



BRILLIANT • CONNECTED

Versatile. High-performing. Smart.

Our classic Bulkhead is now fitted with BitCortex wireless networking nodes, combining the original high performance and versatility with cutting-edge technologies and digitisation capabilities.





Designed for use in:

- Exit Routes
- Platforms
- Walkways
- Stairwells
- SubstationTunnels
- Conveyors





Optimal for wildlife & humans

EMBH3 can be switched between wildlife friendly Amber and White for maximum alertness.



TURTLE FRIENDLY

In many coastal areas white light may not be permitted for use, as it is believed to be disrupting breeding cycles of certain species of sea turtles.

Coolon has specifically designed the EMBH3 to have the ability to switch in 591nm (nanometers) Amber that is in the region of their lowest visual sensitivity.



Better over time

TRAC

Over-the-air updates add functionality, enhancing the utility of lighting and the network. The only light that gets better over time.

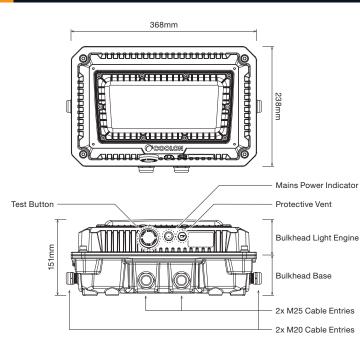
Enables digitisation

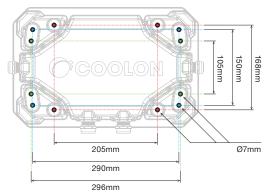


Lights automatically mesh together forming a site-wide wireless network enabling the effortless deployment of a wide range of IoT based sensors and services from compatible third-party providers:

- Asset Tracking
- Personnel Location Tracking
- ... and many more!

DIMENSIONS





NOTE: Cable glands not supplied. The unit is supplied with plugs.

TECHNICAL SPECIFICATIONS

Product	Emergency Bulkhead 3 Smart Ind	dustrial LED - EMBH3	Environmental			
Mode	Mains Powered (MP)	Emergency (EM)	IP Rating	IP66		
			Impact Rating	IK09		
Optical Characteristics 1			Salt Spray Tested	Yes		
Luminous Flux (Photometered)	4,291 - 4,617 lm (CWT / NWT)	1,541 lm	Operating Temp. Range	0 to +50°C		
	3,219 – 3,545 lm (AMB)		Thermal Management Type	Active / Continuous		
CCT ²	CWT & AMB / NWT & AMB	CWT	Expected Lifespan ⁵	50,000 Hours to 70% Brightness		
CRI	>72 (CWT / NWT)	>70	Material Composition (Body)	ADC12 Aluminium Alloy Polyester Powder Coate		
	>58 (AMB)		Material Composition (Cover)	Polycarbonate		
Electrical Characteristics 1			Cable Ø Entry Range	M20 10 – 13mm, M25 13 – 15.5mm		
Power Consumption (Typical)	24 FW((Turn) @ 220 240\/AC FO					
Power Consumption (Typical) Power Consumption (Charging)	34.5W (Typ) @ 220-240VAC, 50-60Hz, full load		Storage			
Nominal Voltage	40.0W (Typ) @ 220-240VAC, 50- 230VAC	buriz, iuli load	Temperature	0 to +45°C		
			Shelf Life ⁵	Up to 12 months @ 20±5°C		
Voltage Range ³ Frequency Range	176 – 305VAC, 190 – 250VDC					
	50 / 60Hz		Weight/Packaging			
Power Factor	>0.90 @ 220-240VAC, 50-60Hz, 60%-100% load		Luminaire Weight	6.6kg		
Leakage Current	<0.75mA typical @ 240VAC/60Hz		Packaging Dimensions	380 x 250 x 210mm		
Charge Time	≤16 hours		Packaged Weight	7.3kg		
Battery Type	LiFePO4					
Battery Lifetime	2,000 cycles to 70% SOC		Compliance (Safety Standards)			
EM Discharge Time	120 minutes initial / 90 minutes	n service	AS/NZS 60598.1	Luminaires - General Requirements and Tests		
			AS/NZS 2293	Emergency lighting and exit signs for buildings		
Lighting Control ²	45 4000/		AS/NZS 60598.2.3	Luminaires - Particular requirements -		
Dimming	15 – 100%			For road and street lighting		
Lighting Control	CWT / NWT or AMB					
			Compliance (EMC)			
Wireless Communication		AS/NZS CISPR15	Limits and methods of measurement of radio			
Protocol	Wirepas			disturbance characteristics of electrical lighting and similar equipment		
Operating Band	2.4 GHz, 40 Channels 15 – 30 metres line of sight AES-128		AS/NZS 4268	Radio equipment and systems - Short range devices - Limits and methods of measurement		
Typical Range 4			A0/1120 4200			
Data Encryption						
Network Standby Time	Up to 24 hours during power outage		Warranty			
Wirepas Mode	Router, low latency		Warranty	5 years warranty as standard		

¹ Optical and electrical characteristics are measured using Neutral White LEDs (NWT).

Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

² Wirelessly selectable or event triggered. Lighting Control via BitCortex. Additional specification data will be available at a later date.

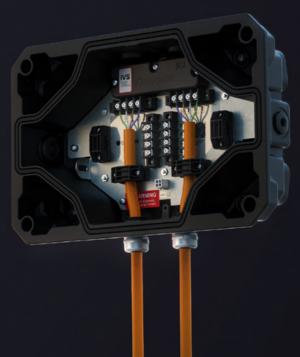
^a Certified voltage range : 200 - 240VAC, 190 - 250VDC @ 50/60Hz.

⁴ Wireless range might significantly vary depending on the type of antennas used, elevation above the ground, presence of metal obstacles and environmental conditions. Wireless coverage could be optimised with increased amount of devices forming mesh network.

⁵ Shelf life time with Battery Switch in OFF position is defined as time since product dispatch from Coolon, or since last charge cycle. The light source of this luminaire is not replaceable, when the light source reaches its end of life the whole luminaire shall be replaced.







Designed with the installer in mind

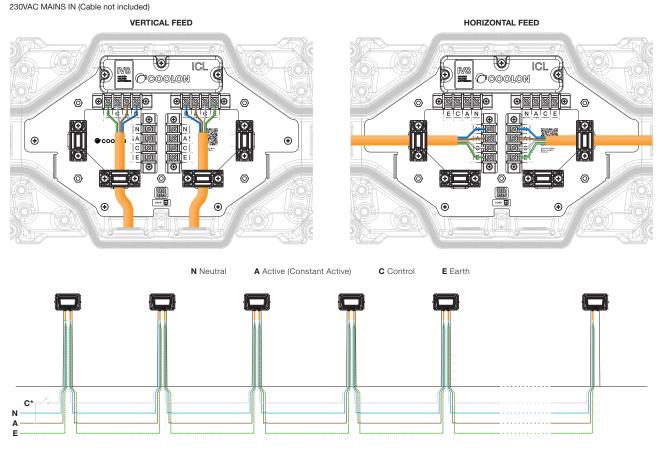
Multiple entry points, easily-accessible terminal block, and removable body. All these aspects make installation a breeze. "Straight off, straight on!"

Universal mount design

Designed with a universal mount to retrofit the hole patterns of most common bulkhead lights on the market, the EMBH3 is an easy and quick to install.

WIRING CONFIGURATION

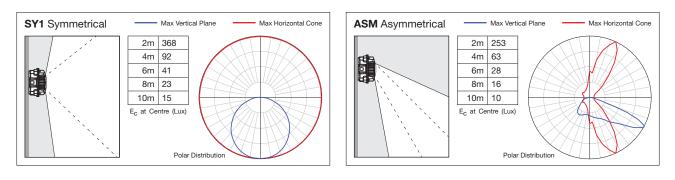
EMBH3 - MP



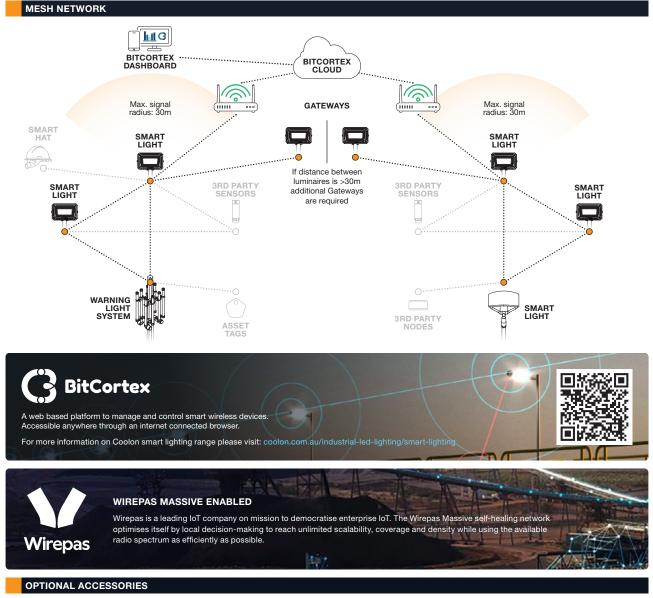
* Optional Control Wire - luminaire can be digitally switched via BitCortex

COLOUR TEMPERATURES								
	AMBER 1800K	WARM WHITE ≤ 3250K	NEUTRAL WHITE 3251K – 4250K		COOL WHITE 4251K ≥			
1000K	1 2000К	3000K	и 4000К	5000K	і 6000К	тооок	8000K	
All colou	r temperatures are indic	ative. Some variation can	occur.					

POLAR DISTRIBUTION







Optional accessories available separately. Refer to industrial accessories page: coolon.com.au/industrial-led-lighting/accessories or follow the links below to download now.



Bulkhead Pole Mounting Bracket coolon.com.au/dl/ind-acc-pmb-bh



Stainless Steel Wire Mesh Guard coolon.com.au/dl/ind-acc-bh-wmg

ORDERING EXAMPLE

B

Versalux EBH Adapter Plate coolon.com.au/dl/ind-acc-ap-vebh



Stainless Steel Light Shield coolon.com.au/dl/ind-acc-bh-shield



Bulkhead Handrail Mount coolon.com.au/dl/ind-acc-hmb-bh



Bulkhead Adjustable Bracket coolon.com.au/dl/ind-acc-bhab

EMBH3	- NWTAMB	- SY1	- MP
PRODUCT	COLOUR TEMP	OPTICS	SUPPLY OPTION

 PRODUCT
 COLOUR TEMP
 OPTICS
 SUPPLY OPTION

 EMBH3
 Emergency Bulkhead 3
 CWTAMB
 Cool White / Amber
 SY1
 Symmetrical / Frosted Diffuser
 MP
 Mains Powered

 NWTAMB
 Neutral White / Amber
 ASM
 Asymmetrical
 Asymmetrical
 Asymmetrical
 Asymmetrical

