



WOMBAT

50W/120W/150W/240W LED Luminaire

BRILLIANT • CONNECTED

Smart LED high bay / area light designed specifically for hazardous locations.

The WOMBAT is a smart connected and versatile area / high bay light designed for use in hazardous locations (Zone 2/21/22 and C1D2, C2D1/D2, C3). Equipped with our Brilliant Connected Light (BCL) wireless controller, the WOMBAT extends visibility beyond what can normally be seen to improve both site safety and productivity. WOMBAT autonomously meshes with other BCL enabled lights to form a wireless network allowing unparalleled control and improvement in situational awareness through the deployment of third-party IIoT devices and services.



CAN ICES-005/NMB-005



Wirepas

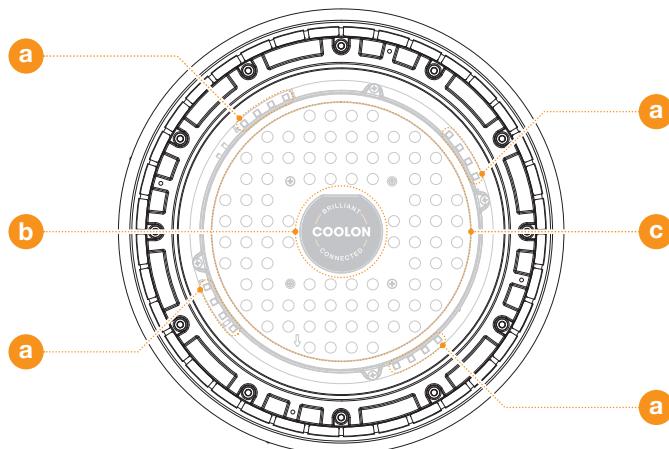
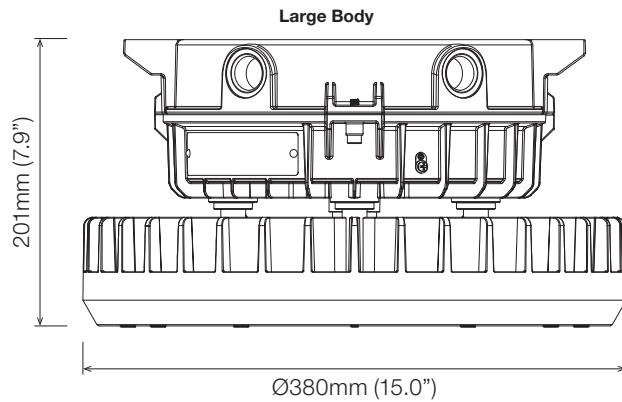


DESIGNED
IN AUSTRALIA

Designed for use in:

- Foundries
- Manufacturing Facilities
- Mining
- Oil Refineries
- Petrochemical Facilities
- Power Generation Facilities
- Pulp and Paper Mills
- Treatment Facilities
- Waste and Sewer

DIAGRAMS

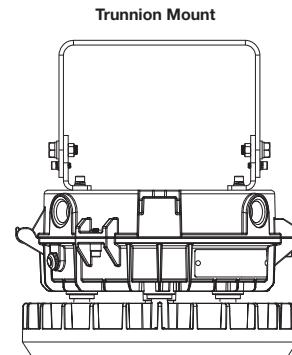
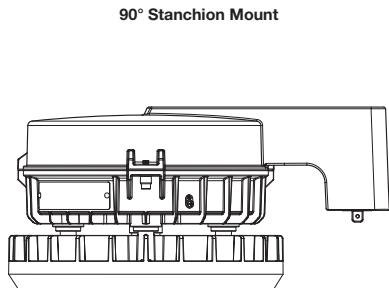
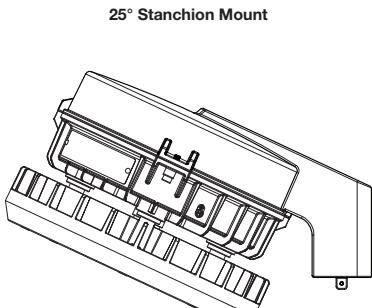
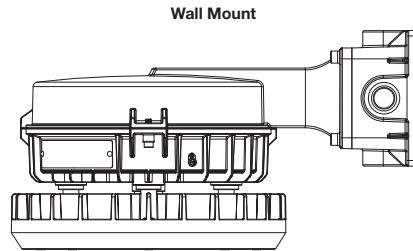
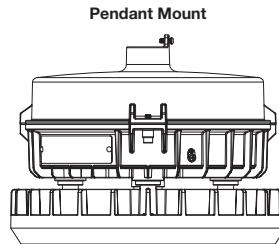
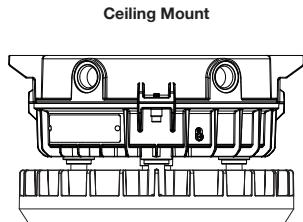


MOUNTING OPTIONS

Wombat can be used in a variety of occasions and easily replace traditional fixtures with different bracket options.

Well-organized terminal block, the ceiling mounting, bracket mounting and wall mounting are equipped with four conduit holes, which can realize lamps interconnection, greatly facilitating on-site installation and wiring.

For detailed dimensions, please refer to the manual.



TECHNICAL SPECIFICATIONS

Product	Wombat LED Luminaires			
Power	50W 120W 150W 240W			
Luminous Flux	8,600 lm 22,000 lm 27,000 lm 36,800 lm			
Optical Characteristics				
CCT	CWT / NWT / WWT / AMB			
CRI	>70 excluding Amber			
Electrical Characteristics				
Input Voltage	100 – 277VAC or 277 – 480VAC			
Frequency Range	50/60Hz			
Power Factor	>0.90 typical			
Surge Protection	10kV line-line, 10kV line-earth			
Occupancy Sensor				
Sensor	Microwave Radar Motion Sensor			
Detection range	Up to 6m (19.5ft)			
Lighting Control ¹				
Dimming	15 – 100%			
Motion Detection Behaviour	Dimming level, reporting			
Visual Indicator	Color, Frequency			
Control Modes	Grouping, Scheduling			
Wireless Communication				
Protocol	Wirepas			
Operating Band	2.4 GHz, 40 Channels			
Range ²	Up to 50m (164ft) line of sight			
Data Encryption	AES-128			
Environmental				
IP Rating	IP66			
Impact Rating	IK09			
Operating Temperature Range	Refer to the Temperature Range & T-Code tables			
Expected Lifespan	L70 > 120,000 h @ T _a = 25 °C			
Material Composition (Body)	Aluminum Alloy (less than 0.4% copper content)			
Material Composition (Lens / Diffuser)	Polycarbonate Optical Lens / Tempered Glass			
Weight/Packaging				
Weight with Ceiling Mount	9.3kg (20.5lbs)			
Weight with Pendant Mount	9.2kg (20.3lbs)			
Weight with Trunnion Mount	10.7kg (23.6lbs)			
Weight with 25° Stanchion Mount	10.6kg (23.4lbs)			
Weight with 90° Stanchion Mount	10.9kg (24lbs)			
Weight with Wall Bracket	11.4kg (25.1lbs)			
Packaging Dimensions (Ceiling / Pendant / Trunnion)	470 x 470 x 350mm			
Packaging Dimensions (25° Stanchion / 90° Stanchion / Wall Bracket)	570 x 460 x 320mm			
Warranty				
Warranty	5 years warranty as standard			

Certifications	
IECEx	Ex nR IIC T6 Gc
CSA 25.0017X	Ex tb IIIC T80°C Db
ATEX  (Gas) CSA Ne 25ATEX1051X	CE  II 3G
(Dust) CSA Ne 25ATEX1052X	Ex nR IIC T6 Gc
	CE  II 2D
	Ex tb IIIC T80°C Db
NEC & CEC	Class I, Division 2, Groups A, B, C, D
	Class II, Division 1, Groups E, F, G
	Class II, Division 2, Groups F, G
	Class III
Suitable for Use Wet Locations	Marine Outside Type (Salt Water)
	Type 4X
	IP66
EMC	AS CISPR 15
	AS/NZS 4268
	FCC Part 15 Subpart B
	ICES-005 Issue 5
	RSS-247 Issue 3
	EN IEC 55015
	EN IEC 61000-3-2
	EN 61000-3-3
	EN IEC 61547
	ESTI EN 301 489-Series
	ETSI EN 300 328

Compliance (Safety Standards)	
IEC / EN Standards	EN/IEC 60079-0
	EN/IEC 60079-15
	EN/IEC 60079-31
CSA	CSA C22.2 No. 137-18
	CSA C22.2 No. 250.0
UL	UL 1598
	UL 1598A
	UL 844

Temperature Range & T-Code				
NEC & CEC		T-Code		
Rated Power	Ambient Temp	CI D2		CII D1&D2 CIII
		50W	-40°C to +65°C	T5
120W / 150W	-40°C to +50°C			T5
240W	-40°C to +45°C		T4A	T4A
IECEx & ATEX				
Rated Power	Ambient Temp	Temp Class Gas (nR)		Max. Surface Temp Dust (tb)
		50W	-40°C to +65°C	T6
120W / 150W	-40°C to +55°C			
240W	-40°C to +45°C			+80°C

Optical and electrical characteristics are measured using Cool White LEDs (CWT)

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.

¹ Lighting Control via BitCortex. Gateway is required.

² The wireless range can vary significantly depending on elevation above the ground, the presence of metal obstacles, and environmental conditions. Wireless coverage can be optimized by increasing the number of devices forming the mesh network.

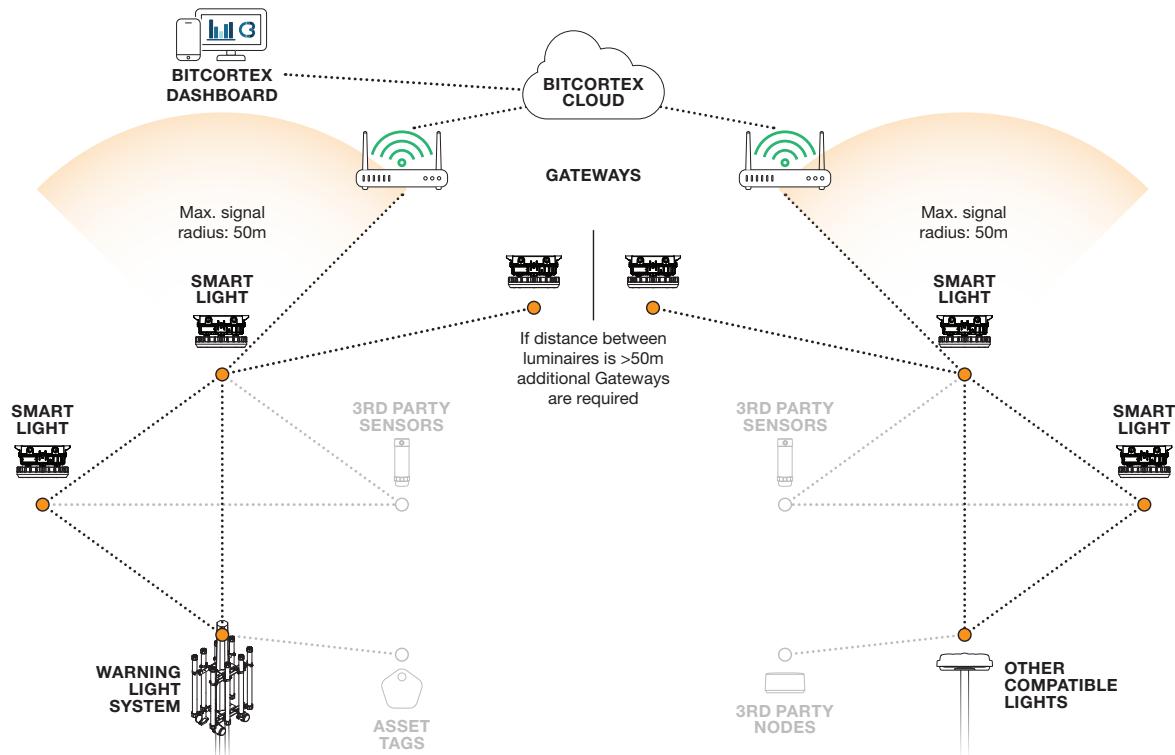


• web. www.coolon.com.au • Aus tel. 1300 287 533 • intl. +613 8681 3633 • support@coolon.com.au
 • web. www.coolonusa.com • US tel. (888) 6COOLON • int. +1 262 977 6566 • Coolon USA, Inc. 410 Main St, Racine, WI 53403, USA

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As a matter of continual improvement, the requirements and recommendations in our manuals evolve to reflect new industry requirements and the latest feedback from the field. The Coolon team is working hard to ensure optimal product operation and the safety of all users, please check our website periodically to ensure you are up to date with the latest information. Product must be installed by a suitably qualified person. All documentation is subject to change without notice.

MESH NETWORK



A web based platform to manage and control smart wireless devices.
Accessible anywhere through an internet connected browser.

For more information on Coolon smart lighting range please visit: coolon.com.au/industrial-led-lighting/smart-lighting



WIREPAS MASSIVE ENABLED

Wirepas is a leading IoT company on mission to democratise enterprise IoT. The Wirepas Massive self-healing network optimises itself by local decision-making to reach unlimited scalability, coverage and density while using the available radio spectrum as efficiently as possible.

ORDERING EXAMPLE

WBT - UL - B0 - L - 50 - NWT - T1 - RGBW - A - C - 20 - TB

PRODUCT CERTIFICATION BATTERY BODY POWER COLOR TEMP. OPTICAL BEAM INDICATOR OPERATING VOLTAGE MOUNT OPTION ACCESSORIES

PRODUCT

WBT Wombat

POWER

50 50W

120 120W

150 150W

240 240W

OPTICAL BEAM

T1 Type I

T3 Type III

T4 Type IV

MEDIUM 60° Optical

NARROW 38° Optical

SY1 Symmetrical Diffused

NOP Extra Wide

MOUNT OPTION

C-3/4 Ceiling Mount, 3/4" NPT thread

C-20 Ceiling Mount, M20x1.5 thread *

C-25 Ceiling Mount, M25x1.5 thread *

P-3/4 Pendant Mount, 3/4" NPT thread

P-1 Pendant Mount, 1" NPT thread

P-20 Pendant Mount, M20x1.5 thread *

P-25 Pendant Mount, M25x1.5 thread *

W-3/4 Wall Mount, 3/4" NPT thread

W-1 Wall Mount, 1" NPT thread

W-20 Wall Mount, M20x1.5 thread *

W-25 Wall Mount, M25x1.5 thread *

S-5/4 25° Stanchion, 1-1/4" NPT thread

S-3/2 25° Stanchion, 1-1/2" NPT thread

L-5/4 90° Stanchion, 1-1/4" NPT thread

L-3/2 90° Stanchion, 1-1/2" NPT thread

ACCESSORIES (OPTIONAL)

WG Wire Guard *

TB Trunnion Bracket
(Only available with Ceiling Mount or Pendant Mount)

Options marked with * are only available with Ex certified products



- web. www.coolon.com.au
- Aus tel. 1300 287 533
- intl. +613 8681 3633
- support@coolon.com.au
- web. www.coolonusa.com
- US tel. (888) 6COOLON
- int. +1 262 977 6566
- Coolon USA, Inc. 410 Main St, Racine, WI 53403, USA

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