

COOLON

BRILLIANT CONNECTED LIGHTS

WALLABY

BATTEN LIGHT
30W

Industrial lighting has evolved

Wallaby is not only a robust industrial batten light replacement; it also provides a practical pathway towards enabling Industrial IoT across your site. With an inbuilt visual warning indicator and industrial-grade wireless network connectivity, Wallaby luminaires automatically connect to one another, forming a wireless mesh network across the site. Designed to integrate with existing mounting footprints and infrastructure across a wide range of applications, Wallaby provides a straightforward way to upgrade existing lighting while introducing smart connectivity, without the need for additional communications cabling.

Designed for use in:

- Workshops
- Switchboard / Switchrooms
- Pump Rooms
- Car Parks
- Walkways
- Stairwells

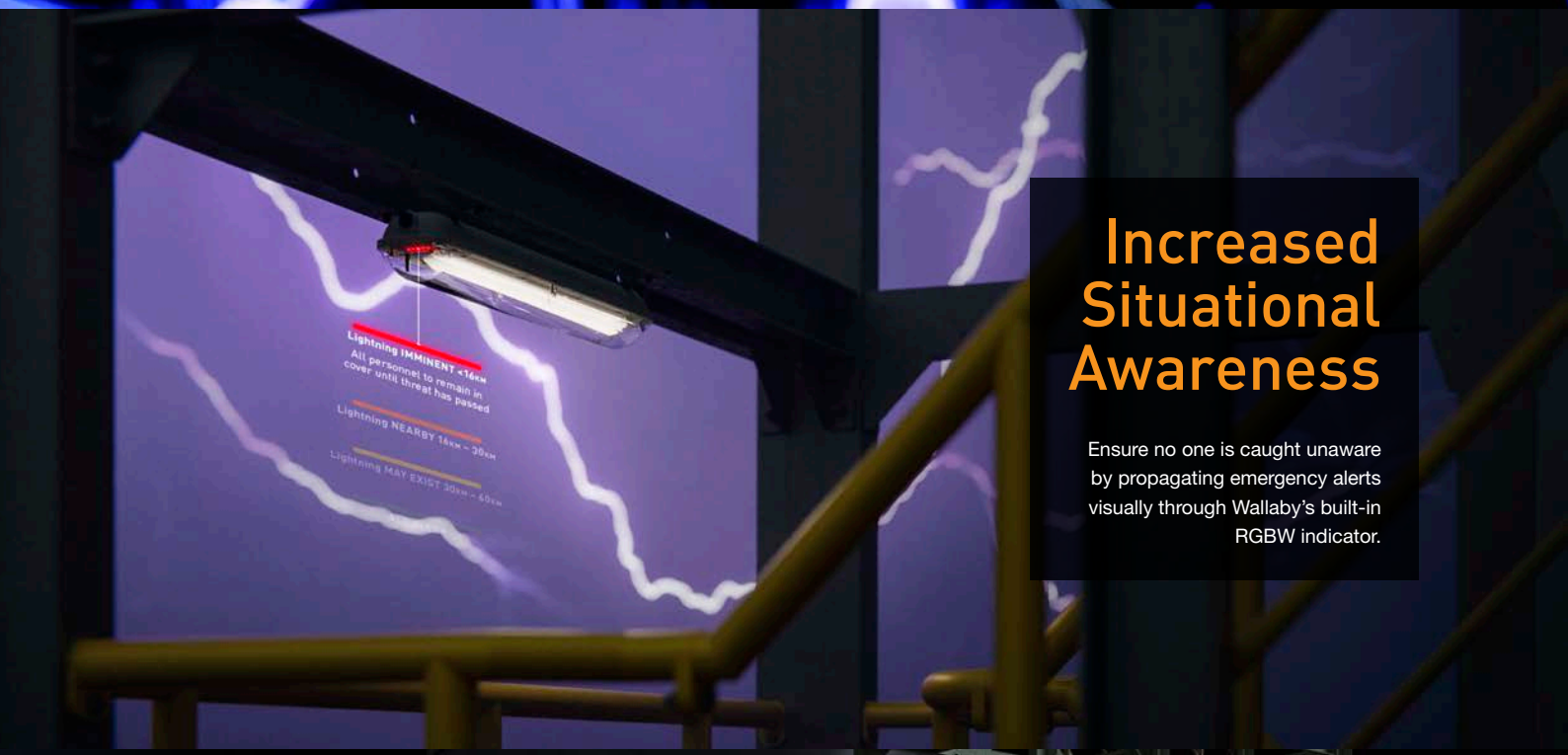
Wirepas

AUSTRALIAN DEVELOPED
SMART TECHNOLOGY

Australian Developed Smart Technology

Designed and developed in Australia, Brilliant Connected Lights (BCL) transform industrial luminaires into a connected IoT network, enabling seamless monitoring, control and integration across complex environments.

Lights automatically mesh to form a site-wide network, supporting the deployment of IoT-based sensors and services such as asset tracking, weather monitoring, machine condition monitoring and more.



Increased Situational Awareness

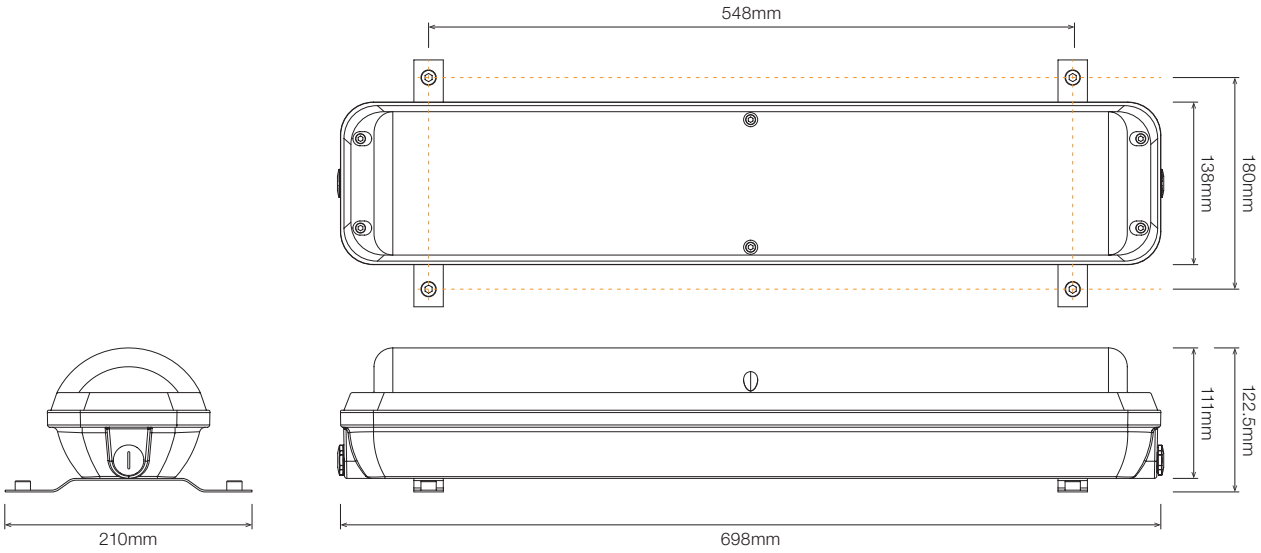
Ensure no one is caught unaware by propagating emergency alerts visually through Wallaby's built-in RGBW indicator.



Motion-dimming

Fitted with an in-built motion sensor, Wallaby will automatically dim when there are no people in the vicinity and switch on to full power once motion is detected.

DIMENSIONS



TECHNICAL SPECIFICATIONS

Product	Wallaby
Model	WLB-30

Optical Characteristics [1]	
Luminous Flux (Photometered)	3,100 - 3,500 lm
CCT	AWC (Amber/Warm White/Cool White) [2]
CRI	>80

Electrical Characteristics (Luminaire) [1]	
Typical Power Consumption	30W
Max Power Consumption (Cold start)	35W
Nominal Voltage	230VAC
Voltage Range	100 - 277VAC
Frequency Range	50/60 Hz
Power Factor	>0.9 typical @ 230VAC
Cable Diameter Entry	8-12 mm
Conductor Size	1 - 4mm² (17-12AWG)

Inrush and Leakage Currents [3]	
Peak Inrush Current (A) @ 230V	37.6A
Duration - twidth (ms) @ 10% peak	0.5 ms
I^2t (A^2S)	1.41 A^2s
Leakage Current (mA)	0.75mA max @ 277VAC/60Hz

Maximum number of luminaires per MCB @ 230V [4]	
B16	6
C16	10
D16	21

Lighting Control [5]	
Dimming	15-100%
Motion Detection Behaviour	Dimming level, ON/OFF
RGBW Indicator Mode	Colour, Frequency
Control Modes	Grouping, scheduling
Main Light	ON/OFF

Wireless Communication	
Protocol	Wirepas
Operating Band	2.4 GHz, 40 Channels
Range [5 6 7]	Up to 50m line of sight
Data Encryption	AES-128

Sensors	
Motion	Microwave radar motion sensor

Environmental	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20˚C to +50˚C
Thermal Management Type	Active / Continuous
Expected Lifespan	50,000 hours to 70% Brightness
Material Composition (Body)	Aluminium
Material Composition (Bracket)	Aluminium
Material Composition (Cover)	Polycarbonate
Mounting / Bracket Type	Surface mount

Weight/Packaging	
Luminaire Weight	3.2 kg (plus 0.2kg bracket)
Packaged Weight	3.7kg
Dimensions	700 x 190 x 180 mm

Compliance (Safety Standards)	
AS/NZS 60598.1	Luminaires - General requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires

Compliance (EMC)	
AS/NZS CISPR15	Limits and methods of measurements of radio and disturbance characteristics of electrical lighting and similar equipment
AS/NZS 4268	Radio equipment and systems - short range devices - Limits and methods of measurement

Warranty	
Warranty	5 years warranty as standard

[1] 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. Excludes Amber and Green.

[2] CCT Selectable via integrated mechanical switch.

[3] Note: At 230VAC input, 25°C cold start, 10% Ipk-10% Ipk.

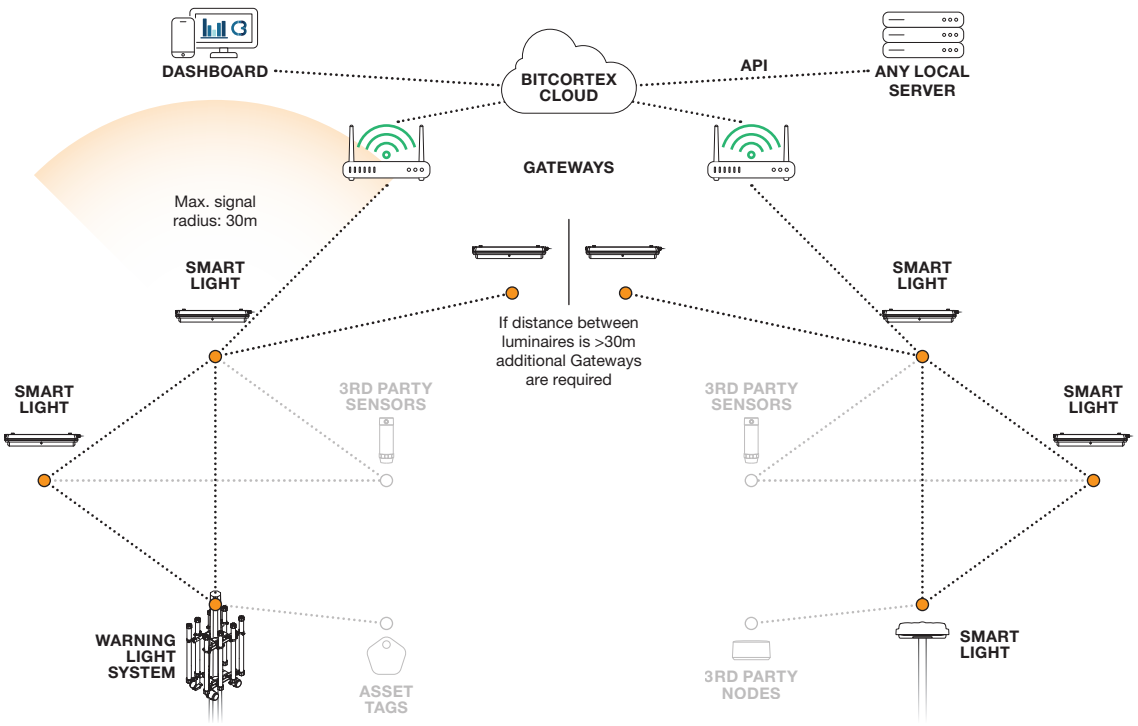
[4] Number of luminaires is subject to relative MCB properties, assuming a 30mA leakage current limit and MCB steady state current load not exceeding 60%, 70% and 80% for the B, C, D type MCB respectfully.

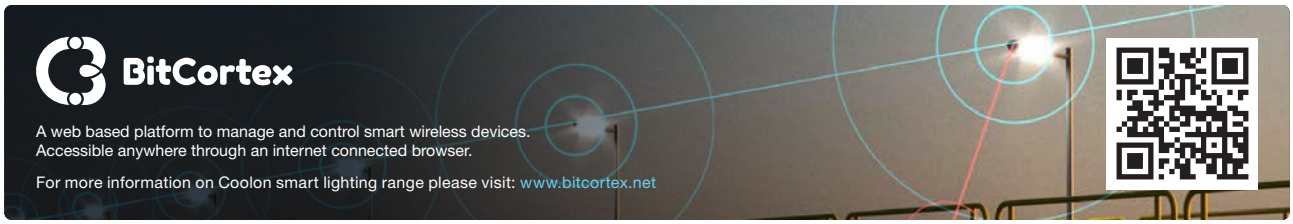
[5] Lighting Control via BitCortex. Gateway is required.

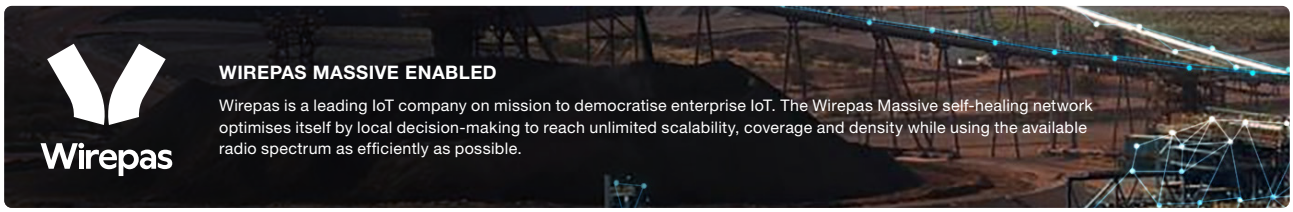
[6] Wireless range might significantly vary depending on the type of antennas used, elevation above the ground, presence of metal obstacles and environmental conditions.

[7] Wireless coverage could be optimised with increased number of devices forming mesh network.

MESH NETWORK







ORDERING EXAMPLE

WLB - B0 - S - 30 - AWC - RGBW - A

PRODUCT	BATTERY	BODY TYPE	POWER	CCT	INDICATOR	INPUT VOLTAGE
WLB Wallaby	B0 No Battery	S Short	30 30W	AWC Amber / Warm / Cool White	RGBW RGBW Indicator	A 100-277 VAC

