⦿COOLON

WOMBAT

50W/120W/150W/240W | **LED High Bay/Area Light**

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/C2). 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.

Designed for use in:

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

IECEx | **Ⓔx** | **CSA® C US 305069** | **FC** CAN ICES-003 (A) / NMB-003 (A)

Mesh Backbone | Visual Warning Indicator | Occupancy Sensor | ⅤWirepas

DESIGNED IN AUSTRALIA

Large Body

201mm (7.9")

Ø380mm (15.0")

a Configurable* RGBW Indicator

b Occupancy Sensor

c Main LEDs

*RGBW Indicator configurable via BitCortex
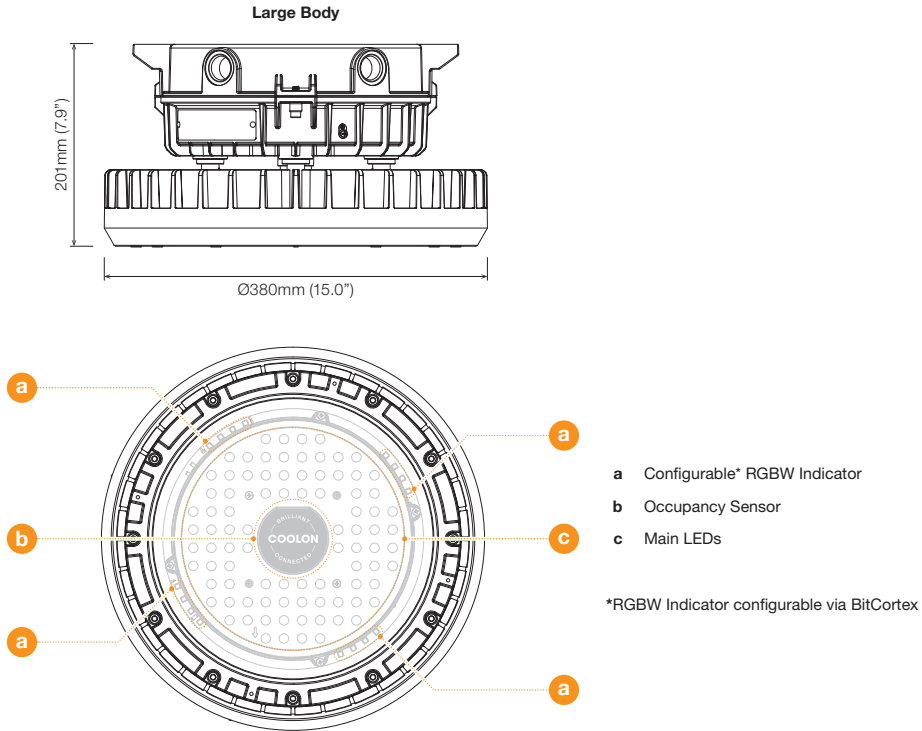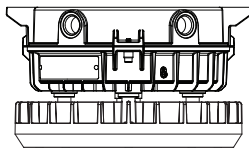
Wombat can be used in a variety of occasions and easily replace traditional fixtures with different brackets.

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.
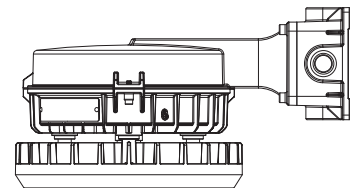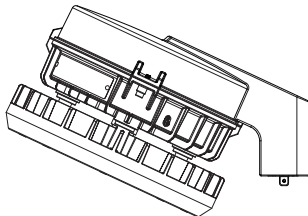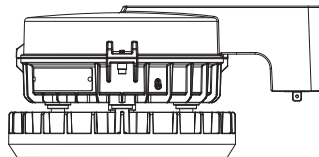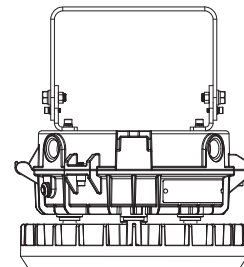
Ceiling Mount

Pendant Mount
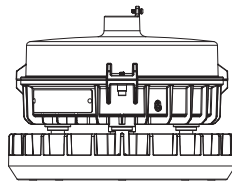
Wall Mount

25° Stanchion Mount

90° Stanchion Mount

Trunnion Mount

Product — Wombat Hazardous Area Smart LED High Bay

Optical Characteristics [1]

	50W	120W	150W	240W
Luminous Flux	8,000 lm	16,800 lm	23,000 lm	35,000 lm
CCT	CWT / AMB			
Beam Angle	Type I, Type III, Medium, Narrow, SY1, Extra Wide			
CRI	70			

Electrical Characteristics [1]

Power Consumption	50W / 120W / 150W / 240W
Input Voltage	100 – 277VAC or 277 – 480VAC
Frequency Range	50/60Hz
Power Factor	>0.90 typical
Surge Protection	10kV line-line, 10kV line-earth

Lighting Control [2]

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 [3]	Up to 50m (164ft) line of sight
Data Encryption	AES-128

Occupancy Sensor

Sensor	Microwave Radar Motion Sensor
Detection range	Up to 6m (19.5ft)

Recommend Installation

Mounting Height (Typ)	Up to 4m (13.1ft)	Up to 7m (23.0ft)	Up to 8m (26.3ft)	Up to 12m (39.4ft)

Environmental

IP Rating	IP66, NEMA Type 4X
Impact Rating	IK08
Operating Temperature Range	-40°C to +65°C (-40°F to +149°F) / -40°C to +65°C (-40°F to +149°F) / -40°C to +55°C (-40°F to +131°F) / -40°C to +45°C (-40°F to +113°F)
Expected Lifespan	150,000 Hours to 70% Brightness
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	11.4kg (25.1lbs)
Weight with Pendant Mount	11.1kg (24.5lbs)
Weight with Trunnion Mount	13.0kg (28.7lbs)
Weight with 25° Stanchion Mount	12.5kg (27.6lbs)
Weight with 90° Stanchion Mount	12.8kg (28.2lbs)
Weight with Wall Bracket	13.4kg (29.5lbs)
Packaging Dimensions (Ceiling / Pendant / Trunnion)	470 x 470 x 350mm (18.5" x 18.5" x 13.8")
Packaging Dimensions (25°Stanchion/90° Stanchion/ Wall Bracket)	570 x 460 x 320mm (22.4" x 18.1" x 12.6")

Certifications

IECEx	Ex nR IIC T6/T5 Gc
	Ex tb IIIC T80°C/T95°C Db IP66
ATEX	II 3G Ex nR IIC T6/T5 Gc
	II 2D Ex tb IIIC T80°C/T95°C Db IP66
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
	Marine and Wet Locations
EMC	FCC Title 47 CFR Part 15 Subpart B, Class A
	ICES-003

Warranty

Warranty	5 years warranty as standard

Compliance (Safety Standards)

IEC / EN Standards	CSA (305069)	UL
IEC60079-0: 2017, 7th Edition	CSA C22.2 No. 137-18	UL 1598
IEC60079-15: 2017, 5th Edition	CSA C22.2 No. 250.0:21	UL 1598A
IEC60079-31: 2022, 3rd Edition	CSA C22.2 No. 250.13-20	UL 50
	CSA C22.2 No. 94.1:15	UL 50E
	CSA C22.2 No. 94.2:20	UL 844
		UL 8750

Temperature Codes

Rated Power	Max Ambient Temperature	Class I, Div 2 (NEC)	Class II & III (NEC)	Gas("nR") Zone 2 (IECEx / ATEX)	Dust ("tb") Zone 21/22 (IECEx / ATEX)
50W, 120W	65°C	T5	T5	T5	95°C
50W, 120W	60°C	T6	T6	T6	80°C
150W	55°C	T5	T5	T6	80°C
240W	45°C	T5	T5	T5	95°C
240W	40°C	N/A	N/A	T6	80°C

[1] Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C (77°F). 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] Lighting Control via BitCortex. Gateway is required.

[3] 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.

COOLON
www.coolonusa.com

Coolon USA, Inc. 410 Main St, Racine, WI 53403, USA   **tel.** (888) 6COOLON   **int.** +1 262.977.6566
All documentation is subject to change without notice. Refer to our website for the latest information.

Wombat LED Luminaire
Preliminary Version 1.00

MESH NETWORK

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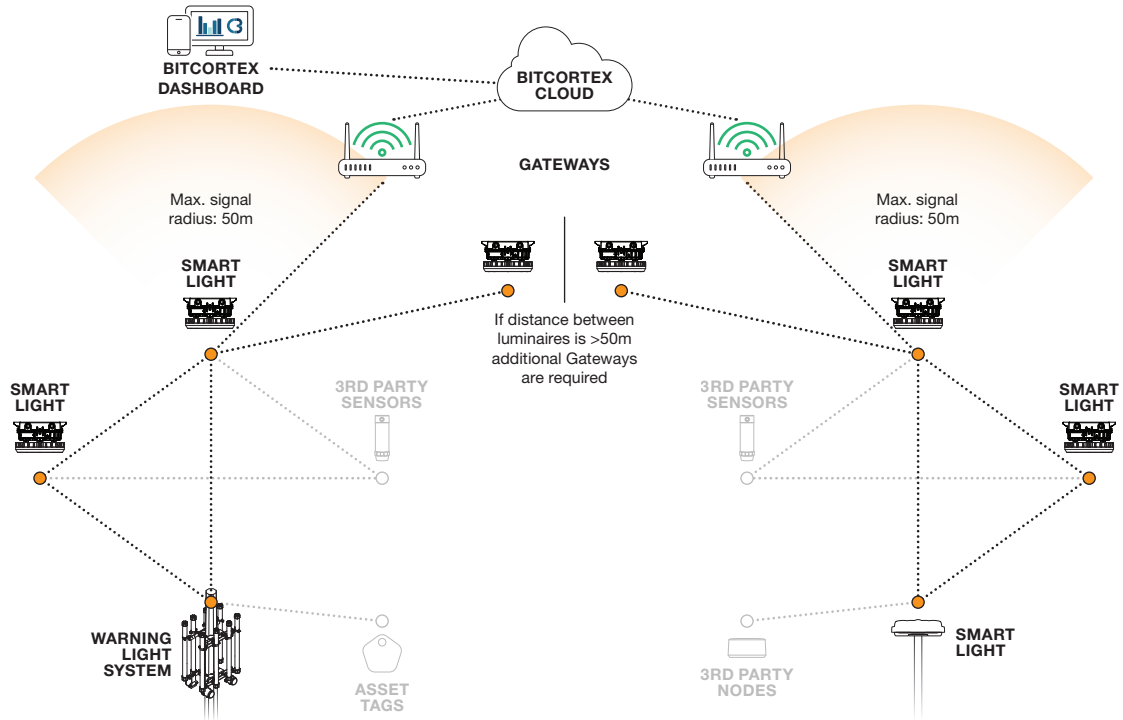
A web based platform to manage and control smart wireless devices.
Accessible anywhere through an internet connected browser.

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-3/4

PRODUCT / CERTIFICATION / STANDBY POWER / BODY / POWER / COLOR TEMP. / OPTICAL BEAM / INDICATOR / OPERATING VOLTAGE / MOUNTING - GLAND ENTRY

PRODUCT

WBT	Wombat

CERTIFICATION

UL	UL Certified
Ex	IECEx and ATEX Certified

STANDBY POWER

B0	No standby battery

BODY

L	380mm

POWER

50	50W
120	120W
150	150W
240	240W

COLOR TEMP.

CWT	Cool White
AMB	Amber

OPTICAL BEAM

T1	Type I
T3	Type III
MEDIUM	60° Optical
NARROW	38° Optical
SY1	Symmetrical Diffused
NOP	Extra Wide

INDICATOR

RGBW	RGBW Indicator

OPERATING VOLTAGE

A	100 – 277VAC 50/60Hz
B	277 – 480VAC 50/60Hz

MOUNTING - GLAND ENTRY

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-20	Pendant Mount, M20x1.5 thread
P-25	Pendant Mount, M25x1.5 thread
W-3/4	Wall Mount, 3/4" NPT thread
W-20	Wall Mount, M20x1.5 thread
W-25	Wall Mount, M25x1.5 thread
S-3/2	25° Stanchion, 1-1/2" NPT thread
L-3/2	90° Stanchion, 1-1/2" NPT thread

ACCESSORIES

PART NO.	DESCRIPTION
WG	Wire Guard
TB	Trunnion Bracket (Only available with Ceiling Mount or Pendant Mount)

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