



 **COOLON**

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.



Mesh Backbone



Visual Warning Indicator



Occupancy Sensor

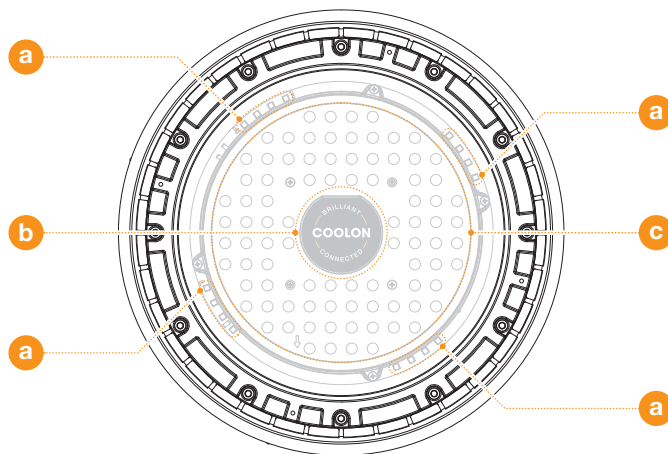
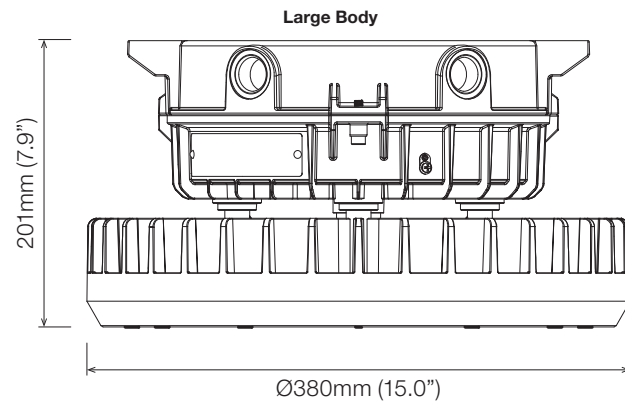


Designed for use in:

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



DESIGNED
IN AUSTRALIA



- a Configurable* RGBW Indicator
- b Occupancy Sensor
- c Main LEDs

*RGBW Indicator configurable via BitCortex

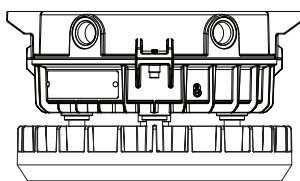
MOUNTING OPTIONS

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

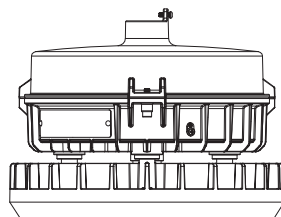
Well-organized terminal block, the ceiling mounting, bracket mounting and wall mounting are equipped with four conduit holes, which can realize lamps interconnection, greatly facilitating on-site installation and wiring.

For detailed dimensions, please refer to the manual.

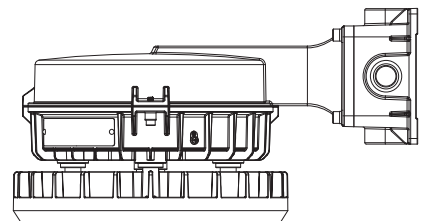
Ceiling Mount



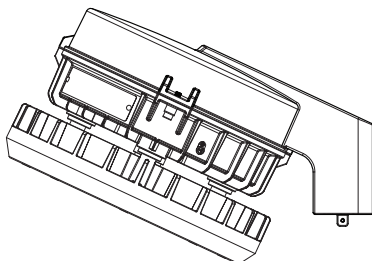
Pendant Mount



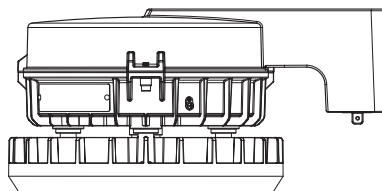
Wall Mount



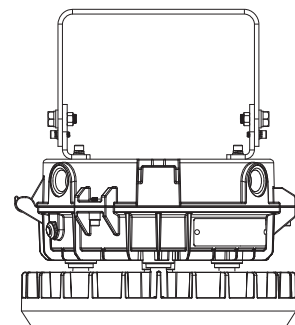
25° Stanchion Mount



90° Stanchion Mount








Trunnion Mount



TECHNICAL SPECIFICATIONS

Product	Wombat LED Luminaire			
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 CSAE 25.0017X	Ex nR IIC T6 Gc Ex tb IIIC T80°C Db
ATEX  (Gas) CSANe 25ATEX1051X (Dust) CSANe 25ATEX1052X	  II 3G Ex nR IIC T6 Gc   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			
Rated Power	Ambient Temp	T-Code	
		CI D2	CII D1&D2 CIII
50W	-40°C to +65°C	T5	T5
120W / 150W	-40°C to +50°C		
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	+80°C
120W / 150W	-40°C to +55°C		
240W	-40°C to +45°C		

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

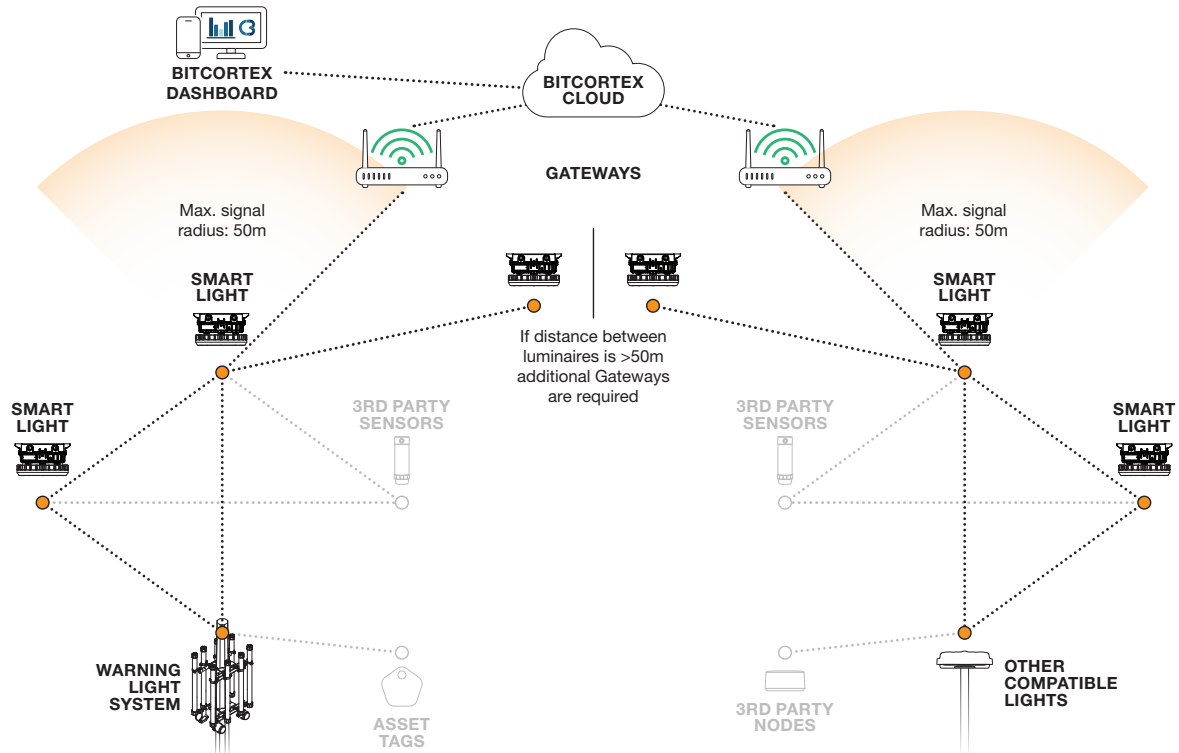
Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

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.



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		POWER		OPTICAL BEAM		MOUNT OPTION		ACCESSORIES (OPTIONAL)	
WBT	Wombat	50	50W	T1	Type I	C-3/4	Ceiling Mount, 3/4" NPT thread	WG	Wire Guard *
CERTIFICATION		120	120W	T3	Type III	C-20	Ceiling Mount, M20x1.5 thread *	TB	
UL	NEC & CEC Standards	150	150W	T4	Type IV	C-25	Ceiling Mount, M25x1.5 thread *		
Ex	IECEx and ATEX Standards	240	240W	MEDIUM	60° Optical	P-3/4	Pendant Mount, 3/4" NPT thread		
BATTERY		COLOR TEMP.		NARROW	38° Optical	P-1	Pendant Mount, 1" NPT thread		
B0	No standby battery	CWT	Cool White	SY1	Symmetrical Diffused	P-20	Pendant Mount, M20x1.5 thread *		
BODY		NWT	Neutral White	NOP	Extra Wide	P-25	Pendant Mount, M25x1.5 thread *		
L	Large Body	WWT	Warm White	INDICATOR		W-3/4	Wall Mount, 3/4" NPT thread		
		AMB	Amber	RGBW RGBW Indicator		W-1	Wall Mount, 1" NPT thread		
				OPERATING VOLTAGE		W-20	Wall Mount, M20x1.5 thread *		
				A 100 – 277VAC 50/60Hz		W-25	Wall Mount, M25x1.5 thread *		
				B 277 – 480VAC 50/60Hz		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		

Options marked with * are only available with Ex certified products



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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.