

©COOLON DLK3 / TNR3

60W LED Conveyor/Area Light

BRILLIANT • CONNECTED

This is not about lighting

DLK3 / TNR3 is a robust, reliable, highest quality fitting that was born out of 30 years of experience in electrical engineering and mining. But it is so much more than that.

 $Effortless\ deployment\ of\ a\ complex\ mesh\ network.\ Access\ to\ hundreds\ of\ innovative\ IoT\ technologies.\ One-step\ hassle-free\ site\ digitisation.$

DLK3 / TNR3 is not a revolution. It's a leap to the future of mining.

Wirepas







Designed for use in:

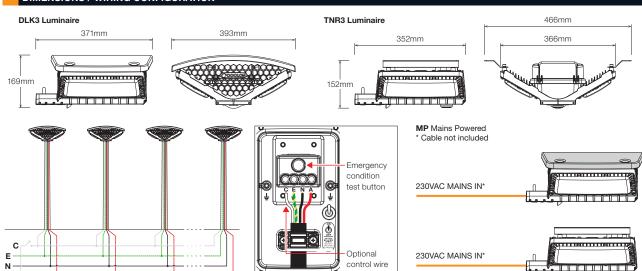
- Emergency Lighting
- Stairwells
- Conveyors
- Tunnels
- Walkways
- Stacker / Reclaimer
- Bulkheads
- General Area Lighting
- Pedestrian Access Ways







DIMENSIONS / WIRING CONFIGURATION



Product	DLK3 / TNR3 LED Convey	Environmental	
Mode	Mains Powered (MP)	Emergency (EM)	IP Rating
			Impact Rating
Optical Characteristics 1			Salt Spray Tester
Luminous Flux (Photometered)	6,550 lm & 4,800 lm	834 lm	Operating Temp.
		1,297 lm (MAX Variant) ²	Thermal Manage
CCT ³	CWT & AMB / NWT & AMB	CWT / NWT	Expected Lifespa
CRI	CWT / NWT 70 & AMB 57		Material Compos
Electrical Characteristics 1			Material Compos
Power Consumption	60W Max		Material Compos
Nominal Voltage	230VAC		Max. Mounting H
Rated Voltage	200 - 240VAC, 190 - 250V	Mounting/Bracke	
Voltage Range ⁴	176 - 305VAC, 190 - 250V	/DC	Cable Gland
Frequency Range	50 / 60Hz		Cable Ø Entry Ra
Power Factor	>0.95 typical @ 230VAC		
Leakage Current	<0.70mA typical @ 277VA0	2	Storage
Charge Time	≤16 hours		Temperature
Battery Type	LiFePO ₄		Shelf Life 7
Battery Lifetime	2,000 cycles to 70% SOC		
EM Discharge Time	120 minutes initial / 90 minutes in service		Weight/Packagi
			Luminaire Weigh
Lighting Control 5			Packaging Dimer
Dimming	10 – 100%		Packaged Weigh
Wireless Communication			Compliance (Sa
Protocol	Wirepas		AS/NZS 60598.1
Operating Band	2.4 GHz, 40 Channels		AS/NZS 60598.2
Typical Range ⁶	15 – 30 metres line of sight	t	
			AC/NIZC 2202

IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	0 to +50°C
Thermal Management Type	Active / Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	LM6 Aluminium Alloy (<0.1% copper content) Polyester powder coated
Material Composition (Optics)	Polycarbonate
Material Composition (Cover)	Polycarbonate
Max. Mounting Height	<8m above ground level
Mounting/Bracket Type	Spigot Mount OD 32 – 44 mm (NB25 – NB32)
Cable Gland	M20 x 1.5 SS316
Cable Ø Entry Range	7 – 13mm
Storage	

Weight/Packaging	
Luminaire Weight	7kg

Up to 12 months @ 20±5°C

Luminale Weight	/ kg				
Packaging Dimensions (DLK3)	560 x 470 x 230mm				
Packaged Weight	9.4kg				

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
A C /NIZC 0000	Emorgonov lighting and avit signs for buildings

	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					
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¹ Optical and electrical characteristics are measured using Neutral White LEDs (NWT).

Router, low latency

- 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 Emergency Output of the MAX variant (DLK3-XXXXX-BW3-MP- $\pmb{\mathsf{MAX}}$).

AES-128

0.048m²

Up to 24 hours during power outage

- ³ Wirelessly selectable or event triggered.
- $^{\rm 4}$ Certified voltage range : 200 240VAC, 190 250VDC @ 50/60Hz.
- ⁵ Lighting Control via BitCortex. Additional specification data will be available at a later date.
- ⁶ 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.
- ⁷ Shelf life time with Battery Switch in OFF position is defined as time since product dispatch from Coolon, or since last charge cycle. The light source of this luminaire is not replaceable, when the light source reaches its end of life the whole luminaire shall be replaced.



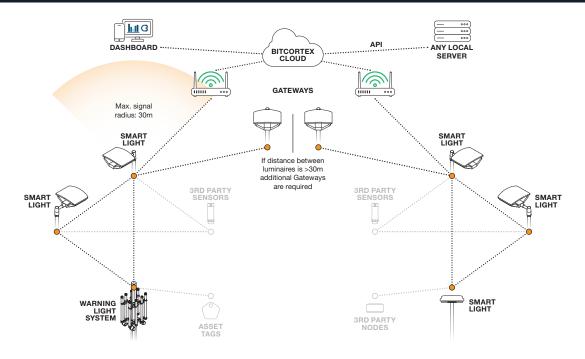
Data Encryption

Wirepas Mode

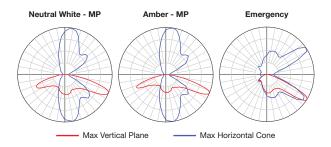
Sail Area Horizontal Orientation

Network Standby Time

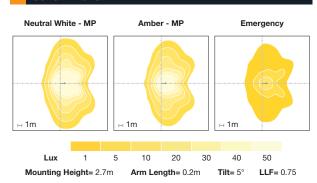
MESH NETWORK



POLAR DISTRIBUTION



ISOLUX PLOTS





A web based platform to manage and control smart wireless devices. Accessible anywhere through an internet connected browser.

For live up to date manuals, smart lighting set up and control please visit: www.bitcortex.net





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



PRODUCT TYPE COLOUR TEMP OPTICS SUPPLY OPTION

PRODUCT TYPE		COLOUR TEMP		OPTICS		SUPPLY OPTION		EMERGENCY OUTPUT	
DLK3	60	60W	CWTAMB	Cool White and Amber	BW3	BW3 Optics	MP	Mains Powered	MAX
TNR3			NWTAMB	Neutral White and Amber					