



COOLON GECKO

40W/80W Linear LED Luminaire

BRILLIANT • CONNECTED

Smart LED linear light designed specifically for hazardous locations.

The GECKO is a smart connected linear light certified for use in hazardous locations (Zone 2/21/22 and C1D2, C2D2). 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.



CAN ICES-003 (A) / NMB-003 (A)



Mesh
Backbone



Visual
Warning
Indicator



Occupancy
Sensor



Designed for use in:

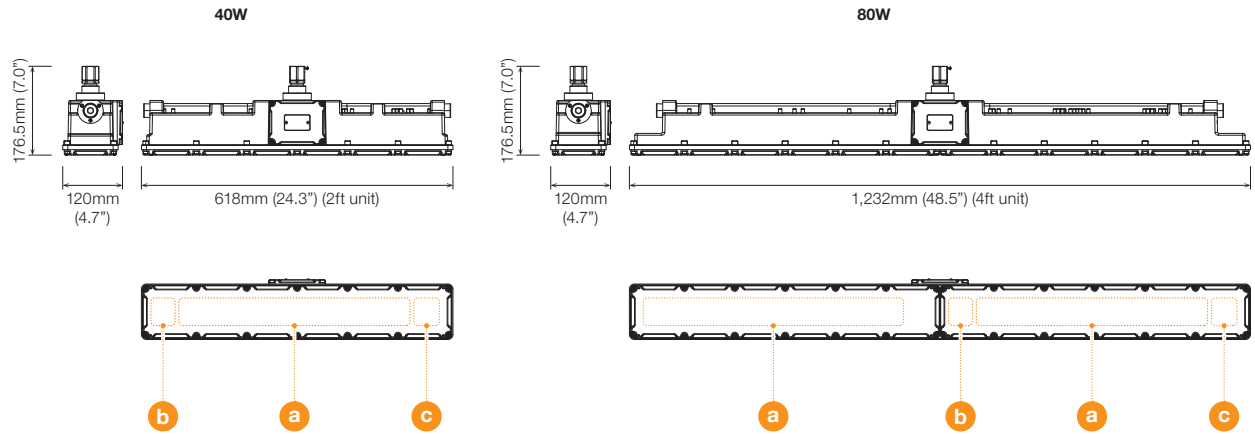
- Foundries
- Manufacturing Facilities
- Mining
- Oil Refineries
- Petrochemical Facilities
- Power Generation Facilities
- Pulp and Paper Mills
- Treatment Facilities
- Waste and Sewer



DESIGNED
IN AUSTRALIA



DIMENSIONS

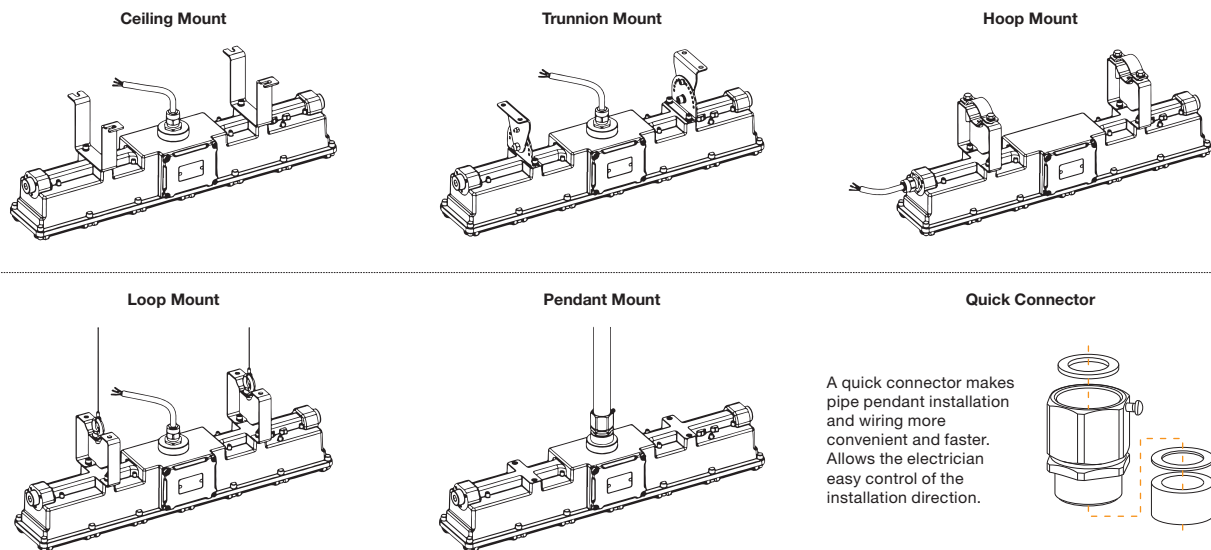


- a Main LEDs
- b Occupancy Sensor
- c Configurable* RGBW Indicator

*RGBW Indicator configurable via BitCortex

FLEXIBLE INSTALLATION POSSIBILITY

Multiple mounting options to meet different installation requirements.



TECHNICAL SPECIFICATIONS

Product Gecko Linear LED Luminaire

Optical Characteristics ¹	40W	80W
Luminous Flux	6,400 lm	12,800 lm
CCT	CWT / AMB	
Beam Angle	Type I, Type III, Symmetrical, Ultra Wide	
CRI	>70	

Electrical Characteristics ¹

Power Consumption	40W	80W
Input Voltage	100 – 277VAC or 277 – 480VAC	
Frequency Range	50/60Hz	
Power Factor	>0.90 typical	
Surge Protection	6kV line-line, 10kV line-earth	

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

Occupancy Sensor

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

Environmental

IP Rating	IP66, NEMA Type 4X
Impact Rating	IK08
Operating Temp. Range	-40°C to +55°C (-40°F to +131°F)
Expected Lifespan	150,000 Hours to 70% Brightness
Material Composition (Body)	Fiberglass Reinforced Polycarbonate
Material Composition (Lens)	Clear Polycarbonate

Weight/Packaging

Weight with Ceiling Mount	5.9kg (13.0lbs)
Weight with Trunnion Mount	6.0kg (13.2lbs)
Weight with Hoop Mount	6.0kg (13.2lbs)
Weight with Loop Mount	5.9kg (13.0lbs)
Weight with Pendant Mount	5.9kg (13.0lbs)
Packaging Dimensions (with entry cable from top)	655 x 140 x 200mm (25.8" x 5.5" x 7.9")
Packaging Dimensions (with entry cable from side)	725 x 140 x 180mm (28.5" x 5.5" x 7.1")

Certifications

IECEX	Ex nR IIC T6 Gc
	Ex tb IIIC T80°C Db IP66
ATEX	II 3G Ex nR IIC T6 Gc
	II 2D Ex tb IIIC T80°C Db IP66
NEC & CEC	Class I Division 2 Groups A, B, C, D
	Class II Division 2, Groups F, G
	Class III
	Class I, Zone 2, Group IIc Zone 22
	Marine and Wet Locations
EMC	FCC Title 47 CFR Part 15 Subpart B, Class A
	ICES-003

Warranty

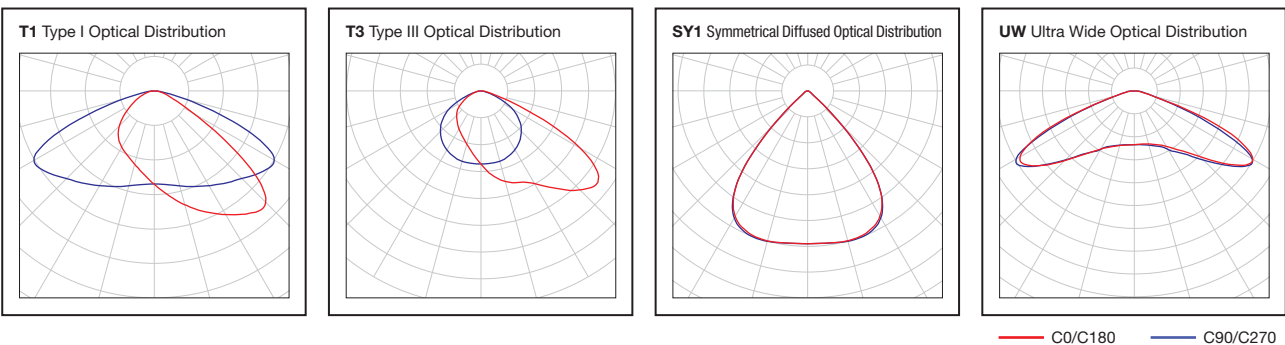
Warranty	5 years warranty as standard
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Compliance (Safety Standards)

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

Temperature Codes		NEC		IECEX / ATEX	
Rated Power	Max Ambient Temperature	Class I, Div 2	Class II, Div 2 & III	Gas("nR") Zone 2	Dust ("tb") Zone 21/22
40W	55°C	T5	T5	T6	80°C
80W	55°C	T5	T5	T6	80°C

POLAR DISTRIBUTION

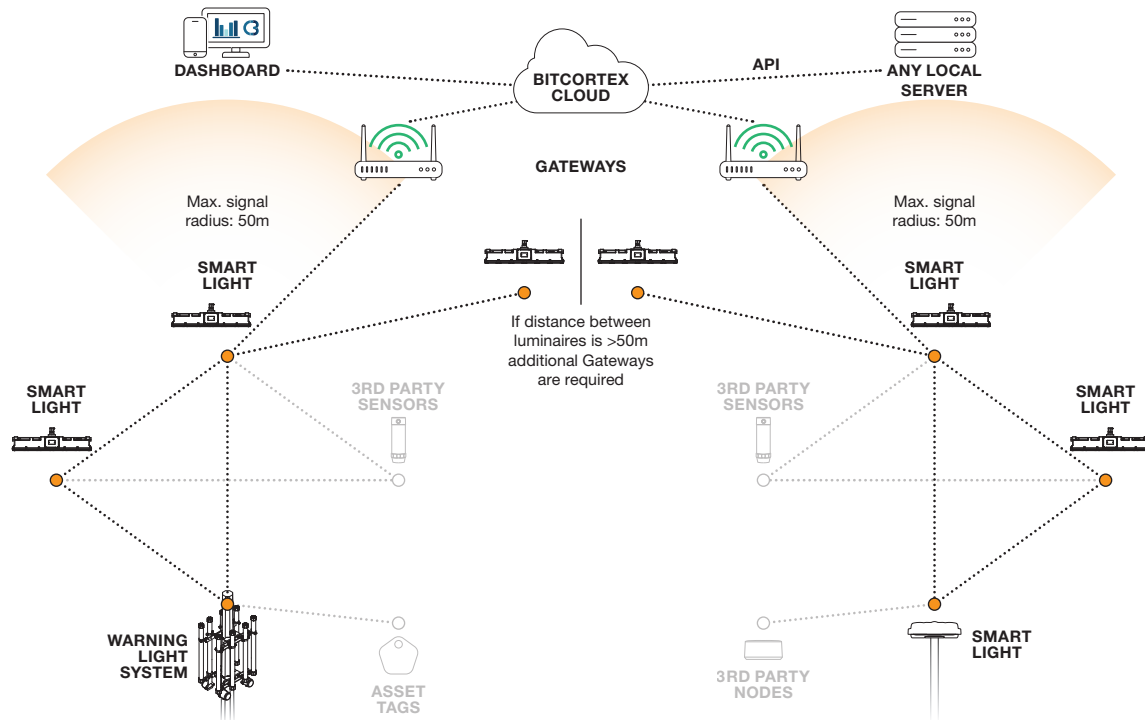


¹ Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C (77°F). Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

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.

MESH NETWORK



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



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

GKO - UL - B0 - S - 40 - CWT - T1 - RGBW - A - C-3/4

PRODUCT CERTIFICATION STANDBY POWER BODY POWER COLOR TEMPERATURE OPTICAL BEAM INDICATOR OPERATING VOLTAGE MOUNTING - GLAND ENTRY

PRODUCT

GKO Gecko

CERTIFICATION

UL UL Certified
Ex IECEx and ATEX Certified

STANDBY POWER

B0 No Standby Battery

BODY

S Small (40W only)
L Large (80W only)

POWER

40 40W
80 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
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
T-3/4 Trunnion Mount, 3/4" NPT thread
T-20 Trunnion Mount, M20x1.5 thread
T-25 Trunnion Mount, M25x1.5 thread
H-3/4 Trunnion Mount, 3/4" NPT thread
H-20 Trunnion Mount, M20x1.5 thread
H-25 Trunnion Mount, M25x1.5 thread
L-3/4 Loop Mount, 3/4" NPT thread
L-20 Loop Mount, M20x1.5 thread
L-25 Loop Mount, M25x1.5 thread
P-3/4 Pendant Mount, 3/4" NPT thread
P-20 Pendant Mount, M20x1.5 thread
P-25 Pendant Mount, M25x1.5 thread