COOLON

XINIX

50W Batten Light

BRILLIANT • CONNECTED

Industrial lighting has evolved

XINIX is not only a robust and superior batten light replacement, it is also a giant leap forward towards enabling Industrial IoT across your site.

Built around a wide suite of sensors and an industrial grade of wireless network connectivity, XINIX lights automatically connect together, forming a wireless mesh network, stretching throughout your whole site.

Installing XINIX lights is the best way to upgrade lighting and effortlessly digitize the entire site without the need of cabling or engineering.

Designed for use in:

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

Wirepas

DESIGNED & MANUFACTURED IN AUSTRALIA

Every light is an emergency light

Every single fitting is equipped with a robust emergency battery, ensuring a safe and smooth evacuation process in case of a power outage. Superior illumination uniformity and a reduction in shadowing also enhance hazard perception and visibility. Never worry about emergency lighting again – XINIX got you covered.

TRADITIONAL EMERGENCY LIGHTING
Only every third light fitting is illuminated

Every light fitting is illuminated
COOLON EMERGENCY LIGHTING

Motion-dimming

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

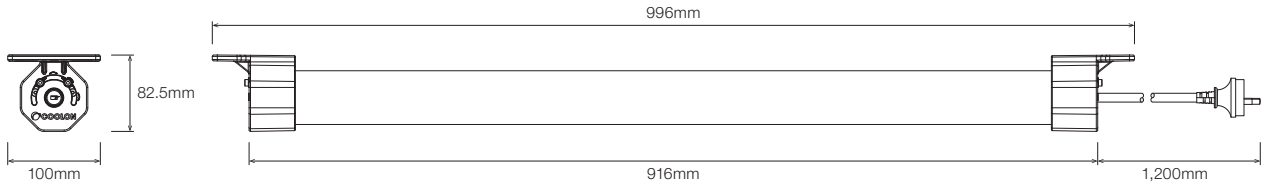
Enables digitisation

Lights automatically mesh together forming a site-wide wireless network enabling the effortless deployment of a wide range of IoT based sensors and services from third-party providers:

- Asset Tracking
- Personnel Locating
- Machine Condition Monitoring

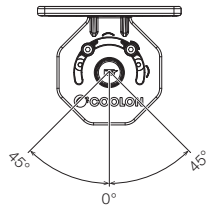
... and many more!

DIMENSIONS

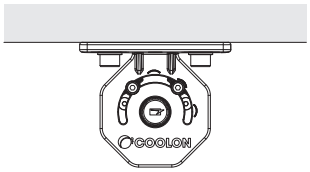


MOUNTING

Rotation

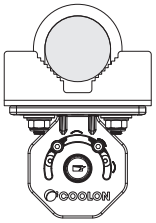


Surface Mounting



Pole Mounting

Pole Mounting requires the purchase of an additional accessory kit.



TECHNICAL SPECIFICATIONS

Product	
Model	XINIX Batten Light

Optical Characteristics [1]	**MP**	**EM**
Luminous Flux (Photometered)	8,181 lm	377 lm
CCT	NWT	CWT
CRI	Ra = 75.5	

Electrical Characteristics (Luminaire) [1]	
Power Consumption	61W max
Nominal Voltage	230VAC
Voltage Range	100 – 277VAC / 127 – 300VDC
Frequency Range	47 – 63Hz
Power Factor	>0.96 typical @ 230VAC

Inrush and Leakage Currents [1 6 7]	
Peak Inrush Current (A) @230V	29.2
Duration - twitdth (ms)	1.1
I^2t (A^2S)	1.06
Leakage Current (mA)	<0.75mA @ 230V / 60Hz

Maximum number of luminaires per MCB @ 230V	
B16	3
C16	5
D16	10

Lighting Control [2]	
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 [3]	Up to 15 metres line of sight
Data Encryption	AES-128
Network Standby Time	Up to 24 hours during power outage

Sensors	
Motion	Microwave Radar Motion Sensor
Temperature / Humidity	

Environmental	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	0°C to +50°C [4]
Thermal Management Type	Active / Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Polycarbonate
Material Composition (End Cap)	Polymer

Battery	
Charge Time	≤16 hours
Battery Type	$LiFePO_4$
Battery Lifetime	2,000 cycles to 70% SOC
EM Discharge Time	120 minutes initial / 90 minutes in service [4]

Storage	
Temperature	0 to +45°C
Shelf Life	Up to 12 months @ 20±5°C [5]

Weight/Packaging	
Luminaire Weight	2.4kg (No Brackets)
Packaged Weight	3kg (No Brackets)

Compliance (Safety Standards)	
AS/NZS 60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.3	Luminaires - Particular requirements - For road and street lighting
AS/NZS 2293	Emergency lighting and exit signs for buildings

Compliance (EMC)	
AS/NZS CISPR15	Limits and methods of measurement of radio 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.

[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.

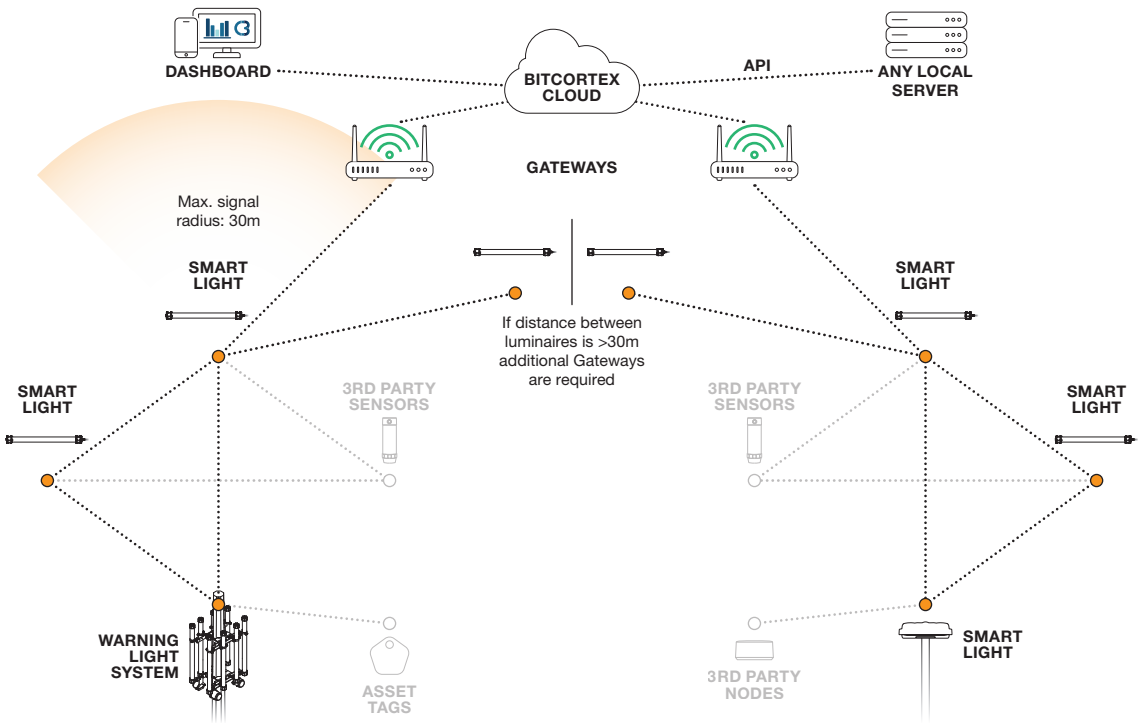
[4] Emergency Discharge Time 90 minutes is guaranteed for temperature range from +10°C to +45°C. For the battery safety, charging is possible only within the ambient temperature range from +5°C to +40°C.

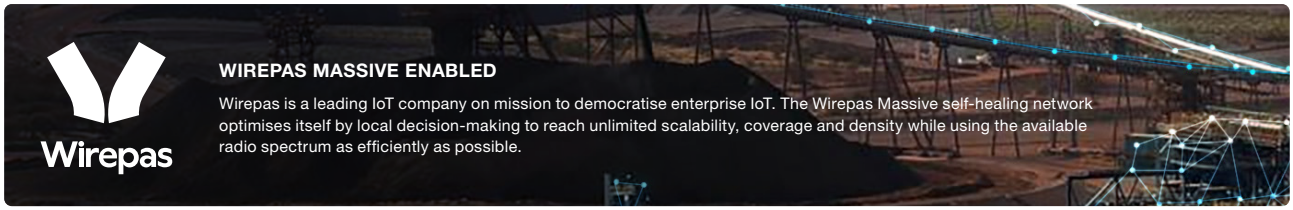
[5] The XINIX has a storage shelf life of up to 12 months when stored at a temperature of 20±5°C after dispatch from the factory. Storage temperatures outside of 20±5°C but within the specified unit operating temperature limit will decrease the product shelf life to 6 months. Shelf life time is defined as time since product dispatch from Coolon, or since last charge cycle and magnetic Battery Isolation Switch has been activated as per Manual.

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

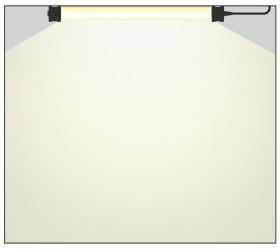
[7] Number of Luminaires is subject to relative MCB properties, assuming a 30mA leakage current limit and MCB steady state current load not exceeding 60%, 70% and 80% for the B, C, D type MCB respectfully.

MESH NETWORK



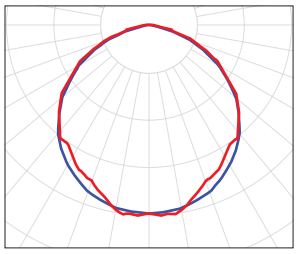


POLAR DISTRIBUTION



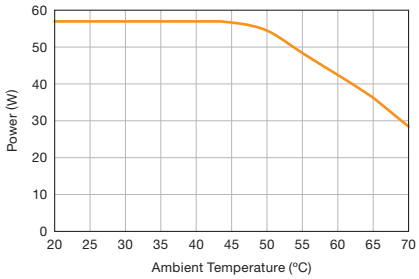
	MP	EM
1.0m	2,986	135
1.5m	1,327	60
2.0m	747	34
2.5m	478	22
3.0m	332	15
3.5m	244	11
4.0m	187	8.4

E_C at Centre (Lux)



Polar Distribution

AMBIENT TEMPERATURE VS POWER



ORDERING EXAMPLE

XINIX - POM - MP - AU

PRODUCT | TYPE | SUPPLY OPTION | PLUG

PRODUCT	TYPE		SUPPLY OPTION		PLUG	
XINIX	POM	With Power Outage Mitigation Module	MP	Mains Powered	AU	Australian Flex and Plug

ASSOCIATED PRODUCTS

PART #	DESCRIPTION
ACC-PMB-NBXX-PL100-GAL	Power Supply Pole Mounting Kit
ACC-PMC100-XXX-XX	U-Bolt Pole Mounting Clamp Kit 100
BLINKY-VIS4-BRACKET	4x Blinky Pole Mounting Bracket Kit (180° visibility)
BLINKY-VIS8-BRACKET	8x Blinky Pole Mounting Bracket Kit (360° visibility)