions. To ensure reliability, the Protecta body is also certified for use in these extreme environments.

Specification

Coding	Ex de mb IIC T5 Gb, Ex tb IIIC T85°C Db
Ingress Protection	IP66/67
Ambient range	-45°C to +55°C
Light Output	5,000 lumens (typical)
Continuous operation	60,000 hours*
Construction	GRP body with polycarbonate diffuser
Emergency duration	100% for 90 minutes 50% for 3 hours



Benefits of LED lighting

- Ideally suited to operation in low temperature environments
- Low power consumption
- Instant on – 100% light output immediately, even in emergency mode
- 60,000 hours continuous operation*
- Environmentally friendly, mercury free
- Ideal replacement for incandescent & mercury vapour lamp sources

* 60,000 hours expected at 40°C ambient L70/B10



Nevis

Built around the existing robust construction, the Nevis LED bulkhead will produce an instant bright white light which has a longer life and high efficiency delivering light output equivalent to a 70W HPS. Designed for low profile applications, the bulkhead can be mounted on walls, handrails and ceilings - ideal for walkways or restricted height areas.

The Nevis has a side mounted increased safety terminal chamber, this eliminates the need for flameproof glands and allows for flush mounting with easy cable access. The wide ambient temperature range makes the Nevis suitable for extreme environmental conditions.

Specification

Coding	Ex de IIB
Ingress Protection	IP66/67
Ambient range	-55°C to +55°C
Light output	3,042 lumens (typical)
Continuous operation	60,000 hours (70% initial lumens)
Construction	LM6 aluminium and toughened glass



Solas

Designed with the latest high output LEDs, and enclosed within a field proven marine grade aluminium body, the Solas floodlight is guaranteed to perform even in the most arduous marine environments.

Solas can operate from mains power or from internal rechargeable batteries and produces an instant white light equivalent to a 70W HPS lamp for its application. These unique characteristics provide a flexible luminaire that is as well suited to providing focused area lighting, illuminating safety critical areas in an emergency situation. A remote inhibition facility is also available on emergency versions.

The range is available with options for emergency operation down to -55°C making it ideal for low temperature applications.

Specification

Coding	Ex de IIB T5
Ingress Protection	IP66/67
Ambient range	-55°C to +55°C
Light output	4,000 lumens (typical)
Continuous operation	60,000 hours*
Construction	LM6 aluminium enclosure with toughened glass window
Emergency duration	100% for 90 minutes 50% for 3 hours

NexLED

Since its launch in 2005, the NexLED has been successfully installed in some of the most extreme locations on the planet. Even with temperatures regularly dropping to -50°C, the battery backup luminaire continues to function perfectly. Solid state lighting is advancing at a rapid pace. This compact Zone 1 bulkhead continues to evolve. The NexLED now incorporates the latest generation of high output LEDs producing an output of over 1,000 lumens.

The NexLED is available with 2 or 8 LED configurations and as a standard or battery backup emergency version. Optional exit signs can also be supplied.

Specification

Coding	Ex II 2 GD, Ex e ib mb IIC T4
Ingress Protection	IP66/67
Ambient range	-45°C to +55°C
Light output	1,000 lumens (typical)
Continuous operation	60,000 hours*
Construction	LM6 aluminium and toughened glass
Emergency duration	8W – 90 minutes 2W – 3 Hours



Nexus II

This low power, Zone 2 bulkhead is suitable for a wide range of applications as it can be wall, ceiling or rail mounted. The compact design and optimised light distribution equivalent to a 200 GLS (incandescent lamp) for use in low to medium mounting heights make it ideal for illuminating corridors, stair and gangways or storage areas.

Specification

Coding	Ex II 3 GD Ex mc nA IIC T5
Ingress Protection	IP66/67
Ambient range	-45°C to +55°C
Light output	1,500 lumens (typical)
Continuous operation	60,000 hours*
Construction	LM6 aluminium and toughened glass

Chalmit

poised and ready for the next
100 years of innovation



Chalmit
Experts in Oil & Gas
Marine • Petrochemical
Specialist Environmental Applications
Nuclear • Portable & Temporary Lighting



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