

# Modular LED Luminaire

## Specification:

**Main Body:**

Marine Grade Aluminium

**Diffuser:**

Polycarbonate

**Gaskets:**

Silicone

**External Fasteners:**

A4 Stainless Steel

**Stirrups Bracket:**

316 Stainless Steel

**T Rating:**

T4 (T6 version available, see HDL106A)

**Weight:**

6.0kg per module



## Key Features:

- Modular construction allows the modules to be supplied interlinked with each other to provide greater light output.
- Can be used as a single unit – small floodlight or bulkhead or linked together to replicate a large 250W/400W floodlight.
- Each module utilises 48 off 1.2W LED's
- Integrated power supply.
- Low power consumption.
- Rugged construction – resistant to vibration.
- Independently photometrically tested.
- All units supplied with 2 cable entries. Additional entries available on request.
- IP66 and IP67.
- Optional wire guard available for extra protection.
- Infra red variants available (for use with security cameras).
- Narrow, Medium, Wide and Extra Wide beam light output available.
- Multiple mounting options available.
- Emergency version available - see data sheet HDL106E.

**In comparison to typical Ex d floodlights:**

- 60% less weight.
- 50% less power consumption.
- One man installation.
- LED technology will give a predicted lamp life of 10 years+.
- No light pollution.
- Instant start and restrike.
- No light degradation at low temperatures.
- Penetrating white light.
- Photocell option available.
- No flamepaths to maintain.
- Low cost of installation, operation and maintenance.

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SUPPLIES

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Protection:

Ex II 2 G D Ex emb IIC T4 Gb, Ex t IIIC T103°C Db IP66/67

Certification: ATEX, IECEx, ABS & CSA certified.

	Certification	Ambient	Voltage Range	Certificate
HDL106S	Ex II 2 G D Ex emb IIC T4 Gb, Ex t IIIC T103°C Db IP66/67  Class I, Div 2 Groups ABCD Class II, Div 1 & 2 Groups EFG	-20°C to +50°C	110V to 240V AC input 24V AC/DC*  *Not available on 24 LED versions.	IECEx SIR 09.0064X SIRA 09ATEX5159X ABS 11-LD801943-PDA CSA 2578781



Vertical mount

Electrical Specifications:

Electrical Specification			
Lamp Options	Power consumption	Power factor	Available power supplies
24 x 1.2W LED's	30W	0.95	110V – 240V 50/60Hz AC only or 24V AC/DC
48 x 1.2W LED's	60W		
96 x 1.2W LED's	120W		
144 x 1.2W LED's	180W		



Horizontal mount

Installation:

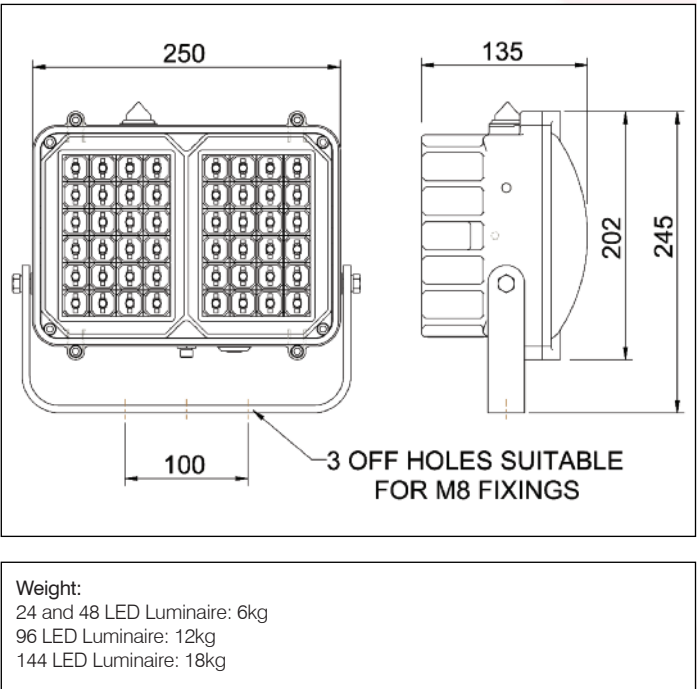
**Terminals:** Up to 4mm<sup>2</sup> terminals for live, neutral, earth and looping are provided. Internal and external earth as standard.  
**Cable Entries:** 2 x M20, one fitted with approved stopper plug, other entries available on request.  
**Suspension:** Via stirrup bracket, other mounting accessories available. Stainless steel eyebolt for safety chain included as standard.  
**Installation:** Installation document AL10578 supplied.

Ordering Matrix:

Field	Options
Product	HDL106S
Version (LEDs)	0 – 24 LEDs 1 – 48 LEDs 2 – 96 LEDs 3 – 144 LEDs
Voltage	H – 110 - 240V AC only L – 24V AC/DC
Beam Pattern	N – Narrow M – Medium W – Wide X – Extra wide
Mount*	H – Horizontal mount (single module version only) V – Vertical mount (twin/triple module version only) C – Ceiling mount
Light	W – Cool White light X – Warm White light Other colours available on request
Cable Entries	0 – M20 5 – M25
Other Options	04 – Colour RAL 7035 (Grey) 09 – Colour RAL 7035 (Grey) c/w Photocell

*\*Mount refers to positioning of module on stirrup bracket, please refer to the below photographs.*

Dimensions:



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