



 COOLON

# WOMBAT

30W/50W/75W/100W/120W/150W/180W/200W/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. 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



Mesh  
Backbone



Visual  
Warning  
Indicator



Occupancy  
Sensor

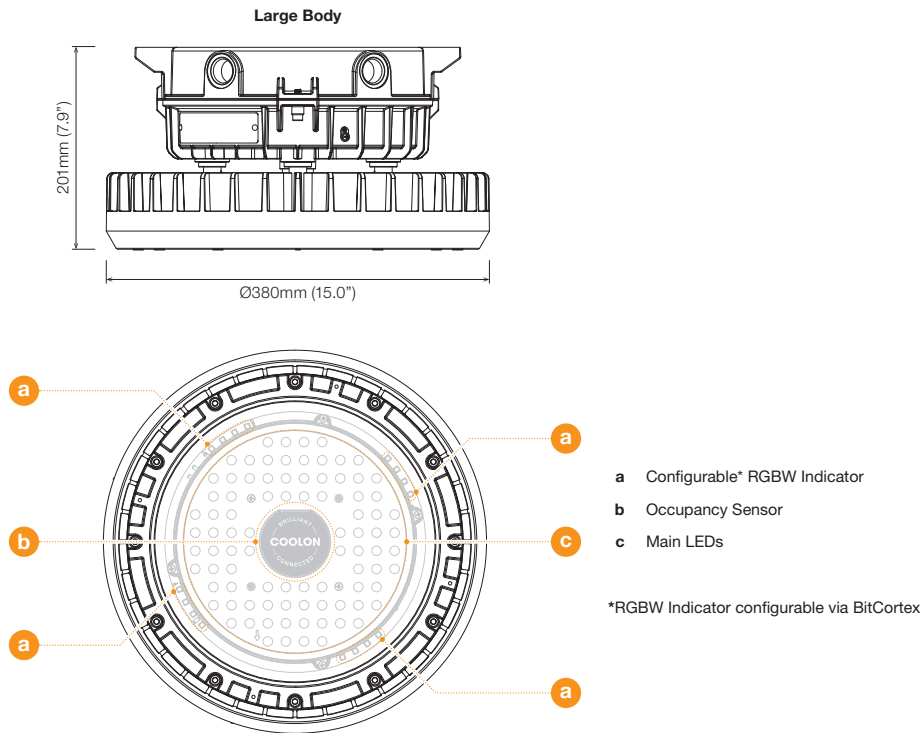
 Wirepas



DESIGNED  
IN AUSTRALIA



## DIMENSIONS

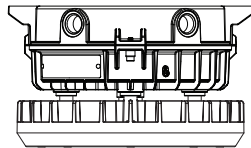


## FLEXIBLE INSTALLATION POSSIBILITY

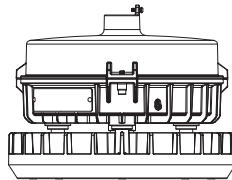
Wombat can be used in a variety of occasions and easily replace traditional fixtures with different brackets.

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.

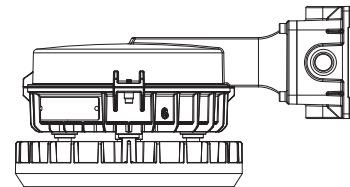
**Ceiling Mount**



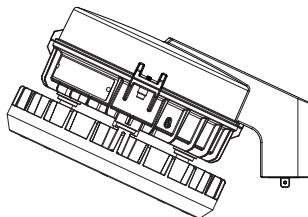
**Pendant Mount**



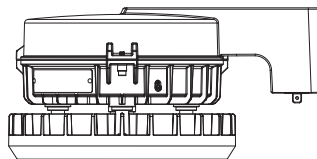
**Wall Mount**



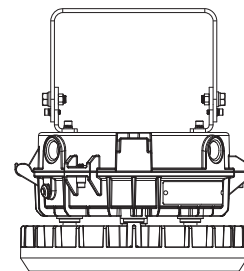
**25° Stanchion Mount**



**90° Stanchion Mount**



**Trunnion Mount**



## TECHNICAL SPECIFICATIONS

Product	Wombat LED Luminaire								
Power	30W	50W	75W	100W	120W	150W	180W	200W	240W
Luminous Flux		8,000 lm			16,800 lm	23,000 lm			35,000 lm
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)
Optical Characteristics <sup>1</sup>					Electrical Characteristics <sup>1</sup>				
CCT	CWT / NWT / WWT / AMB				Power Consumption	50W / 120W / 150W / 240W			
Beam Angle	Type I, Type III, Type IV, Medium, Narrow, SY1, Extra Wide				Input Voltage	100 – 277VAC or 277 – 480VAC			
CRI	70				Frequency Range	50/60Hz			
					Power Factor	>0.90 typical			
					Surge Protection	10kV line-line, 10kV line-earth			

## TECHNICAL SPECIFICATIONS (CONTINUED)

### Lighting Control <sup>2</sup>

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 <sup>3</sup>	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)

### Environmental

IP Rating	IP66, NEMA Type 4X
Impact Rating	IK08
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-005

### Warranty

Warranty	5 years warranty as standard
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### 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

### Warnings

**FCC Warning** Any changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**RF Exposure** This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

**ISED Warning** This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:  
(1) This device may not cause interference.  
(2) This device must accept any interference received, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs exemptés de licence conformes aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. Le fonctionnement est soumis aux deux conditions suivantes:

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence reçue, y compris celles pouvant entraîner un fonctionnement indésirable.

**ISED RF Exposure** This device has been evaluated to meet general RF exposure requirements. To maintain compliance with RSS-102 — Radio Frequency (RF) Exposure guidelines, this equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Cet appareil a été évalué pour répondre aux exigences générales d'exposition aux RF. Pour maintenir la conformité avec les lignes directrices RSS-102 — exposition aux radiofréquences (RF), cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

<sup>1</sup> 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.

<sup>2</sup> Lighting Control via BitCortex. Gateway is required.

<sup>3</sup> 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.

## TEMPERATURE RANGE & T-CODE

NEC & CEC			
Rated Power	Ambient Temp	T-Code	
		CI D2	CII D1&D2 CIII
30W 50W	-40°C to +65°C / -40°C to +60°C	T5	T5
75W	-40°C to +60°C	T6	T6
100W	-40°C to +55°C	T5	T5
120W 150W	-40°C to +50°C		
180W 200W	-40°C to +45°C		
240W	-40°C to +40°C		

IECEx & ATEX			
Rated Power	Ambient Temp	Temp Class Gas ("nR)	Max. Surface Temp Dust ("tb")
30W 50W 75W	-40°C to +65°C	T6	+80°
100W	-40°C to +60°C		
120W 150W	-40°C to +55°C		
180W 200W 240W	-40°C to +45°C		



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](http://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 NEC & CEC Certified  
Ex IECEx and ATEX Certified

#### STANDBY POWER

B0 No standby battery

#### BODY

L Large Body

#### POWER

30 30W  
50 50W  
75 75W  
100 100W  
120 120W  
150 150W  
180 180W  
200 200W  
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

#### 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-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

##### PART NO.

##### DESCRIPTION

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

## ORDERING EXAMPLE

HVIN for 33856-WOMBAT629A / Operating voltage: 100V-277V

Group	Wattage	LED Driver Series	HVIN	Product similarity Description
1	30W, 50W	EUM-050S150DG	WBT-UL-B0-L-50-WWT-NARROW-RGBW-A-C	Color Temp., Optics and mounting option applies universally to all HVIN. The universally refer product description
2	75W	EUM-075S210DG	WBT-UL-B0-L-75-WWT-NARROW-RGBW-A-C	
3	100W	EUM-100S280DG	WBT-UL-B0-L-100-WWT-NARROW-RGBW-A-C	
4	120W, 150W	EUM-150S420DG	WBT-UL-B0-L-150-WWT-NARROW-RGBW-A-C	
5	180W, 200W	EUM-200S560DG	WBT-UL-B0-L-200-WWT-NARROW-RGBW-A-C	
6	240W	EUM-240S670DG	WBT-UL-B0-L-240-WWT-NARROW-RGBW-A-C	

HVIN for 33856-WOMBAT629B / Operating voltage: 277V-480V

Group	Wattage	LED Driver Series	HVIN	Product similarity Description
7	30W, 50W, 75W	ESM-075S210DG	WBT-UL-B0-L-75-WWT-NARROW-RGBW-B-C	Color Temp., Optics and mounting option applies universally to all HVIN. The universally refer product description
8	100W	ESM-100S280DG	WBT-UL-B0-L-100-WWT-NARROW-RGBW-B-C	
9	120W, 150W	ESM-150S420DG	WBT-UL-B0-L-150-WWT-NARROW-RGBW-B-C	
10	180W, 200W, 240W	ESM-240S670DG	WBT-UL-B0-L-240-WWT-NARROW-RGBW-B-C	