

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 CID2, CIID1/D2 & CIII). 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.

IECEx

Ex

C SA® US
305069

FC CAN ICES-005/NMB-005

Mesh Backbone

Visual Warning Indicator

Occupancy Sensor

Wirepas

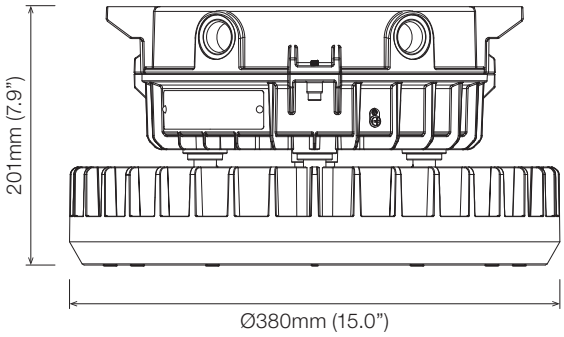
Designed for use in:

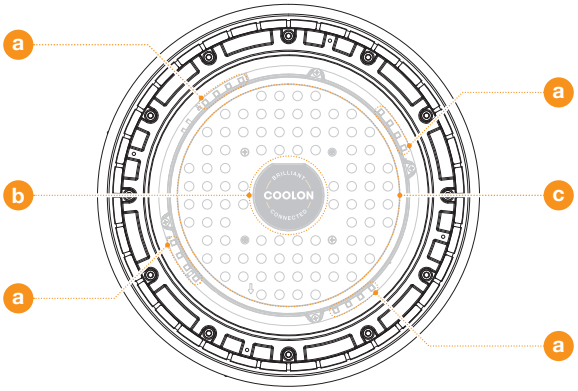
- Foundries
- Manufacturing Facilities
- Mining
- Oil Refineries
- Petrochemical Facilities
- Power Generation Facilities
- Pulp and Paper Mills
- Treatment Facilities
- Waste and Sewer

DESIGNED IN AUSTRALIA

DIAGRAMS

Large Body





a Configurable* RGBW Indicator
b Occupancy Sensor
*RGBW Indicator configurable via BitCortex
c Main LEDs

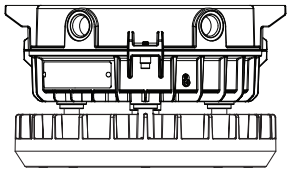
MOUNTING OPTIONS

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

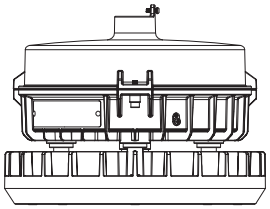
Well-organized terminal block, the ceiling mounting, bracket mounting and wall mounting are equipped with four conduit holes, which can realize lamps interconnection, greatly facilitating on-site installation and wiring.

For detailed dimensions, please refer to the manual.

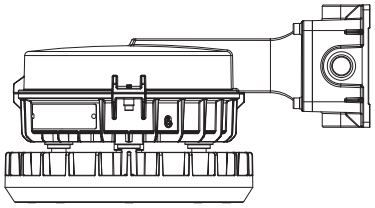
Ceiling Mount



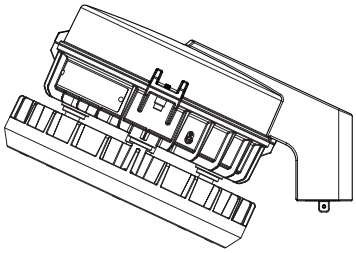
Pendant Mount



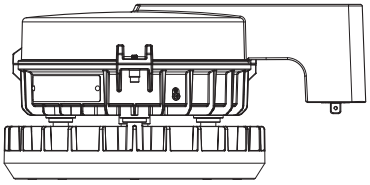
Wall Mount



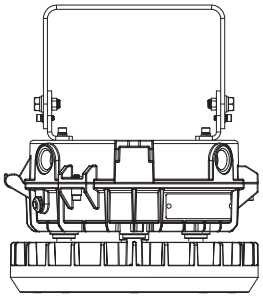
25° Stanchion Mount



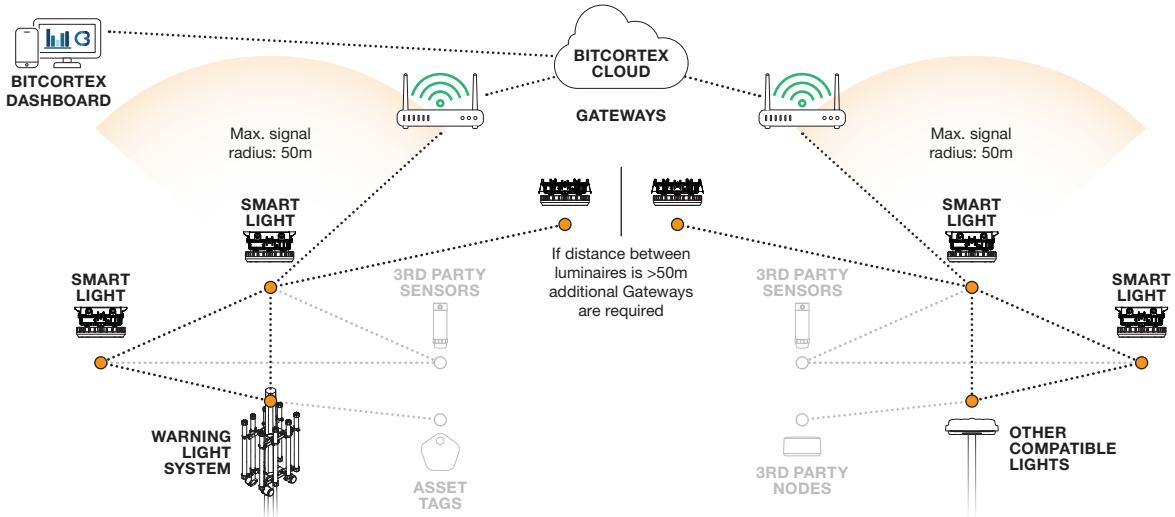
90° Stanchion Mount



Trunnion Mount



MESH NETWORK



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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 Ⓔx (Gas) CSANe 25ATEX1051X (Dust) CSANe 25ATEX1052X	CE Ⓔx II 3G Ex nR IIC T6 Gc
	CE 2813 Ⓔx 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
	IEC/EN 60598-1
	IEC/EN 60598-2-1
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.

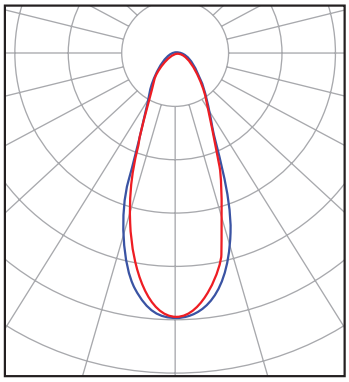
[2] The wireless range can vary significantly depending on elevation above the ground, the presence of metal obstacles, and environmental conditions. Wireless coverage can be optimized by increasing the number of devices forming the mesh network.

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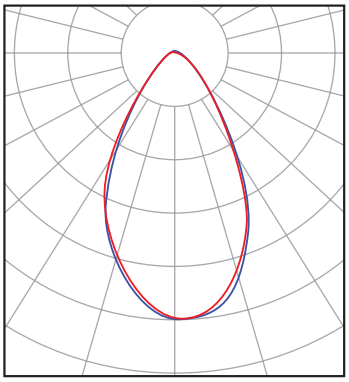
POLAR DISTRIBUTION

Diagrams are based on measurements from 240W Neutral White (NWT) variants.

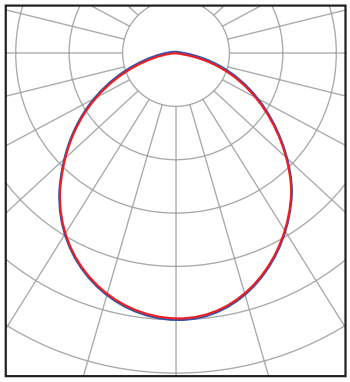
NARROW Beam Optics



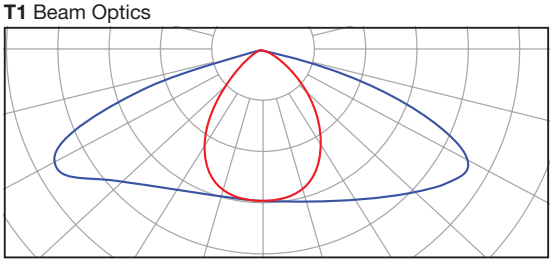
MEDIUM Beam Optics



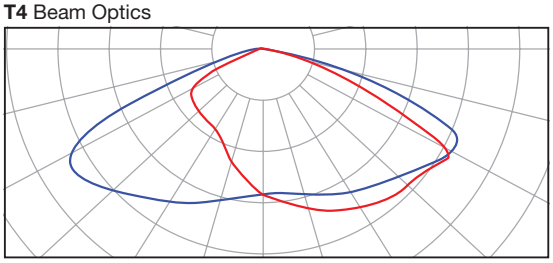
SY1 Beam Optics



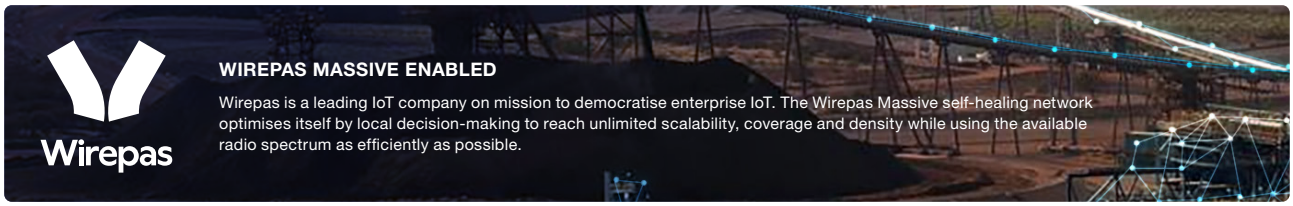
T1 Beam Optics



T4 Beam Optics







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

CERTIFICATION

UL	NEC & CEC Standards
Ex	IECEx and ATEX Standards

BATTERY

B0	No standby battery

BODY

L	Large Body

POWER

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

COLOR TEMP.

CWT	Cool White
NWT	Neutral White
WWT	Warm White
AMB	Amber

OPTICAL BEAM

T1	Type I
T3	Type III
T4	Type IV
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

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

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