COOLON

GECKO

40W/80W Linear LED Luminaire

BRILLIANT • CONNECTED

Smart LED linear light designed specifically for hazardous locations.

The GECKO Linear LED Luminaire is a smart connected linear light certified for use in hazardous locations (Zone 2/21/22 and CID2, CIID2 & CIII). Equipped with our Brilliant Connected Lights (BCL) wireless controller, the GECKO extends visibility beyond what can normally be seen to improve both site safety and productivity. GECKO 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

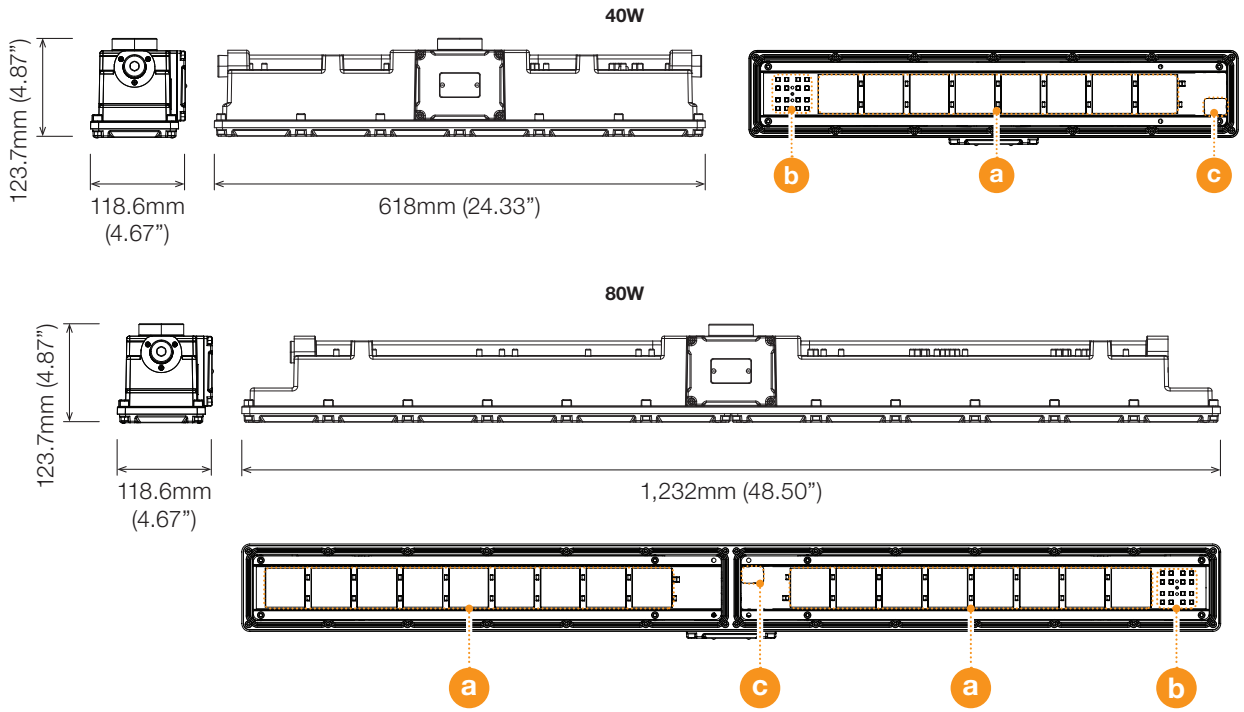
Mesh Backbone · Visual Warning Indicator · Occupancy Sensor · Wirepas

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



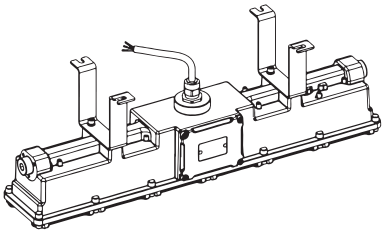
a Main LEDs and Optics
b RGBW Indicators
c Motion Sensor

NOTE: The weight of the Gecko fixture varies by model and mounting configuration. Gecko Short weighs between 3.4 – 3.6kg (7.3 – 8.2lbs), and Gecko Long weighs between 5.3 – 5.5kg (11.5 – 12.2lbs). Refer to the fixture nameplate for classification details, maximum ambient suitability, and operating temperature code (T-Code) depending on mounting arrangement.

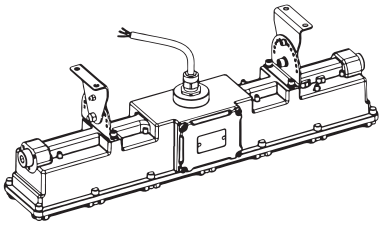
MOUNTING OPTIONS

Gecko can be used in a variety of occasions and easily replace traditional fixtures with different bracket options. For detailed dimensions, please refer to the manual.

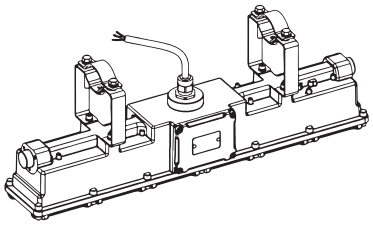
Ceiling Mount



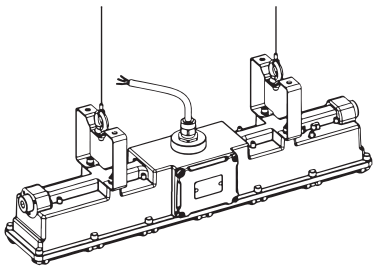
Trunnion Mount



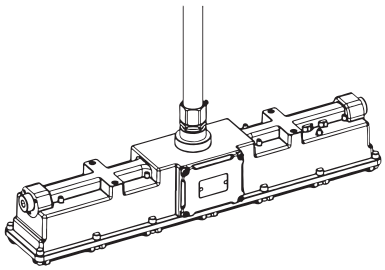
Pipe Mount



Eyebolt Mount



Pendant Mount



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TECHNICAL SPECIFICATIONS

Product	Gecko Linear LED Luminaire	
Power	40W	80W
Luminous Flux [1]	5,800 – 6,500 lm	13,900 – 15,200 lm

Optical Characteristics	
CCT	CWT / AMB
CRI	>70 excluding Amber

Electrical Characteristics [1]	
Input Voltage	100 – 277VAC
Frequency Range	50/60Hz
Power Factor	>0.90 typical
Surge Protection	6kV line-line, 10kV line-earth

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

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

Environmental	
IP Rating	IP66
Impact Rating	IK08
Operating Temperature Range	Refer to the Temperature Range & T-Code tables
Expected Lifespan	L80 > 120,000 h @ T_a = 25°C
Material Composition (Body)	Fiberglass Reinforced Polycarbonate
Material Composition (Lens)	Clear Polycarbonate

Weight/Packaging		
Weight with Ceiling Mount	3.5Kg (7.7lbs)	5.4kg (11.9lbs)
Weight with Trunnion Mount	3.6kg (7.9lbs)	5.5kg (12.1lbs)
Weight with Pipe Mount	3.6kg (7.9lbs)	5.5kg (12.1lbs)
Weight with Eyebolt Mount	3.5kg (7.7lbs)	5.4kg (11.9lbs)
Weight with Pendant Mount	3.4kg (7.5lbs)	5.3kg (11.7lbs)
Packaging Dimensions (with entry cable from top)	655 x 140 x 200mm	
Packaging Dimensions (with entry cable from side)	725 x 140 x 180mm	

Warranty	
Warranty	5 years warranty as standard

Certifications	
IECEx CSAE 25.0045X	Ex nR IIC T6 Gc
	Ex tb IIIC T80°C Db
ATEX (Gas) CSANe 25ATEX1124X (Dust) CSANe 25ATEX1125X	CE Ex II 3G Ex nR IIC T6 Gc
	CE 2813 Ex II 2D Ex tb IIIC T80°C Db
NEC & CEC	Class I Division 2 Groups A, B, C, D
	Class II Division 2, Groups F, G
	Class III
Suitable for Use Wet Locations	Marine Outside Type (Salt Water)
	IP66
EMC	AS CISPR 15
	AS/NZS 4268
	FCC Part 15 Subpart B
	ICES-005 Issue 5
	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
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**	
		CID2	CIID2 & CIII
40W	-40°C to +55°C	T4A	T4A
80W			

IECEx & ATEX			
Rated Power	**Ambient Temp**	**Temp Class Gas (nR)**	**Max. Surface Temp Dust (tb)**
40W	-40°C to +55°C	T6	+80°C
80W			

[1] 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.

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

[3] 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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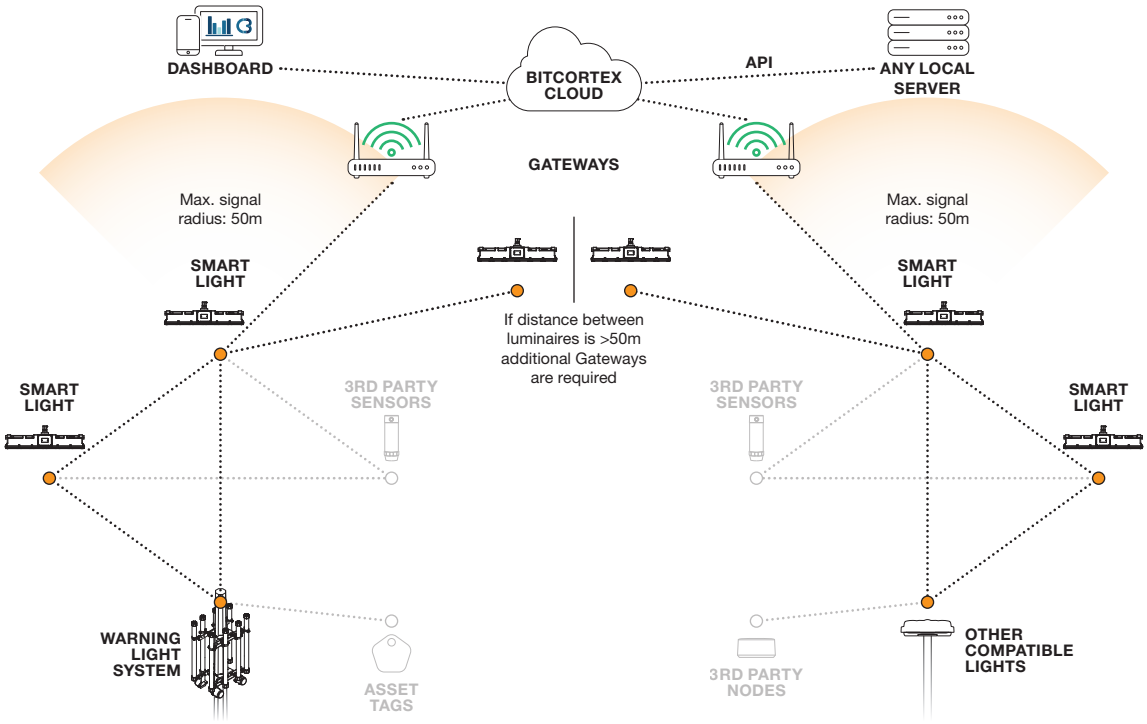
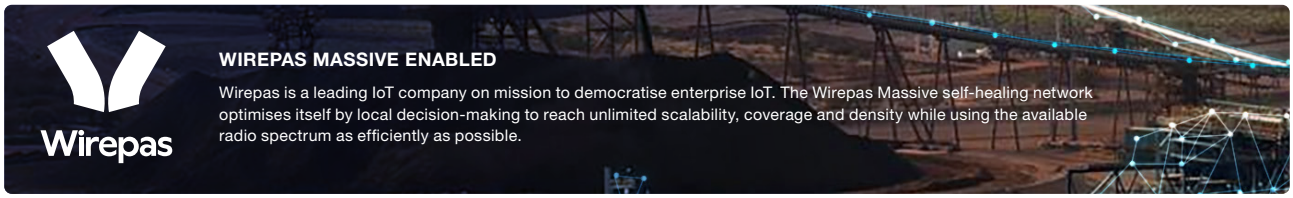
MESH NETWORK





ORDERING EXAMPLE

GEK - UL - B0 - S40 - CWT - T1 - RGBW - A - C - Y

PRODUCT	COMPLIANCE	BATTERY	BODY TYPE & POWER	COLOR TEMPERATURE	OPTICAL BEAM	INDICATOR	OPERATING VOLTAGE	MOUNT OPTION	GLAND ENTRY

PRODUCT

GEK	Gecko

COMPLIANCE

UL	NEC & CEC Standards
Ex	IECEx and ATEX Standards

BATTERY

B0	No Battery

BODY TYPE & POWER

S40	Short 40W
L80	Long 80W

COLOR TEMPERATURE

CWT	Cool White
AMB	Amber

OPTICAL BEAM

T1	Type I
T3	Type III
SY1	Symmetrical Diffused
UW	Ultra Wide

INDICATOR

RGBW	RGBW Indicator

OPERATING VOLTAGE

A	100 – 277VAC 50/60Hz

MOUNT OPTIONS

C	Ceiling
T	Trunnion
PM	Pipe Mount
E	Eyebolt
P25	Pendant M25
P3/4	Pendant 3/4"

GLAND ENTRY

W	3/4" NPT
Z	M25x1.5

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