



# INDUSTRIAL LED LIGHTING









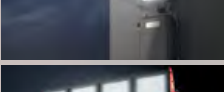

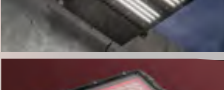




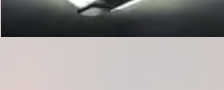
2020 CATALOGUE


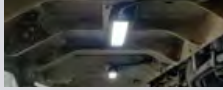
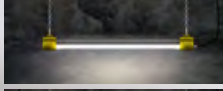


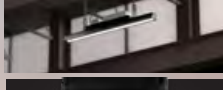




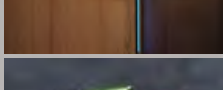
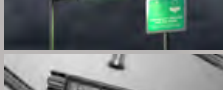





# PRODUCTS

## INDUSTRIAL LED LIGHTING



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 **COOLON**

# CP12

**48W / 60W Compact LED Work Light**

CP12 sets a new benchmark for heavy duty compact LED work light performance.

The CP12 is a true representation of modern lighting evolution.

Just when everybody thought that the boundaries of LED lighting technology could not be pushed any further, CP12 has set the new benchmark of work-light performance.

Thanks to its remarkable power efficiency, the CP12 pushes the power limits to over 60 watts, delivering an astonishing amount of light in a small and robust package.

More light means greater visibility, with greater area coverage and longer distance than any other industrial work-light in the category.

#### Designed for use in:

- Bulldozers
- Drill Rigs
- Excavators
- Flood Lights
- Graders
- Lighting Towers
- Processing Plants
- Trucks
- Warehouses



# Direct Retrofit

Same size, same shape, 4 times the light. CP12 was specifically created to match the physical characteristics of most factory fitted halogen work lights.



## Built to Last

The CP12 is designed for the harshest environments and provides unrivaled reliability and performance, critical for demanding applications.

- Resistant to Vibration
- Impact/Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

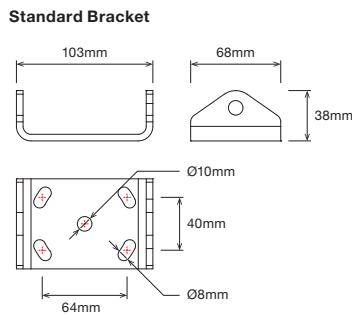
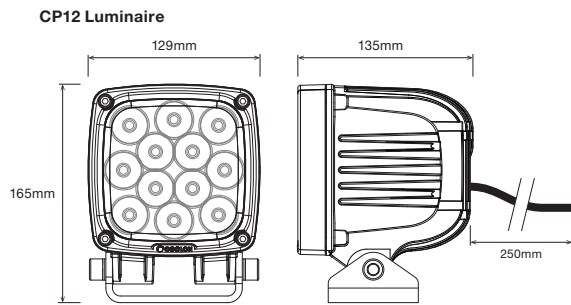


### PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.



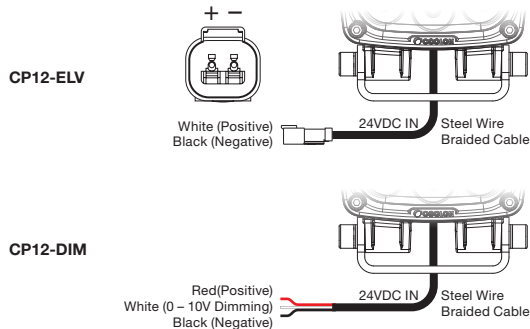
## DIMENSIONS



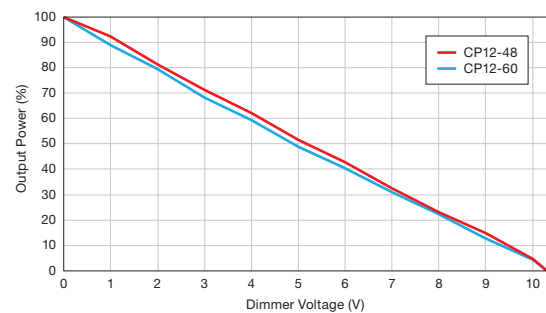
**Optional Clip-on Cover**  
ACC-CP12-COVER (available separately)



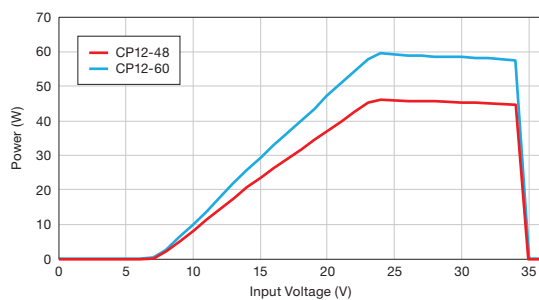
## CONFIGURATION



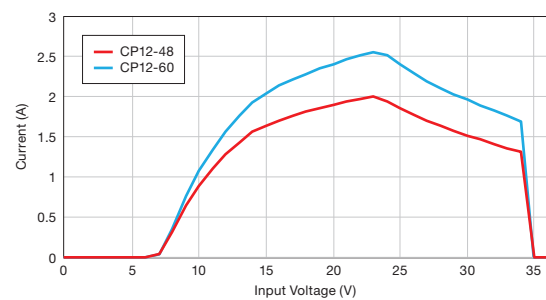
## DIMMING VOLTAGE VS POWER <sup>1</sup>



## SUPPLY VOLTAGE VS POWER <sup>1</sup>



## SUPPLY CURRENT VS VOLTAGE <sup>1</sup>



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

## TECHNICAL SPECIFICATIONS

Product	CP12 Compact LED Work Light	
Model	CP12-48	CP12-60

### Optical Characteristics

Luminous Flux (Photometered)	3,230 – 4,330 lm	4,000 – 5,410 lm
Luminous Flux (LED Lumens)	6,127 lm	7,600 lm
CCT	CWT	
CRI	>70	

### Electrical Characteristics (Luminaire)

Power Consumption	48W @ 24VDC	60W @ 24VDC
Nominal Voltage	24VDC	
Voltage Range	21 – 34VDC	
Cable Type (ELV)	UL2517, 16 AWG x 2C Braid PVC, UV Resistant	
Cable Type (DIM)	UL2517, 14 AWG x 2C + 18 AWG x 1C Braid PVC, UV Resistant	
Cable Diameter	7.5mm	
Cable Length	250mm	

### Environmental

IP Rating	IP66
Impact Rating	IK09 - Grilamid TR (CP12-48) IK07 - Borosilicate Glass (CP12-60)
Salt Spray Tested	Yes
Operating Temp. Range	-20 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)
Material Composition (Cover)	Grilamid TR (CP12-48) / Borosilicate Glass (CP12-60)
Material Composition (Bracket)	Stainless Steel
Material Composition (Optics)	PC
Mounting/Bracket Type	Standard
Angle Adjustment	Free aiming range -30° to +30°

### Weight/Packaging

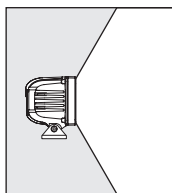
Luminaire Weight	2.1kg
Bracket Weight	0.4kg
Packaging Dimensions (CP12)	140 x 175 x 160mm
Packaged Weight (CP12)	2.7kg

### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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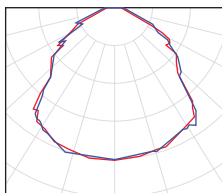
## ILLUMINANCE AT DISTANCE

### NOP Extra Wide Optics



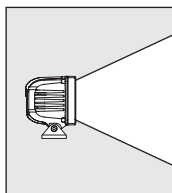
	CP12-48	CP12-60
2m	324	400
4m	81	100
6m	36	44
8m	20	25
10m	13	16

$E_c$  at Centre (Lux)



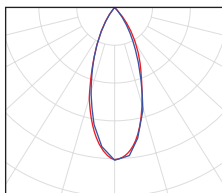
Polar Distribution

### MEDIUM Medium Optics



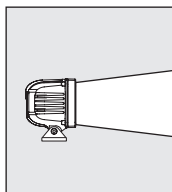
	CP12-48	CP12-60
2m	1655	2162
4m	414	540
6m	184	240
8m	103	135
10m	66	86

$E_c$  at Centre (Lux)



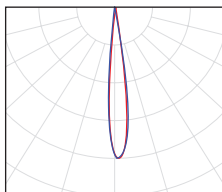
Polar Distribution

### NARROW Narrow Optics



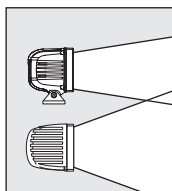
	CP12-48	CP12-60
2m	13601	17398
4m	3400	4349
6m	1511	1933
8m	850	1087
10m	544	696

$E_c$  at Centre (Lux)



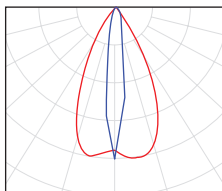
Polar Distribution

### OVAL Oval Optics



	CP12-48	CP12-60
2m	2835	3593
4m	709	898
6m	315	399
8m	177	225
10m	113	144

$E_c$  at Centre (Lux)



Polar Distribution

## ORDERING EXAMPLE

**CP12 - 60 - NOP - ELV**

PRODUCT

TYPE

OPTICS

CONFIGURATION

PRODUCT	TYPE	OPTICS	CONFIGURATION
CP12	48 Power 48W	NOP Extra Wide Optics	ELV Extra Low Voltage
	60 Power 60W	MEDIUM Medium Optics	DIM 3 Wires, 0 – 10V Dimming
		NARROW Narrow Optics	
		OVAL Oval Optics	

## ASSOCIATED PRODUCTS

PART #	DESCRIPTION
ACC-CP12-COVER	Clip-on cover





# CPUG Series

35W LED Flood Light

The CPUG Series is designed to emit zero radio interference, whilst maintaining superior luminous output in a compact size enclosure.

CPUG Series is purpose engineered for applications that are highly sensitive to Electro Magnetic Emissions, typically produced by most LED luminaires.

CPUG Series produces NO EMI, it is virtually undetectable and is guaranteed to not cause any interference with vital communications and data logging equipment.

Designed and manufactured in Australia using only the highest quality components, the CPUG LED Luminaire Series is designed specifically for use in underground mining applications where reliability and performance is required.

## Designed for use in:

- Underground Drill Rigs (Jumbos)
- Underground General Lighting
- Underground Haul Trucks
- Underground Wheel Loaders (Boggers)
- Other EMI Sensitive Applications



## Born to live underground

The CPUG LED Luminaire Series is purpose built for lighting installations on UNDERGROUND mining machines. All performance characteristics of the CPUG Series have been optimised for operation in poorly lit, humid and hot conditions of underground mining.

## Zero EMI - no interruptions

Confined underground environments are particularly sensitive to Electro Magnetic Emissions. EMI effects are detrimental on all kinds of electronic communication, navigation and data logging equipment.

CPUG LED Series was engineered from the ground up to produce NO Electro Magnetic Interferences.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

IP66

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

3  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



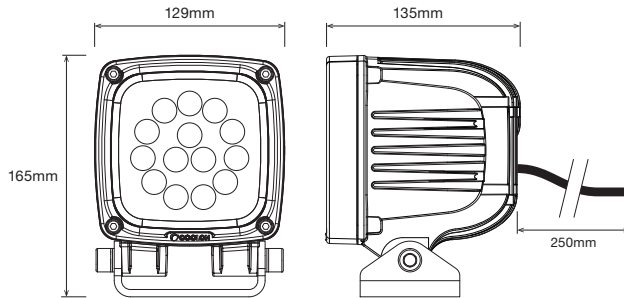
### PROUDLY MADE IN AUSTRALIA

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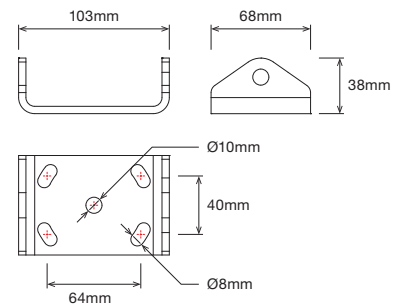


## DIMENSIONS

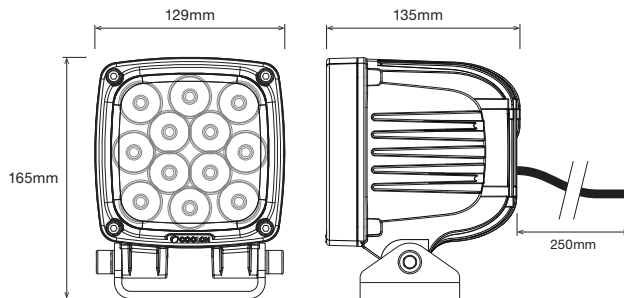
**CP14UG Luminaire**



**Standard Bracket**



**CP12UG Luminaire**

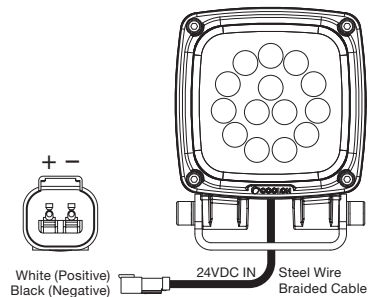


**Optional Clip-on Cover**  
ACC-CP12-COVER (available separately)

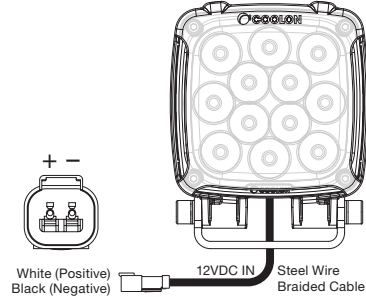


## CONFIGURATION

**CP14UG Luminaire**



**CP12UG Luminaire**



## TECHNICAL SPECIFICATIONS

Product	CPXXUG LED Flood Light	
Model	CP14UG	CP12UG
Optical Characteristics		
Luminous Flux (Photometered)	2,525 – 2,818 lm	3,695 – 4,776 lm
CCT	CWT / WWT	
CRI	>70	
Electrical Characteristics (Luminaire)		
Power Consumption	35W	50W
Nominal Voltage	26VDC	12VDC
Voltage Range	23 – 28VDC	10 – 15VDC
Cable Type	UL2095, 16 AWG x 2C Braid PVC, UV Resistant	
Cable Diameter	7.5mm	
Cable Length	250mm	

<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 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)
Material Composition (Diffuser)	High Impact/Shock Proof - Grilamid TR
Material Composition (Bracket)	Stainless Steel
Mounting/Bracket Type	Standard
Angle Adjustment	Free aiming range -30° to +30°

<b>Weight/Packaging</b>	
Luminaire Weight	2.1kg
Bracket Weight	0.4kg (STB)
Packaging Dimensions	140 x 175 x 160mm
Packaging Weight	2.7kg

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

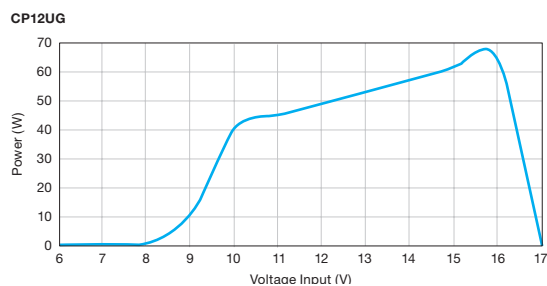
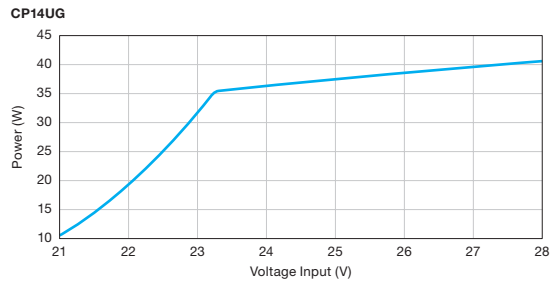
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

## COLOUR TEMPERATURES

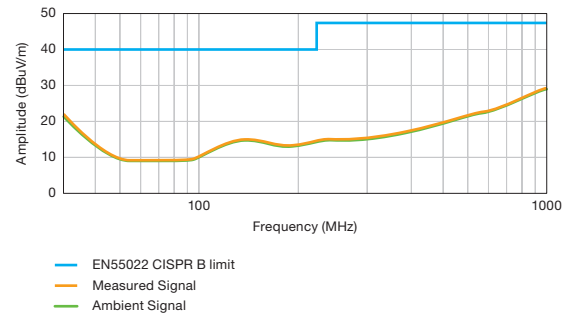


All colour temperatures are indicative. Some variation can occur.

## SUPPLY VOLTAGE VS POWER <sup>1</sup>



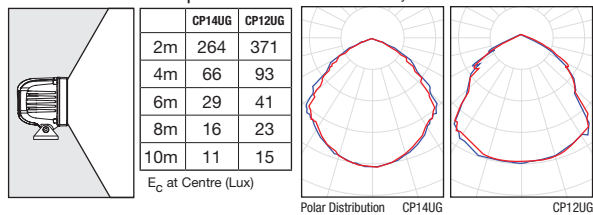
## MINIMAL RADIATED EMI <sup>1</sup>



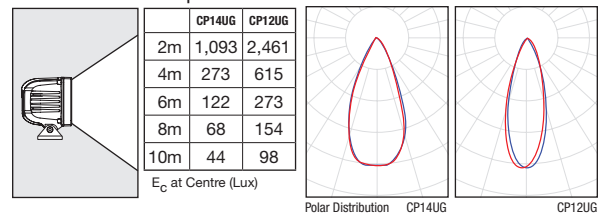
<sup>1</sup>Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behavior may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior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

## ILLUMINANCE AT DISTANCE

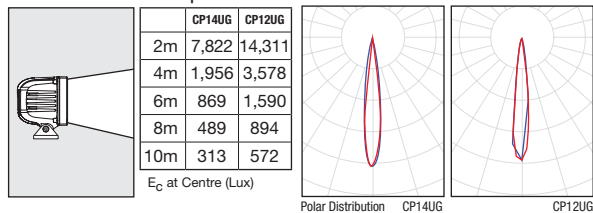
### NOP Extra Wide Optics



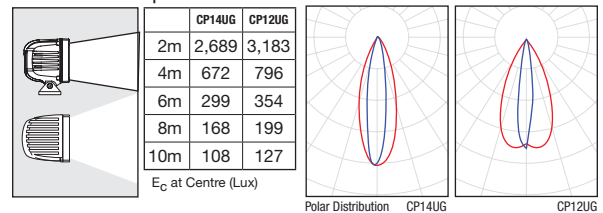
### MEDIUM Beam Optics



### NARROW Beam Optics



### OVAL Beam Optics



## ORDERING EXAMPLE

### CP14UG - CWT - NOP

PRODUCT      COLOUR TEMP      OPTICS

PRODUCT	COLOUR TEMP		OPTICS	
CP14UG	CWT	Cool White	NOP	Extra Wide Optics
CP12UG	WWT	Warm White	MEDIUM	Medium Optics
			NARROW	Narrow Optics
			OVAL	Oval Optics

## ASSOCIATED PRODUCTS

PART #	DESCRIPTION
ACC-CP12-COVER	Clip-on cover





 **COOLON**

# CP22 - SUPERBEAM

**60W LED Flood Light**

Equipped with the latest in LED lighting technology, coupled with state of the art optical innovations, the CP22 forms an ideal luminaire for long distance, narrow beam illumination in a low power configuration. Its robust built body enables the CP22 for use in the harshest environments enduring continuous exposure to vibration and elements.

Designed and manufactured in Australia using only the highest quality components, the CP22 High Power LED Luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Every component of the CP22 LED luminaire has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications.

#### Designed for use in:

- Rail Track Machines
- Rail Locomotives
- Rail Mobile Stock
- Navigational Beam Light
- Drag Lines
- Stacker / Reclaimers
- Trucks





## Robust built and highly resistant to vibration

Closely based on its mining predecessors, CP22 inherits all the robustness and indestructibility required for the harshest of environments.

Luminaire's body and mounting brackets have been specifically engineered to survive the prolonged exposure to varying levels of vibration and its effects of harmonic resonance.

## Peak intensity of > 200,000Cd

Created Specifically to comply with AS7531.4-2007 Australian Standard for Railway Rolling Stock Lighting and Rolling Stock Visibility

Headlight arrangements on track machined able to travel at speeds greater than 60km/h and weighing more than 20 tonnes gross mass shall produce a peak intensity of at least 200,000 candella.



### L70

#### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



#### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



#### COOL SURFACE TEMPERATURE

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### IP66

#### HIGH IP RATING - IP66

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#### EXTRA LOW VOLTAGE OPERATION

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### 3 YEARS

#### 3 YEARS FACTORY WARRANTY

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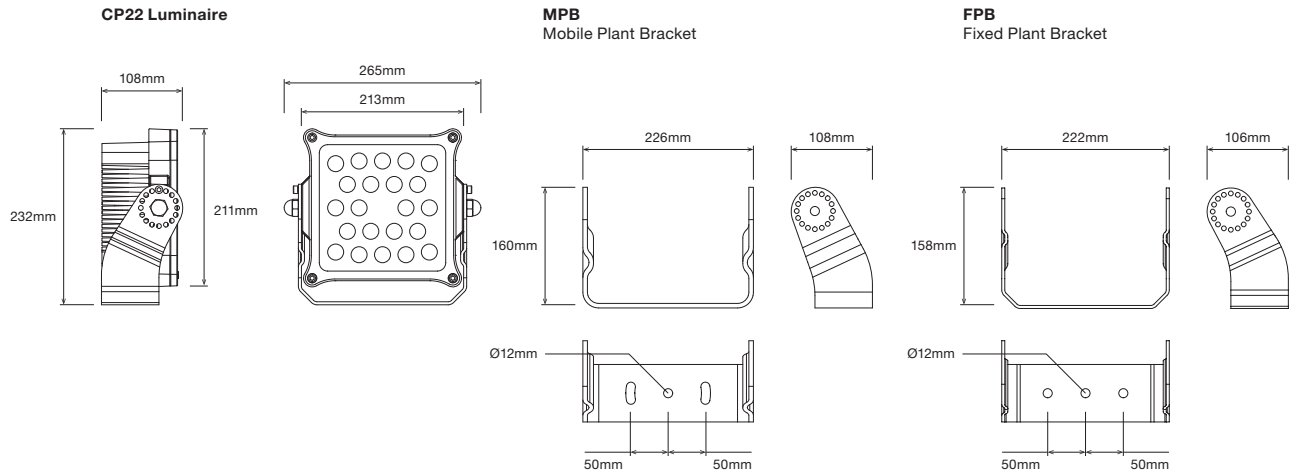


#### PROUDLY MADE IN AUSTRALIA

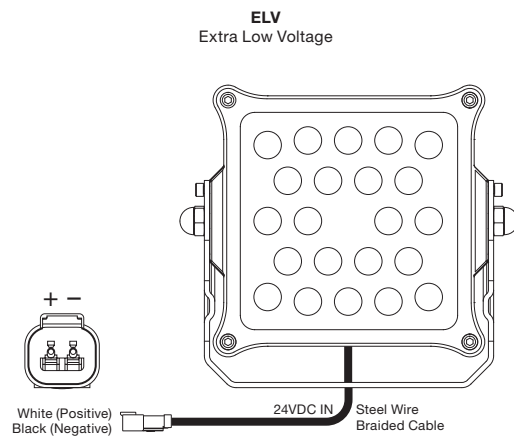
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.



## DIMENSIONS



## CONFIGURATION



## TECHNICAL SPECIFICATIONS

<b>Product</b>	CP22-Superbeam LED Flood Light
<b>Model</b>	CP22
<b>Optical Characteristics</b>	
Peak Cd Intensity	214,200 Cd
CCT	CWT
CRI	>70
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	58.8W Typical, 65W Start
Nominal Voltage	24VDC
Voltage Range	18 – 30VDC
Cable Type	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	7.5mm
Cable Length	200mm

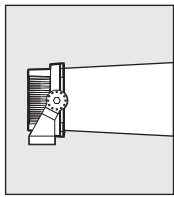
<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 to +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	LM6 Aluminium Alloy (<0.1% copper content)
Material Composition (Optics)	PMMA
Material Composition (Cover)	Toughened Glass - Standard Polycarbonate and Grilamid TR90 options are available upon request
Mounting/Bracket Type	FPB (Standard) MPB (Optional)
Angle Adjustment	11.25° Steps

<b>Weight/Packaging</b>	FPB	MPB
Luminaire Weight	4kg	
Bracket Weight	1.1kg	2kg
Packaging Dimensions	280 x 280 x 140mm	
Packaging Weight	5.5kg	6.4kg

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

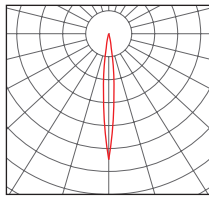
## ILLUMINANCE AT DISTANCE

### SPOT Beam Optics 6°



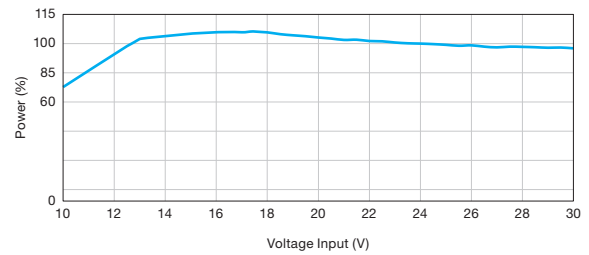
	CP22
2m	55140
3m	23545
5m	8213
10m	2006
15m	885
20m	496

E<sub>c</sub> at Centre (Lux)

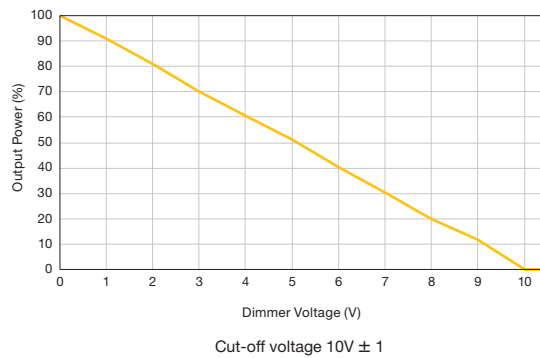


Polar Distribution

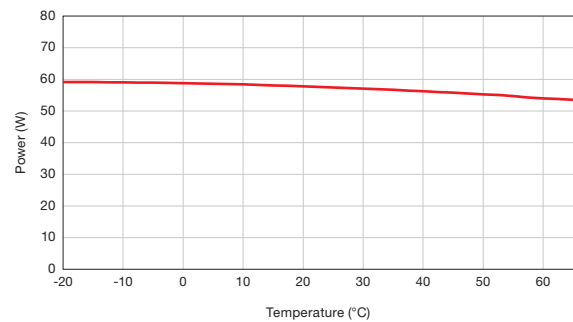
## SUPPLY VOLTAGE VS POWER



## DIMMING VOLTAGE VS POWER



## AMBIENT TEMPERATURE VS POWER



## ORDERING EXAMPLE

**CP22 - SB - SPOT - FPB<sup>1</sup>**

PRODUCT      TYPE      OPTICS      MOUNTING

PRODUCT	TYPE	OPTICS	MOUNTING
CP22	SB	12VDC - 30VDC	SPOT      SPOT Optics
			FPB      Fixed Plant Bracket
			MPB      Mobile Plant Bracket

<sup>1</sup> If MOUNTING is not specified, Fixed Plant Bracket will be supplied



 **COOLON**

# CP24

**75W LED Flood Light**

The CP24 is equipped with the most powerful LEDs and provides a balance of power and size. Its robust design enables the CP24 for use in the harshest environments.

Designed and manufactured in Australia using only the highest quality components, the CP24 High Power LED Luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Able to work side by side with people in the harshest of environments and is ideally suited for most situations where bulb maintenance is difficult or impossible.

Every component of the CP24 LED luminaire has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications.

CP24 LED luminaire is rated IP66 and is suitable for both indoor and outdoor use.

#### Designed for use in:

- Area Lighting
- Bulldozers
- Car Parks
- Drag Lines
- Excavators
- Load In / Out
- Processing Plants
- ROM Pads
- Stacker / Reclaimers
- Trucks
- Wash Pads
- Workshops





## Raw power for the harshest environments

The CP24 is a 75W LED Flood light designed for the harshest environments and provides unrivaled reliability and performance, critical for demanding applications.

### Built to last

Unlike conventional LED floodlights, the CP24 was designed to withstand constant abuse.

- Resistant to Vibration
- Impact and Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations



#### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



#### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



#### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

IP66

#### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



#### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



#### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

3  
YEARS

#### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

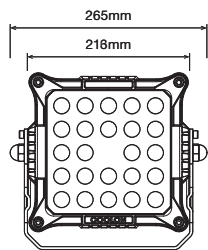
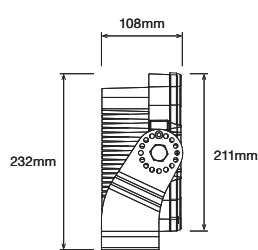


#### PROUDLY MADE IN AUSTRALIA

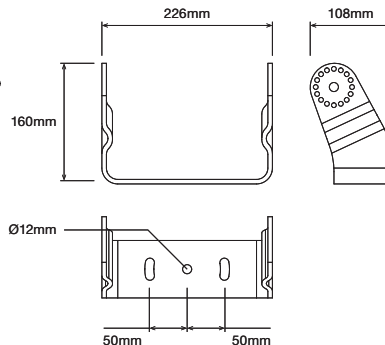
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

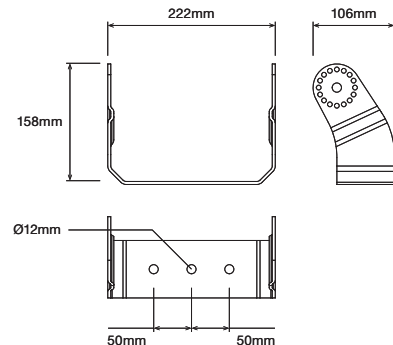
### CP24 Luminaire



### MPB Mobile Plant Bracket

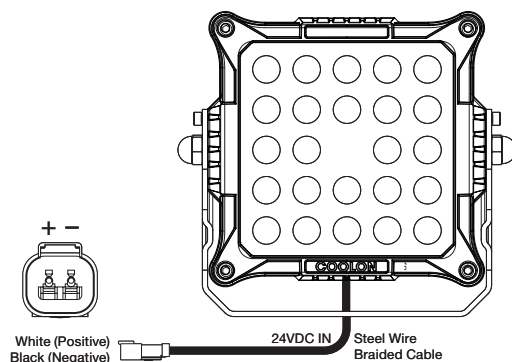


### FPB Fixed Plant Bracket



## CONFIGURATION

### ELV Extra Low Voltage



## TECHNICAL SPECIFICATIONS

<b>Product</b>	CP24 LED Flood Light
<b>Model</b>	CP24
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	7,032 – 8,131 lm
CCT	CWT
CRI	>70
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	76.5W Typical, 78.2W Start
Nominal Voltage	24VDC
Voltage Range	12 – 34VDC
Cable Type	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	7.5mm
Cable Length	200mm

Environmental			
IP Rating	IP66		
Impact Rating	IK09 (Polycarbonate or Grilamid)		
Salt Spray Tested	Yes		
Operating Temp. Range	-30 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)		
Material Composition (Optics)	PMMA		
Material Composition (Cover)	Toughened Glass - Standard Polycarbonate and Grilamid TR90 options are available upon request		
Mounting Bracket Type	FPB (Standard)	MPB (Optional)	
Angle Adjustment	11.25° Steps		
Weight/Packaging	FPB	MPB	
	Luminaire Weight	4kg	4kg
	Bracket Weight	1.1kg	2kg
	Packaging Dimensions	280 x 280 x 140mm	
	Packaging Weight	5.5kg	6.4kg

### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

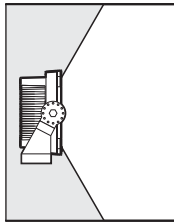
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.



## ILLUMINANCE AT DISTANCE

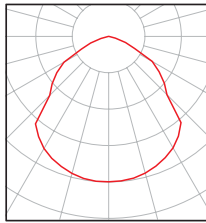
### NOP Extra Wide Optics

\*Generally used for illumination below 3m



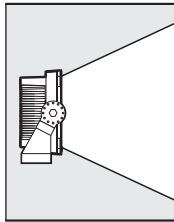
	CP24
2m	714
4m	179
6m	79
8m	45
10m	29
20m	7
30m	3

E<sub>c</sub> at Centre (Lux)



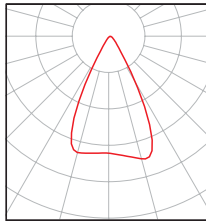
Polar Distribution

### MEDIUM Beam Optics 50°



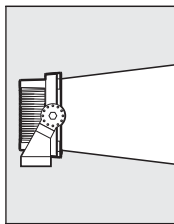
	CP24
2m	2,208
4m	552
6m	245
8m	138
10m	88
20m	22
30m	10

E<sub>c</sub> at Centre (Lux)



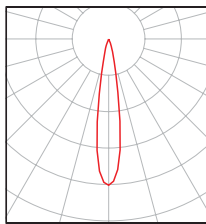
Polar Distribution

### NARROW Beam Optics 15°



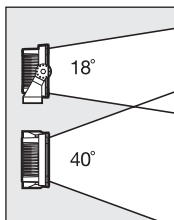
	CP24
2m	14,672
4m	3,668
6m	1,630
8m	917
10m	587
20m	147
30m	65

E<sub>c</sub> at Centre (Lux)



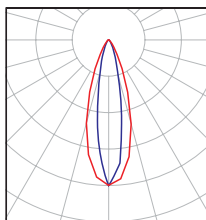
Polar Distribution

### OVAL Beam Optics 40° x 18°



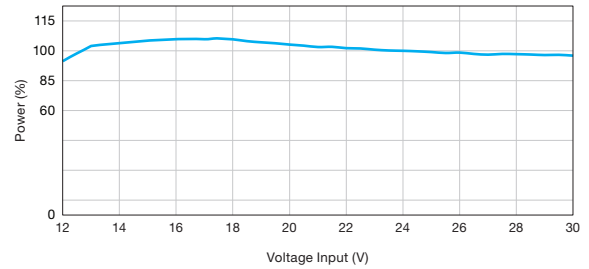
	CP24
2m	6,820
4m	1,705
6m	758
8m	426
10m	273
20m	68
30m	30

E<sub>c</sub> at Centre (Lux)

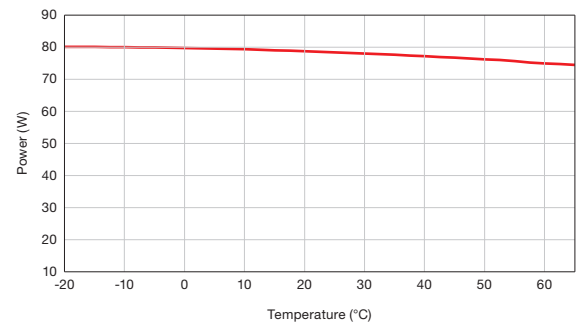


Polar Distribution

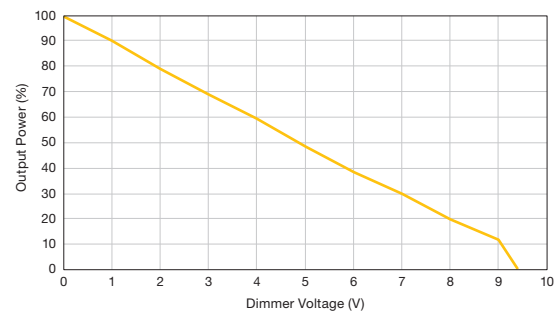
## SUPPLY VOLTAGE VS POWER



## AMBIENT TEMPERATURE VS POWER



## DIMMING VOLTAGE VS POWER



## ORDERING EXAMPLE

### CP24 - MEDIUM - FPB<sup>1</sup> - ELV

PRODUCT

OPTICS

MOUNTING

SUPPLY OPTION

PRODUCT	OPTICS	MOUNTING	SUPPLY OPTION
CP24	NOP Extra Wide Optics	FPB Fixed Plant Bracket	ELV Extra Low Voltage
	MEDIUM Medium Optics	MPB Mobile Plant Bracket	
	NARROW Narrow Optics		
	OVAL Oval Optics		

<sup>1</sup> If MOUNTING is not specified, Fixed Plant Bracket (FPB) will be supplied



 **COOLON**

# CP34

140W LED Flood Light

The CP34 is equipped with the most powerful LEDs and provides a balance of power and size. Its robust design enables the CP34 for use in the harshest environments.

Designed and manufactured in Australia using only the highest quality components, the CP34 High Power LED Luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Able to work side by side with people in the harshest of environments and is ideally suited for most situations where bulb maintenance is difficult or impossible.

Every component of the CP34 LED luminaire has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications.

CP34 LED luminaire is rated IP66 and is suitable for both indoor and outdoor use.

#### Designed for use in:

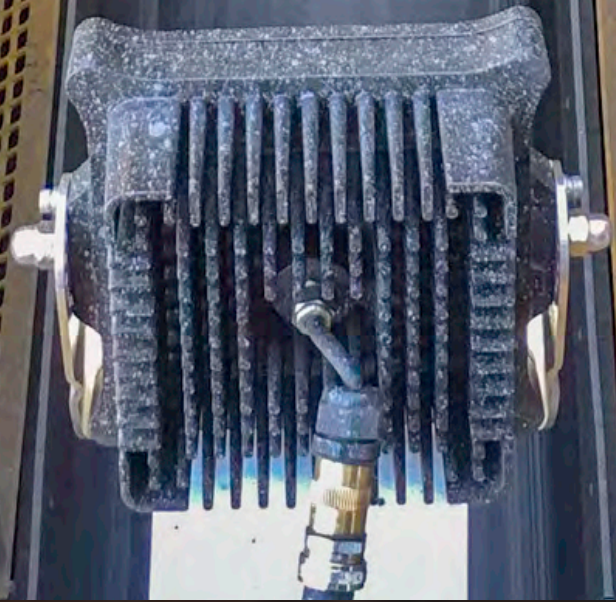
- Area Lighting
- Car Parks
- Load In / Out
- Processing Plants
- ROM Pads
- Wash Pads
- Workshops





## Raw power for the harshest environments

The CP34 is a 140W LED Flood light designed for the harshest environments and provides unrivaled reliability and performance, critical for demanding applications.



## Built to last

Unlike conventional LED floodlights, the CP34 was designed to withstand constant abuse.

- Resistant to Vibration
- Impact and Shock Proof
- High Pressure Washable
- Unaffected by Severe Temperature Variations



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

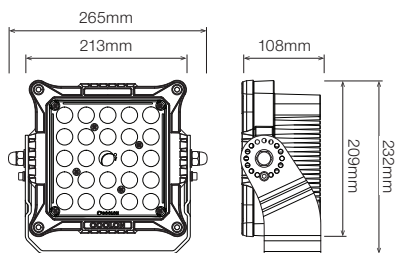


### PROUDLY MADE IN AUSTRALIA

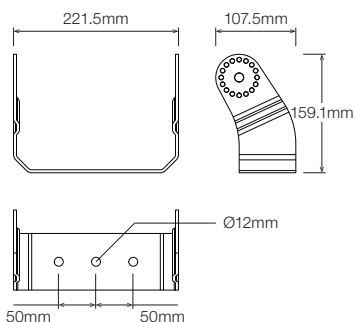
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

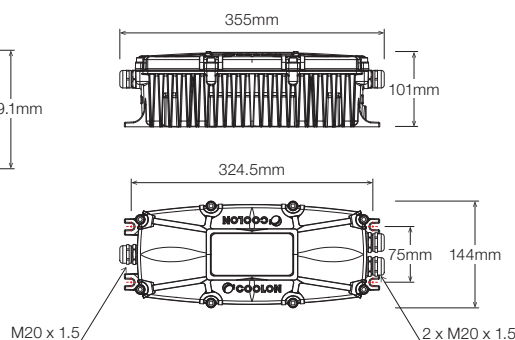
CP34 Luminaire



FPB Fixed Plant Bracket



281AL Aluminium Enclosure



## TECHNICAL SPECIFICATIONS

<b>Make/Model</b>	CP34 LED Flood Light
<b>Model</b>	CP34
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	12,931 – 18,053 lm
CCT	CWT
CRI	> 70
<b>Electrical Characteristics (Luminaire &amp; Power Supply)</b>	
Model Part Number	PWR-CLN-150-42-281AL
Power Consumption	~139.5W @ 230VAC 145W Start Up
Nominal Voltage	230VAC
Voltage Range	90 – 305VAC / 127 – 431VDC
Frequency Range	47 – 63Hz
Power Factor	>0.95 / 230VAC
AC Current	~1.36A / 115VAC ~0.70A / 230VAC ~0.60A / 277VAC
Leakage Current	<0.75mA / 277VAC
Withstand Voltage*	I/P-O/P:3.75kVAC I/P-FG:6kVAC O/P-FG:1.5kVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
Power In/Out Cable Gland Diameter	M20
Luminaire Cable	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Luminaire Cable Diameter	7.5mm
Luminaire Cable Length	3m

<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK09
Expected Lifespan	50,000 Hours to 70% Brightness
Operating Temp. Range	-20 to +50°C
Material Composition (Body)	Aluminium Alloy (Anodised and E-Coated)
Material Composition (Bracket)	Stainless Steel 304
Material Composition (Optics)	PC
Material Composition (Cover)	Tempered Glass
Mounting/Bracket Type	Fix Plant Mount

<b>Weight/Packaging (CP34)</b>	
Luminaire Weight	5.1kg
Packaging Dimensions	280 x 280 x 140mm
Packaged Weight	5.5kg

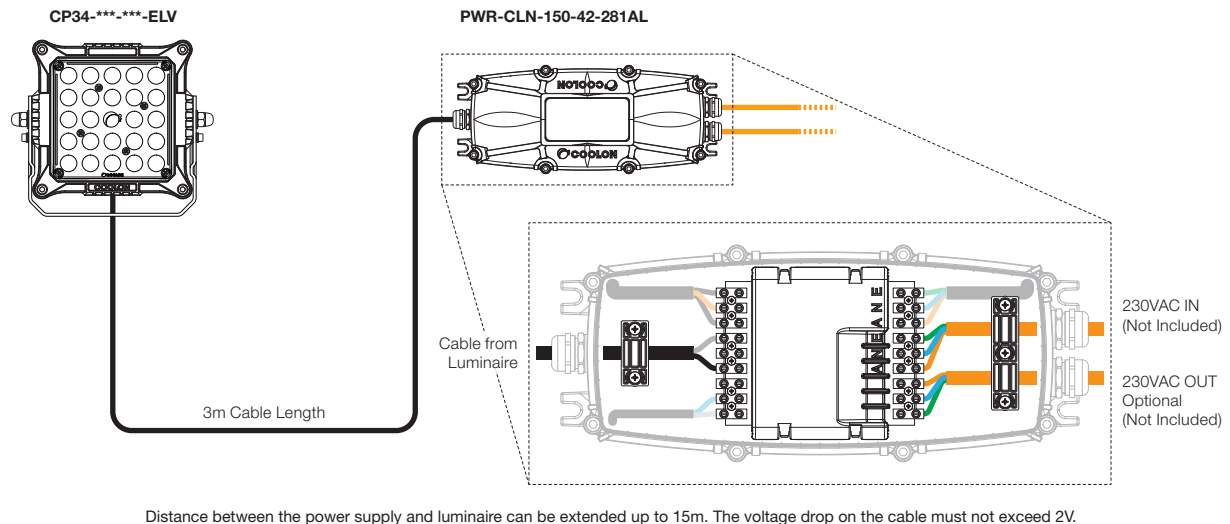
<b>Weight/Packaging (Power Supply)</b>	
Unit Weight	5kg
Packaging Dimensions	350 x 155 x 125mm
Packaged Weight	5.2kg

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

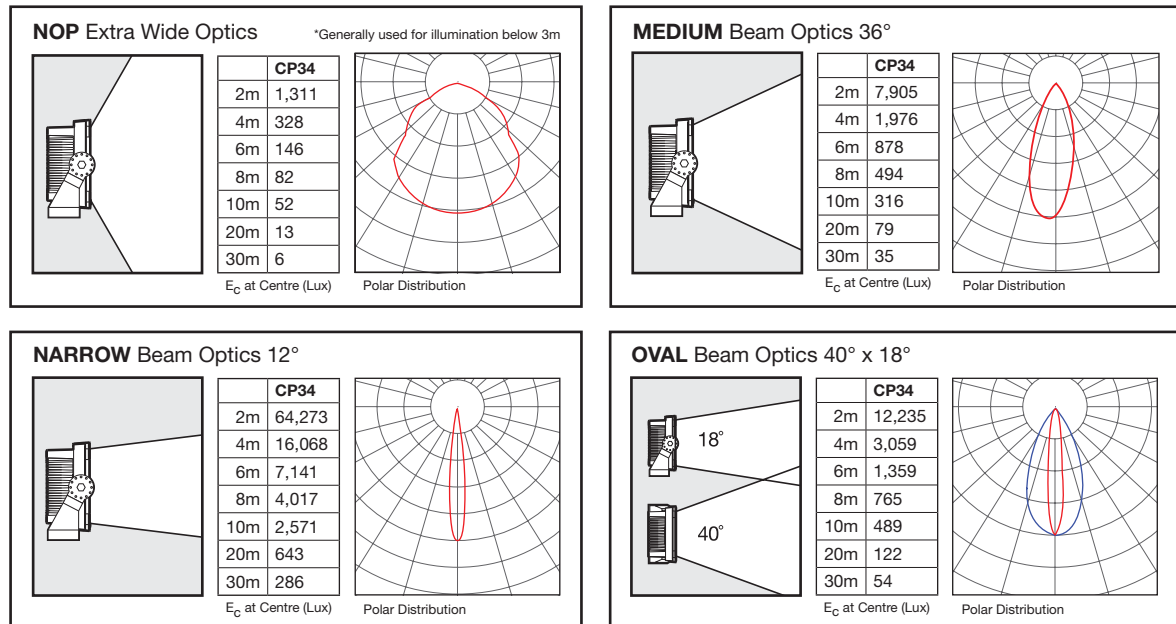
\* Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

\* Optional 10kV surge protection power supply available (PWR-CLN-150-42-281AL-10kV) with the WPS2 kit.

## CP34 KIT CONFIGURATION



## CP34 ILLUMINANCE AT DISTANCE



## ORDERING EXAMPLE

### CP34 - CWT - MEDIUM - FPB - WPS

PRODUCT COLOUR TEMPERATURE OPTICS MOUNTING SUPPLY OPTION

PRODUCT	COLOUR TEMPERATURE	OPTICS	MOUNTING	SUPPLY OPTION
CP34	CWT Cool White	NOP Extra Wide Optics	FPB Fixed Plant Bracket	WPS Power supply (6kV protection)
		MEDIUM Medium Optics		WPS2 Power supply (10kV protection)
		NARROW Narrow Optics		
		OVAL Oval Optics		

## ASSOCIATED PRODUCTS

KIT	PART #	DESCRIPTION
WPS	CP34-***-***-ELV	CP34 Luminaire, Extra Low Voltage
	PWR-CLN-150-42-281AL	Coolon Industrial Power Supply 150W IP66, 42VDC in 281AL Aluminium Enclosure
WPS2	CP34-***-***-ELV	CP34 Luminaire, Extra Low Voltage
	PWR-CLN-150-42-281AL-10kV	Coolon Industrial Power Supply 150W IP66, 42VDC in 281AL Aluminium Enclosure, 10kV Surge Protection





 **COOLON**

# CP56

270W LED Flood Light

The CP56 LED Light optimises the latest from Coolon's LED lighting technology to deliver the most powerful and robust flood light for heavy industrial applications.

Designed and manufactured in Australia using only the highest quality components, the CP56 LED luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Every component of the CP56 LED luminaire has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications.

CP56 LED luminaire is rated IP66 and is suitable for both indoor and outdoor use.

The wide range of available optics allows it to be well-adopted for almost any application.

#### Designed for use in:

- Earthmoving Machinery
- Excavators



## Raw power for the harshest environments

Available in a wide range of power levels to suit your requirement, the CP56 is a high lumen output LED Flood light. The CP56 is designed for the harshest environments and provide unrivalled reliability and performance, critical for demanding applications.

## Built to last

Unlike conventional LED floodlights, the CP56 was designed to withstand constant abuse.

- Resistant to Vibration, Impact & Shock Proof
- High Pressure Washable
- Unaffected by Severe Temperature Variations



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

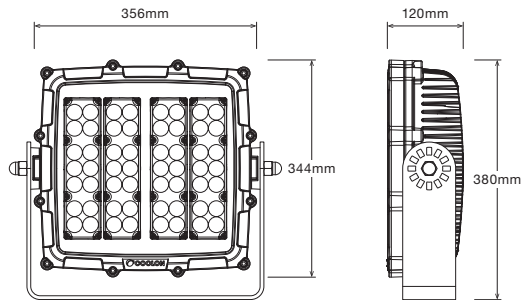


### PROUDLY MADE IN AUSTRALIA

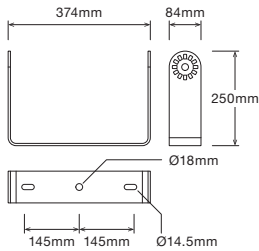
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

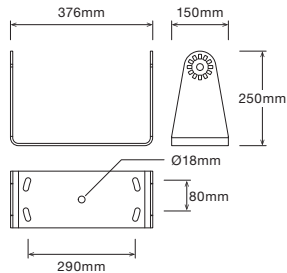
### CP56 Luminaire



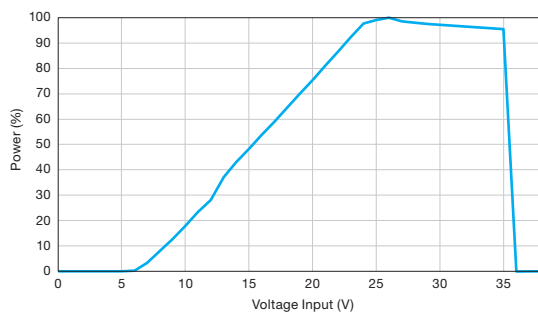
### Fixed Plant Bracket (FPB)



### Mobile Plant Bracket (MPB)

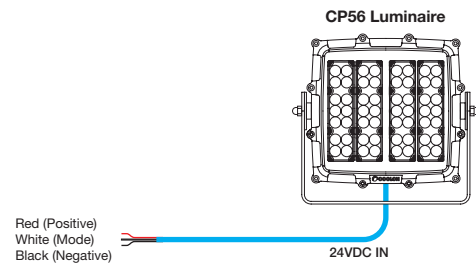


## SUPPLY VOLTAGE VS POWER



## UNIT CONFIGURATION

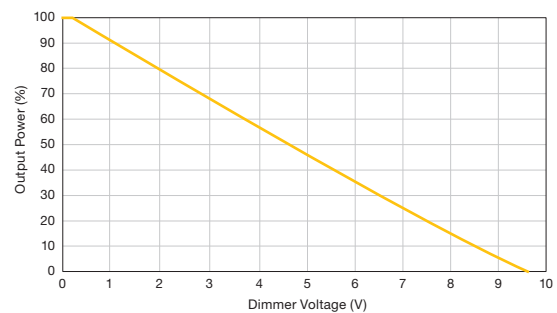
### CP56 - ELV



## OPERATING MODE SELECTION



## DIMMING VOLTAGE VS POWER



## TECHNICAL SPECIFICATIONS

<b>Product</b>	CP56 LED Flood Light
<b>Model</b>	CP56
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	27,070 – 31,730 lm
CCT	CWT / WWT
CRI	>70
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	270W
Nominal Voltage	24VDC
Voltage Range	21 – 34V
Cable Type	UL2517, 14# x 2C + 18# x 1C, Braid PVC UV Resistant
Cable Diameter	7.5mm
Cable Length	2m

Environmental			
IP Rating	IP66		
Impact Rating	IK09		
Salt Spray Tested	Yes		
Operating Temp. Range	-20 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)		
Material Composition (Optics)	PC		
Material Composition (Bracket)	Stainless Steel 316 (FPB)	Bisalloy Bisplate® (MPB)	
Material Composition (Cover)	Tempered Glass		
Mounting/Bracket Type	FPB (Standard)	MPB (Optional)	
Angle Adjustment	+/- 90° in 30° Steps		
Weight/Packaging	FPB	MPB + Plate	SSFPB
Luminaire Weight	12kg		
Bracket Weight	3kg	8.5kg	3.1kg
Packaging Dimensions	W 460mm H 440mm D 180mm	W 460mm H 440mm D 360mm	W 460mm H 440mm D180mm
Packaged Weight	16kg	22kg	16.1kg

### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

<sup>2</sup> 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.



## COLOUR TEMPERATURES

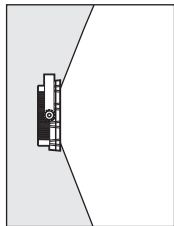


All colour temperatures are indicative. Some variation can occur.

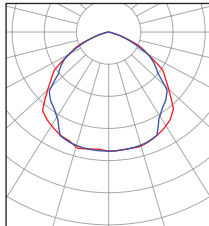
## ILLUMINANCE AT DISTANCE

### NOP Extra Wide Beam

\*Generally used for illumination below 5m



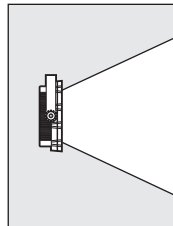
	270W
2m	2,554
4m	639
6m	284
8m	160
10m	102
20m	26
30m	11



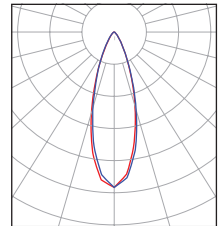
E<sub>c</sub> at Centre (Lux)

Polar Distribution

### MEDIUM Beam Optics 50°



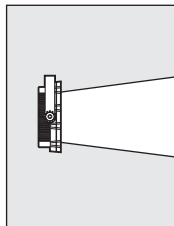
	270W
2m	16,336
4m	4,084
6m	1,815
8m	1,021
10m	653
20m	163
30m	73



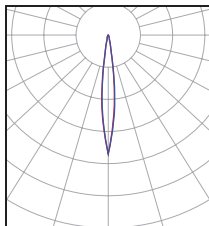
E<sub>c</sub> at Centre (Lux)

Polar Distribution

### NARROW Beam Optics 14°



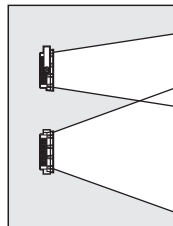
	270W
2m	117,374
4m	29,343
6m	13,042
8m	7,336
10m	4,695
20m	1,174
30m	552



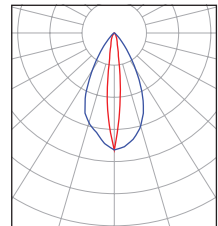
E<sub>c</sub> at Centre (Lux)

Polar Distribution

### OVAL Beam Optics 40° x 18°



	270W
2m	25,558
4m	6,389
6m	2,840
8m	1,597
10m	1,022
20m	256
30m	114



E<sub>c</sub> at Centre (Lux)

Polar Distribution

## ORDERING EXAMPLE

**CP56 - CWT<sup>1</sup> - MEDIUM - FPB<sup>2</sup> - ELV**

PRODUCT      COLOUR TEMPERATURE      OPTICS      MOUNTING      SUPPLY OPTION

PRODUCT	COLOUR TEMPERATURE		OPTICS		MOUNTING		SUPPLY OPTION	
CP56	CWT	Cool White	NOP	Extra Wide Beam	FPB	Fixed Plant Bracket	ELV	Extra Low Voltage
	WWT	Warm White	MEDIUM	Medium Beam	MPB	Mobile Plant Bracket		
			NARROW	Narrow Beam	SSFPB	Stainless Steel Fixed Plant Bracket		
			OVAL	Oval Beam				

<sup>1</sup> If COLOUR TEMPERATURE is not specified, Cool White LEDs (CWT) will be supplied

<sup>2</sup> If MOUNTING is not specified, Fixed Plant Bracket (FPB) will be supplied



 **COOLON**

# CP66

**320W LED Flood Light**

The CP66 LED Light optimises the latest from Coolon's LED lighting technology to deliver the most powerful and robust flood light for heavy industrial applications.

Designed and manufactured in Australia using only the highest quality components, the CP66 LED luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Every component of the CP66 LED luminaire has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications.

CP66 LED luminaire is rated IP66 and is suitable for both indoor and outdoor use.

The wide range of available optics allows it to be well-adopted for almost any application.

#### Designed for use in:

- Crushers
- Flood Lighting
- Large Open Spaces
- Lighting Towers
- Processing Plants
- ROM Bins
- Switching Yard
- Warehouses
- Workshops



## Guaranteed performance & robust design

Robust design allows lighting towers to be safely transported over long distances on Australia's rough, corrugated, outback roads. The CP66 is reliably sealed against damaging water and ingress of dust, guaranteeing performance.

## Built to last

Unlike conventional LED floodlights, the CP66 was designed to withstand constant abuse.

- Resistant to Vibration, Impact & Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

IP66

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

3  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



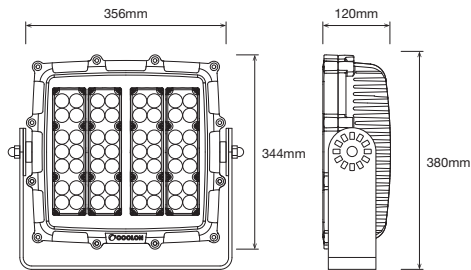
### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

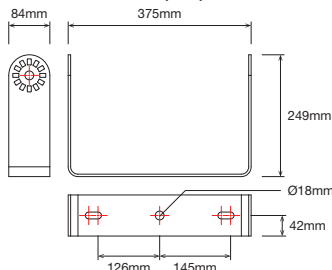


## DIMENSIONS

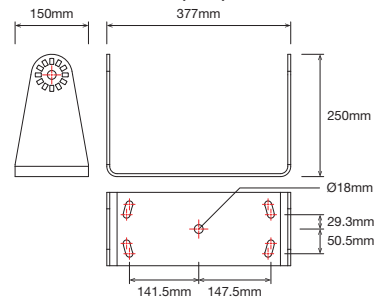
**CP66 Luminaire**



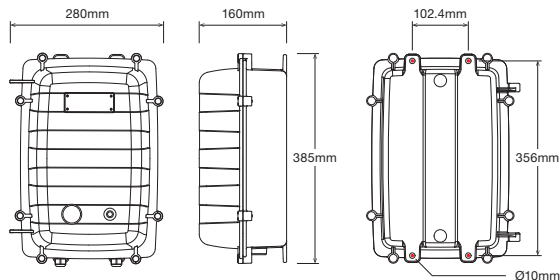
**Fixed Plant Bracket (FPB)**



**Mobile Plant Bracket (MPB)**



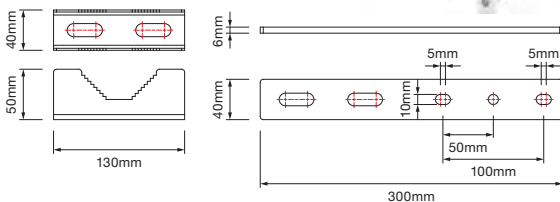
## POWER SUPPLY DIMENSIONS



## ACCESSORIES

**U-Bolt Pole Mounting Plate for AL036 Enclosure**  
ACC-PMB-XXXX-PL100-GAL (available separately)

Download document below for more information  
<http://www.coolon.com.au/mounting-acc-pdf>



## TECHNICAL SPECIFICATIONS

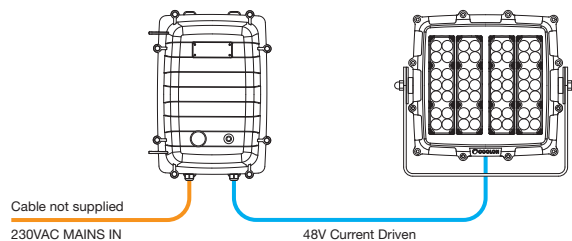
<b>Product</b>	CP66 LED Flood Light
<b>Model</b>	CP66
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	30,766 – 36,783 lm
CCT	CWT / NWT / WWT
CRI	>70
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	320W
Cable Type	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	7.5mm
Luminaire Cable Length	2m
Cable Extension	Distance between the power supply and luminaire can be extended up to 30m. The voltage drop on the cable must not exceed 2V.
<b>Electrical Characteristics (Power Supply)</b>	
Model Part Number	PWR-CLN-320-48-036AL
Voltage Range	100 – 277VAC / 127 – 350VDC
Frequency Range	47 – 63Hz
Power Factor	≥0.95 / 230VAC @ Full Load
Leakage Current	<0.75 mA / 277VAC

## KIT CONFIGURATION

**CP66 - XXX - XXX - XXX - WPS**

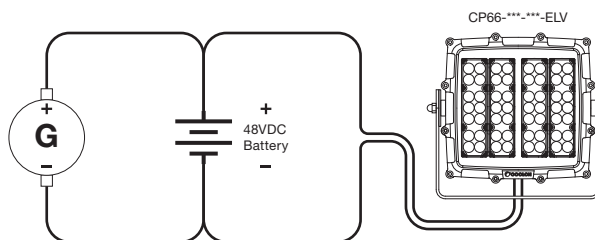
PWR-CLN-320-48-036AL

CP66-\*\*\*-\*\*\*-ELV



## MOBILE LIGHTING APPLICATION

The CP66 can be powered by a DC generator, provided the power is supplied via a 48VDC battery.



## Environmental

IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 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)
Material Composition (Optics)	PMMA
Material Composition (Bracket)	Stainless Steel    Bisalloy Bisplate® (MPB) 316 (FPB)
Material Composition (Cover)	Tempered Glass
Mounting/Bracket Type	FPB (Standard)    MPB (Optional)
Angle Adjustment	+/- 90° in 30° Steps

## Weight/Packaging

	FPB	MPB + Plate	SSFPB
Luminaire Weight (CP66)	12kg		
Bracket Weight (CP66)	3kg	8.5kg	3.1kg
Packaging Dimensions (CP66)	W 460mm H 440mm D 180mm	W 460mm H 440mm D 360mm	W 460mm H 440mm D 180mm
Packaged Weight (CP66)	16kg	22kg	16.1kg
Packaging Dimensions (PSU)	400 x 280 x 180mm		
Packaged Weight (PSU)	5.2kg		

## Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

<sup>2</sup> 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.

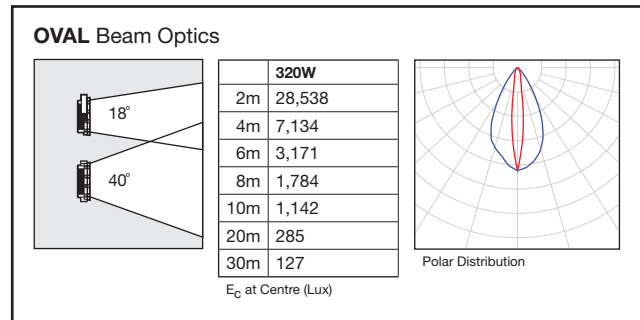
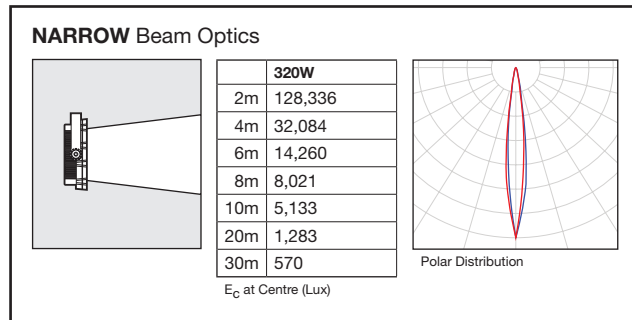
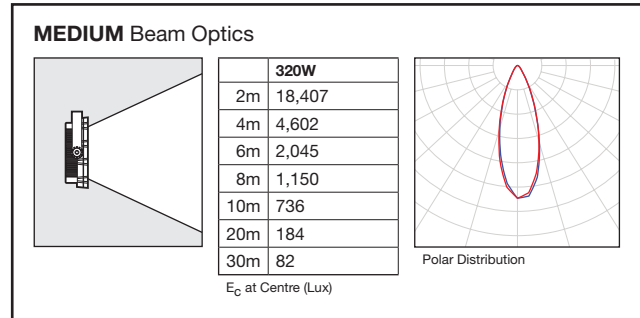
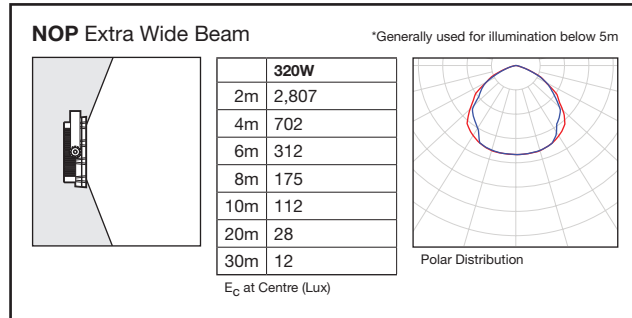
## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## ILLUMINANCE AT DISTANCE

**NOTE:** Illuminance at distance are measured using Cool White LEDs (CWT)



## ORDERING EXAMPLE (SALES KIT PART NUMBER)

**CP66 - NWT<sup>1</sup> - NARROW - FPB<sup>2</sup> - WPS**

PRODUCT COLOUR TEMPERATURE OPTICS MOUNTING SUPPLY OPTION

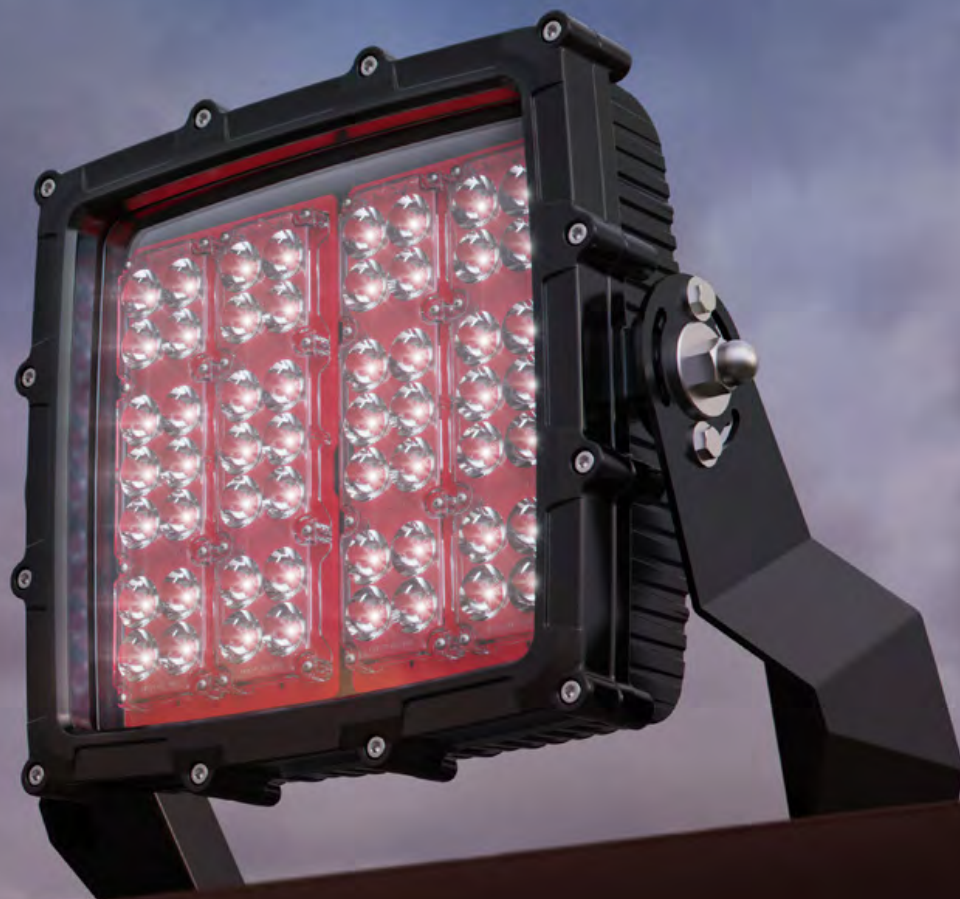
PRODUCT	COLOUR TEMPERATURE	OPTICS	MOUNTING	SUPPLY OPTION
CP66	CWT Cool White	NOP Extra Wide Beam	FPB Fixed Plant Bracket	WPS With Power Supply
	NWT Neutral White	MEDIUM Medium Beam	MPB Mobile Plant Bracket	
	WWT Warm White	NARROW Narrow Beam	SSFPB Stainless Steel Fixed Plant Bracket	
		OVAL Oval Beam		

<sup>1</sup> If COLOUR TEMPERATURE is not specified, Neutral White LEDs (NWT) will be supplied

<sup>2</sup> If MOUNTING is not specified, Fixed Plant Bracket (FPB) will be supplied

## ASSOCIATED PRODUCTS

KIT	PART #	DESCRIPTION
WPS	CP66-***-***-ELV	CP66 Luminaire, Extra Low Voltage
	PWR-CLN-320-48-036AL	Coolon Industrial Power Supply 320W IP66, 48VDC in 00036 Aluminium Enclosure



 COOLON

# HT66

470W / 320W High Tower LED Flood Light

The HT66 LED Light optimises the latest from Coolon's LED lighting technology to deliver the most powerful and robust flood light for heavy industrial applications.

Designed and manufactured in Australia using only the highest quality components, the HT66 LED luminaire is designed specifically for industrial applications where reliability and performance are paramount.

Every component of the HT66 LED luminaire has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications.

The wide range of available optics allows it to be well-adopted for almost any application.

#### Designed for use in:

- Crushers
- Flood Lighting
- Large Open Spaces
- Lighting Towers
- Processing Plants
- ROM Bins
- Switching Yard
- Warehouses
- Workshops







## Built to last

Unlike conventional LED floodlights, the HT66 was designed to withstand constant abuse.

- Resistant to Vibration, Impact & Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations

## Extreme Remote Operation

Revolutionary power management allowing for up to 50 metres of separation between power supply and luminaire with minimal system losses.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



### EXTREME REMOTE OPERATION

Revolutionary power management allowing for up to 50 metres of separation between power supply and luminaire with minimal system losses.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

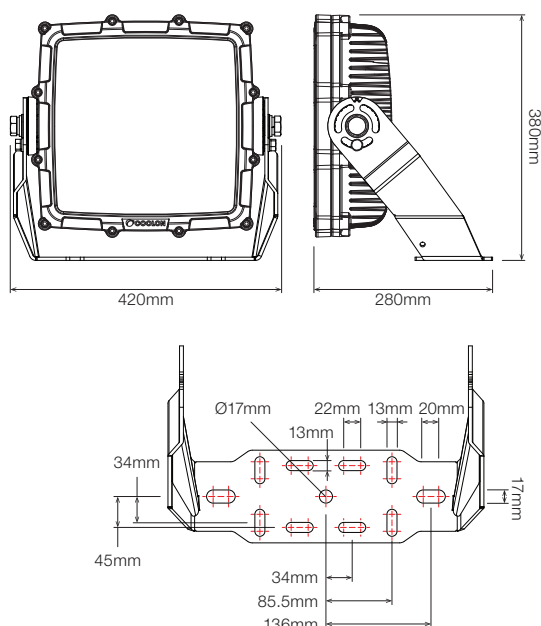


### PROUDLY MADE IN AUSTRALIA

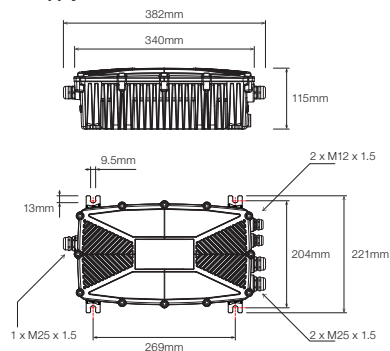
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

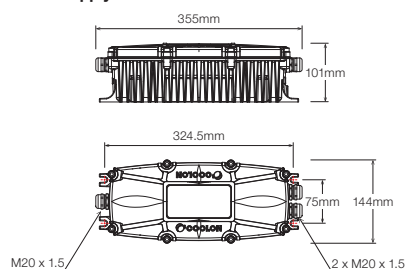
### HT66 Luminaire with Fixed Plant Bracket



### Remote Power Supply - PWR-CLN-600-CC2800-381AL-MPXXX



### Remote Power Supply - PWR-CLN-320-CC1750-281AL-MP



## TECHNICAL SPECIFICATIONS

Product	High Tower LED Flood Light	
Model	HT66-470	HT66-320

### Optical Characteristics

Luminous Flux (Photometered)	43,072 – 51,664 lm	32,562 – 39,056 lm
CCT	NWT / CWT	
CRI	>70	

### Electrical Characteristics (Luminaire & Power Supply)

Typical Power Consumption	470W	320W
Max Power Consumption (Cold Start) <sup>1</sup>	560W	340W
Cable Type	UL2517, 20AWG x 2C + 14AWG x 2C, Braid PVC, UV Resistant	
Cable Diameter	8.5mm	
Luminaire Cable Length	2m	
Cable Extension	Distance between the power supply and luminaire can be extended up to 50 metres using a suitable extension loom - see ACCESSORIES section for details.	

### Electrical Characteristics (230VAC Power Supply for HT66 470W unit)

Model Part Number	PWR-CLN-600-CC2800-381AL-MP230
Voltage Range	90 – 305VAC / 127 – 250VDC
Frequency Range	47 – 63Hz
Power Factor	0.95
Leakage Current	<0.75 mA IEC 60598-1; 240VAC/ 60Hz; Grounding effectively
Surge Protection	6kV line-line, 10kV line-earth

### Electrical Characteristics (415VAC Power Supply for HT66 470W unit)

Model Part Number	PWR-CLN-600-CC2800-381AL-MP415
Voltage Range	249 – 528VAC / 352 – 500VDC
Frequency Range	47 – 63Hz
Power Factor	0.95
Leakage Current	<0.75 mA IEC 60598-1; 240VAC/ 60Hz; Grounding effectively
Surge Protection	6kV line-line, 10kV line-earth

### Electrical Characteristics (Power Supply for HT66 320W unit)

Model Part Number	PWR-CLN-320-CC1750-281AL-MP
Voltage Range	180 – 440VAC / 254 – 550VDC
Frequency Range	47 – 63Hz
Power Factor	>0.95 / 230VAC
Leakage Current	<0.75mA / 440VAC

### Environmental

IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 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)
Material Composition (Optics)	PMMA
Material Composition (Bracket)	Stainless Steel 316
Material Composition (Cover)	Tempered Glass
Angle Adjustment	360° Rotation

### Weight/Packaging

Luminaire Weight	12kg
Bracket Weight	3kg
Packaging Dimensions	W 560mm H 440mm D 310mm
Packaged Weight	16kg

### Weight/Packaging

Power Supply Weight	7.1kg
Packaging Dimensions	W 350mm H 130mm D 230mm
Packaged Weight	7.4kg

### Weight/Packaging

Power Supply Weight	5kg
Packaging Dimensions	W 350mm H 155mm D 125mm
Packaged Weight	5.2kg

### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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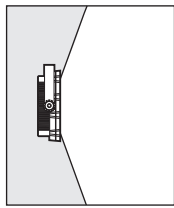
Optical and electrical characteristics are measured using Neutral White LEDs (NWT) Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

<sup>1</sup> Power consumption ramps down as the luminaire approaches steady state work conditions.

## ILLUMINANCE AT DISTANCE

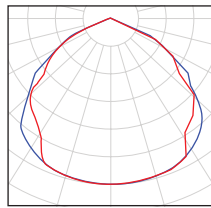
### NOP Extra Wide Beam

\*Generally used for illumination below 5m



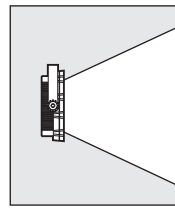
	320W	470W
2m	2,971	3,930
4m	743	982
6m	330	437
8m	186	246
10m	119	157
20m	30	39
30m	13	17

E<sub>c</sub> at Centre (Lux)



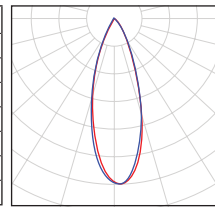
Polar Distribution

### MEDIUM Beam Optics



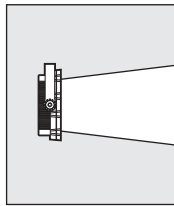
	320W	470W
2m	19,481	25,769
4m	4,870	6,442
6m	2,165	2,863
8m	1,218	1,611
10m	779	1,031
20m	195	258
30m	87	115

E<sub>c</sub> at Centre (Lux)



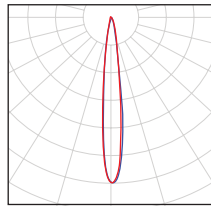
Polar Distribution

### NARROW Beam Optics



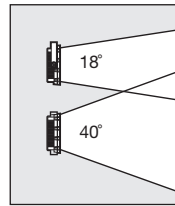
	320W	470W
2m	112,960	149,423
4m	28,240	37,356
6m	12,551	16,603
8m	7,060	9,339
10m	4,518	5,977
20m	1,130	1,494
30m	502	664

E<sub>c</sub> at Centre (Lux)



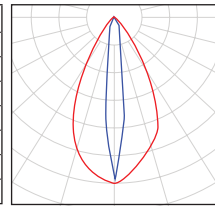
Polar Distribution

### OVAL Beam Optics



	320W	470W
2m	30,204	39,953
4m	7,551	9,988
6m	3,356	4,439
8m	1,888	2,439
10m	1,208	1,598
20m	302	400
30m	134	178

E<sub>c</sub> at Centre (Lux)



Polar Distribution

## COLOUR TEMPERATURES

WARM WHITE  
≤ 3250K

NEUTRAL WHITE  
3251K - 4250K

COOL WHITE  
≥ 4251K



All colour temperatures are indicative. Some variation can occur.

## ORDERING EXAMPLE

### HT66 - 470 - NWT - NARROW - RPS230<sup>2</sup>

PRODUCT POWER COLOUR TEMPERATURE OPTICS SUPPLY OPTION

PRODUCT	POWER	COLOUR TEMPERATURE	OPTICS	SUPPLY OPTION <sup>1</sup>
HT66	470 470W	NWT Neutral White	NOP Extra Wide Beam	RPS230 Remote Power Supply, 230VAC nominal input voltage
		CWT Cool White	NARROW Narrow Beam	RPS415 Remote Power Supply, 415VAC nominal input voltage
			MEDIUM Medium Beam	
			OVAL Oval Beam	

### HT66 - 320 - NWT - NARROW - RPS<sup>3</sup>

PRODUCT POWER COLOUR TEMPERATURE OPTICS SUPPLY OPTION

PRODUCT	POWER	COLOUR TEMPERATURE	OPTICS	SUPPLY OPTION <sup>2</sup>
HT66	320 320W	NWT Neutral White	NOP Extra Wide Beam	RPS Remote Power Supply, for 320W unit
		CWT Cool White	NARROW Narrow Beam	
			MEDIUM Medium Beam	
			OVAL Oval Beam	

## ASSOCIATED PRODUCTS

KIT	PART #	DESCRIPTION
RPS230 <sup>2</sup>	HT66-***-***-DC	HT66 Luminaire, 470W, Low Voltage
	PWR-CLN-600-CC2800-381AL-MP230	Coolon Industrial Power Supply 600W IP66, 2.8A constant current, 230VAC nominal input voltage, 10kV protection in 381 Aluminium Enclosure
RPS415 <sup>2</sup>	HT66-***-***-DC	HT66 Luminaire, 470W, Low Voltage
	PWR-CLN-600-CC2800-381AL-MP415	Coolon Industrial Power Supply 600W IP66, 2.8A constant current, 415VAC nominal input voltage, 10kV protection in 381 Aluminium Enclosure
RPS <sup>3</sup>	HT66-***-***-DC	HT66 Luminaire, 320W, Low Voltage
	PWR-CLN-320-CC1750-281AL-MP	Coolon Industrial Power Supply 320W IP66, 1.75A constant current, wide input voltage range, in 281 Aluminium Enclosure

## ACCESSORIES

PART NUMBER	DESCRIPTION
CBL-2C142C20-BKC-30	Cable, 2C*14AWG, 2C*20AWG, Red, Black, White and Blue Conductors, Black Circular Jacket, 105°C 300V PVC/PVC, 8.5mm OD, 30 meters
CBL-2C142C20-BKC-40	Cable, 2C*14AWG, 2C*20AWG, Red, Black, White and Blue Conductors, Black Circular Jacket, 105°C 300V PVC/PVC, 8.5mm OD, 40 meters
CBL-2C142C20-BKC-50	Cable, 2C*14AWG, 2C*20AWG, Red, Black, White and Blue Conductors, Black Circular Jacket, 105°C 300V PVC/PVC, 8.5mm OD, 50 meters

<sup>2</sup> If SUPPLY OPTION is not specified when ordering HT66-470-...-RPS then the RPS230 kit shall be supplied.

<sup>3</sup> If SUPPLY OPTION is specified as 230 or 415 when ordering HT66-320 the RPS kit shall be supplied



140W LED. Replacement for  
Watchman HID up to 400W.



 **COOLON**

# WARDEN LED

140W LED Flood Light

Designed and manufactured in Australia using only the highest quality components, the Warden LED Luminaire is designed specifically for industrial applications where reliability and performance are paramount.

The Warden LED was designed and developed to replace existing halogen/xenon work lights fitted on mining and industrial equipment. The high power LED luminaire provides superior luminous output in a compact size enclosure.

Every component of the Warden LED luminaire has been carefully engineered to provide the most reliable performance and bring across many benefits of utilizing solid state lighting technology in industrial applications.

Warden LED luminaire is rated IP66 and is suitable for both indoor and outdoor use.

The range of optics available allows it to be well-adopted for almost any application.

#### Designed for use in:

- Area Lighting
- Flood Light
- Retrofit for Watchman Light
- Security Lighting
- Workshop Lighting



## Multi-purpose Floodlight for the Harshest Environments

The Warden 140 has been designed to replace traditional Watchman's found in various industrial applications. Warden 140 is a reliable product suited for use in areas where lamp replacement is near impossible or where harsh conditions shorten the life of your traditional HID lamps.

## Built to Last

Unlike conventional LED floodlights, the Warden LED was designed to withstand constant abuse.

- Resistant to Vibration
- Impact/Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage DC power. It is substantially safer to work with than conventional mains powered light sources.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

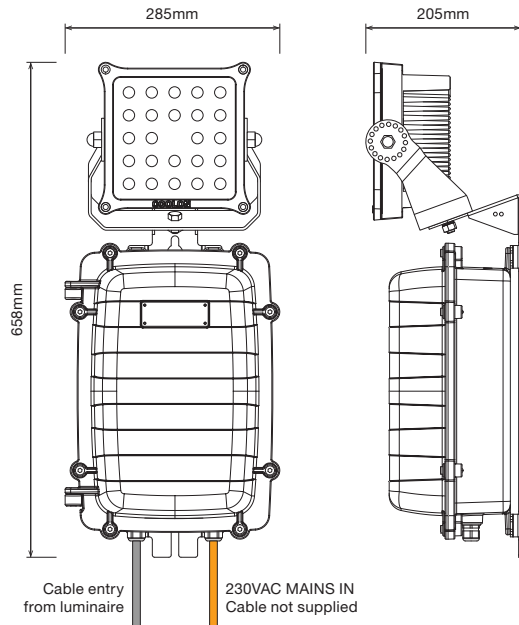
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



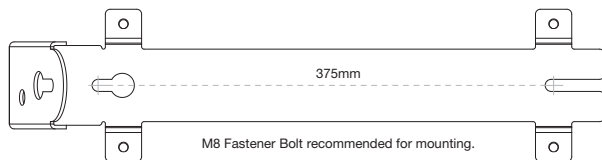
### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS



## MOUNTING BRACKET (INCLUDED)



## TECHNICAL SPECIFICATIONS

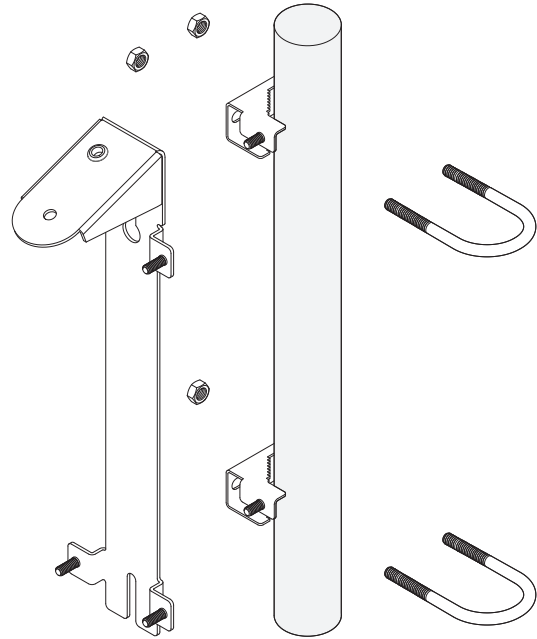
<b>Make/Model</b>	WARDEN LED Flood Light
<b>Model</b>	WDN-140
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	12,931 – 18,053 lm
CCT	CWT / WWT
CRI	> 70
<b>Electrical Characteristics (Luminaire &amp; Power Supply)</b>	
Model Part Number	PWR-CLN-150-42-036AL
Power Consumption	~139.5W @ 230VAC 145W Start Up
Nominal Voltage	230VAC
Voltage Range	100 – 277VAC / 127 – 350VDC
Frequency Range	47 – 63Hz
Power Factor	>0.95 / 230VAC
AC Current	~1.36A / 115VAC ~0.70A / 230VAC ~0.60A / 277VAC
Leakage Current	<0.75mA / 277VAC
Withstand Voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
Cable Gland Diameter	M20
Cable Gland Opening	7 – 13mm

<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

<sup>2</sup> 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.

<sup>3</sup> Sold separately as an optional extra.

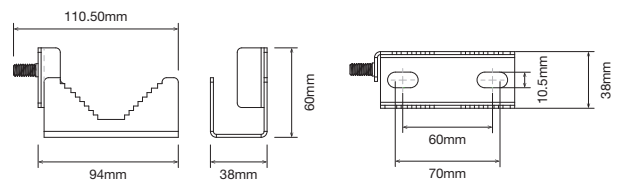
## EASY POLE INSTALLATION (USING U-BOLT MOUNTING KIT<sup>3</sup>)



## U-BOLT MOUNTING KIT<sup>3</sup> (OPTIONAL EXTRA)

### Optional U-Bolt Pole Mounting Kit x 2 ACC-PMB-XXXX-BOLT-SS

Available to fit DN40 or DN50 pipe. Please refer to industrial accessories brochure for more details. visit [coolon.com.au](http://coolon.com.au) to download



### Environmental

IP Rating	IP66
Impact Rating	IK09
Expected Lifespan	50,000 Hours to 70% Brightness
Operating Temp. Range	-20 to +50°C
Material Composition (Body)	Aluminium Alloy (Anodised and E-Coated)
Material Composition (Bracket)	Stainless Steel 304
Material Composition (Optics)	PC
Material Composition (Cover)	Tempered Glass
Mounting/Bracket Type	Wall / Surface Mount

### Weight/Packaging

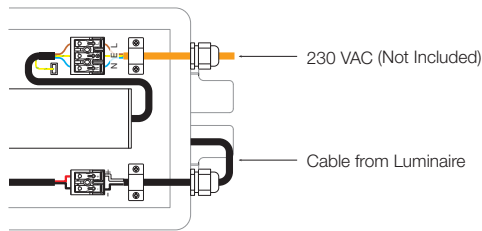
Unit Weight	10.5kg
Packaging Dimensions	460 x 450 x 260mm
Packaged Weight	12.4kg

### Warranty

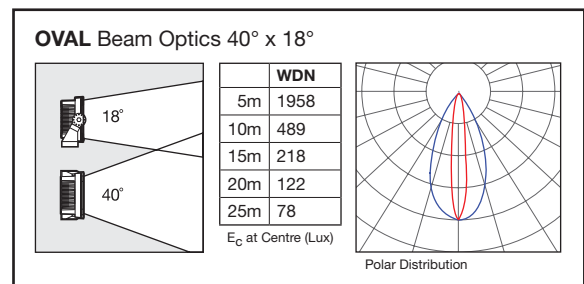
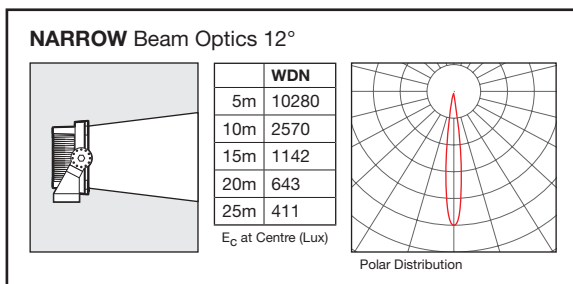
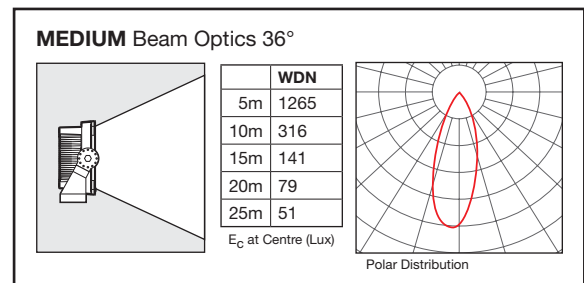
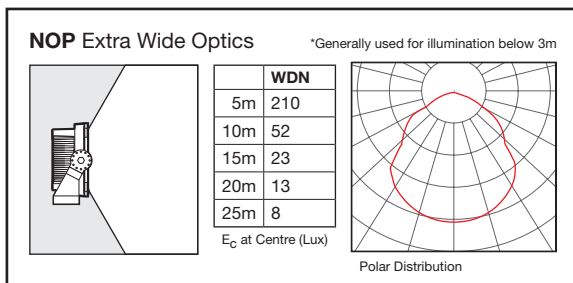
Warranty	3 years warranty as standard 5 years extended warranty optional
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## WIRING DIAGRAM



## WDN-140 ILLUMINANCE AT DISTANCE



## ORDERING EXAMPLE

**WDN - 140 - CWT - MEDIUM - MP**

PRODUCT      TYPE      COLOUR TEMP      OPTICS      SUPPLY OPTION

PRODUCT	TYPE		COLOUR TEMP		OPTICS		SUPPLY OPTION	
WDN	140	140W	CWT	Cool White	NOP	Extra Wide Optics	MP	Mains Powered
			WWT	Warm White	MEDIUM	Medium Optics		
					NARROW	Narrow Optics		
					OVAL	Oval Optics		



 **COOLON**

# XBLADE™

**480W /960W LED Flood Light**

The XBLADE™ Heavy-Duty LED Light optimises the latest from Coolon's LED lighting technology to deliver the most powerful and robust flood light for heavy industrial applications.

Designed and manufactured in Australia using only the highest quality components, the XBLADE™ luminaire is designed specifically for industrial and commercial applications where reliability and performance are paramount. XBLADE™ luminaire is rated IP66 and is suitable for harsh outdoor conditions.

The XBLADE™ 480 is also available in Dark Sky compliant version.

#### Designed for use in:

- High Mast
- Stock Piles
- Sports Grounds
- Drag Lines
- Crushers
- Hard Stand Areas
- Switching Yards
- Security Perimeter
- Workshops
- Golf Courses
- Loading Docks
- Ports/Wharf



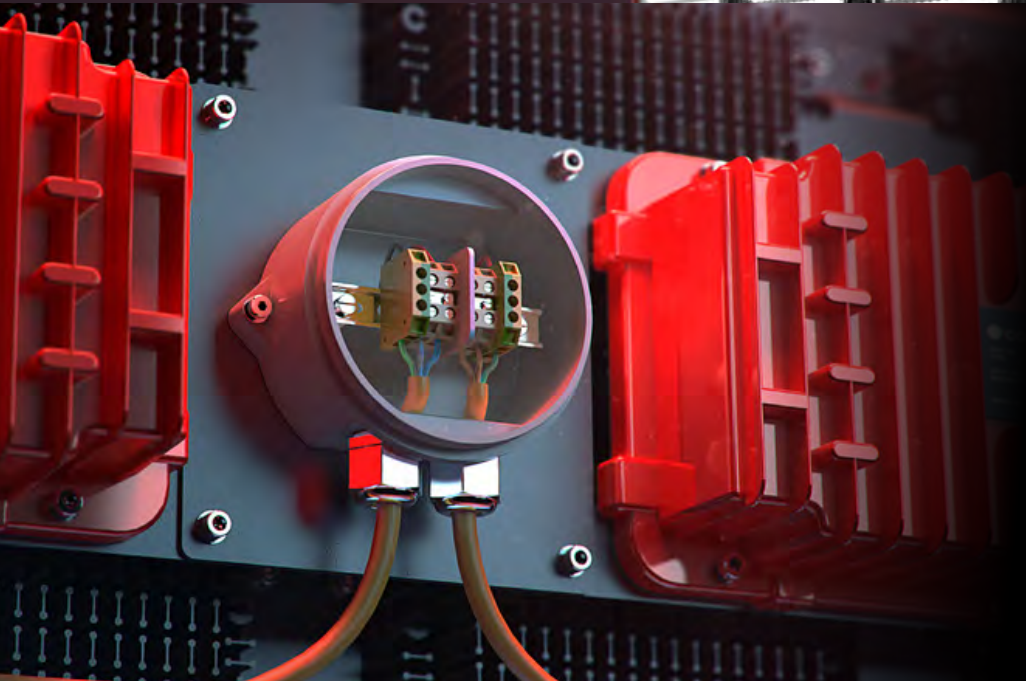
# Built for application

The XBLADE™ Heavy-Duty LED Light has been designed specifically for safe and efficient installation and operation. A sturdy mainframe, in-built lifting handles and unique mounting bracket make this flood light easy to handle and quick to install.



# Easy to install

The XBLADE™ Heavy-Duty LED Light is purpose-fitted with a quick-access mining-grade junction box that allows for easy in-line wire-in / wire-out connection.



## COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



## NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.



## QUALITY WHITE LIGHT W/ HIGH CRI

This luminaire emits light with a spectrum closely resembling that of natural daylight with a relatively high colour rendering index (CRI) greater than 80, enabling excellent colour differentiation.

**3**  
YEARS

## 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



## INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.

**IP66**

## HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



## INDUSTRIAL GRADE FINISHINGS

A long-life luminaire deserves a long-life finish. We source the finest alloys and surface treatments to ensure the luminaire provides superior performance all year round in all weather conditions.



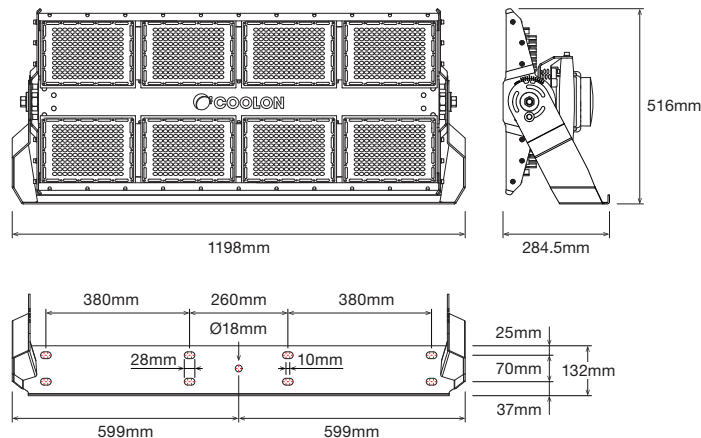
## PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

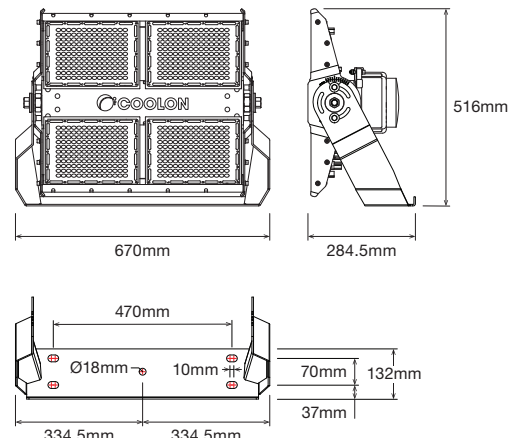


## DIMENSIONS

### XBLADE™ 960

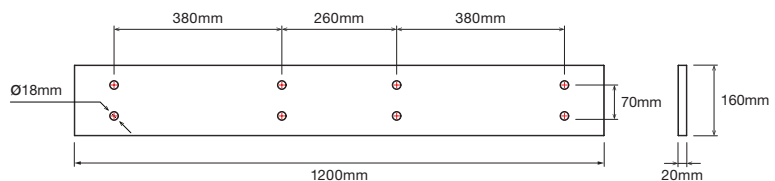


### XBLADE™ 480



## ACCESSORIES

**Optional Beam Coupling Plate for XBLADE™ 960**  
ACC-BCP-BC400-PL330-MS (available separately)



## TECHNICAL SPECIFICATIONS

Product	XBLADE LED Flood Light	
Model	XBLADE™ 960	XBLADE™ 480
<b>Optical Characteristics</b>		
Luminous Flux (Photometered)	117,067 – 128,228 lm	58,534 – 64,114 lm
CCT	CWT / NWT / WWT / AMB	
CRI	>70 excluding amber	
<b>Electrical Characteristics (MP-WPS Luminaire)</b>		
Power Consumption	960W	480W
Nominal Voltage	230VAC	
Voltage Range	180 – 440VAC / 254 – 550VDC	
Frequency Range (AC)	47 – 63Hz	
Power Factor	≥0.98 / 230VAC	
Leakage Current	<2mA / 230VAC	<1mA / 230VAC
<b>Electrical Characteristics (RPS Luminaire)</b>		
Power Consumption	960W	480W
Voltage Input	2x 170 ± 10 VDC	170 ± 10 VDC
Cable Extension	Distance between the power supply and luminaire can be extended up to 100 metres using 1.5mm² cable.	
<b>Electrical Characteristics (RPS230 Power Supply)</b>		
Model Part Number	PWR-CLN-600-CC2800-381AL-MP230	
Voltage Range	100 – 277VAC / 127 – 250VDC	
Frequency Range	47 – 63Hz	
Power Factor	0.95	
Leakage Current	<0.75 mA IEC 60598-1; 240VAC/ 60Hz; Grounding effectively	
Surge Protection	6kV line-line, 10kV line-earth	
<b>Electrical Characteristics (RPS415 Power Supply)</b>		
Model Part Number	PWR-CLN-600-CC2800-381AL-MP415	
Voltage Range	249 – 440VAC / 352 – 500VDC	
Frequency Range	47 – 63Hz	
Power Factor	0.95	
Leakage Current	<0.75 mA IEC 60598-1; 240VAC/ 60Hz; Grounding effectively	
Surge Protection	6kV line-line, 10kV line-earth	

### Sail Area

AS4 Optics	MP	0.244m <sup>2</sup> (approx.)	0.140m <sup>2</sup> (approx.)
Horizontal Orientation	ELV	0.195m <sup>2</sup> (approx.)	0.115m <sup>2</sup> (approx.)
MEDIUM / OVAL Optics	MP	0.970m <sup>2</sup> (approx.)	0.614m <sup>2</sup> (approx.)
Vertical Orientation	ELV	0.970m <sup>2</sup> (approx.)	0.614m <sup>2</sup> (approx.)

### Environmental

IP Rating	IP66	
Operating Temp. Range	-20°C to +50°C	
Thermal Management Type	Active / Continuous	
Expected Lifespan	50,000 Hours to 70% Brightness	
Material Composition (Body)	High Purity Cold Forged Aluminium	
Material Composition (Optics)	PC	
Material Composition (Bracket)	Stainless Steel 316	

### Weight/Packaging

Luminaire Weight (MP-WVR)	34kg	19.1kg
Luminaire Weight (RPS)	25kg	14.6kg
Bracket Weight	9kg	6.7kg
Luminaire Dimensions	W 1093mm H 495mm D 235mm	W 670mm H 495mm D 235mm
Packaging Dimensions	W 1260mm H 560mm D 340mm	W 710mm H 560mm D 310mm
Packaged Weight (MP-WVR)	50kg	30kg
Packaged Weight (RPS)	47kg	29.5kg

### Weight/Packaging

Power Supply Weight	PWR-CLN-600-CC2800-381AL-MP230	7.1kg
Packaging Dimensions	W 350mm H 130mm D 230mm	
Packaged Weight		7.4kg

### Weight/Packaging

Power Supply Weight	PWR-CLN-600-CC2800-381AL-MP415	7.1kg
Packaging Dimensions	W 350mm H 130mm D 230mm	
Packaged Weight		7.4kg

### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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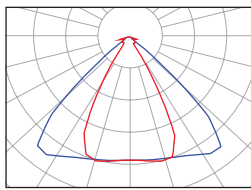
<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)  
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

## ILLUMINANCE AT DISTANCE

### OVAL Beam Optics 60° x 100°

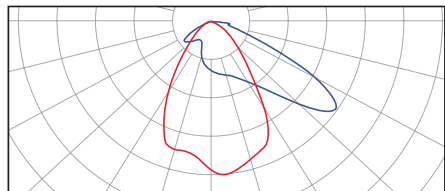
	480W	960W
4m	2417	4835
8m	604	1209
12m	267	537
16m	151	302
20m	97	193

E<sub>c</sub> at Centre (Lux)



Polar Distribution  
— C0 - C180 — C90 - C270

### AS4 Asymmetric Type 4 Optic



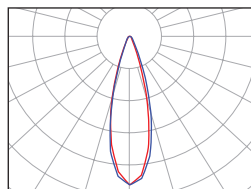
Polar Distribution

— V55 — H5

### MEDIUM Beam Optics 30°

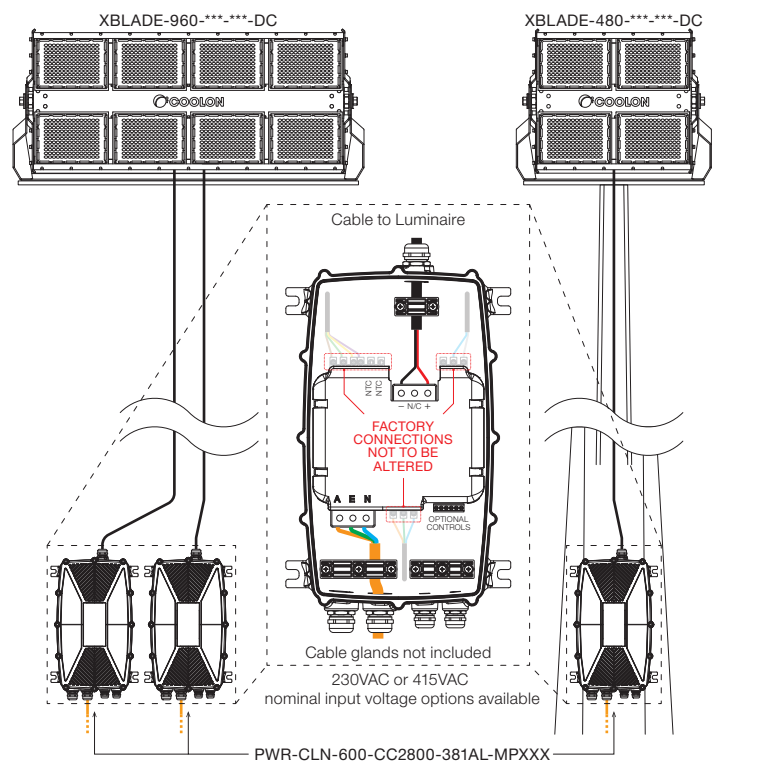
	480W	960W
4m	9517	19035
8m	2379	4759
12m	1057	2115
16m	595	1190
20m	381	761

E<sub>c</sub> at Centre (Lux)



Polar Distribution  
— C0 - C180 — C90 - C270

## REMOTE POWER SUPPLY CONFIGURATION



Distance between the power supply and luminaire can be extended up to 100 metres using 1.5mm<sup>2</sup> cable.

## DARK SKY COMPLIANCE



Lighting pollution is a negative of today's technology, disturbing nocturnal animals, affecting human circadian rhythms and severely impacting astronomy observatories.

The XBLADE™ 480 is available in Dark Sky compliant configuration that features a specifically designed shield in a bid to reduce light pollution.



## ORDERING EXAMPLE

### XBLADE - 960 - CWT - OVAL - MP-WVR

PRODUCT

TYPE

COLOUR TEMP

OPTICS

SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	SUPPLY OPTION	HOOD OPTION
XBLADE™	960	CWT Cool White	OVAL Oval Optics	MP-WVR Wide Voltage Range	DS Dark Sky Hood <sup>2</sup>
	480	NWT Neutral White	MEDIUM Medium Optics	RPS230 <sup>1</sup> Remote Power Supply, 230VAC nominal input voltage	
		WWT Warm White	AS4 Asymmetric Type 4 Optic	RPS415 <sup>1</sup> Remote Power Supply, 415VAC nominal input voltage	
		AMB Amber			

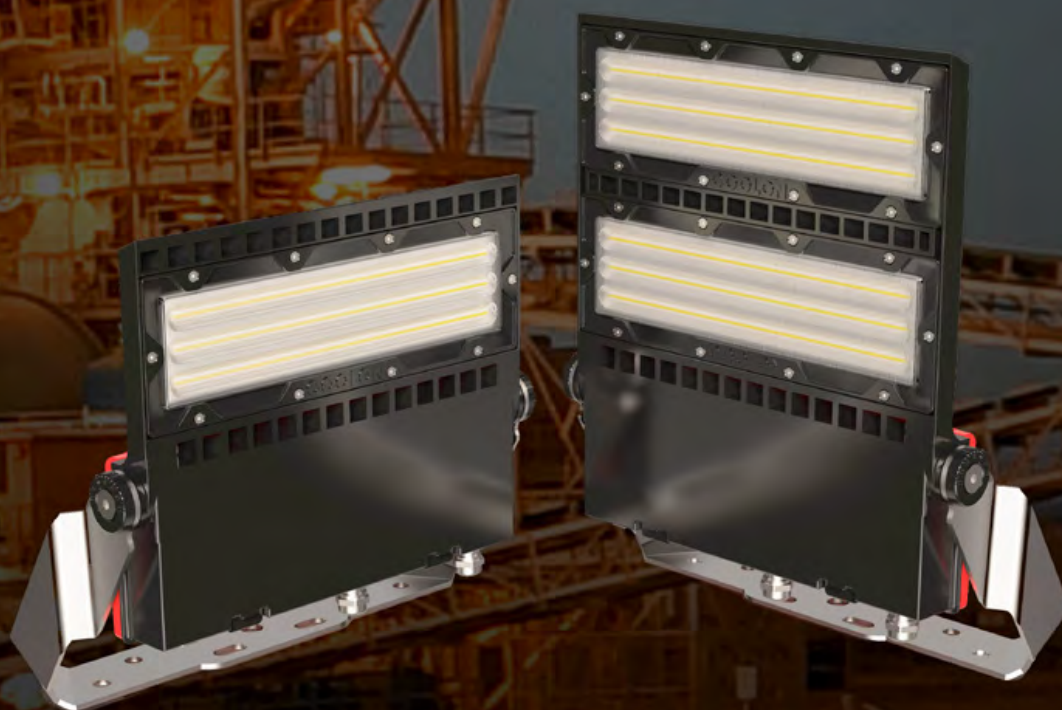
<sup>1</sup> Refer to KIT OPTIONS for details

<sup>2</sup> Dark Sky Hood (DS) only available for XBLADE™ 480 Warm White LEDs (WWT) and Asymmetric Type 4 Optics (AS4)

## KIT OPTIONS

KIT	PART #	DESCRIPTION
RPS230	XBLADE-***-***-DC	XBLADE™ Luminaire, Low Voltage DC Supply**
	PWR-CLN-600-CC2800-381AL-MP230	Coolon Industrial Power Supply 600W IP66, 2.8A constant current, 230VAC nominal input voltage, 10kV protection in 381 Aluminium Enclosure
RPS415	XBLADE-***-***-DC	XBLADE™ Luminaire, Low Voltage DC Supply**
	PWR-CLN-600-CC2800-381AL-MP415	Coolon Industrial Power Supply 600W IP66, 2.8A constant current, 415VAC nominal input voltage, 10kV protection in 381 Aluminium Enclosure

Distance between the power supply and luminaire can be extended up to 100 metres using 1.5mm<sup>2</sup> cable.



 COOLON

# BUTCH

75W/150W/240W LED Flood Light

The most versatile, high-performing, and easy to install floodlight designed with the user in mind across a variety of applications.

The Butch has been carefully engineered as a direct result of feedback from maintenance crews around Australia to achieve ease of install combined with a robust and virtually indestructible luminaire.

#### Designed for use in:

- Area Lighting
- Billboards
- Drag Lines
- Exterior Walls
- Flood Lighting
- Security Lighting
- Workshops





## Built to last

Unlike conventional LED floodlights, the Butch LED luminaire was designed to withstand constant abuse.

- Resistant to Vibration
- Impact / Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations

## Dark Sky Compliant



Light should be directed where it is needed. Lighting pollution is exacerbated by misdirected light, which impacts astronomical observatories, disturbs nocturnal animals, and wastes energy.

The Butch LED Luminaire is available in a Dark Sky compliant option.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

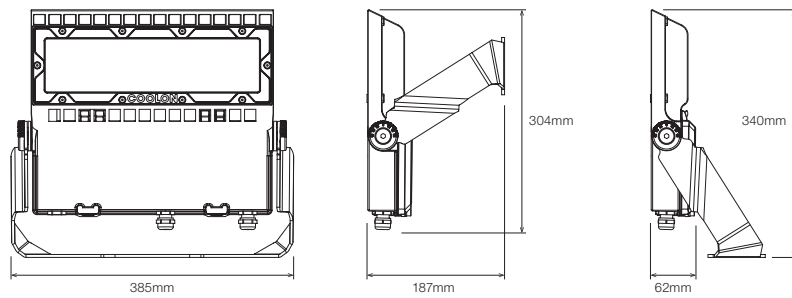


### DESIGNED AND BUILT FOR AUSTRALIAN CONDITIONS

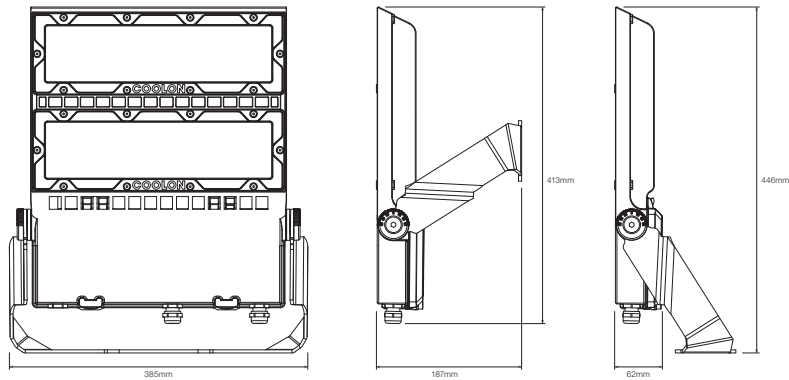
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

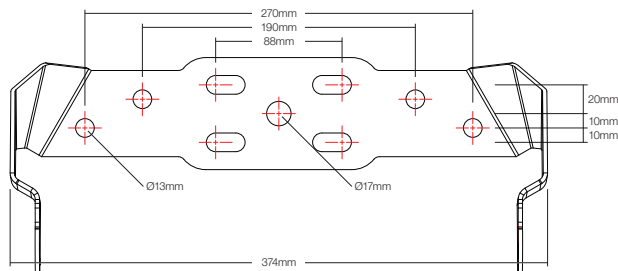
### BLF-75 / BLF-150 Butch LED Floodlight 75W / 150W Version



### BLF-240 Butch LED Floodlight 240W Version

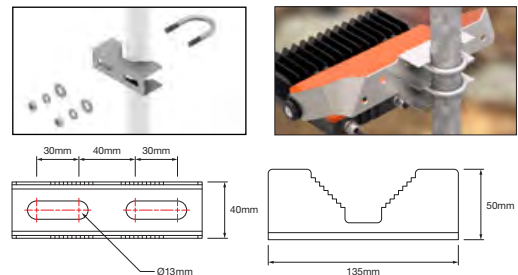


## MOUNTING BRACKET



## ACCESSORIES

**Optional U-Bolt Pole Mounting Clamp Kit x 2**  
(available separately) refer to industrial accessories brochure.  
visit [coolon.com.au](http://coolon.com.au) to download now.



## TECHNICAL SPECIFICATIONS

Product	BUTCH LED Flood Light		
Model	BLF-75	BLF-150	BLF-240
Optical Characteristics			
Luminous Flux (Photometered)	12,024 – 13,037 lm	19,061 – 20,496 lm	30,497 – 32,794 lm
CCT	CWT / NWT / WWT / AMB		
CRI	>70		
Electrical Characteristics (Luminaire)			
Power Consumption	85W Typical	160W Typical	250W Typical
Nominal Voltage	230VAC		
Voltage Range	180 – 528VAC, 254 – 747VDC		
Frequency Range	50 – 60Hz		
Power Factor	≥0.98 / 230VAC		
Leakage Current	<0.75mA / 480VAC		

<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 to 50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	LM6 Aluminium Alloy
Material Composition (Optics)	Polycarbonate
Cable Entry Options	2 x M20
Cable Diameter	7 – 13mm

<b>Weight/Packaging</b>	<b>75W / 150W</b>	<b>240W</b>
Luminaire Weight	4.6kg	6.4kg
Packaging Dimensions	<b>W</b> 435mm <b>H</b> 370mm <b>D</b> 76mm	<b>W</b> 500mm <b>H</b> 415mm <b>D</b> 76mm
Packaged Weight	5.2kg	6.9kg

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

<sup>2</sup> 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.

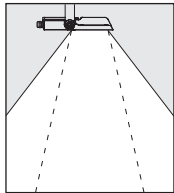
## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

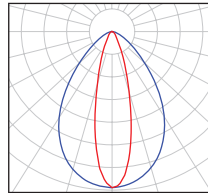
## ILLUMINANCE AT DISTANCE

### T1 Type 1 Optical Distribution



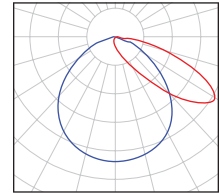
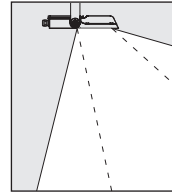
	75	150	240
2m	3,017	6,079	9,726
4m	754	1,520	2,431
6m	335	675	1,081
8m	189	380	608
10m	121	243	389

$E_c$  at Centre (Lux)



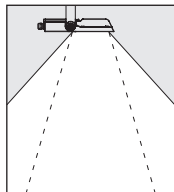
Polar Distribution

### T3 Type 3 Optical Distribution



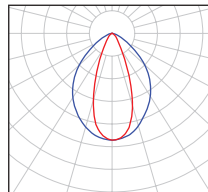
Polar Distribution

### T2 Type 2 Optical Distribution



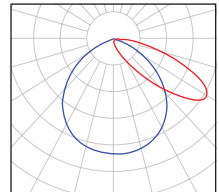
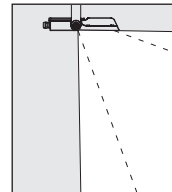
	75	150	240
2m	3059	4,706	7,530
4m	765	1,177	1,882
6m	340	523	837
8m	191	294	471
10m	122	188	301

$E_c$  at Centre (Lux)



Polar Distribution

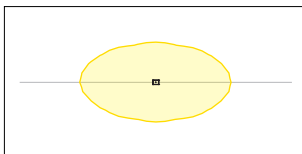
### T4 Type 4 Optical Distribution



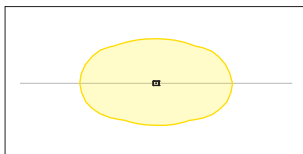
Polar Distribution

## ISOLUX

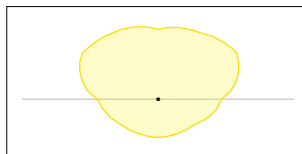
### T1 (Type 1)



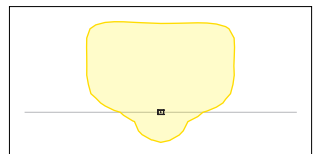
### T2 (Type 2)



### T3 (Type 3)



### T4 (Type 4)



## ORDERING EXAMPLE

**BLF - 240 - NWT - T3 - MP**

PRODUCT      TYPE      COLOUR TEMPERATURE      BEAM      SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMPERATURE	BEAM	SUPPLY OPTION
BLF Butch LED Floodlight	75 75W Version	CWT Cool White	T1 Type 1 Optical Distribution	MP Mains Powered
	150 150W Version	NWT Neutral White	T2 Type 2 Optical Distribution	
	240 240W Version	WWT Warm White	T3 Type 3 Optical Distribution	
		AMB Amber	T4 Type 4 Optical Distribution	





 **COOLON**

# CASSIDY

200W LED Flood Light

Cassidy Flood Light has been specifically designed to provide ease of installation with high flexibility in optics selection and mounting position.

It is engineered for a very long life using highly resistive to corrosion LM6 alloy body, SS316 mounting bracket and a Low Iron tempered glass diffuser in combination with superb LED Driver and top of the range LEDs to address the most demanding applications.

#### Designed for use in:

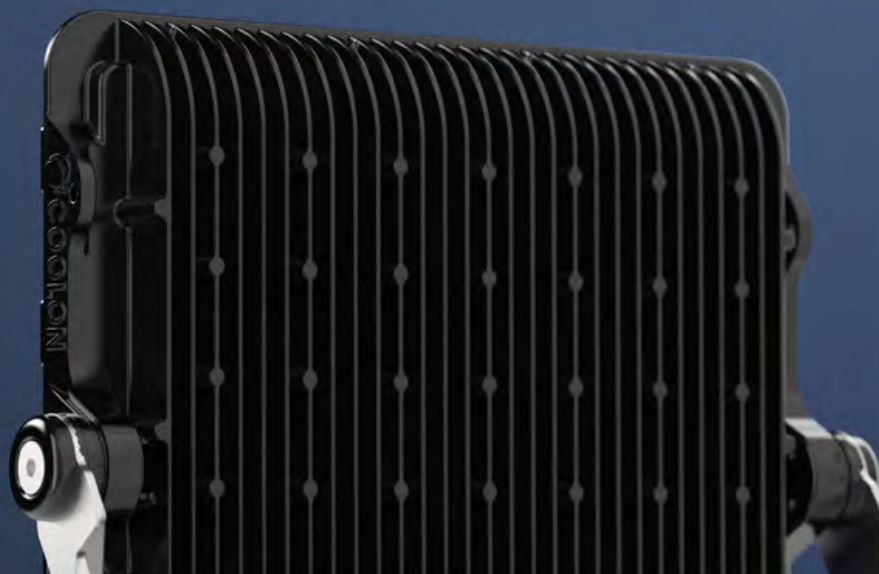
- Area Lighting
- Billboards
- Drag Lines
- Exterior Walls
- Flood Lighting
- Security Lighting
- Workshops



# Built to Last

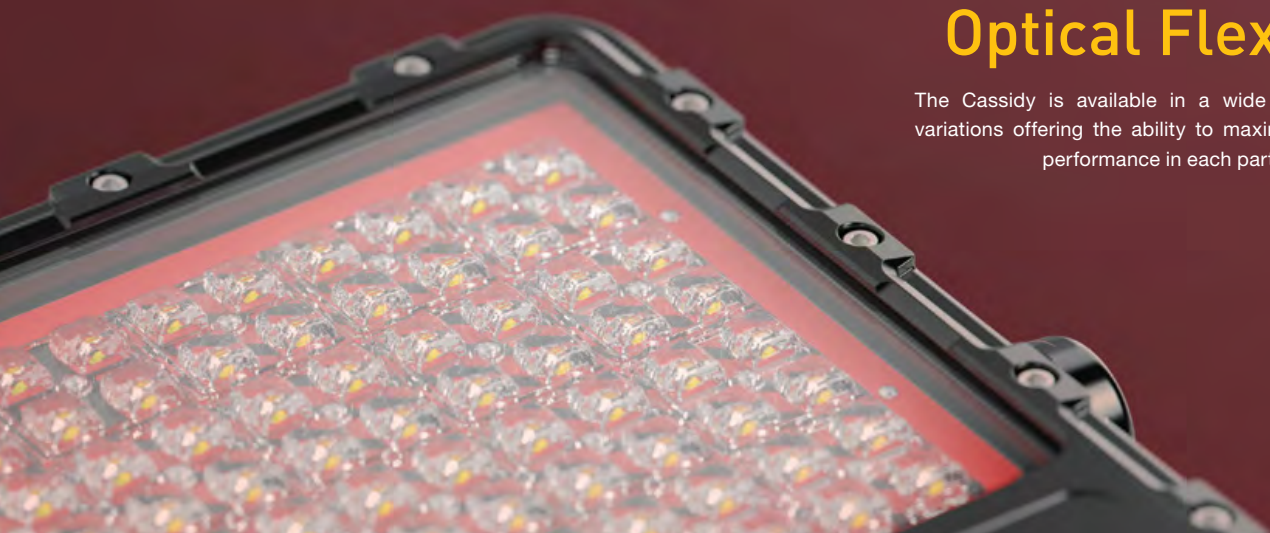
Unlike conventional LED floodlights, the Cassidy was designed to withstand rough surface conditions.

- Resistant to Vibration
- Impact & Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations



## Optical Flexibility

The Cassidy is available in a wide range of optical variations offering the ability to maximise the effective performance in each particular application.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.



### INDUSTRIAL GRADE FINISHINGS

A long-life luminaire deserves a long-life finish. We source the finest alloys and surface treatments to ensure the luminaire provides superior performance all year round in all weather conditions.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

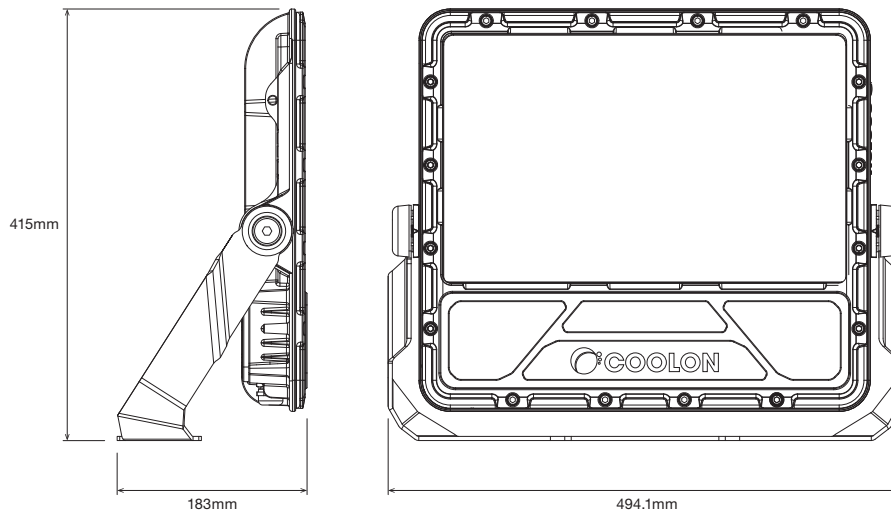
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



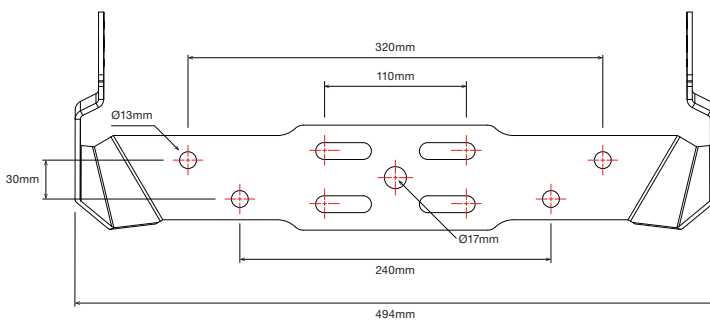
### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

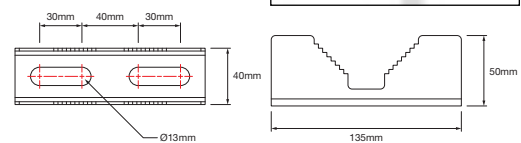


## MOUNTING BRACKET

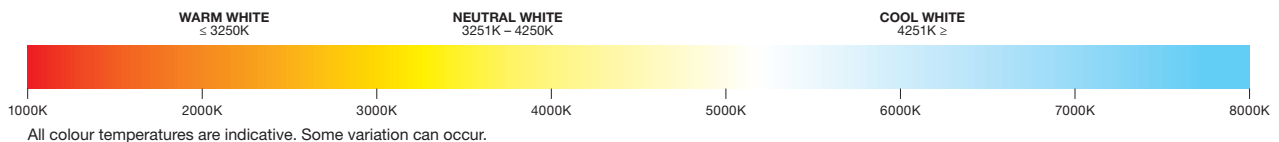


## ACCESSORIES

**Optional U-Bolt Pole Mounting Clamp Kit x 2**  
(available separately)  
refer to industrial accessories brochure.  
visit [coolon.com.au](http://coolon.com.au) to download now.



## COLOUR TEMPERATURES



## TECHNICAL SPECIFICATIONS

<b>Product</b>	Cassidy LED Flood Light
<b>Model</b>	CASS
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	19,121 – 21,816 lm
CCT	NWT / WWT
CRI	> 70
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	200W
Nominal Voltage	230VAC
Voltage Range	90 - 277 VAC / 127 - 250VDC
Frequency Range	50 / 60Hz
Power Factor	> 0.95
Leakage Current	<0.70mA @ 240VAC / 60Hz

<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK08
Salt Spray Tested	Yes
Operating Temp. Range	-20 to 50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	70,000 Hours to 70% Brightness
Material Composition (Body)	LM6 Aluminium Alloy
Material Composition (Optics)	PMMA
Material Composition (Terminal Cover)	PC 20% GF
Material Composition (Transparent Front)	Tempered Glass
Material Composition (Bracket)	Stainless Steel 316
Adjustment Angle	360° in 6° steps
Cable Entry Options	M20 Stainless steel cable gland
Cable Diameter	7 - 13mm

<b>Weight/Packaging</b>	
Luminaire Weight	12kg
Packaging Dimensions	580 x 500 x 160mm
Packaged Weight	15kg

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

<sup>2</sup> 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.

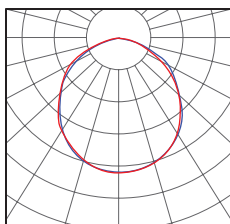


## ILLUMINANCE AT DISTANCE

### NOP - Extra Wide Beam

	CASS
2m	1,878
4m	469
6m	209
8m	117
10m	75
20m	19
30m	8

E<sub>c</sub> at Centre (Lux)

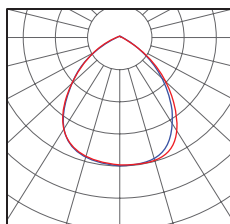


Polar Distribution

### WIDE - Wide Beam

	CASS
2m	2,604
4m	651
6m	289
8m	163
10m	104
20m	26
30m	12

E<sub>c</sub> at Centre (Lux)

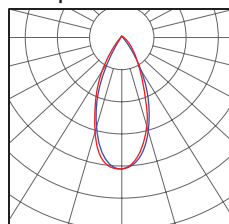


Polar Distribution

### MEDIUM - Beam Optics 60°

	CASS
2m	8,606
4m	2,152
6m	956
8m	538
10m	344
20m	86
30m	38

E<sub>c</sub> at Centre (Lux)

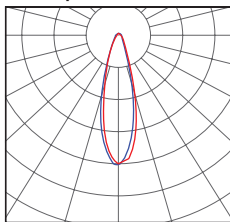


Polar Distribution

### NARROW - Beam Optics 30°

	CASS
2m	13,562
4m	3,391
6m	1,507
8m	848
10m	542
20m	136
30m	60

E<sub>c</sub> at Centre (Lux)

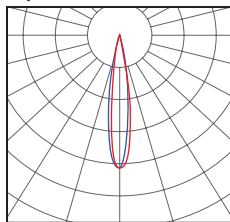


Polar Distribution

### SPOT - Beam Optics 15°

	CASS
2m	40,185
4m	10,046
6m	4,465
8m	2,512
10m	1,607
20m	402
30m	179

E<sub>c</sub> at Centre (Lux)

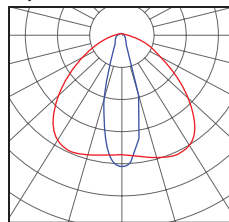


Polar Distribution

### OVAL - Beam Optics 30° x 100°

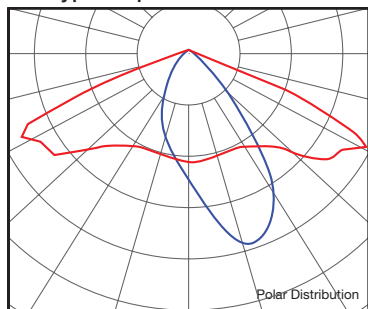
	CASS
2m	4,689
4m	1,172
6m	521
8m	293
10m	188
20m	47
30m	21

E<sub>c</sub> at Centre (Lux)



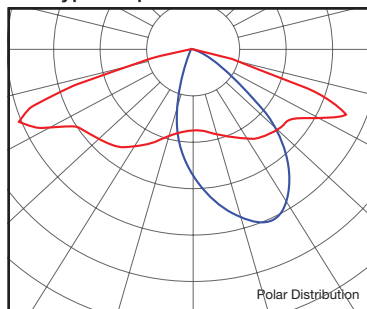
Polar Distribution

### T1 - Type 1 Optical Distribution



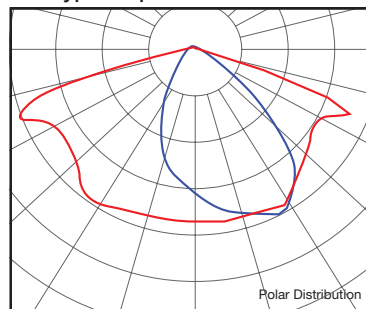
Polar Distribution

### T2 - Type 2 Optical Distribution



Polar Distribution

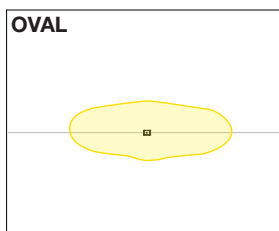
### T3 - Type 3 Optical Distribution



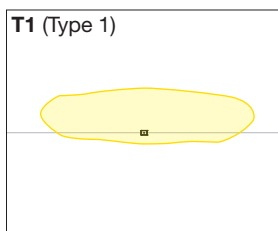
Polar Distribution

## ISOLUX

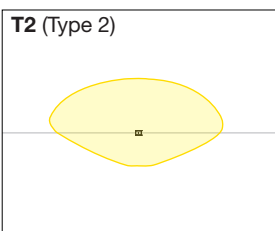
### OVAL



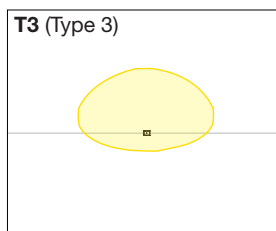
### T1 (Type 1)



### T2 (Type 2)



### T3 (Type 3)



## ORDERING EXAMPLE

### CASS - NWT - NARROW - MP

PRODUCT COLOUR TEMPERATURE OPTICS SUPPLY OPTION

PRODUCT	COLOUR TEMPERATURE		OPTICS		SUPPLY	
CASS	NWT	Neutral White	NOP	Extra Wide Optics	MP	Mains Powered
	WWT	Warm White	WIDE	Wide Optics		
			MEDIUM	Medium Optics		
			NARROW	Narrow Optics		
			SPOT	Spot Optics		
			OVAL	Oval Optics		
			T1	Type 1 Optics		
			T2	Type 2 Optics		
			T3	Type 3 Optics		



# BULKHEAD / EM BULKHEAD

35W Bulkhead Light

The most versatile, high-performing, and easy to install bulkhead light that can retrofit the hole patterns of most common bulkheads.

The Bulkhead has been carefully engineered as a direct result of feedback from maintenance crews around Australia to achieve ease of install combined with a robust and virtually indestructible luminaire.

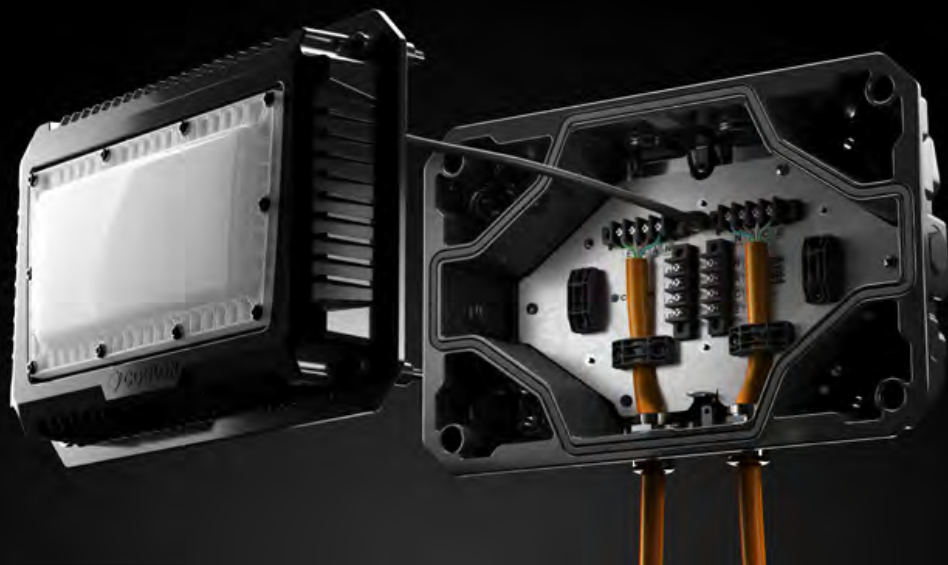
## Designed for use in:

- CHPP
- Conveyors
- Exit Routes
- Platforms
- Walkways
- Stairwells
- Substation
- Tunnels



# Designed with the installer in mind

Multiple entry points, easily-accessible terminal block, and removable body. All these aspects make installation a breeze. "Straight off, straight on!"



## Universal mount design

Designed with a universal mount to retrofit the hole patterns of most common bulkhead lights on the market, the Coolon Bulkhead is easy and quick to install.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

IP66

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

L70

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

3  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

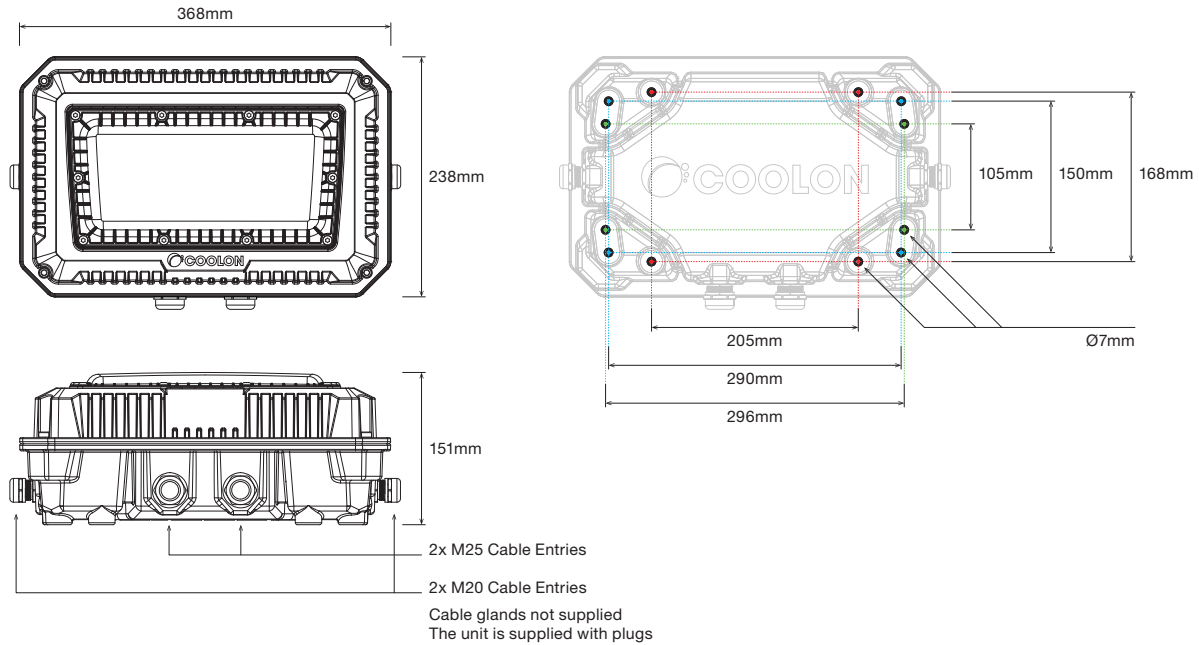


### PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

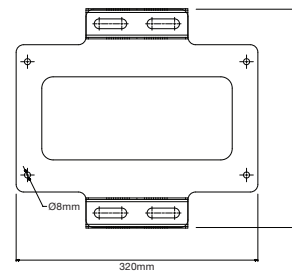
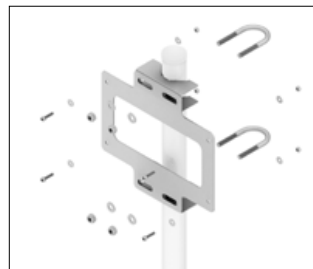


## DIMENSIONS



## ACCESSORIES

**Optional Bulkhead Pole Mounting Bracket**  
(available separately) refer to industrial accessories brochure. visit [coolon.com.au](http://coolon.com.au) to download now.



## TECHNICAL SPECIFICATIONS

Product	Bulkhead Industrial LED	
Model	BH	EMBH
Optical Characteristics		
Luminous Flux (Photometered)	4,236 lm	3,160 lm (MP Mode)
CCT	CWT / WWT / AMB	
CRI	>70 excluding amber	
Electrical Characteristics (Luminaire)		
Power Consumption	35W	42W
Nominal Voltage	230VAC	230VAC
Voltage Range	180 – 440VAC 254 – 550VDC	90 – 277VAC 127 – 350VDC
Frequency Range	47 – 63Hz	47 – 63Hz
Power Factor	≥0.98 / 230VAC	≥0.95 / 230VAC
Leakage Current	<0.75mA / 480VAC	<0.75mA / 277VAC
Environmental		
IP Rating	IP66	
Impact Rating	IK09	
Salt Spray Tested	Yes	
Operating Temp. Range	-20 to +50°C	0 to +50°C
Thermal Management Type	Active/Continuous	
Expected Lifespan	50,000 Hours to 70% Brightness	
Material Composition (Body)	ADC12 Aluminium Alloy	
Material Composition (Cover)	Polycarbonate	
Cable Entry Options	2x M20 + 2x M25	

### Weight/Packaging

Luminaire Weight	5.6kg	6.8kg
Packaging Dimensions	L 400mm x W 280mm x D 180mm	
Packaged Weight	6.1kg	7.3kg

### Compliance (Safety Standards)

AS/NZS60598.1	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 measurement of radio disturbance characteristics of electrical lighting and similar equipment
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### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

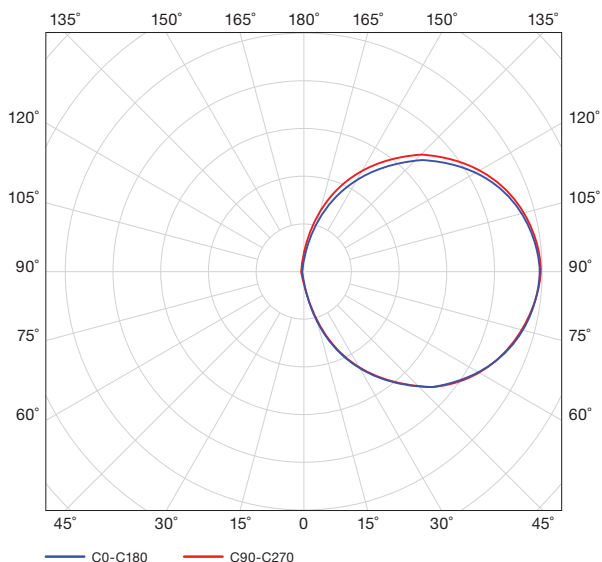
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## OPTICAL DISTRIBUTION



## EMERGENCY BH (EMBH)

The EMBH utilises a solid state integral emergency module. The emergency power is provided by safe LiFePO<sub>4</sub> cells with a host of intelligent management circuitry. The EMBH performs constant operational readiness tests, ensuring reliable emergency lighting will be available when needed. The onboard processor will notify the user should the unit ever need attention allowing operators to better utilise their time.

With a balance between performance, intelligence and reliability, the EMBH is the ultimate industrial integral EM luminaire.



## ORDERING EXAMPLE

**BH - CWT - SY1 - MP**

PRODUCT COLOUR TEMP OPTICS SUPPLY OPTION

PRODUCT		COLOUR TEMP		OPTICS		SUPPLY OPTION	
BH	Bulkhead	CWT	Cool White	SY1	Symmetrical / Diffuser	MP	Mains Powered
EMBH	Emergency Bulkhead	WWT	Warm White				
		AMB	Amber				

## CUSTOM UNITS ORDERING EXAMPLE

**CST - BH - CWT - SY1 - MP - WMG**

PRODUCT COLOUR TEMP OPTICS SUPPLY OPTION ACCESSORY

PRODUCT		COLOUR TEMP		OPTICS		SUPPLY OPTION		ACCESSORY	
CST-BH	Custom Bulkhead	CWT	Cool White	SY1	Symmetrical / Diffuser	MP	Mains Powered	WMG	Stainless Steel Wire Mesh Guard
		WWT	Warm White						
		AMB	Amber						



**CST - BH - CWT - SY1 - MP - SHIELD**

PRODUCT COLOUR TEMP OPTICS SUPPLY OPTION ACCESSORY

PRODUCT		COLOUR TEMP		OPTICS		SUPPLY OPTION		ACCESSORY	
CST-BH	Custom Bulkhead	CWT	Cool White	SY1	Symmetrical / Diffuser	MP	Mains Powered	SHIELD	Stainless Steel Light Shield
		WWT	Warm White						
		AMB	Amber						





For a video demonstration, please scan the QR Code or visit <http://goo.gl/EX2TzS>

 **COOLON**

# DLK

**62W LED Conveyor/Area Light**

The most energy efficient way of illuminating industrial conveyors and walkways.

DLK is designed to provide the most energy efficient way of illuminating industrial conveyors and walkways, capable of delivering the required minimum of 40 lux with an average of 80 lux, when spaced as far as 12m apart with a typical installation height of 2.7m and a 5 degree tilt. The typical power consumption of less than 62W converts into a mere 5W per linear meter of conveyor line (White LEDs version). Raising the bar of performance and efficiency for industrial conveyor and walkway lighting.

The robust unibody design is both lightweight and versatile with flexibility to fit many industry standard spigot mount installations.

Optional in-built daylight sensor will perform automatic switching between day and night modes to substantially decrease power consumption.

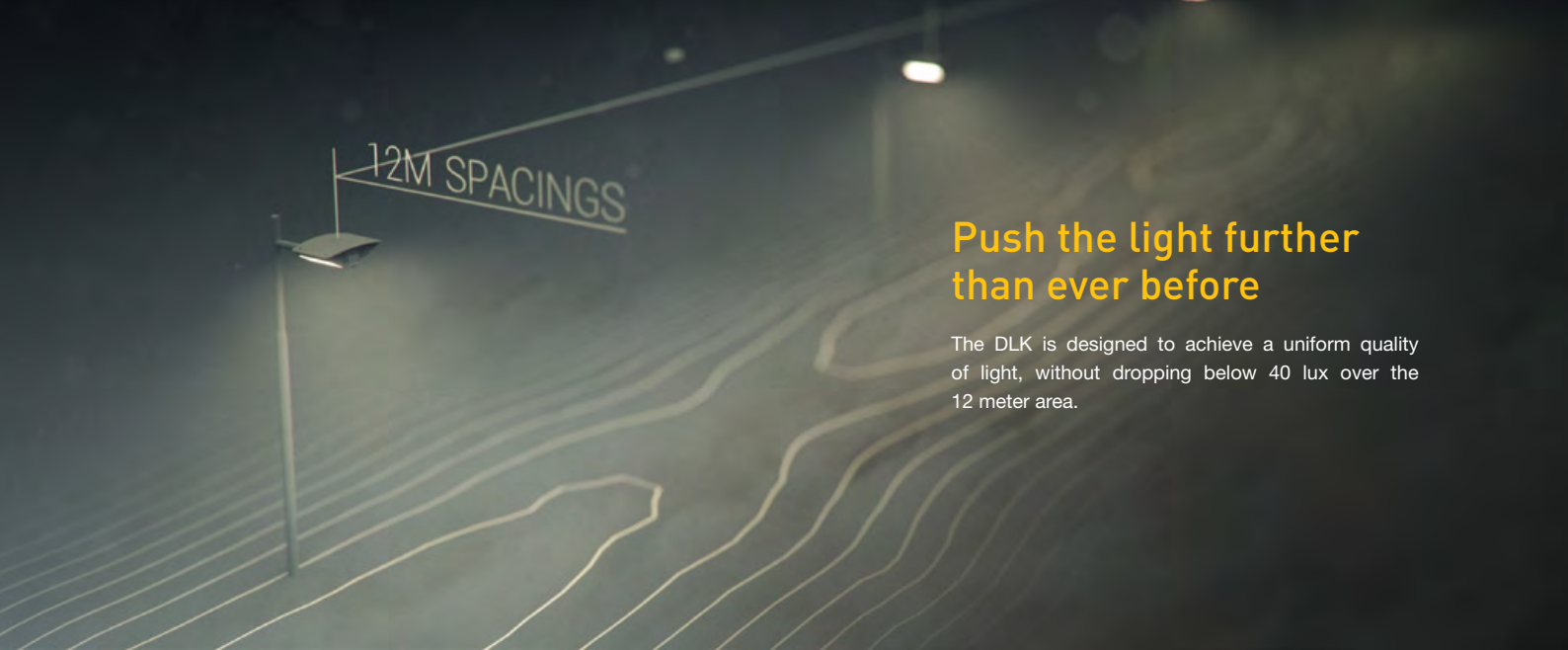
The DLK is also available in a Wildlife/Turtle Friendly Amber version.

#### Designed for use in:

- Bulkheads
- Campsite Area Lighting
- Car Parks
- Conveyors
- General Area Lighting
- Pedestrian Access Road Ways
- Stackers / Reclaimers
- Stairwells
- Tunnels
- Walkways







## Push the light further than ever before

The DLK is designed to achieve a uniform quality of light, without dropping below 40 lux over the 12 meter area.

## Solid body design

Unlike conventional conveyor lights DLK was designed to withstand constant abuse.

- Resistant to Vibration
- Impact/Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

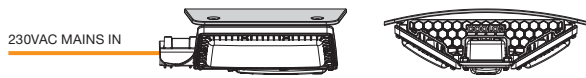


### PROUDLY MADE IN AUSTRALIA

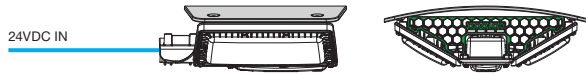
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## WIRING CONFIGURATION

### DLK Luminaire - MP Grey Hood and Guard



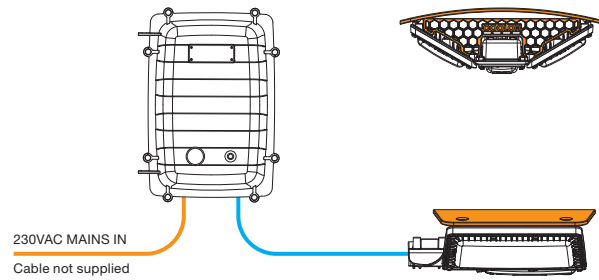
### DLK Luminaire - ELV Grey Hood, Green Guard



### DLK Luminaire - EM - KIT1

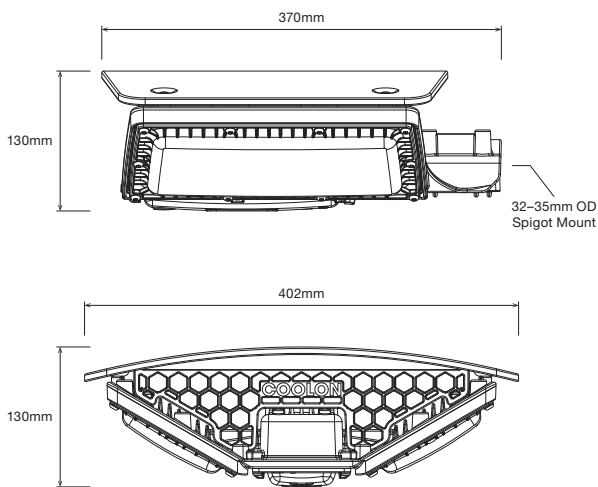
#### Emergency Power Pack EMP-724-036AL

#### DLK Luminaire - EML Orange Hood and Guard

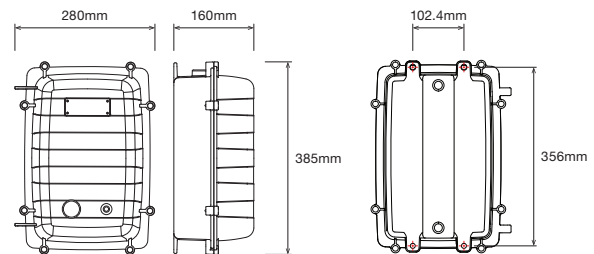


## DIMENSIONS

### DLK Luminaire

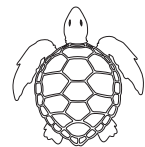


### Emergency Power Pack (where applicable)



## TURTLE FRIENDLY OPTION

The DLK is available in turtle friendly Amber. In many coastal areas white light may not be permitted for use, as it is believed to be disrupting breeding cycles of certain species of sea turtles. Coolon has specifically designed a variation of the DLK in 595nm (nanometers) Amber that is in the region of their lowest visual sensitivity.



## TECHNICAL SPECIFICATIONS

Product	DLK LED Conveyor / Area Light	
Model	DLK Mains Powered (MP)	DLK Low Voltage (ELV)
Optical Characteristics		
Luminous Flux (Photometered)	3,632 – 6,612 lm	3,632 – 6,612 lm
CCT	CWT / WWT / AMB / GRN	
CRI	>70 excluding amber	
Electrical Characteristics (Luminaire)		
Power Consumption	66W Typical	62W Typical
Nominal Voltage	230VAC	24VDC
Voltage Range	90 – 305VAC, 127 – 431VDC	23 – 27VDC
Cable Type	Orange Circular 2.5 mm² 3 Core	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	10 – 12mm	7.5mm
Cable Length	3m	3m
Frequency Range	47 – 63Hz	N/A
Power Factor	>0.95 / 230VAC	N/A
Leakage Current	<0.75mA / 277VAC	N/A

Environmental	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 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)
Material Composition (Optics)	PC LEV1700
Material Composition (Cover)	Polycarbonate
Mounting/Bracket Type	Spigot Mount OD 32 – 35mm

### Emergency Pack (Where fitted)

Charge Time	8 hours
Battery Type	LEAD CRYSTAL®
Discharge Time	Over 2 hours

### Weight/Packaging

Luminaire Weight	4.95kg with Hood
Packaging Dimensions (DLK)	460 x 440 x 180mm
Packaged Weight (DLK)	6.3kg (Standard)
Packaging Dimensions (EMP)	400 x 280 x 180mm
Packaged Weight (EMP)	10.75kg

### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

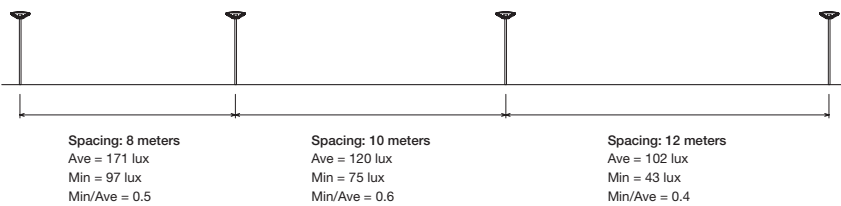
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

## SPACINGS

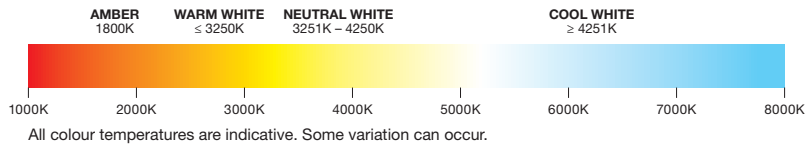
### CWT-BW1 Optics Model

Mounting Height: 2.7m  
Spigot Length: 0.2m  
Maintenance Factor: 0.7  
Walkway Width: 1m

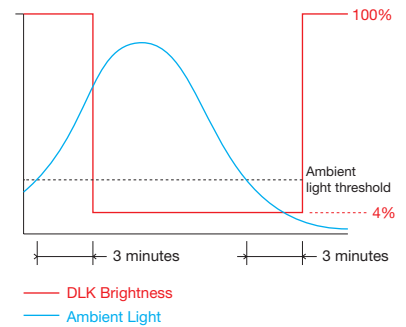
\*Drawing not to scale



## COLOUR TEMPERATURES

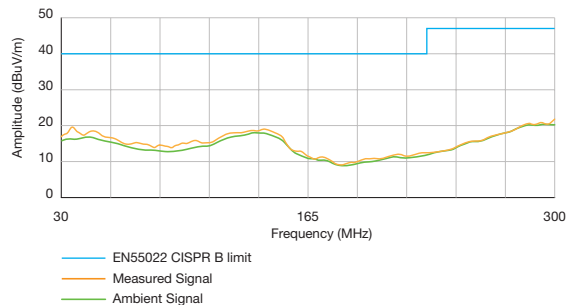


## LIGHT SENSOR DIMMING

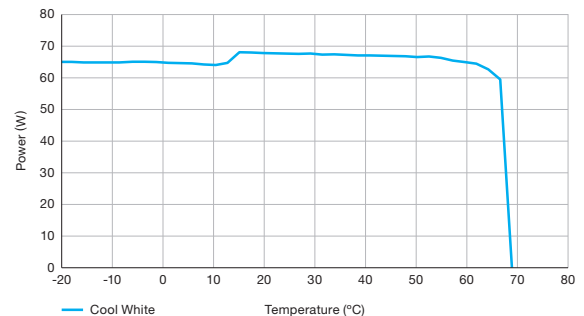


The DLK LED will be at 100% brightness when it is turned on and then will dim to 4% brightness when daylight is detected. 3 minutes after the daylight has dropped below the minimum ambient light threshold, the DLK LED will ramp up to 100% brightness. (Only applies to DLK equipped with light sensor)

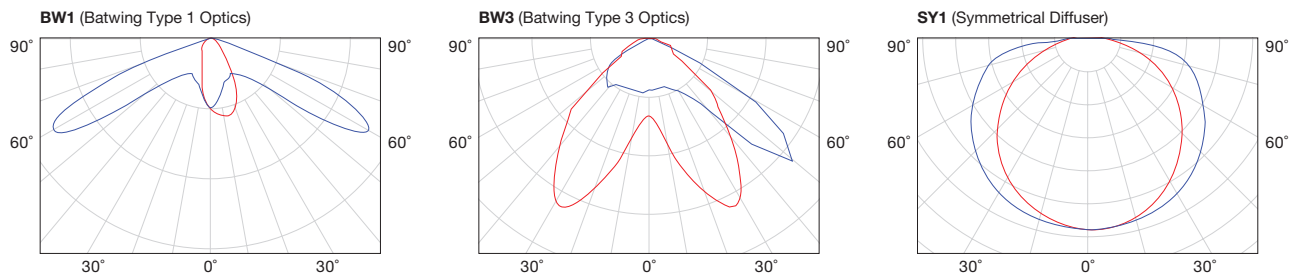
## MINIMAL RADIATED EMI



## AMBIENT TEMPERATURE VS POWER



## POLAR DISTRIBUTION



## ORDERING EXAMPLE

**DLK - NLS - CWT - BW3 - MP<sup>1</sup>**

PRODUCT      TYPE      COLOUR TEMP      OPTICS      SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	SUPPLY OPTION
DLK	NLS	CWT	BW1	MP
	WLS	WWT	BW3	ELV
		AMB	SY1	EML
		GRN		EM-KIT1
				EM-KIT2

<sup>1</sup> If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied

If SUPPLY OPTION "EM" is specified without kit specification, KIT1 will be supplied

## DLK-EM KIT OPTIONS

KIT	UNIT SUPPLIED	DESCRIPTION
KIT1	DLK - *** - *** - EML	DLK Luminaire for Emergency Pack
	EMP-724-036AL	Emergency Pack Aluminium Enclosure
KIT2	DLK - *** - *** - EML	DLK Luminaire for Emergency Pack
	EMP-724-093SS	Emergency Pack Stainless Steel Enclosure





 **COOLON**

# DLK2

62W LED Conveyor/Area Light

The most energy efficient way of illuminating industrial conveyors and walkways.

DLK2 is designed to provide the most energy efficient way of illuminating industrial conveyors and walkways, capable of delivering the required minimum of 40 lux with an average of >100 lux, when spaced as far as 12m apart with a typical installation height of 2.7m and a 5 degree tilt. The typical power consumption of less than 62W converts into a mere 5W per linear meter of conveyor line (White LEDs version), raising the bar of performance and efficiency for industrial conveyor and walkway lighting.

The robust unibody design is both lightweight and versatile with flexibility to fit many industry standard spigot mount installations. The DLK2 is also available in a Wildlife / Turtle Friendly Amber version and Dark Sky compliant version.

#### Designed for use in:

- Campsite Area Lighting
- Car Parks
- Conveyors
- General Area Lighting
- Pedestrian Access Road Ways
- Stacker / Reclaimers
- Stairwells
- Tunnels
- Walkways





## Lowest cost of installation

The DLK2 is so easy to install it can be done in minutes, without the need of any specialized tools. Simply open the hatch, connect the cable, tighten the gland, close the hatch.

The DLK2 is made to cut costs; even before it is ever switched on.

## Dark Sky Compliance

Lighting pollution is a negative of today's technology, disturbing nocturnal animals, affecting human circadian rhythms and severely impacting astronomy observatories.

The DLK2 is available in Dark Sky compliant configuration that features a specifically designed hood in a bid to reduce light pollution.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

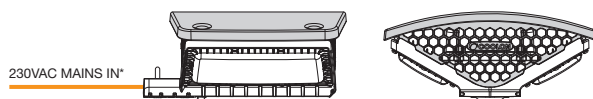


### PROUDLY MADE IN AUSTRALIA

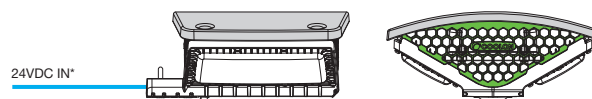
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## WIRING CONFIGURATION

### DLK2 / EMDLK2 Luminaire - MP Grey Grill

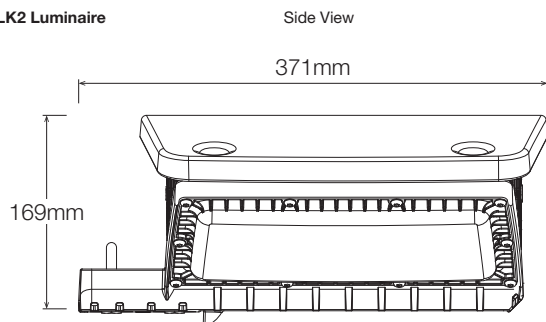


### DLK2 Luminaire - ELV Green Grill

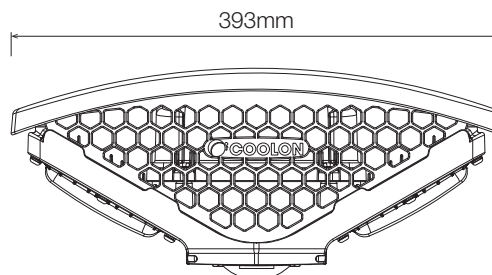


## DIMENSIONS

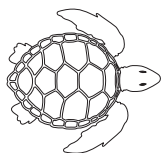
### DLK2 Luminaire



### Front View



## TURTLE FRIENDLY OPTION



The DLK2 is available in turtle friendly Amber. In many coastal areas white light may not be permitted for use, as it is believed to be disrupting breeding cycles of certain species of sea turtles.

Coolon has specifically designed a variation of the DLK2 in 595nm (nanometers) Amber that is in the region of their lowest visual sensitivity.

## TECHNICAL SPECIFICATIONS

Product	DLK2 LED Conveyor / Area Light	
Model	DLK2 Mains Powered (MP)	DLK2 Low Voltage (ELV)
Optical Characteristics		
Luminous Flux (Photometered) *	3,020 – 5,000 lm	3,632 – 6,612 lm
CCT	CWT / WWT / AMB / GRN	CWT / WWT / AMB / GRN
CRI	>70 excluding amber and green	
Electrical Characteristics (Luminaire)		
Power Consumption	62W Typical	62W Typical
Nominal Voltage	230VAC	24VDC
Voltage Range	90 – 305VAC, 127 – 431VDC	23 – 27VDC
Frequency Range	47 – 63Hz	N/A
Power Factor	>0.95 / 230VAC	N/A
Leakage Current	<0.75mA / 277VAC	N/A
Environmental		
IP Rating	IP66	
Impact Rating	IK09	
Salt Spray Tested	Yes	
Operating Temp. Range	-10 to +50°C	-10 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)	
Material Composition (Optics)	Polycarbonate	
Material Composition (Cover)	Polycarbonate	
Mounting/Bracket Type	U-Bolt Spigot Mount OD 32 – 44 mm	
Cable Gland	M20 x 1.5 SS316	
Cable Ø Entry Range	7 – 13mm	

\* Optical and electrical characteristics are measured using Cool White LEDs (CWT)

\*\* UL / cUL listing only applies to MP version

<sup>2</sup> 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.

### Weight/Packaging

Luminaire Weight	5.9kg	5.9kg
Packaging Dimensions (DLK2)	460 x 440 x 180mm	
Packaged Weight	6.9kg	6.9kg

### Compliance (Safety Standards)

AS/NZS 60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires
UL 1598 and CSA C22.2 No. 250.0-08 **	Luminaires
UL 8750 **	Standard for Light Emitting Diode (LED) Equipment for use in Lighting Products
CSA C22.2 No. 250.13-14 **	Power Supplies with Extra-Low-Voltage Class 2 Outputs
AS/NZS 2293	Emergency escape 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
FCC Part 15 Subpart B	
Industry Canada ICES-005 **	Interference - Causing Equipment Standard, Issue 4 Lighting Equipment, Dec 2015
ANSI C63.4-2014 **	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz

### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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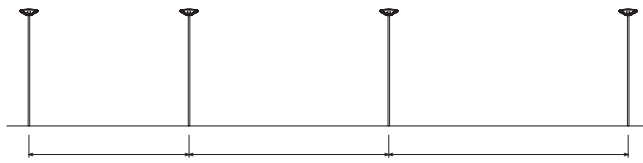
## SPACINGS

### Simulation Based on DLK2-60-CWT-BW1-MP

Mounting Height: 2.7m  
Maintenance Factor: 0.7

Spigot Length: 0.2m  
Walkway Width: 1m

\* Drawing not to scale

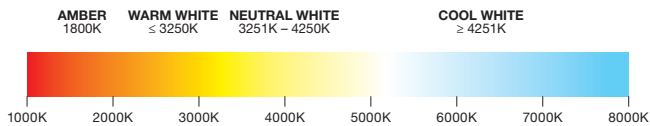


Spacing: 8 meters  
Ave = 171 lux  
Min = 97 lux  
Min/Ave = 0.5

Spacing: 10 meters  
Ave = 120 lux  
Min = 75 lux  
Min/Ave = 0.6

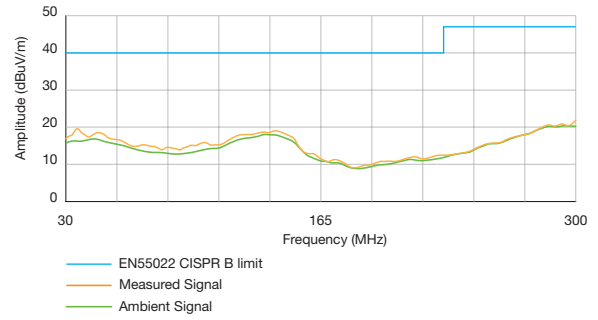
Spacing: 12 meters  
Ave = 102 lux  
Min = 43 lux  
Min/Ave = 0.4

## COLOUR TEMPERATURES

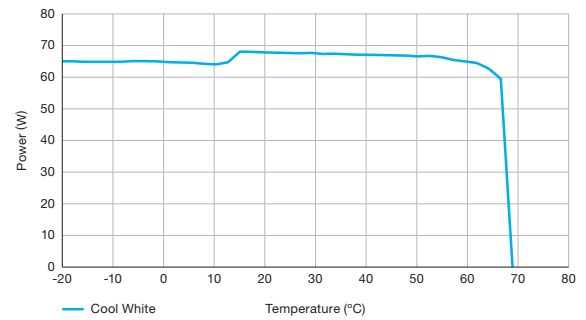


All colour temperatures are indicative. Some variation can occur.

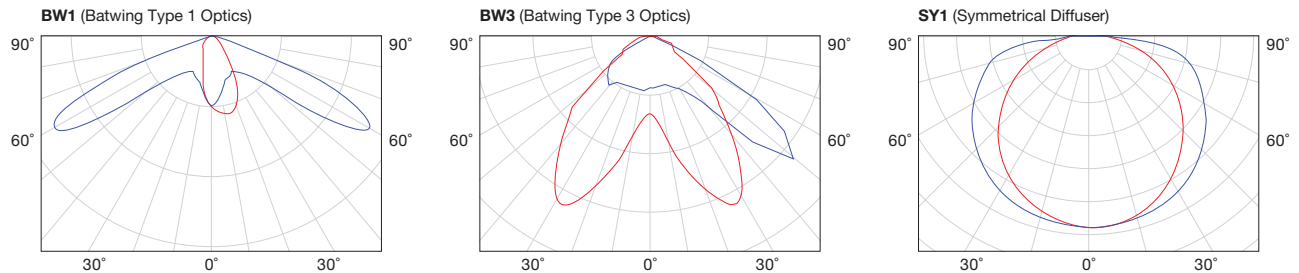
## MINIMAL RADIATED EMI



## AMBIENT TEMPERATURE VS POWER



## POLAR DISTRIBUTION



## DLK2 ORDERING EXAMPLE

**DLK2 - 60 - CWT - BW3 - MP<sup>1</sup>**

PRODUCT

TYPE

COLOUR TEMP

OPTICS

SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	SUPPLY OPTION	HOOD OPTION
DLK2	60	60W	CWT	Cool White	BW1
		WWT	Warm White	BW3	Batwing Type 1
		AMB	Amber	SY1	Symmetrical / Diffuser
		GRN	Green		
				MP	Mains Powered
				ELV	Extra Low Voltage Luminaire
				DS	Dark Sky Hood <sup>2</sup>

<sup>1</sup> If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied

<sup>2</sup> Dark Sky Hood (DS) only available for Warm White LEDs (WWT)



 **COOLON**

# TUNNEL RAY

**62W LED Conveyor/Area Light**

Robust build, remarkable efficiency and low glare light output, are the typical traits that make Tunnel Ray simply the ideal bulkhead luminaire.

Built on the backbone of the multi-award winning DLK, the Tunnel Ray is both lightweight and versatile with flexibility to fit many different applications.

The Tunnel Ray is designed to provide the most energy efficient way of delivering a level of luminance that far exceeds that of its comparable gas discharge lamp predecessors.

#### Designed for use in:

- Tunnels and corridors
- Enclosed Conveyor Belts
- Enclosed Conveyor Walkways
- Stairwells and platforms
- Confined Spaces
- Wall and Bulkhead lights
- Switching Rooms
- Enclosed carparks





## High quality light output

The Tunnel Ray is the perfect choice of luminaire for applications that require:

- Energy Efficiency
- Glare Free High Quality White Light
- High Colour Rendering Index
- No Stroboscopic Effect

## Robust, solid body design

Built on the backbone of the multi-award winning DLK, the Tunnel Ray uses the same, proven solid body technology that allows it to be compact, lightweight, robust and completely resistant to vibrations.

- Impact/Shock Proof
- Chemical Resistant
- High Pressure Washable
- Unaffected by Severe Temperature Variations



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3  
YEARS**

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

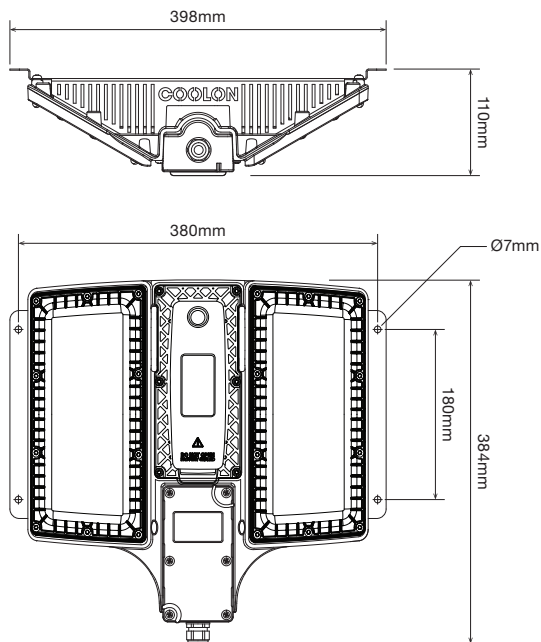


### PROUDLY MADE IN AUSTRALIA

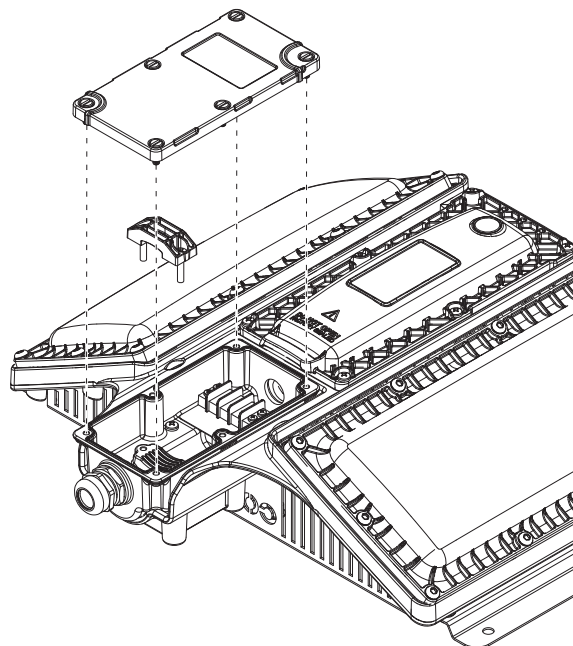
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.



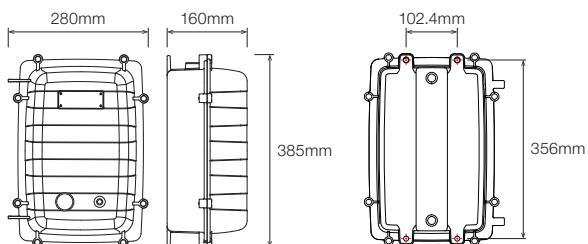
## DIMENSIONS



## EASY JUNCTION BOX ACCESS AND INSTALLATION



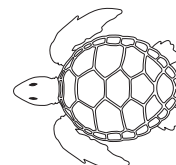
## EMERGENCY POWER PACK (WHERE APPLICABLE)



Tunnel Ray is versatile and can be backed with optional Coolon Emergency Pack. Emergency Tunnel Ray can be wired to be both maintained and non-maintained, eliminating the need for costly additional fittings. The Emergency Tunnel Ray will work for a minimum of 2 hours in case of power failure, far exceeding the requirements of Australian Standards.

For more detailed information on Coolon's Emergency Pack, and the range of Coolon's Emergency Backed LED luminaires, visit: [www.coolon.com.au](http://www.coolon.com.au)

## TURTLE FRIENDLY OPTION



Tunnel Ray is available in turtle friendly Amber. In many coastal areas white light may not be permitted for use, as it is believed to be disrupting breeding cycles of certain species of sea turtles. Coolon has specifically designed a variation of Tunnel Ray in 595nm (nanometers) Amber that is in the region of their lowest visual sensitivity.

## TECHNICAL SPECIFICATIONS

Product	Tunnel Ray LED Conveyor / Area Light		
Model	TNR (MP)	TNR (MP-WVR)	TNR (ELV)
Optical Characteristics			
Luminous Flux (Photometered)	3,632 – 6,612 lm		
CCT	CWT / WWT / AMB / GRN / RED		
Electrical Characteristics (Luminaire)			
Power Consumption	62W Typical	62W Typical	62W Typical
Nominal Voltage	230VAC	230VAC	24VDC
Voltage Range	90 – 277VAC, 127 – 350VDC	200 - 440VAC, 285 - 550VDC	23 – 27VDC
Frequency Range	47 – 63Hz	47 – 63Hz	N/A
Power Factor	>0.95 / 230VAC	>0.98 / 230VAC >0.97 / 277VAC >0.97 / 347VAC >0.93 / 480VAC	N/A
Leakage Current	<0.75mA / 277VAC	<0.75mA / 480VAC	N/A

Environmental	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 to +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Aluminium Alloy (Anodised and E-Coated)
Material Composition (Optics)	PC LEV1700
Material Composition (Bracket)	Stainless Steel 316

### Emergency Pack (Where fitted)

Charge Time	8 hours
Battery Type	LEAD CRYSTAL®
Discharge Time	Over 2 hours

### Weight/Packaging

Luminaire Weight	5.1kg with Hood
Bracket Weight	1.1kg SS Bracket
Packaging Dimensions (TNR)	460 x 440 x 180mm
Packaging Weight (TNR)	6.4kg (Standard)
Packaging Dimensions (EMP)	400 x 280 x 180mm
Packaging Weight (EMP)	10.75kg

### Warranty

Warranty	3 years warranty as standard. 5 years extended warranty optional.
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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

<sup>2</sup> 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.

## WIRING CONFIGURATION

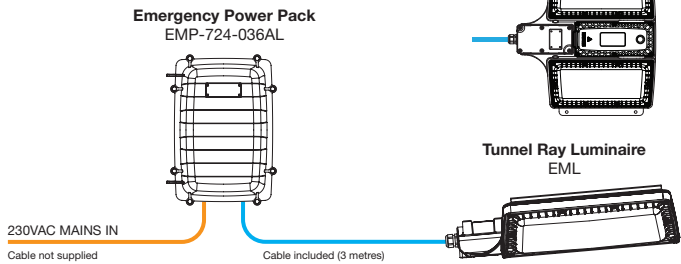
### Tunnel Ray Luminaire - MP



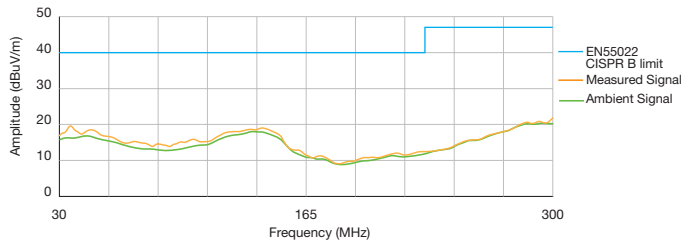
### Tunnel Ray Luminaire - ELV



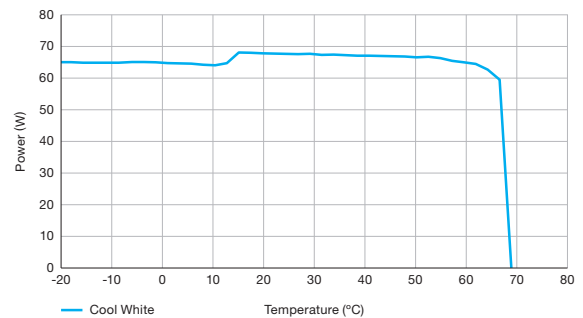
### TNR Luminaire - EM - KIT1



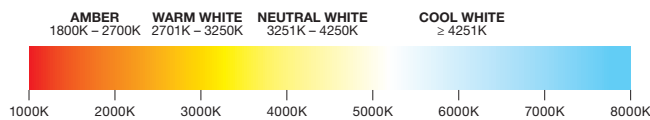
## MINIMAL RADIATED EMI



## AMBIENT TEMP VS POWER

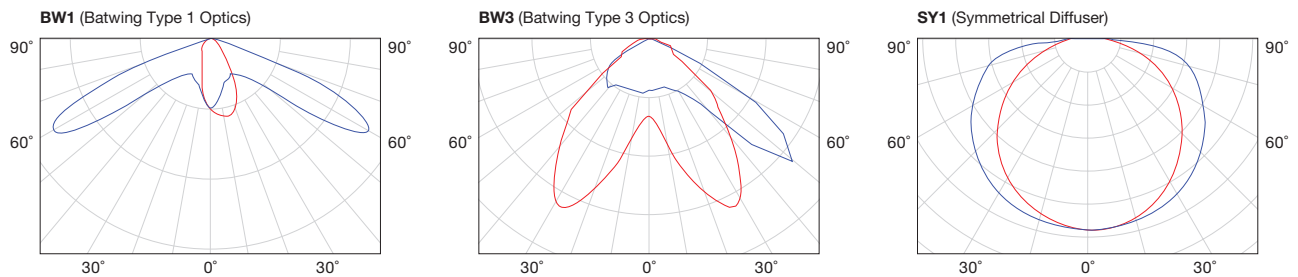


## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## POLAR DISTRIBUTION



## ORDERING EXAMPLE

**TNR - NLS - CWT - SY1 - MP<sup>1</sup>**

PRODUCT      TYPE      COLOUR TEMP      OPTICS      SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	SUPPLY OPTION
TNR	NLS	CWT	BW1	MP
	No Day Light Sensor	Cool White	Batwing Type 1	Mains Powered
		WWT	BW3	MP-WVR
		Warm White	Batwing Type 3	Wide Voltage Range
		AMB	SY1	ELV
		Amber	Symmetrical / Diffuser	Extra Low Voltage Luminaire
		GRN		EML
		Green		Luminaire for Emergency Pack
		RED		EM-KIT1
		Red		Kit with AL Emergency Pack
				EM-KIT2
				Kit with SS Emergency Pack

<sup>1</sup> If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied

If SUPPLY OPTION "EM" is specified without kit specification, KIT1 will be supplied

## TNR-EM KIT OPTIONS

KIT	UNIT SUPPLIED	DESCRIPTION
KIT1	TNR - *** - *** - *** - EML	TNR Luminaire for Emergency Pack
	EMP-724-036AL	Emergency Pack Aluminium Enclosure
KIT2	TNR - *** - *** - *** - EML	TNR Luminaire for Emergency Pack
	EMP-724-093SS	Emergency Pack Stainless Steel Enclosure



# EMDLK2/EMTNR2

60W LED Conveyor/Area Light

EMDLK2/EMTNR2 represents a substantial step forward in products specifically developed for Conveyor Lighting able to work in the most demanding conditions.

The EMDLK2/EMTNR2 utilises a solid state integral emergency module. The emergency power is provided by safe LiFePO<sub>4</sub> cells with a host of intelligent management circuitry. The EMDLK2/EMTNR2 performs constant operational readiness tests, ensuring reliable emergency lighting will be available when needed. The onboard processor will notify the user should the unit ever need attention allowing operators to better utilise their time.

With a balance between performance, intelligence and reliability, the EMDLK2/EMTNR2 is the ultimate industrial integral EM luminaire.

#### Designed for use in:

- Bulkheads
- Campsite Area Lighting
- Conveyors
- General Area Lighting
- Pedestrian Access Road Ways
- Stacker / Reclaimers
- Stairwells
- Tunnels
- Walkways





## Built-in smart charger & batteries all in one light

Coolon's new range of emergency lights are built around latest technology, ultra-safe, high power density batteries. Controlled by Coolon's own purpose developed smart controller that constantly monitors charge levels and ensures operational readiness in the toughest mining environment.



## Time saving reporting

Shorten inspection times using Coolon's smart phone app. The EMDLK2 / EMTNR2 internal intelligent charger system wirelessly keeps track and is able to provide reports on:

- Power outages experienced by the battery
- Charge rates
- Charge capacity
- Battery health



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3  
YEARS**

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

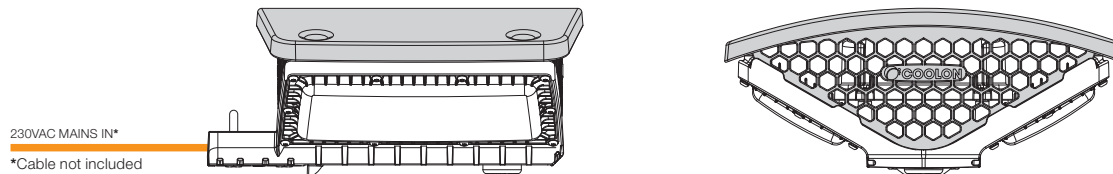


### PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

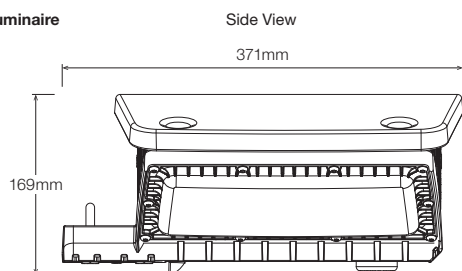
## WIRING CONFIGURATION

### EMDLK2 / EMTNR2 Luminaire - MP

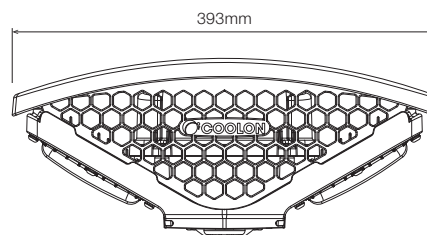


## DIMENSIONS

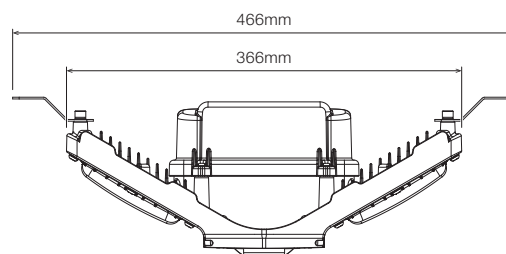
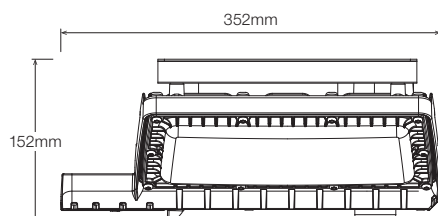
### EMDLK2 Luminaire



### Front View



### EMTNR2 Luminaire



## TECHNICAL SPECIFICATIONS

<b>Product</b>	Emergency LED Conveyor / Area Light
<b>Model</b>	EMDLK2 / EMTNR2

### Optical Characteristics

Luminous Flux (Photometered)	4,436 – 5,509 lm (MP mode)
CCT	CWT / WWT / GRN
CRI	>70 excluding Green

### Electrical Characteristics (Luminaire)

Power Consumption	62W MP Mode
Nominal Voltage	230VAC
Voltage Range	200 – 277VAC
Frequency Range	47 – 63Hz
Power Factor	>0.95 / 230VAC
Leakage Current	<0.75mA / 277VAC
Charge Time	16 hours
Battery Type	LiFePO <sub>4</sub>
EM Discharge Time	120 minutes initial / 90 minutes in service

### Environmental

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)
Material Composition (Optics)	Polycarbonate
Material Composition (Cover)	Polycarbonate
Mounting/Bracket Type	U-Bolt Spigot Mount OD 32 – 44 mm
Cable Gland	M20 x 1.5 SS316
Cable Ø Entry Range	7 – 13mm

### Weight/Packaging

Luminaire Weight	7kg
Packaging Dimensions	560 x 470 x 230mm
Packaged Weight	9.4kg

### Compliance (Safety Standards)

AS/NZS 60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires
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
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### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

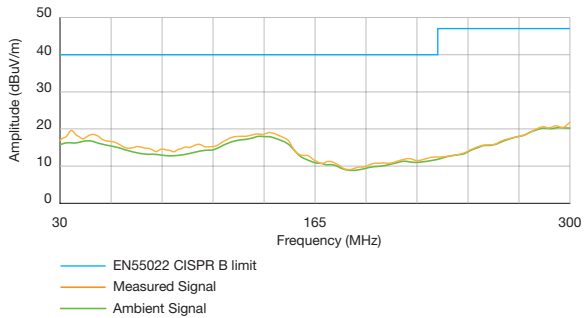
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

## COLOUR TEMPERATURES

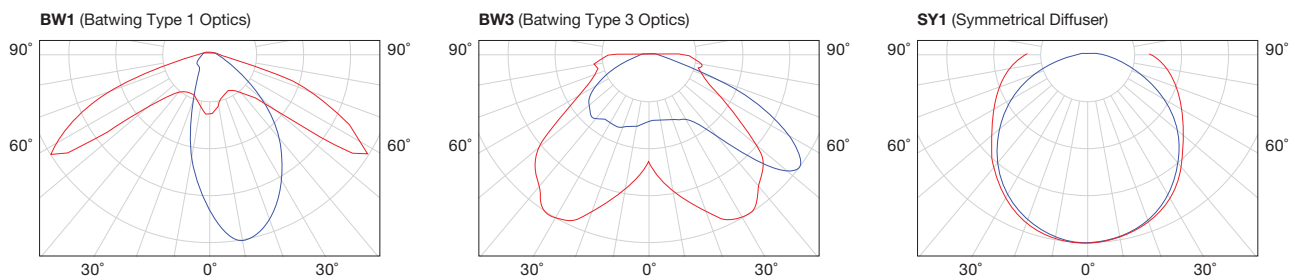


All colour temperatures are indicative. Some variation can occur.

## MINIMAL RADIATED EMI



## POLAR DISTRIBUTION



## EMDLK2 ORDERING EXAMPLE

**EMDLK2 - CWT - BW3 - MP**

PRODUCT

COLOUR TEMP

OPTICS

SUPPLY OPTION

PRODUCT	COLOUR TEMP		OPTICS		SUPPLY OPTION	
EMDLK2	CWT	Cool White	BW1	Batwing Type 1	MP	Mains Powered
EMTNR2	WWT	Warm White	BW3	Batwing Type 3		
	GRN	Green	SY1	Symmetrical / Diffuser		





 **COOLON**

# MACHINE LIGHT

25W Local Area Lighting

The Machine Light is a robust and efficient LED alternative to most compact industrial light sources.

Designed for use in confined spaces with harsh environmental conditions. Compact size, robustness and extreme resilience to abuse by environmental conditions make this an ideal luminaire for all industrial applications.

#### Designed for use in:

- Excavator Engine Bay
- Fluorescent Replacement
- Hydraulic Snake Pit
- Machine House Lighting
- Machine Operator Cabin
- Switch Board Lighting



## Compact Light Source

Measuring at only 86mm wide, 480mm long and 38mm deep, the Machine Light is perhaps the most compact and versatile luminaire for many challenging industrial lighting applications.

## Robust & Virtually Indestructible

Machine LED is made out of two part powder coated aluminium die casting. This solid construction ensures easy installation and maximum rigidity for all demanding applications.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.



### QUALITY WHITE LIGHT W/ HIGH CRI

This luminaire emits light with a spectrum closely resembling that of a natural daylight with relatively high colour rendering index (typical CRI of between 75 – 80), enabling excellent colour differentiation.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

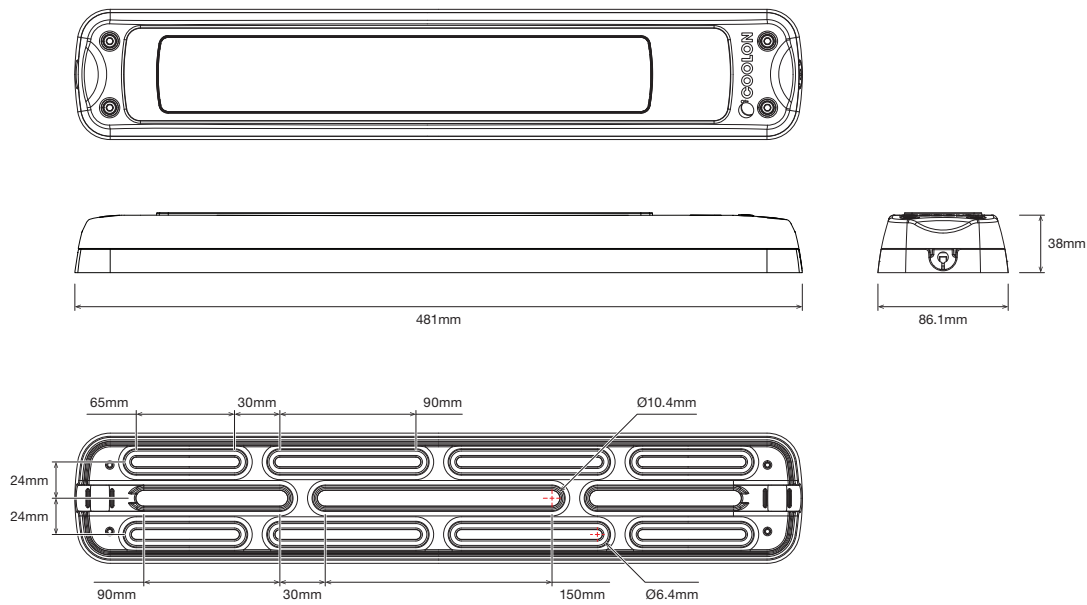


### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

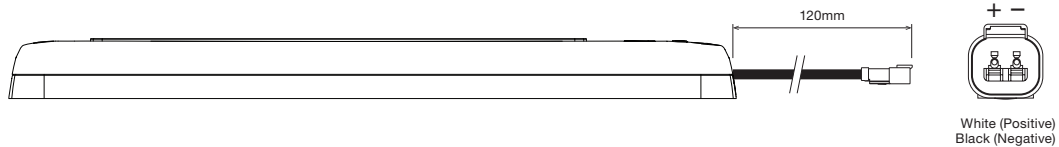
## DIMENSIONS

### Machine Light



## CONFIGURATION

### ELV Extra Low Voltage



## TECHNICAL SPECIFICATIONS

Product	Machine Light Local Area Lighting	
Model	MC22-XXX-24	MC22-XXX-12
Optical Characteristics		
Luminous Flux (Photometered)	3,325 lm	3,005 lm
Luminous Flux (LED Lumens)	3,716 lm	3,219 lm
CCT	NWT / WWT / AMB	
CRI	80+	
Electrical Characteristics (Luminaire)		
Power Consumption	25W @ 24VDC	19.5W @ 12VDC
Nominal Voltage	24VDC	12VDC
Voltage Range	23 – 27VDC	12 – 16VDC
Cable Type	UL2464, 16 AWG x 2C Braid PVC, UV Resistant	
Cable Diameter	7.5mm	
Cable Length	120mm	

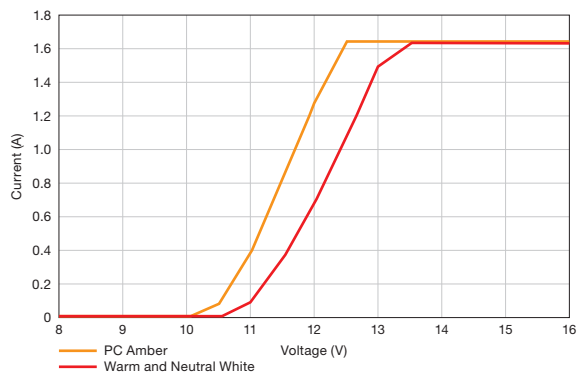
<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 to +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	LM6 Aluminum Alloy
Material Composition (Optics)	Protective Polycarbonate Clear Cover sealed using PU Resin
<b>Weight/Packaging</b>	
Luminaire Dimensions	481 x 86.1 x 38mm
Luminaire Weight	1.4kg
Packaging Dimensions	500 x 90 x 50mm
Packaged Weight	1.6kg

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional



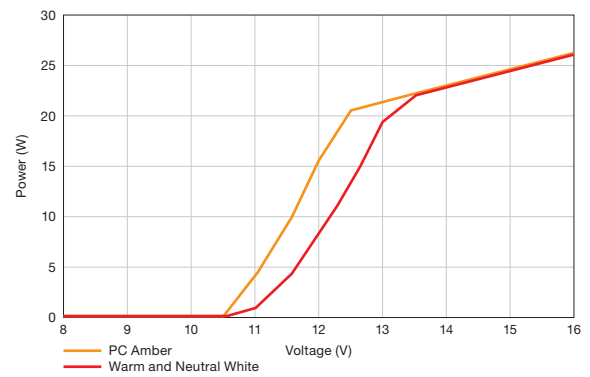
## CURRENT VS VOLTAGE

Machine Light 12V

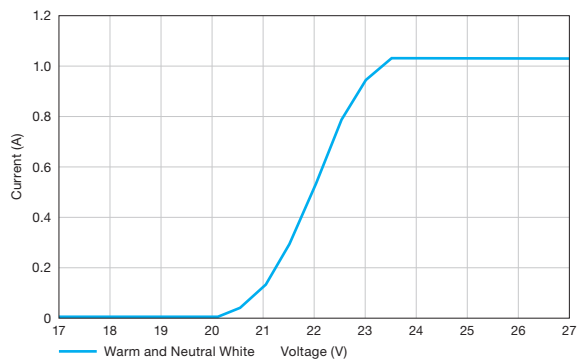


## POWER VS VOLTAGE

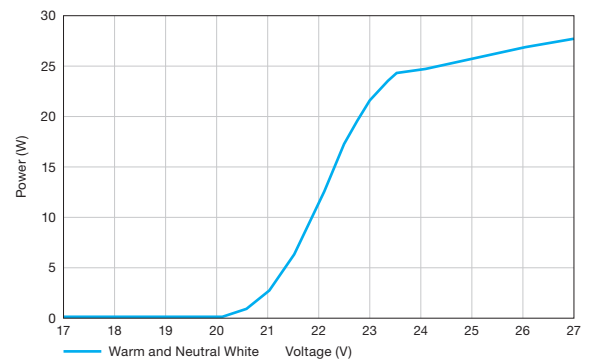
Machine Light 12V



Machine Light 24V

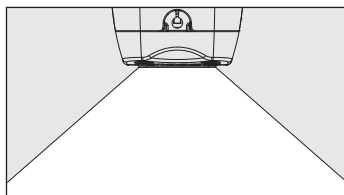


Machine Light 24V



## ILLUMINANCE AT DISTANCE

MC22 Machine Light



	MC22
2m	324
4m	81
6m	36
8m	20
10m	13

$E_c$  at Centre (Lux)

## ORDERING EXAMPLE

**MC22 - NWT - 12**

PRODUCT

COLOUR  
TEMPERATURE

SUPPLY OPTION

PRODUCT	COLOUR TEMPERATURE		SUPPLY OPTION	
MC22	NWT	Neutral White	12	12V Nominal
	WWT	Warm White	24	24V Nominal
	AMB <sup>1</sup>	PC Amber		

<sup>1</sup> PC Amber (AMB) only available in 12V Nominal (12)



 **COOLON**

# AC2

**20W LED Mining Lead Light**

Purpose built for operation in harsh underground environments.

Suitable for use as a reliable replacement of commonly used low voltage fluorescent lead lights.

A wide range of both AC and DC voltages combined with the robust and compact design make AC2 LED lights ideal for a variety of applications including underground mining and lighting of limited and confined spaces.

High IP and impact ratings of the AC2 LED, combined with the latest in low glare, remote phosphor LED lighting technology makes it the ideal candidate for most underground mining applications.

#### Designed for use in:

- Harsh Underground General Lighting
- General Area Lighting
- Workshop Lighting



**ELV SAFE**

#### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage power. It is substantially safer to work with than conventional mains powered light sources.

**Voltage Range:** 23 – 35 VAC, 22 – 48 VDC







## Reliability, where it counts

AC2 LED is a robust alternative to conventionally found fluorescent lead lights. High IP rating ensures that the fitting can survive in the harshest of the environments. Powered by Low Voltage AC and DC range, AC2 LED is easily adoptable for many underground applications.

## Robust and virtually indestructible

The outer materials are corrosion resistant with a low surface temperature offering easy handling and maximum rigidity for all demanding applications.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



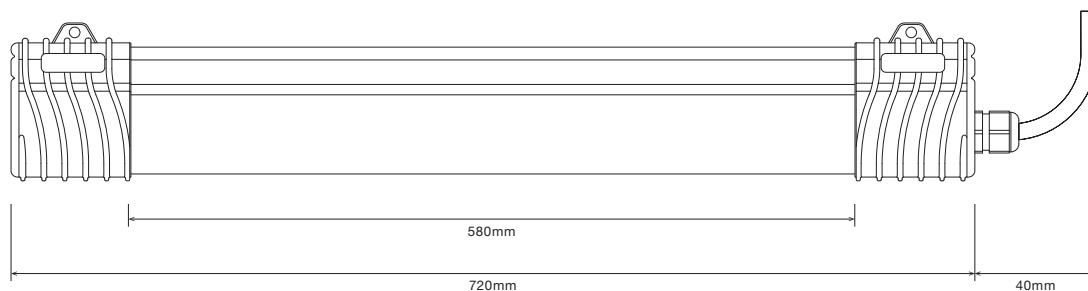
### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

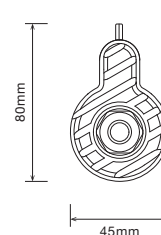


## DIMENSIONS & CONFIGURATIONS

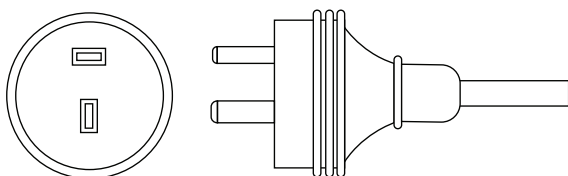
Front View



Side View



PLG32 - 492/32 VAC Plug



WR20S - 2 Core Cable Exposed

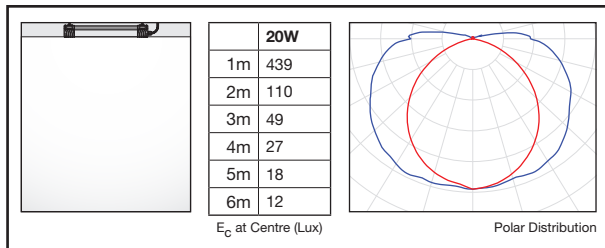


## TECHNICAL SPECIFICATIONS

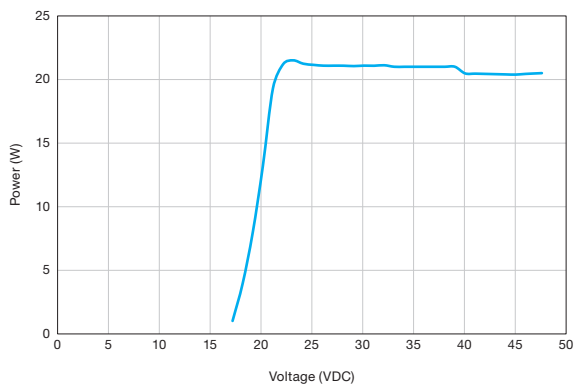
<b>Make/Model</b>	AC2 LED Mining Lead Light
Model	AC2
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	1,779 lm
CCT	NWT
CRI	>80
<b>Electrical Characteristics (Luminaire)</b>	
Power Consumption	20W
Nominal Voltage	24 VDC 30 VAC
Voltage Range	22 – 48 VDC 23 – 35 VAC 50Hz
Power Factor (AC supply)	0.5
Cable Diameter	7.5mm
Cable Length	3 Meters
<b>Environmental</b>	
IP Rating	IP66
Impact Rating	IK09
Operating Temp. Range	-20 to +45°C
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Polycarbonate
Material Composition (Diffuser)	Polycarbonate
<b>Weight/Packaging</b>	
Luminaire Weight	1.1kg
Packaging Dimension	1000 x 100 x 50mm
Packaging Weight	1.2kg
<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

<sup>1</sup> 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.

## ILLUMINANCE AT DISTANCE

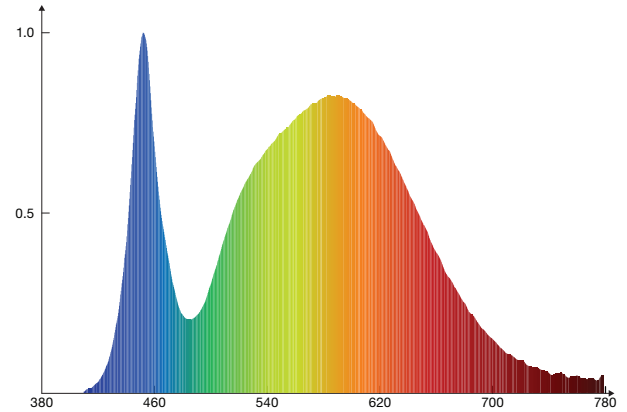


## SUPPLY VOLTAGE VS POWER <sup>1</sup>



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

## SPECTRAL DISTRIBUTION



CCT	4,047K
Colour Rendering Index	81.2
Efficacy	90.3lm / W
Power	20W
Luminous Flux (Spectrophotometry Result)	1,779lm

## ORDERING EXAMPLE

**AC2 - NWT - WR2OS**

PRODUCT COLOUR TEMP TERMINAL

PRODUCT	COLOUR TEMP	TERMINAL
AC2	NWT Neutral White	WR2OS 2 Core Cable Exposed
		PLG32 Fitted with 492/32 type Plug



# DC2-KIT2

20W LED Mining Lead Light

Set of portable work light LED luminaires, purpose built for operation in harsh environments.

Suitable for use as a reliable replacement of commonly used low voltage fluorescent lead lights.

An Extra Low Voltage (ELV) operation combined with the robust and compact design make DC2 LED lights ideal for a variety of applications including illumination of long underground mining tunnels and fast installation of temporary work lighting systems.

A cutting edge, extra low voltage safe, robust and quick connecting.

## Designed for use in:

- Harsh Underground General Lighting



**ELV SAFE**

## EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage power. It is substantially safer to work with than conventional mains powered light sources.

**Operates on 24VDC**







## Reliability, where it counts

DC2 LED is a robust alternative to conventionally found fluorescent lead lights. High IP rating ensures that the fitting can survive in the harshest of the environments. Powered by Low Voltage DC, DC2 LED is easily adoptable for many underground applications.



## Robust and virtually indestructible

The outer materials are corrosion resistant with a low surface temperature offering easy handling and maximum rigidity for all demanding applications.



## Quick connect, flexible lighting system

DC2 comes pre-wired out of the box and is ready for installation right away. Simply attach the light to the surface and plug in all the connectors together. No tools, no isolation and no qualified labour required. With DC2, the lighting system will be up and running in no time.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### NO FLICKERING

LED luminaires run on constant low voltage power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.

**L70**

### LONG USEFUL OPERATING LIFE

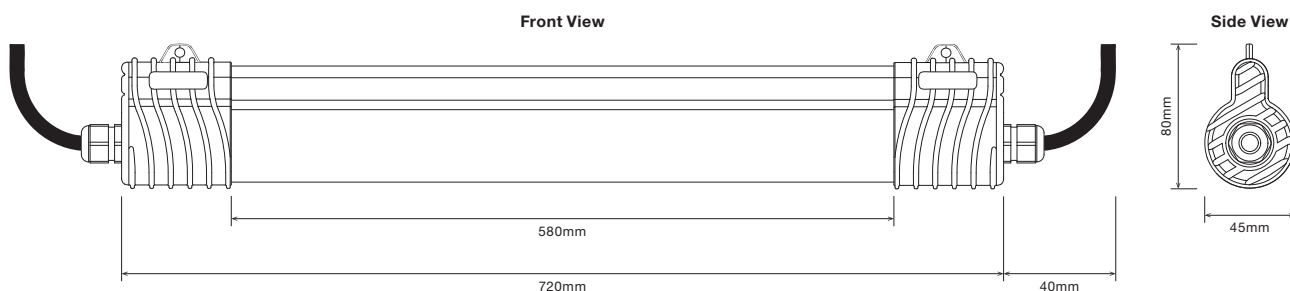
Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



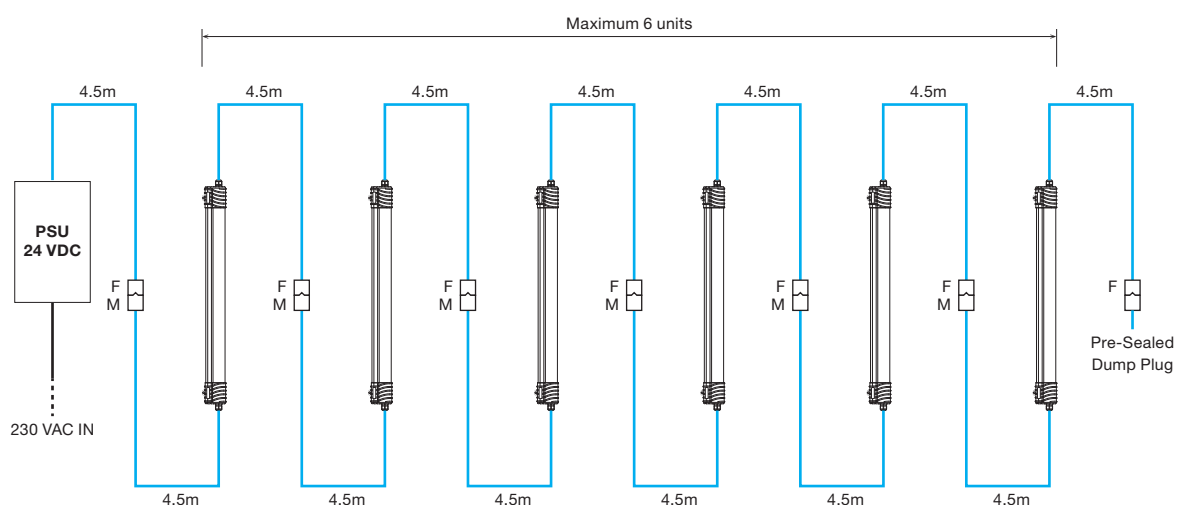
### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS



## WIRING DIAGRAM



## TECHNICAL SPECIFICATIONS

<b>Make/Model</b>	DC2 LED Mining Lead Light
Model	DC2 - KIT2

### Optical Characteristics

Luminous Flux (Photometered)	1,779 lm
CCT	NWT
CRI	>80

### Electrical Characteristics (Luminaire)

Power Consumption	20W
Nominal Voltage	24VDC
Voltage Range	22 – 48VDC
Cable Diameter	7.5mm
Cable Length	4.5m (each end)

### Environmental

IP Rating	IP66
Impact Rating	IK09
Operating Temp. Range	-20 to +45°C
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Polycarbonate
Material Composition (Diffuser)	Polycarbonate

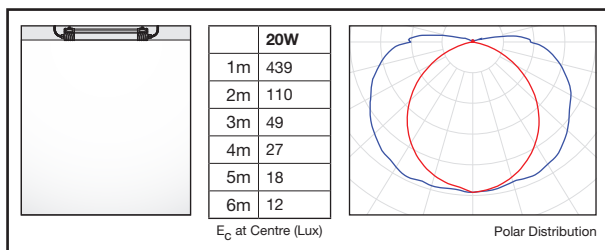
### Weight/Packaging (per Luminaire)

Luminaire Weight	2kg
Packaging Dimension	850 x 130 x 90mm
Packaging Weight	2.4kg

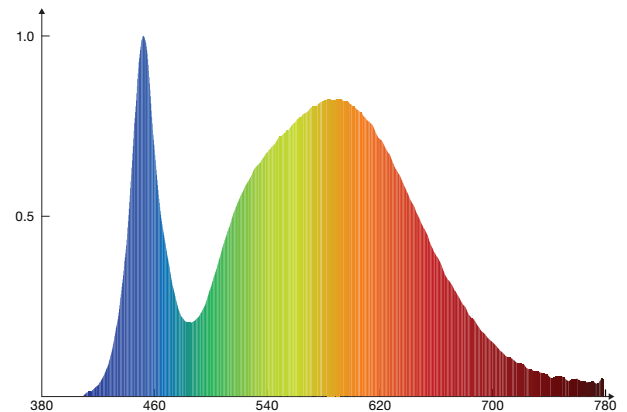
### Warranty

Warranty	3 years warranty as standard 5 years extended warranty optional
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## ILLUMINANCE AT DISTANCE



## SPECTRAL DISTRIBUTION



CCT	4,047K
Colour Rendering Index	81.2
Efficacy	90.3lm / W
Power	20W
Luminous Flux (Spectrophotometry Result)	1,779lm

## ORDERING EXAMPLE

**DC2 - 20 - NWT - 24 - LQCBS - 4.5 - KIT2**

PRODUCT	TYPE	COLOUR TEMPERATURE	SUPPLY SYSTEM	CONNECTOR LOOM	CABLE LENGTH	COMBO TYPE
---------	------	--------------------	---------------	----------------	--------------	------------

PRODUCT	TYPE	COLOUR TEMPERATURE	SUPPLY SYSTEM	CONNECTOR LOOM	CABLE LENGTH	COMBO TYPE
DC2 2ft LED Mining Lead Light	20 20W	NWT Neutral White	24 24VDC	LQCBS Quick-Connect Type Cable Looms on Both Sides	4.5 4.5m on Each Side	KIT2 See Kit Items for inclusions

## DC2 KIT ITEMS

KIT	UNIT SUPPLIED	DESCRIPTION
KIT2	6 x DC2-20-NWT-24-LQCBS-4.5	2ft LED Mining Lead Light, 20W, Neutral White, 24VDC, Quick-Connect Type Cable Looms on Both Sides, 4.5m cable lengths on each side
	1 x PWR-CLN-240-24-LQC-093SS	Coolon Industrial Power Supply 240W, 24VDC in 093 Stainless Steel Enclosure
	1 x ACC-LQC-DMPS	Accessory Cable Loom with Quick Connect Type Plug on one side (Male) and Pre-sealed Dump Plug on the other
	1 x ACC-LQC-F	Accessory Cable Loom with Quick Connect Type Plug on one side (Female)
	12 x TBM6HES3	Chain Rigging Hook and Eye Turnbuckle SS316
	12 x Carabin50-SS316	Carabin50 SS316





 **COOLON**

# DC4

**40W LED Mining Lead Light**

Portable work light LED luminaire, purpose built for operation in harsh environments.

Suitable for use as a reliable replacement of commonly used low voltage fluorescent lead lights.

An Extra Low Voltage (ELV) operation combined with the robust and compact design make the DC4 LED lights ideal for a variety of applications including illumination of long underground mining tunnels and fast installation of temporary work lighting systems.

A cutting edge, extra low voltage safe, robust and quick connecting.

#### Designed for use in:

- Harsh Underground General Lighting
- General Area Lighting
- Workshop Lighting



**ELV SAFE**

#### EXTRA LOW VOLTAGE OPERATION

Our products operate on extra low voltage power. It is substantially safer to work with than conventional mains powered light sources.





## Reliability, where it counts

DC4 LED is a robust alternative to conventionally found fluorescent lead lights. High IP rating ensures that the fitting can survive in the harshest of the environments. Powered by Low Voltage DC, DC4 LED is easily adoptable for many underground applications.

## Quick connect, flexible lighting system

DC4 comes pre-wired out of the box and is ready for installation right away. Simply attach the light to the surface and plug the connectors together. No tools, no isolation and no qualified labour required. With DC4, the lighting system will be up and going in no time.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3  
YEARS**

### 3 YEARS FACTORY WARRANTY

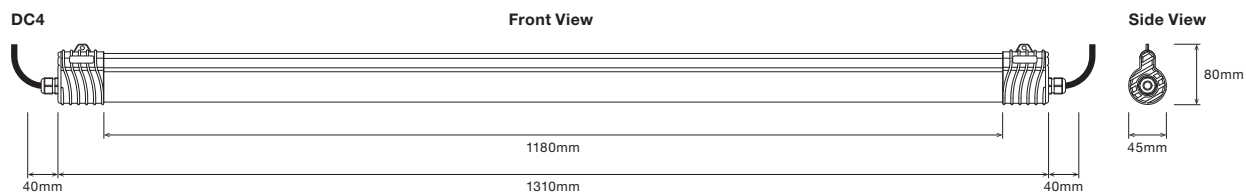
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



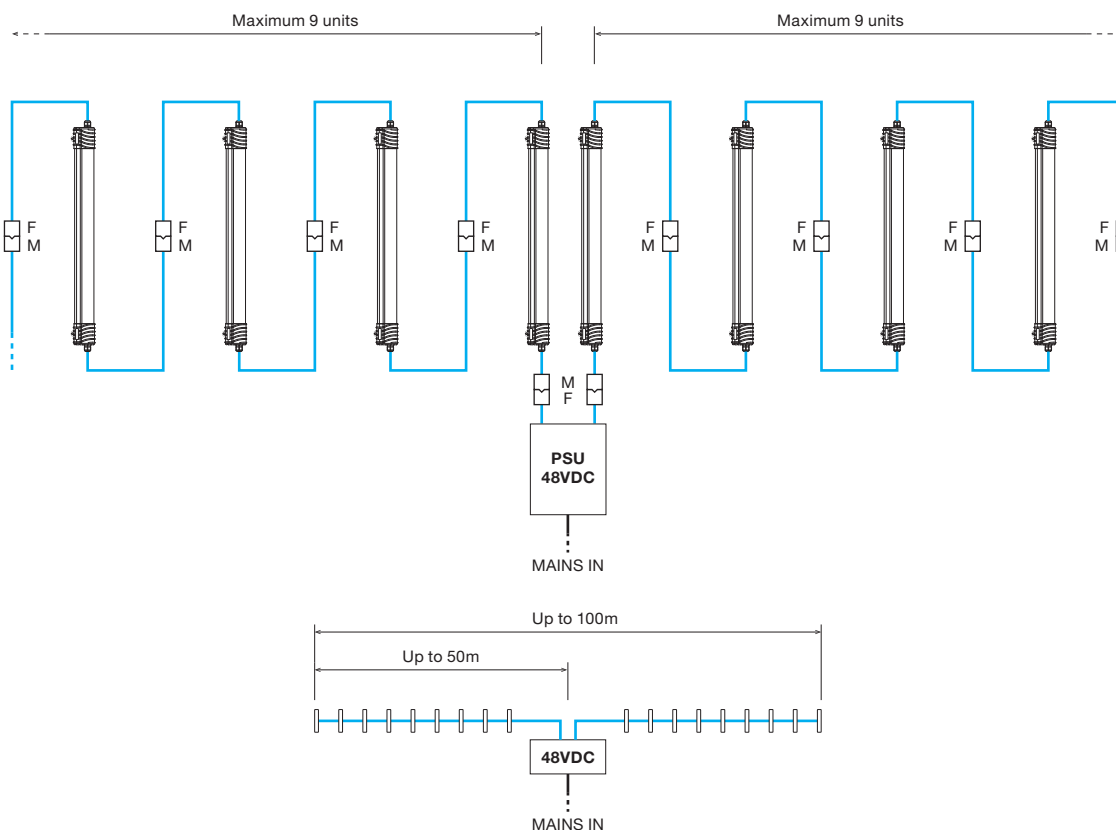
### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS



## WIRING



\* Power supply dependent on load requirements

## TECHNICAL SPECIFICATIONS

### Make/Model

Model DC4

### Optical Characteristics

Luminous Flux (Photometered) 3709lm

CCT Cool White 5100 – 5500K

CRI >80

### Electrical Characteristics (Luminaire)

Power Consumption 41.5W Typical

Nominal Voltage 48VDC

Cable Diameter 7.5mm

Cable Length 2.5 metres (each end)

### Environmental

IP Rating IP66

Impact Rating IK09

Operating Temp. Range -20 to +45°C

Expected Lifespan 50,000 Hours to 70% Brightness

Material Composition (Body) Polycarbonate

Material Composition (Diffuser) Polycarbonate

### Weight/Packaging

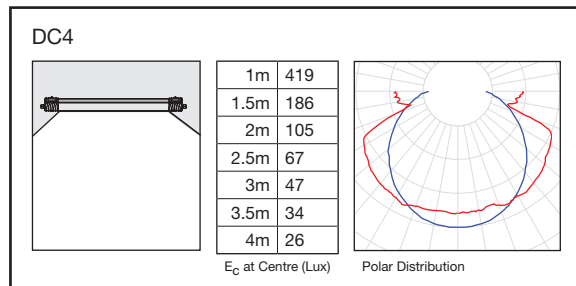
Luminaire Weight 2.0kg

### Warranty

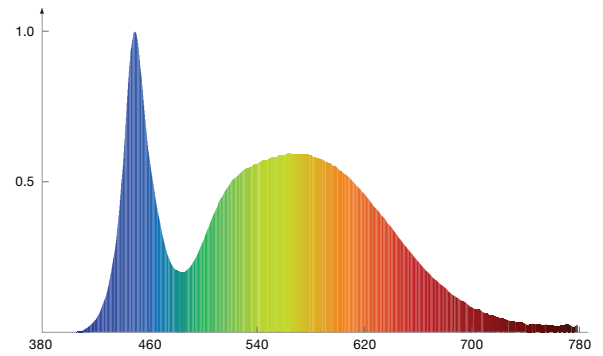
Warranty 3 years warranty as standard



## POLAR DISTRIBUTION



## SPECTRAL DISTRIBUTION



### DC4

CCT	5200K
Rendering Index	80.9
Flux	3709lm
Efficacy	90.2lm/w

## ORDERING EXAMPLE

**DC4 - 40 - CWT - 48 - LQC2BS - 2M5**

TYPE	COLOUR TEMPERATURE	SUPPLY SYSTEM	CONNECTOR LOOM	CABLE LENGTH
------	--------------------	---------------	----------------	--------------

PRODUCT	COLOUR TEMPERATURE	SUPPLY SYSTEM	CONNECTOR LOOM	CABLE LENGTH
DC4-40 40W 4ft LED Mining Lead Light	CWT Cool White	48 48VDC Nominal	LQC2BS Quick-Connect Type Cable Looms on Both Sides	2M5 2.5m on Each Side



# LOW BAY

LED Fluorescent Replacement

The Low Bay Industrial LED Luminaire is a long-life, powerful, and energy efficient alternative to fluorescent and metal halide low bay light fixtures.

Designed for use in factories, warehouses, mines and other industrial environments, this luminaire is produced in an easy-to-install, simple, compact and robust format that doesn't require special wiring or ballast.

Designed with energy savings in mind, the luminaire also provides natural white light and high colour rendering - all the traits necessary for good visibility. With no warm up time needed, facility managers can be assured of the comfort and safety of their personnel wherever these luminaires may be used.

#### Designed for use in:

- Drift Tunnels
- Industrial Tunnels
- Low Bay
- Troffer Replacement
- Workshops





## Simple fluorescent replacement

The Low Bay LED is designed specifically to easily substitute single- and double-tube fluorescent low bay fittings.

### Robust and virtually indestructible

The Low Bay LED consists of a single anodized aluminium extrusion. This solid construction ensures maximum rigidity for all demanding applications. It is designed for use in factories, warehouses, mines and other industrial environments.



#### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



#### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



#### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.



#### QUALITY WHITE LIGHT W/ HIGH CRI

This luminaire emits light with a spectrum closely resembling that of a natural daylight with relatively high colour rendering index (typical CRI of between 75 – 80), enabling excellent colour differentiation.



#### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.

**IP66**

#### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.

**3**  
YEARS

#### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



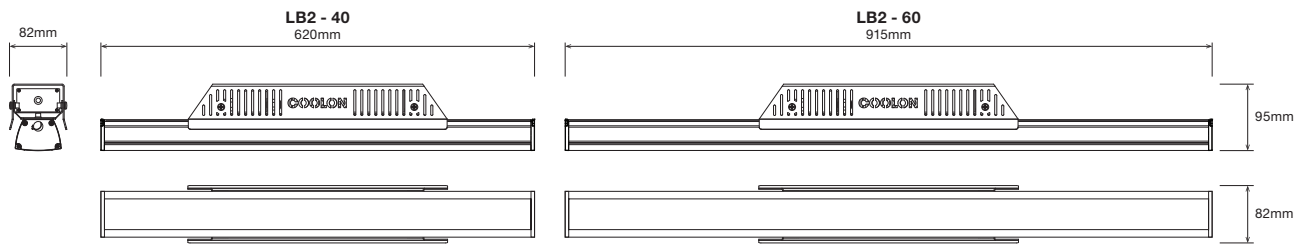
#### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

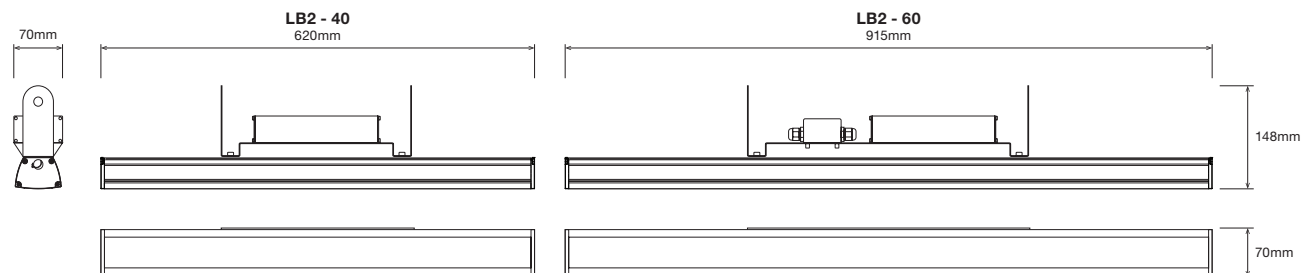


## DIMENSIONS

### LB2 Low Bay Luminaire with Stainless Steel Hood



### LB2 Low Bay Luminaire with Suspended Bracket



## TECHNICAL SPECIFICATIONS

### Product

Model	LB2-40	LB2-60
-------	--------	--------

### Optical Characteristics

Luminous Flux (Photometered)	2628 lm	3830 lm
CCT	4850K	
CRI	80+	

### Electrical Characteristics (Luminaire)

Power Consumption	43W	65W
Voltage Range	90 – 295VAC / 127 – 417VDC	
Frequency Range	47 – 63Hz	
Power Factor	>0.95	
Leakage Current	<0.75mA / 277VAC	
Withstand Voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC	
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH	
EMC Emission	Compliance to EN55015, EN61000-3-2 Class C (≥ 60% load) ; EN61000-3-3	
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A	

### Environmental

IP Rating	IP66
Operating Temp. Range	-20 – +50°C
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Aluminum Alloy (Marine Grade Black Anodized)
Material Composition (Optics)	Protective Polycarbonate Clear Cover
Material Composition (Bracket)	Stainless Steel / Powder Coated Steel
Mounting/Bracket Type	Hood / Suspended

### Weight/Packaging

	LB2-40	LB2-60
Luminaire Weight	3kg	3.4kg
Packaging Dimensions	700 x 190 x 190mm	1000 x 190 x 190mm
Packaging Weight	3.5kg	4.0kg

### Warranty

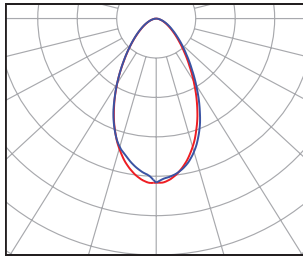
Warranty	3 years warranty as standard. 5 years extended warranty optional.
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## ILLUMINANCE AT DISTANCE

### LB2 - 40

1.5m	500
2m	288
2.5m	193
3m	136
3.5m	103
4m	80

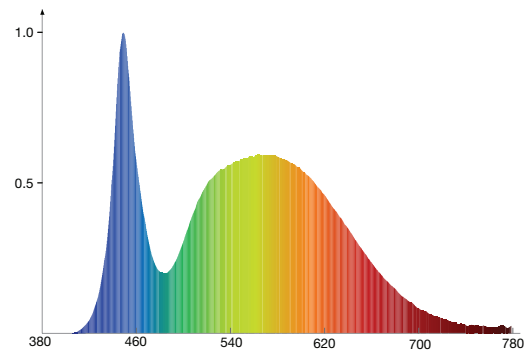
E<sub>c</sub> at Centre (Lux)



Polar Distribution

## SPECTRAL DISTRIBUTION

### LB2 - 40



CCT	4850K
Rendering Ind	79.0
Flux	2628lm
Effi	61.11lm/w
Radiant	7451.6mW

## ORDERING EXAMPLE

### LB2 - 40 - SSH - MP

PRODUCT	TYPE	MOUNTING	SUPPLY OPTION
---------	------	----------	---------------

PRODUCT		TYPE		MOUNTING		SUPPLY OPTION	
LB2	Low Bay	40	40W	SSH	Stainless Hood	MP	Mains Powered
		60	60W	SBR	Suspended Bracket		



 COOLON

# ZEENO

150W / 240W LED High Bay

The revolutionary change in commercial and industrial high bay lighting applications is finally here.

Zeeno was designed as a more reliable replacement for most industry standard LED high bays. Available as a 150W and 240W in combination with a range of low glare optics to meet a variety of applications.

Zeeno is a simple solution to many energy efficiency challenges where reliability won't be compromised.

#### Designed for use in:

- Factories
- Gyms
- Public Spaces
- Retail Stores
- Sports Halls
- Stadiums
- Warehouses
- Workshops
- Agriculture
- Animal Housing





## Fast Payback, Instant Results

Zeeno can be used in warehouses, sports facilities, retail stores and many other applications. No matter what the use is, Zeeno installations result in reduced energy bills and maintenance, and a short payback period.

## Engineered to Perfection

High intensity light output. Over 135 lm/W efficiency. Low power consumption. Long life endurance. Zeeno is everything you could possibly wish for in a high bay.



### COOL SURFACE TEMPERATURE

Coolon's industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and prolongs the lifespan of the luminaire.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects. This reduces strain on the eyes and significantly improves safety in areas where moving machinery is present.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any direction without affecting the lifespan of the product. This provides greater flexibility when it comes to aiming angles and orientation.

**3**  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon luminaires are covered by a comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### INSTANT ON/OFF

LEDs do not have a warm up period. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly reduce energy usage.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LEDs manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



### LOW SUSCEPTIBILITY TO VIBRATION

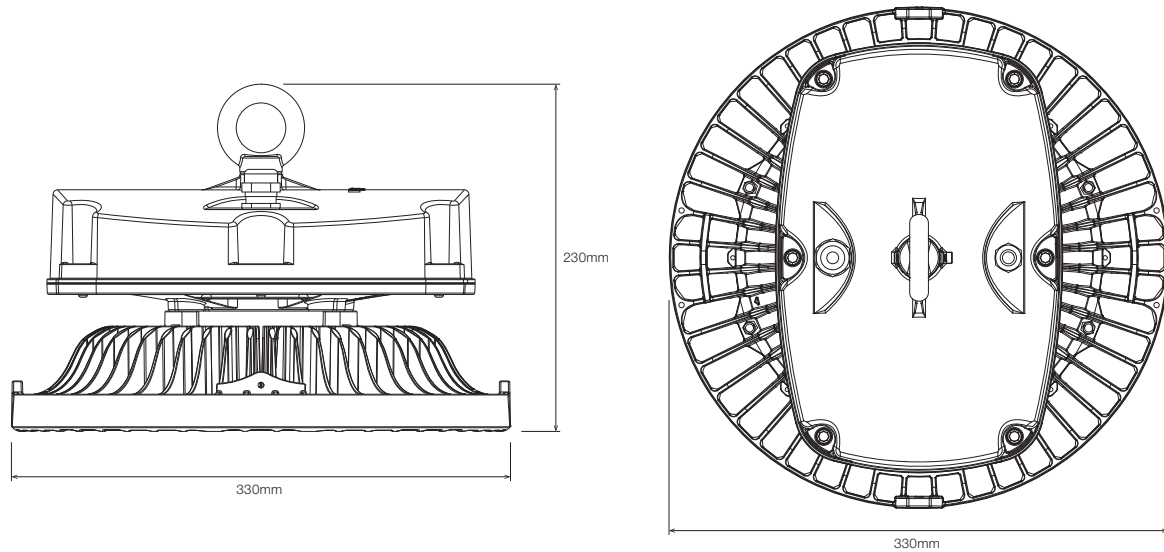
The Emergency Pack is designed to handle continuous exposure to vibration. Designed specifically to be mounted away from the luminaire to minimize the weight of the luminaire and effects of mechanical shock and vibration.



### DESIGNED AND BUILT FOR AUSTRALIAN CONDITIONS

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS



## TECHNICAL SPECIFICATIONS

<b>Product</b>	Zeeno LED High Bay	
Model	ZHB-150	ZHB-240
<b>Optical Characteristics</b>		
Luminous Flux	24,768 – 25,146 lm	32,662 – 33,312 lm
CCT	NWT	
CRI	>70	
<b>Electrical Characteristics (Luminaire)</b>		
Power Consumption	154W Typical	245W Typical
Nominal Voltage	230VAC	
Voltage Range	200 - 440VAC / 285-550VDC	
Frequency Range	50 – 60Hz	
Power Factor	≥0.98 / 230VAC	
Leakage Current	<0.75mA / 480VAC	
Cable Type	Standard 3 Core Flex with Molded 3 Pin AU Plug	
Cable Length	1.5m	

<b>Environmental</b>	
IP Rating	IP65
Impact Rating	IK08
Salt Spray Tested	Yes
Operating Temp. Range	-20 to +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	ADC12 Aluminium Alloy
Material Composition (Optics)	Polycarbonate

<b>Weight/Packaging</b>	<b>150W</b>	<b>240W</b>
Luminaire Dimensions	<b>L</b> 330mm x <b>W</b> 330mm x <b>H</b> 230mm	
Luminaire Weight	6.3kg	6.5kg
Packaging Dimensions	<b>L</b> 400mm x <b>W</b> 400mm x <b>D</b> 290mm	
Packaged Weight	7.5kg	7.7kg

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

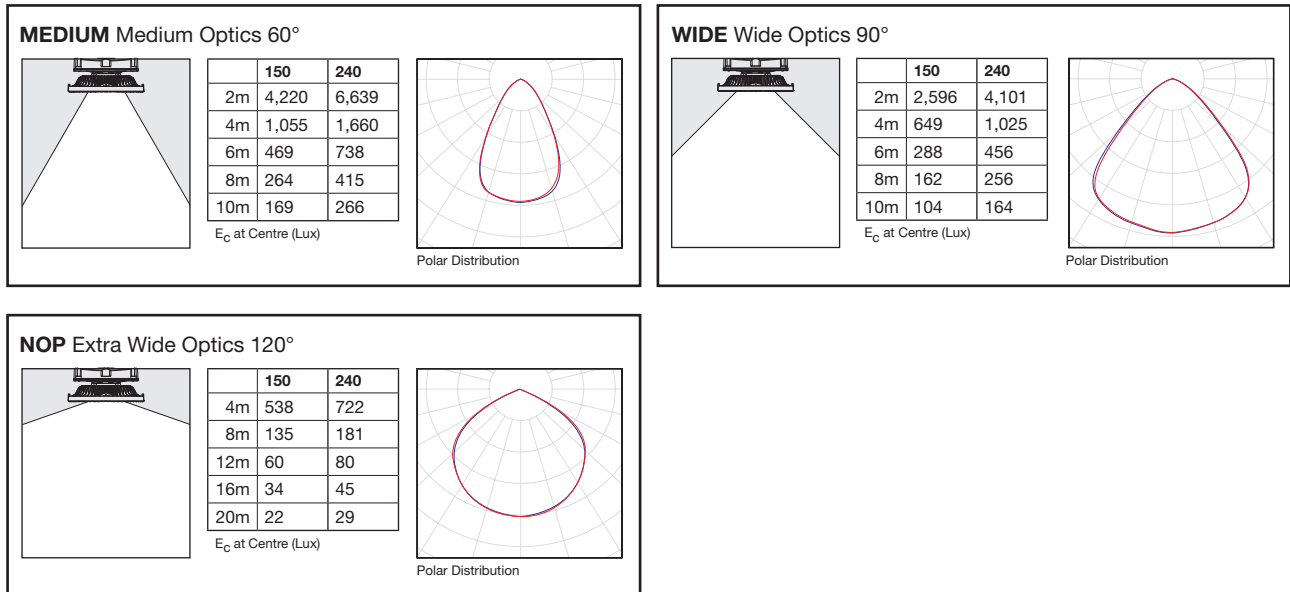
<sup>1</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior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

## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## ILLUMINANCE AT DISTANCE



## ORDERING EXAMPLE

**ZHB - 240 - NWT - MEDIUM - MP**

PRODUCT      TYPE      COLOUR TEMPERATURE      BEAM      SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMPERATURE		BEAM	SUPPLY OPTION	
ZHB Zeeno High Bay	150 150W	NWT	Neutral White	MEDIUM Medium Optics	MP	Mains Powered
	240 240W			WIDE Wide Optics		
				NOP Extra Wide Optics		





 **COOLON**

# IBYS

160W / 240W LED High Bay

The revolutionary change in commercial and industrial high bay lighting applications is finally here.

IBYS 160 was designed as a more efficient replacement for most industry standard gas discharge lamp-based high bays of up to 250W. For additional power and performance, the IBYS 240 is also available.

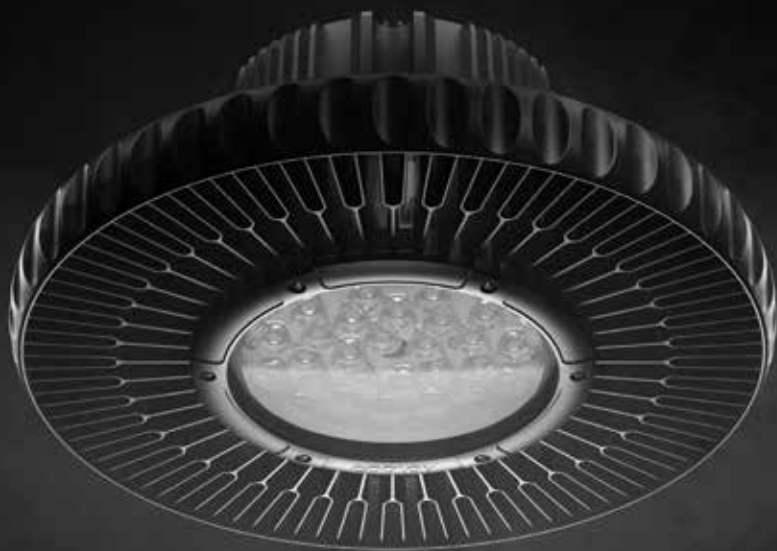
The incredibly sleek yet robust design of the IBYS allows it to be used in a variety of applications, from warehouses to retail stores and public spaces.

IBYS is a simple solution to many energy efficiency challenges.

#### Designed for use in:

- Warehouses
- Public Spaces
- Retail Stores
- Sports Halls



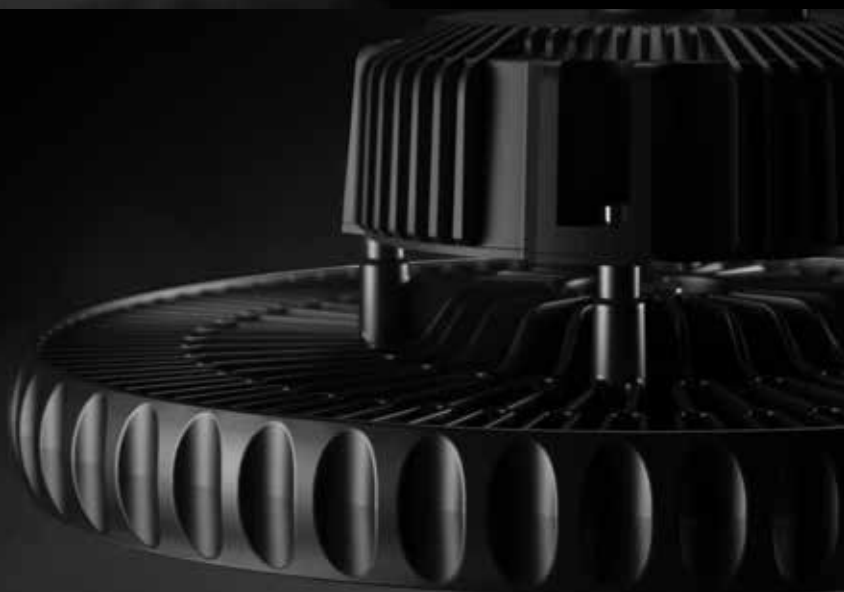


## Fast Payback, Instant Results

IBYS can be used in warehouses, sports facilities, retail stores and many other applications. No matter what the use is, IBYS installations result in reduced energy bills and maintenance, and a short payback period.

## Engineered to Perfection

High intensity light output. Over 100 lm/W efficiency.  
Low power consumption. Long life endurance.  
Incredibly low price. IBYS is everything you could possibly wish for in a high bay.



### COOL SURFACE TEMPERATURE

Coolon's industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and prolongs the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not have a warm up period. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly reduce energy usage.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects. This reduces strain on the eyes and significantly improves safety in areas where moving machinery is present.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LEDs manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any direction without affecting the lifespan of the product. This provides greater flexibility when it comes to aiming angles and orientation.



### QUALITY WHITE LIGHT W/ HIGH CRI

This luminaire emits light with a spectrum closely resembling that of natural daylight with a relatively high colour rendering index (CRI) greater than 80, enabling excellent colour differentiation.

**3  
YEARS**

### 3 YEARS FACTORY WARRANTY

Coolon luminaires are covered by a comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



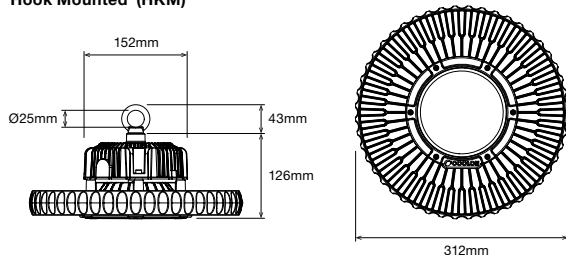
### PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using the best quality components and highly skilled labour, each luminaire is thoroughly tested to ensure excellence in performance.

## DIMENSIONS

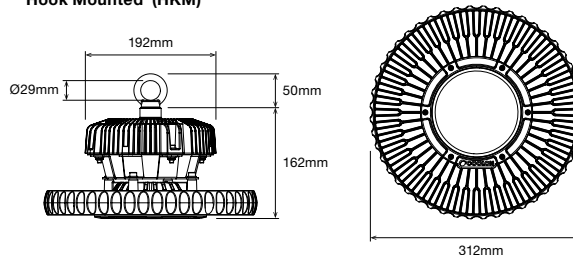
### IBYS 160W

#### Hook Mounted (HKM)



### IBYS 240W

#### Hook Mounted (HKM)



## TECHNICAL SPECIFICATIONS

Product	IBYS LED High Bay	
Model	IBYS 160	IBYS 240
Optical Characteristics		
Luminous Flux (Photometered)	14,305 – 18,380 lm	18,159 – 24,988 lm
CCT	CWT / NWT / WWT	
Electrical Characteristics (Luminaire & Power Supply)		
Power Consumption	160W at 25°C	240W at 25°C
Nominal Voltage	230VAC	
Voltage Range	90 – 305VAC, 127 – 431VDC	
Frequency Range	47 – 63Hz	
Power Factor	>0.95 / 230VAC	
Leakage Current	<0.75mA / 277VAC	
Cable Type	Standard 3 Core Flex w/ Molded 3 pin AU Plug	
Cable Length	1.5m	
Environmental		
IP Rating	IP66	
Operating Temp. Range	-20 to +55°C	
Thermal Management Type	Active/Continuous	
Expected Lifespan	50,000 Hours to 70% Brightness	
Material Composition (Body)	Aluminium Alloy	
Material Composition (Cover)	Polycarbonate	

	IBYS 160		IBYS 240	
<b>Weight/Packaging</b>	Luminaire	Packaged	Luminaire	Packaged
IBYS-HKM	4.2kg	5.6kg	5.6kg	7kg
IBYS-SWB	4.5kg	5.9kg	N/A	N/A
Packaging Dimensions	360 x 360 x 300mm			

#### Compliance (Safety Standards)

AS/NZS60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires
UL 1598 and CSA C22.2 No. 250.0-08	Luminaires
UL 8750	Standard for Light Emitting Diode (LED) Equipment for use in Lighting Products

#### Compliance (EMC)

AS/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
FCC Part 15 Subpart B	Class B limits
ANSI C63.4-2009	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz
Industry Canada ICES-003	Information Technology Equipment (ITE) – Limits and Methods of Measurement, Issue 5, Aug 2012
CAN/CSA-CE/IEC CISPR22-02	Limits and methods of measurement of Radio Disturbance Characteristics of Information Technology Equipment

#### Warranty

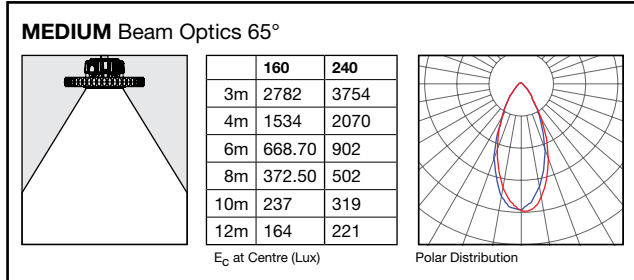
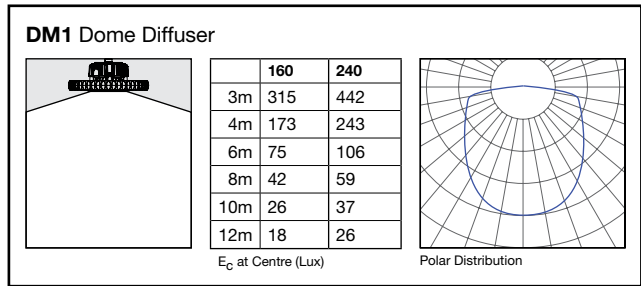
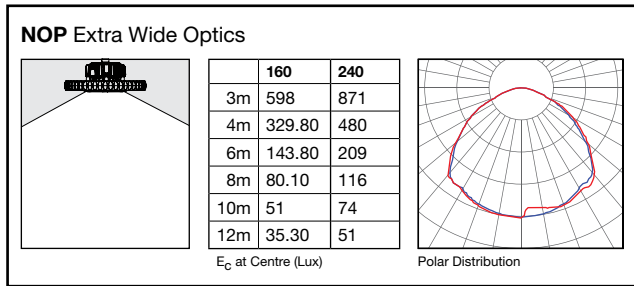
Warranty	3 years warranty as standard 5 years extended warranty optional
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<sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

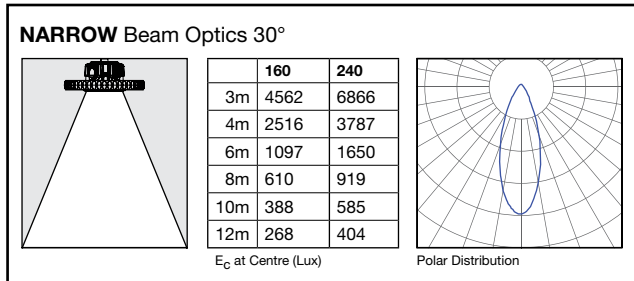
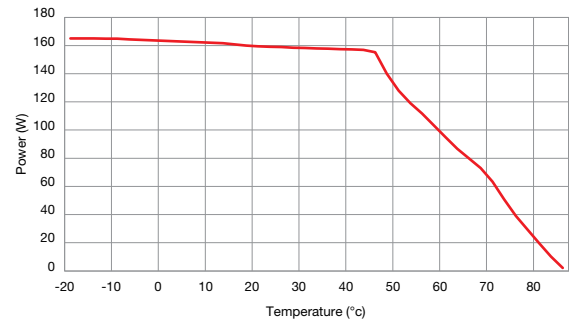
<sup>2</sup> Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.



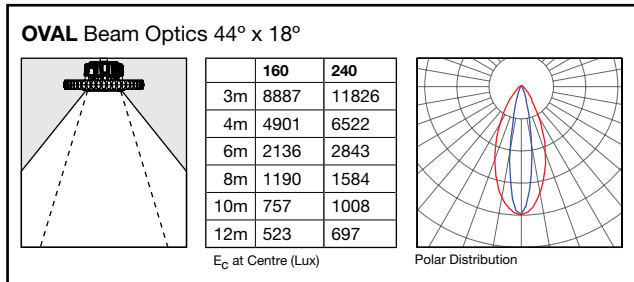
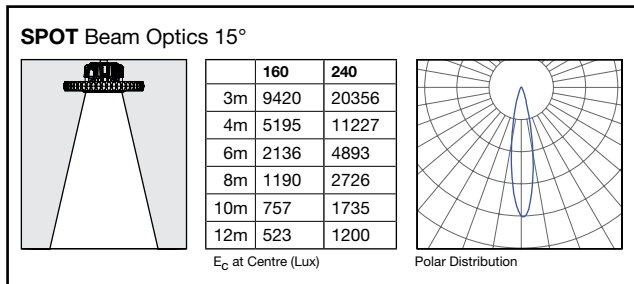
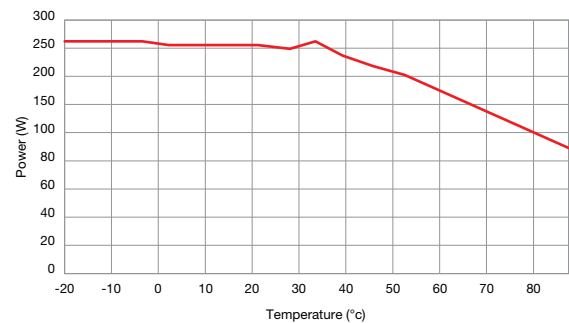
## ILLUMINANCE AT DISTANCE



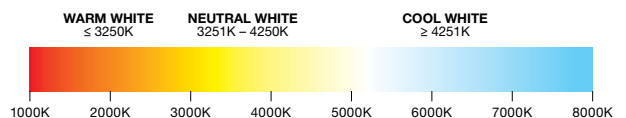
## 160W AMBIENT TEMPERATURE VS POWER



## 240W AMBIENT TEMPERATURE VS POWER



## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## ORDERING EXAMPLE

**IBYS - 160 - CWT - MEDIUM - HKM<sup>1</sup> - MP**

PRODUCT

TYPE

COLOUR TEMP

OPTICS

MOUNTING

SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	MOUNTING	SUPPLY OPTION
IBYS	160	CWT	Cool White	NOP	Extra Wide Optics
	240	NWT	Neutral White	DM1	Dome Diffuser
		WWT	Warm White	MEDIUM	Medium Optics
			NARROW	Narrow Optics	
			SPOT	Spot Optics	
			OVAL	Oval Optics	

<sup>1</sup> If MOUNTING is not specified, Hook Mounted (HKM) unit will be supplied.



 COOLON

# AZIZ LIGHT™

160W LED High Bay

The only innovative solution for production and warehouse areas.

AZIZ LIGHT™ is an extremely robust LED high bay luminaire. With a tempered glass lens and houses within a cold-forged pure aluminium body, AZIZ LIGHT™ is perfect for processing plant and warehouse applications – from pristine to highly contaminated environments.

With over 140 lm/W, AZIZ LIGHT™ is one of the most efficient LED high bays on the market.

#### Designed for use in:

- Warehouses
- Public Spaces
- Retail Stores
- Sports Halls





## Solid Body Aluminum

AZIZ LIGHT™ can be used in warehouses, sports facilities, retail stores and many other applications. No matter what the use is, AZIZ LIGHT™ installations result in reduced energy bills and maintenance, and a short payback period.

## Enhanced Optical Performance

High intensity light output. Over 140 lm/W efficacy.  
Low power consumption. Long life endurance.  
Incredibly low price. AZIZ LIGHT™ is everything you could possibly wish for in a high bay.



### COOL SURFACE TEMPERATURE

Coolon's industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and prolongs the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not have a warm up period. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly reduce energy usage.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects. This reduces strain on the eyes and significantly improves safety in areas where moving machinery is present.

L70

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LEDs manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any direction without affecting the lifespan of the product. This provides greater flexibility when it comes to aiming angles and orientation.



### QUALITY WHITE LIGHT W/ HIGH CRI

This luminaire emits light with a spectrum closely resembling that of natural daylight with a relatively high colour rendering index (CRI) greater than 80, enabling excellent colour differentiation.

3  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon luminaires are covered by a comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

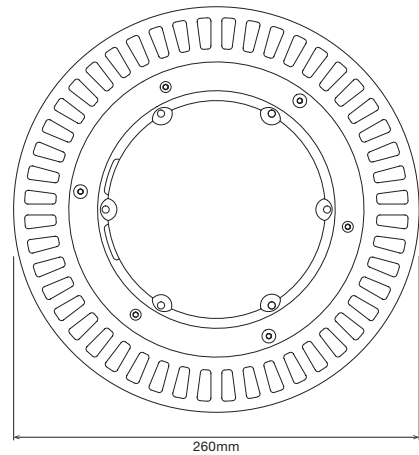
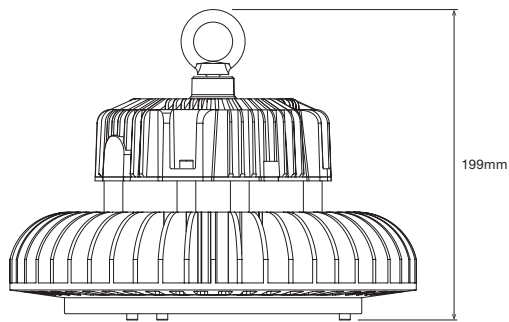


### PROUDLY MADE IN AUSTRALIA

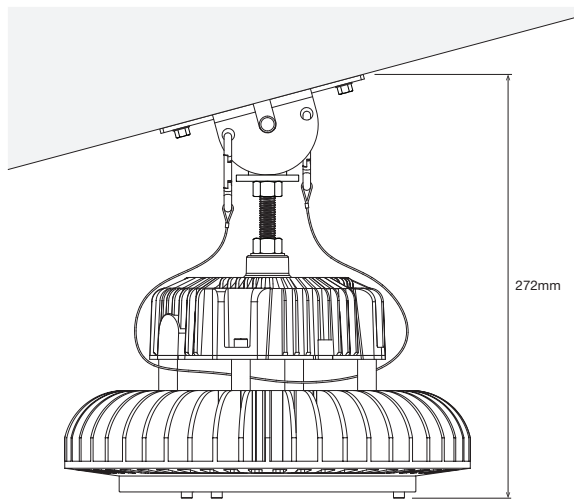
Our products are designed and manufactured in Australia. Engineered to perfection, using the best quality components and highly skilled labour, each luminaire is thoroughly tested to ensure excellence in performance.

## DIMENSIONS

### AZIZ LIGHT™ 160W Hook Mounted



### AZIZ LIGHT™ 160W T-Bolt Swivel Bracket



## TECHNICAL SPECIFICATIONS

<b>Product</b>	AZIZ LIGHT LED High Bay
Model	AZIZLIGHT-160
<b>Optical Characteristics</b>	
Luminous Flux (Photometered)	19,733 - 20,087 lm
Luminous Flux (LED Lumens)	21,800 lm
CCT	CWT
<b>Electrical Characteristics (Luminaire &amp; Power Supply)</b>	
Power Consumption	143W at 25°C
Nominal Voltage	230VAC
Voltage Range	100 – 305VAC, 127 – 431VDC
Frequency Range	47 – 63Hz
Power Factor	>0.95 / 277VAC
Leakage Current	<0.75mA / 277VAC
Cable Type	Standard 3 Core Flex w/ Molded 3 pin AU Plug
Cable Length	1.5m

<b>Environmental</b>	
IP Rating	IP66
Operating Temp. Range	-20 to +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Cold Forged Aluminium
Material Composition (Cover)	Tempered Glass
Material Composition (Bracket)	Stainless Steel

Weight/Packaging	HKM	SWB
Luminaire Weight	4.3kg	4.6kg
Packaging Weight	5.2kg	5.5kg
Packaging Dimensions	320 x 320 x 230mm	

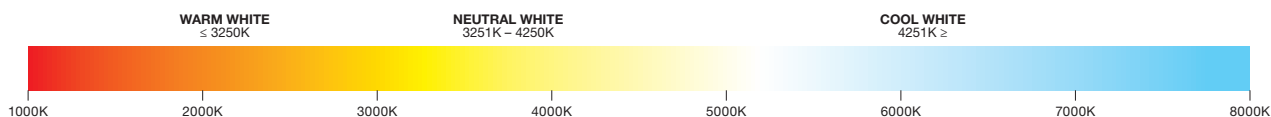
<b>Compliance (Safety Standards)</b>	
AS/NZS60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires

<b>Compliance (EMC)</b>	
AS/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

<b>Warranty</b>	
Warranty	3 years warranty as standard 5 years extended warranty optional

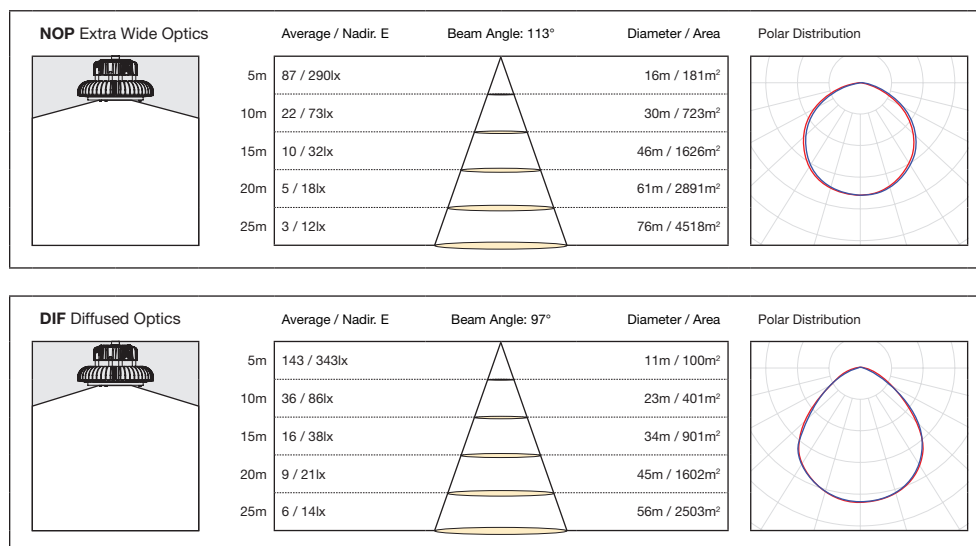


## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## ILLUMINANCE AT DISTANCE



## ORDERING EXAMPLE

**AZIZLIGHT - 160 - CWT - NOP - HKM - MP**

PRODUCT      TYPE      COLOUR TEMP      OPTICS      MOUNTING      SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP		OPTICS		MOUNTING		SUPPLY OPTION	
AZIZ LIGHT™	160    160W	CWT	Cool White	NOP	Extra Wide Optics	HKM	Hook Mounted	MP	Mains Powered
				DIF	Diffused	SWB	T-Bolt Swivel Bracket		



 COOLON

# ISLE BAY™

160W LED High Bay

The revolutionary change in commercial and industrial high bay lighting applications is finally here.

ISLE BAY™ was designed as a more efficient replacement for most industry standard gas discharge lamp-based high bays of up to 250W.

The incredibly sleek yet robust design of the ISLE BAY™ allows it to be used in a variety of applications, from warehouses to retail stores and public spaces.

ISLE BAY™ is a simple solution to many energy efficiency challenges.

#### Designed for use in:

- Warehouses
- Public Spaces
- Retail Stores
- Sports Halls





## Solid Body Aluminum

ISLE BAY™ can be used in warehouses, sports facilities, retail stores and many other applications. No matter what the use is, ISLE BAY™ installations result in reduced energy bills and maintenance, and a short payback period.

## Enhanced Optical Performance

High intensity light output. Over 125 lm/W efficacy. Low power consumption. Long life endurance. Incredibly low price. ISLE BAY™ is everything you could possibly wish for in a high bay.



### COOL SURFACE TEMPERATURE

Coolon's industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and prolongs the lifespan of the luminaire.



### INSTANT ON/OFF

LEDs do not have a warm up period. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly reduce energy usage.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects. This reduces strain on the eyes and significantly improves safety in areas where moving machinery is present.

L70

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LEDs manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any direction without affecting the lifespan of the product. This provides greater flexibility when it comes to aiming angles and orientation.



### QUALITY WHITE LIGHT W/ HIGH CRI

This luminaire emits light with a spectrum closely resembling that of natural daylight with a relatively high colour rendering index (CRI) greater than 80, enabling excellent colour differentiation.

3  
YEARS

### 3 YEARS FACTORY WARRANTY

Coolon luminaires are covered by a comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

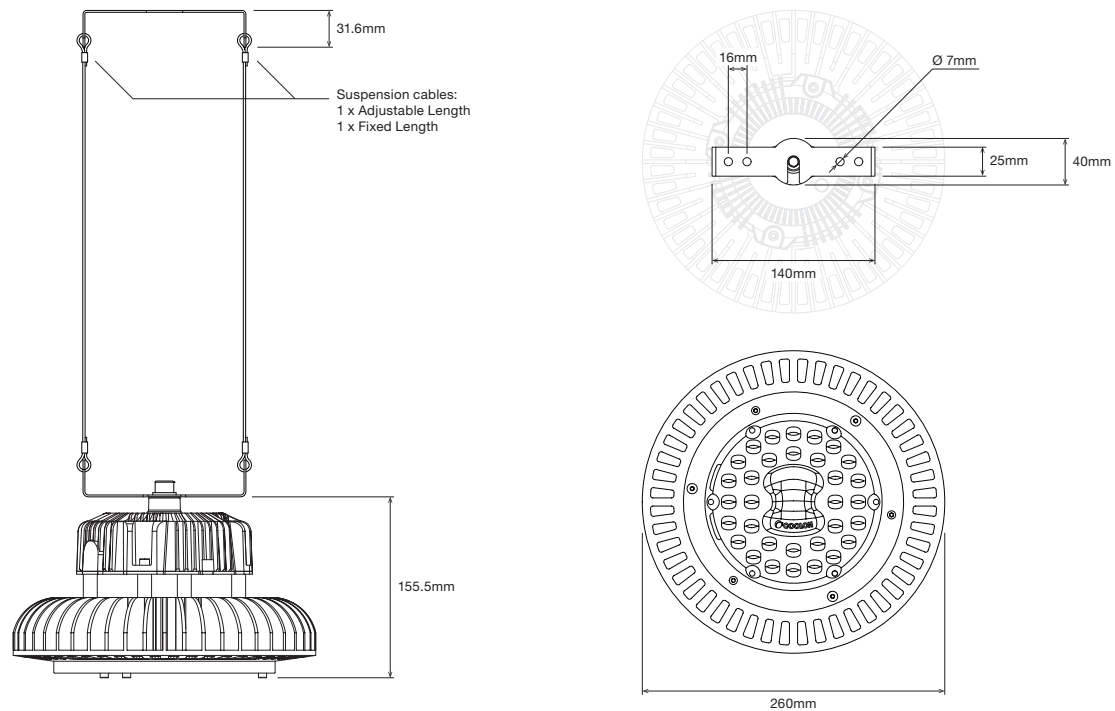


### PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using the best quality components and highly skilled labour, each luminaire is thoroughly tested to ensure excellence in performance.

## DIMENSIONS

### ISLE BAY™ 160W



## TECHNICAL SPECIFICATIONS

### Product

Model	ISLEBAY-160
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### Optical Characteristics

Luminous Flux (Photometered)	19,763lm
Luminous Flux (LED Lumens)	23,400lm
CCT	CWT 4700 – 8000K

### Electrical Characteristics (Luminaire & Power Supply)

Power Consumption	160W at 25°C
Nominal Voltage	230VAC
Voltage Range	100 – 305VAC, 127 – 431VDC
Frequency Range	47 – 63Hz
Power Factor	>0.95 / 277VAC
Leakage Current	<0.75mA / 277VAC
Cable Type	Standard 3 Core Flex w/ Molded 3 pin AU Plug
Cable Length	1.5m

### Environmental

IP Rating	IP66
Operating Temp. Range	-20 – 50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Cold Forged Aluminium
Material Composition (Cover)	Polycarbonate
Material Composition (Bracket)	Stainless Steel

### Weight/Packaging

Luminaire Weight	5.5kg
Packaging Dimensions	290 x 290 x 260mm

### Compliance (Safety Standards)

AS/NZS60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires

### Compliance (EMC)

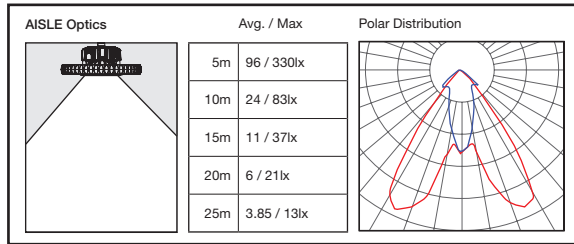
AS/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
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### Warranty

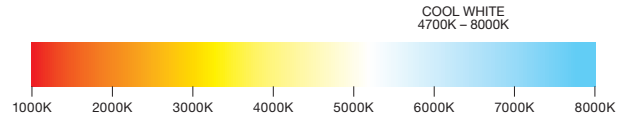
Warranty	3 years warranty as standard 5 years extended warranty optional
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## ILLUMINANCE AT DISTANCE



## COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

## ORDERING EXAMPLE

**ISLEBAY - 160 - CWT - AISLE - SUS - MP**

PRODUCT TYPE COLOUR TEMP OPTICS MOUNTING SUPPLY OPTION

PRODUCT	TYPE	COLOUR TEMP	OPTICS	MOUNTING	SUPPLY OPTION
ISLE BAY™	160 160W	CWT Cool White	AISLE Aisle Optics	SUS Suspended Bracket with Fixed Orientation	MP Mains Powered



# ROM HOPPER BIN INDICATOR

Depth / Distance Indicator Light

The ROM Hopper Bin Indicator assists reversing truck drivers by indicating the location of the truck tray with respect to the walls of the hopper.

While reversing the truck into the ROM hopper, only the blue vertical LEDs and the green horizontal LEDs should be visible to the driver in the onside mirror. When this is observed, there is sufficient room between the offside edge of the hopper and the truck. If the orange and/or red LEDs are visible, the driver is warned that the offside of the truck tray is getting too close to the offside of the hopper.

The Rom Hopper Bin Indicator features an ambient light sensor which adjusts the brightness of the LEDs automatically in order to be clearly visible during the day and not blind the driver at night time. This feature can be tuned for specific applications with a brightness setting adjustment located inside the power supply.

#### Designed for use in:

- Hopper Bins
- Rom Bins
- Other Safety Indicators

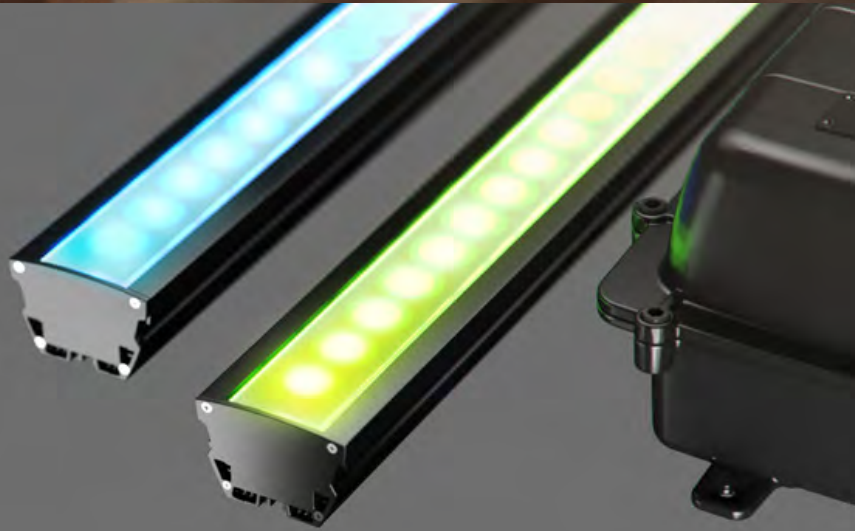


## Reverse quicker & safer every time

The ROM Hopper Bin Indicator bars are widely used by the Iron Ore industry across Australia. This simple, yet effective navigation system helps to continuously improve circuit turnaround time and save cost of accident related down time.

## Improve safety, productivity & reduce driver fatigue

The ROM Hopper Bin Indicator is an intricate solution that has been proven for many years to provide successful results. It allows the driver to quickly and effortlessly align the dump truck whilst reversing into the bin.



### REVERSE DAYLIGHT SENSOR

This product is fitted with intelligent light sensor. The LED light intensity is increased during the day, to maximize the effectiveness in the bright desert conditions and reduced with the nightfall to avoid blinding truck drivers.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3  
YEARS**

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.

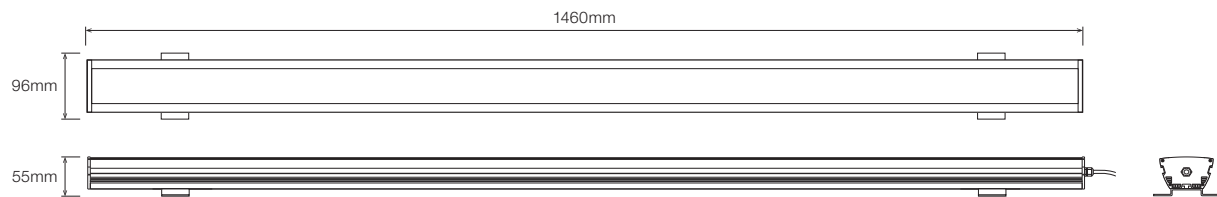


### PROUDLY MADE IN AUSTRALIA

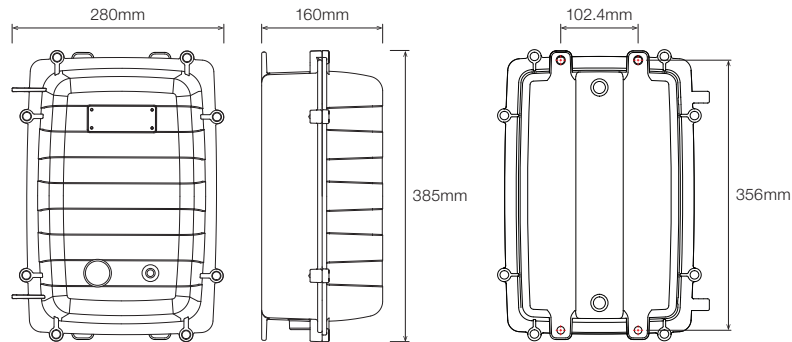
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

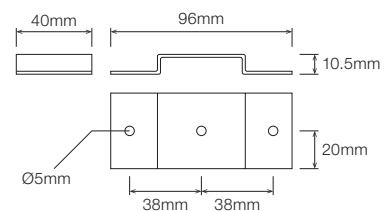
### Rom Hopper Bin Indicator Bar



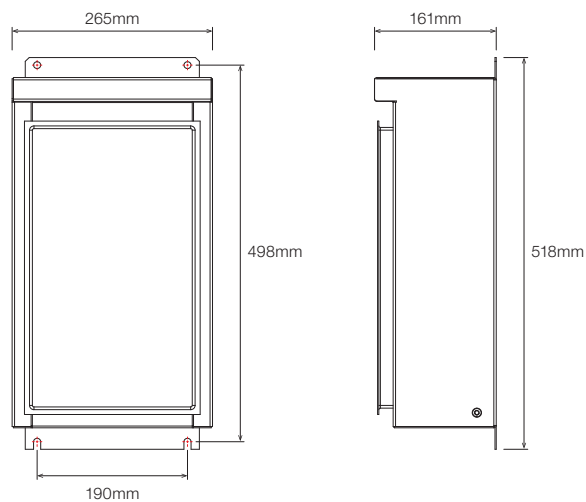
### Standard Power Supply



### Mounting Bracket



### Stainless Steel Power Supply



## TECHNICAL SPECIFICATIONS

<b>Product</b>	ROM Hopper Bin Depth / Distance Indicator Light
<b>Model</b>	CST
<b>Electrical Characteristics (Power Supply)</b>	
<b>Model Part Number</b>	PWR-AS2SBAR-WBLLS
<b>Voltage Range</b>	90 – 264VAC
<b>Frequency Range</b>	47 – 63Hz
<b>Power Factor</b>	0.94 / 230VAC
<b>Leakage Current</b>	<0.8mA / 240VAC
<b>Electrical Characteristics (Luminaire)</b>	
<b>Nominal Voltage</b>	24VDC
<b>Voltage Range</b>	22 – 30VDC
<b>Cable Type</b>	UL2517 14#2C+18#1C Braid PVC UV Resistant, Black
<b>Cable Diameter</b>	7.5mm
<b>Cable Length</b>	3m

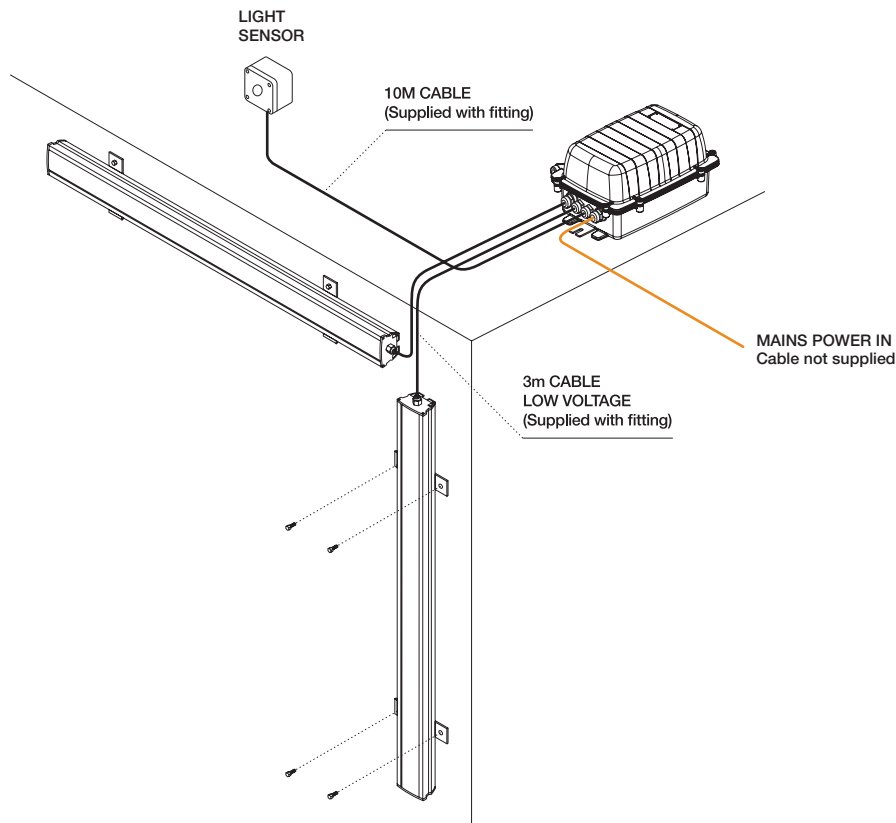
<b>Environmental</b>	
<b>IP Rating</b>	IP66
<b>Operating Temp. Range</b>	-20 to +50°C
<b>Thermal Management Type</b>	Active/Continuous
<b>Expected Lifespan</b>	50,000 Hours to 70% Brightness
<b>Material Composition (Body)</b>	Aluminum Alloy (Marine Grade Black Anodized)
<b>Material Composition (Optics)</b>	Protective Polycarbonate Clear Cover
<b>Material Composition (Bracket)</b>	Stainless Steel 304 Brackets

### Warranty

<b>Warranty</b>	3 years warranty as standard. 5 years extended warranty optional.
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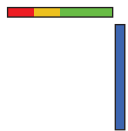
## CONFIGURATION



### ROM HOPPER BIN LED KIT <sup>1</sup>

#### Kit Includes

- 1 x Light Bar Red/Amber/Green
- 1 x Light Bar Blue
- 1 x 230VAC Power Supply to suit 2 x Light Bars
- 1 x Day/Night Bi-Level Light Sensor



Part No.:

**KIT - ROMBLD - R2A2G4BL8 - WPS - WLS**

### INDIVIDUAL PARTS

#### Light Bar Red/Amber/Green

Light Bar Red/Amber/Green with 30° optics  
1450mm long



Part No.: **CST - LNHP - R2A2G4 - L30C**

#### Light Bar Blue

Light Bar 8 segments Blue with 30° optics  
1450mm long



Part No.: **CST - LNHP - BL8 - L30C**

#### Power Supply in Standard Enclosure

230VAC Power supply to suit 2 Light Bars up to  
200W total, with Bi-level light Sensor

Part No.: **PWR - AS2SBAR - WBLLS**

### OPTIONAL UPGRADES

#### Wide Range Power Supply in Stainless Steel Enclosure <sup>2</sup>

Wide Voltage Range Power Supply in Stainless  
Steel Enclosure to suit 2 Light Bars,  
with Bi-level light Sensor

Part No.: **PWR - SS2BAR - WBLLS**

#### Light Bar Red/Green

Light Bar half Red/half Green with  
30° optics, 1450mm long



Part No.: **CST - LNHP - R4G4 - L30C**

#### Day/Night Sensor

Day/Night Bi-Level Light sensor

Part No.: **CST - BILVL - SEN - DN**

<sup>1</sup> as per RioTinto standard

<sup>2</sup> as per BHP standard



# EYE WASH STATION LED

11W Safety Beacon Light

Made specifically to withstand the harshest industrial conditions, the Eye Wash Station Industrial LED luminaire offers reliable performance that will improve the safety of your work site.

The Eye Wash Station Industrial LED luminaire has been specifically created to replace the existing fluorescent solutions, eliminate the need for constant maintenance and improve the visibility of a typical eyewash indicator luminaire.

An emergency battery backup version is available which allows the unit to continue to run over 2 hours in the event of a power outage.

## Designed for use in:

- Green Eye Wash Lights
- Emergency Eye Wash Lights
- Other Safety Indicators





## In case of emergency

Accidents happen, and in some cases an eye wash station can be a life-line for the victim. Action needs to be taken immediately in order to avoid permanent damage. Emergency equipment must therefore be highly reliable. The Eye Wash LED is the most reliable indicator luminaire for those demanding applications.

## Retro-fit installation

Eye Wash LED has been specifically designed to fit onto an industry standard spigot mount. The quick and easy retrofit design ensures that upgrade costs are minimized.



### COOL SURFACE TEMPERATURE

Coolon's Industrial LED fittings have a much lower surface temperature than traditional HID equivalents which prevents dirt from baking onto the luminaire. This allows for easier cleaning and will prolong the lifespan of the luminaire.



### UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any desired way without affecting the lifespan of the product. This gives greater flexibility when it comes to aiming angles and orientation.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**3  
YEARS**

### 3 YEARS FACTORY WARRANTY

Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

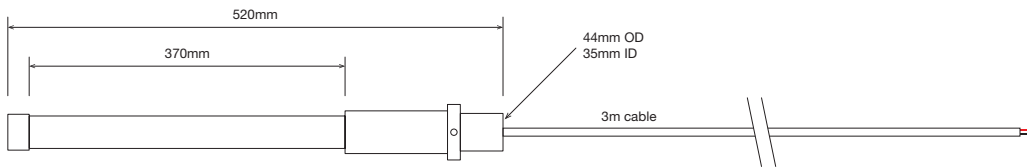


### PROUDLY MADE IN AUSTRALIA

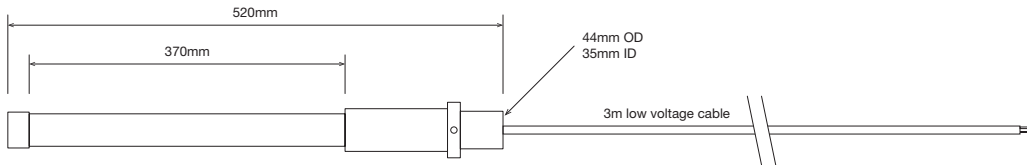
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

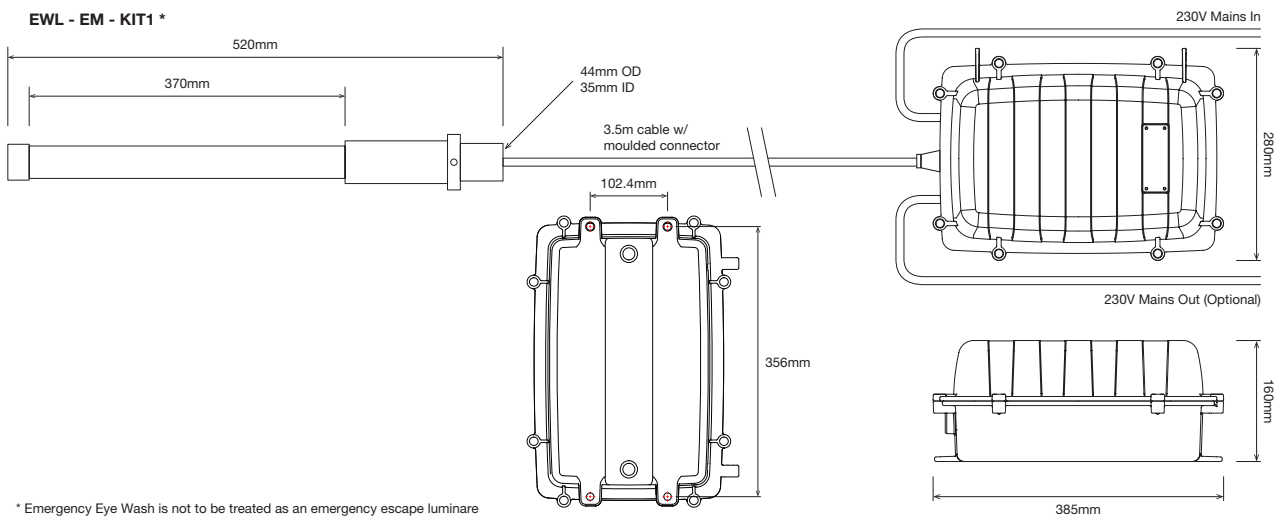
### EWL - MP



### EWL - ELV



### EWL - EM - KIT1 \*



\* Emergency Eye Wash is not to be treated as an emergency escape luminaire

## TECHNICAL SPECIFICATIONS

Product		
Model	EWL-GRN-MP	EWL-GRN-ELV
Optical Characteristics		
Luminous Flux (Photometered)	350 lm	350 lm
Luminous Flux (LED Lumens)	580 lm	580 lm
CCT	532nm (Green)	532nm (Green)
CRI	N/A	N/A
Electrical Characteristics (Luminaire)		
Power Consumption	11W	9.6W
Nominal Voltage	230VAC	24VDC
Voltage Range	180 – 255VAC	23 – 26VDC
Frequency Range	47 – 63Hz	N/A
Power Factor	>0.8 / 230VAC	N/A
Leakage Current	<0.75mA / 240VAC	N/A
Cable Type	Orange Circular 3 Core Cable 2.5mm <sup>2</sup>	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	10 – 12mm	7.5mm
Cable Length	3m	3m

Environmental	
IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	800 hours
Operating Temp. Range	-20 to +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	SS304
Material Composition (Optics)	Protective Polycarbonate Tube

Emergency (EMP)	
Charge Time	8 hours
Battery Type	SLA Panasonic 12V, 7.2A
Discharge Time	Over 10 hours

Weight/Packaging		
Luminaire Weight	1.42kg	1.32kg
Packaging Dimensions	570 x 370 x 170mm	
Packaging Weight	2.00kg	

Warranty	
Warranty	3 years warranty as standard 5 years extended warranty optional



## WIRING

### MAINS VERSION

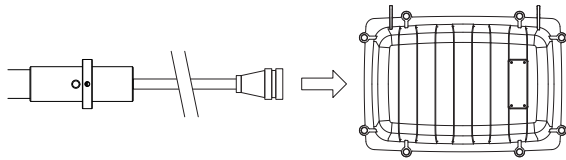
**Voltage Input:** 100 ~ 240VAC 50/60hz Input



### EMERGENCY VERSION\*

Connect Eye Wash Station LED to Emergency Pack.

Please see Emergency Pack manual for specific wiring information.



**\*NOTE:** Emergency Eye Wash is not to be treated as an emergency escape luminaire

### LOW VOLTAGE VERSION

**Voltage Input:** 21.5 ~ 26 VDC



**Voltage Input:** 21.5 - 26 VDC

EMP luminaires can be configured to be low voltage units.

Remove the molded connector to expose the conductors.

Connect wires as labelled. The white wire can be terminated if brightness control is not needed.



## ORDERING EXAMPLE

**EWL - GRN - MP<sup>1</sup>**

PRODUCT                      COLOUR TEMP                      SUPPLY OPTION

PRODUCT	COLOUR TEMP	SUPPLY OPTION
EWL	GRN      Green	MP      Mains Powered
		ELV      Extra Low Voltage Luminaire
		EML      Luminaire for Emergency Pack
		EM-KIT1      Kit with AL Emergency Pack
		EM-KIT2      Kit with SS Emergency Pack

<sup>1</sup> If SUPPLY OPTION is not specified, Standard Configuration Mains Powered will be supplied

If SUPPLY OPTION "EM" is specified without kit specification, KIT1 will be supplied

## EWL-EM KIT OPTIONS

KIT	UNIT SUPPLIED	DESCRIPTION
KIT1	EWL - GRN - EML	EWL Luminaire for Emergency Pack
	EMP-724-036AL	Emergency Pack Aluminium Enclosure
KIT2	EWL - GRN - EML	EWL Luminaire for Emergency Pack
	EMP-724-093SS	Emergency Pack Stainless Steel Enclosure



# PATHLIGHT GUARDIAN™

10W Path Light

Pathlight Guardian™ LED luminaire is a durable path light that is ideal for use with solar panels to illuminate remote areas.

Made specifically to withstand the harshest environmental conditions, Pathlight Guardian™ LED luminaire offers reliable performance that will improve the safety of your neighborhood.

Pathlight Guardian™ is proudly designed and manufactured in Australia. It is easy to install and environmentally friendly. With special optics designed to focus its light distribution, Pathlight Guardian™ provides maximum illumination and minimum disruption to animals. With a marine grade stainless steel body, Pathlight Guardian™ is available in a range of colour temperatures.

#### Designed for use in:

- Path lighting
- Parks
- Walkways
- Car parks
- Jetties
- Remote area lighting



## Robust & virtually indestructible

Pathlight Guardian™ LED luminaire has been specifically designed to withstand vandalism, eliminating the need for regular maintenance and making your neighbourhood safer.

## Environmentally friendly & innovative

With its low energy consumption, Pathlight Guardian™ LED luminaire is ideal for use with solar panels in off-the-grid locations to illuminate streets, parks, walkways, parking lots, jetties and other public spaces.



### INDUSTRIAL GRADE FINISHINGS

A long-life luminaire deserves a long-life finish. We source the finest 316 stainless steel to ensure the luminaire provides superior performance all year round. This luminaire is resistant to various elements including ultraviolet light, abrasion and corrosion.



### INSTANT ON/OFF

LEDs do not require warm up. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly save energy.



### NO FLICKERING

LED luminaires run on constant low voltage power and do not produce any visible stroboscopic effects, thus reducing the strain on eyes and significantly improving safety in areas where moving machinery is present.

**IP66**

### HIGH IP RATING - IP66

Coolon's Industrial LEDs are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our LED products to be used in many different applications and are high pressure washable.



### LOW SUSCEPTIBILITY TO VIBRATION

This luminaire is designed to handle continuous exposure to vibration. A typically critical issue affecting the life and operation of most common gas discharge lamp based light sources is mechanical shock and vibration.

**L70**

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.

**3  
YEARS**

### 3 YEARS FACTORY WARRANTY

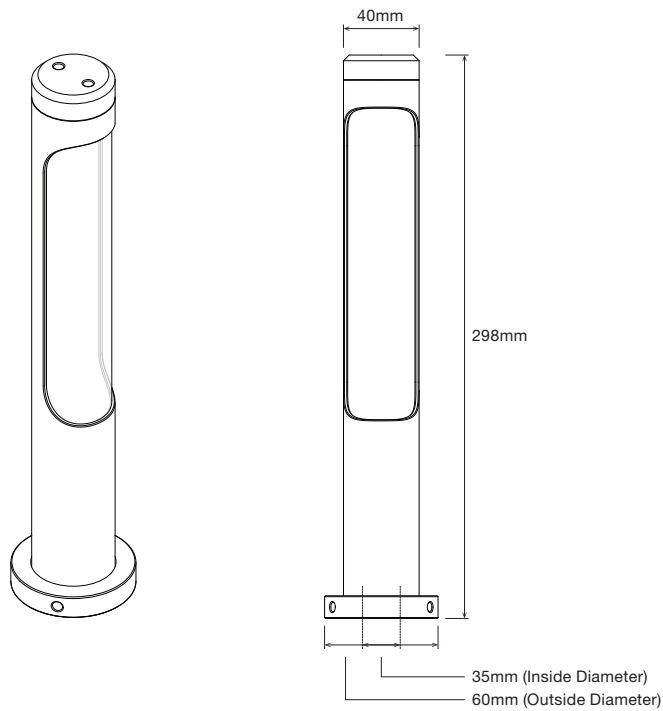
Coolon Luminaires are covered by a solid comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS



## TECHNICAL SPECIFICATIONS

### Product

Model	Pathlight Guardian™
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### Optical Characteristics

Luminous Flux (Photometered)	1000 – 1300 lm
Luminous Flux (LED Lumens)	1300 lm
CCT	WWT 2700 – 3500K CWT 4300 – 6500K
CRI	>70

### Electrical Characteristics (Luminaire)

Power Consumption	9.6W
Nominal Voltage	12VDC / 24VDC
Voltage Range	11 – 50VDC
Cable Type	UL2095, 16 AWG x 2C Braid PVC, UV Resistant
Cable Diameter	7.5mm
Cable Length	7m

### Environmental

IP Rating	IP66
Impact Rating	IK09
Salt Spray Tested	Yes
Operating Temp. Range	-20 to +50°C
Thermal Management Type	Active/Continuous
Expected Lifespan	50,000 Hours to 70% Brightness
Material Composition (Body)	Stainless Steel 316
Material Composition (Diffuser)	Polycarbonate

### Weight/Packaging

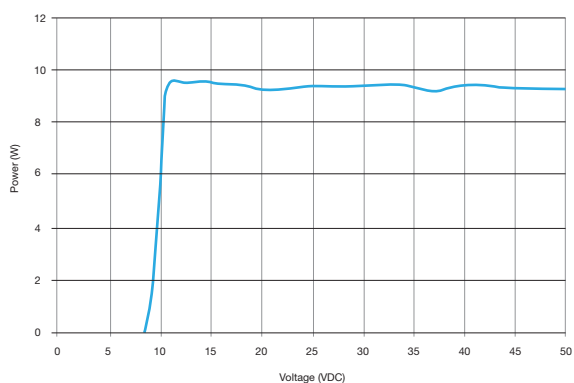
Luminaire Weight	0.8kg (L)	1.5kg (L+C)
Packaging Dimensions	380x140x70mm	
Packaging Weight	1.7kg	

### Warranty

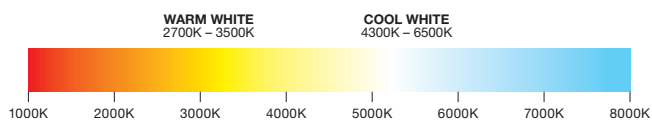
Warranty	3 years warranty as standard 5 years extended warranty optional
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## SUPPLY VOLTAGE VS POWER



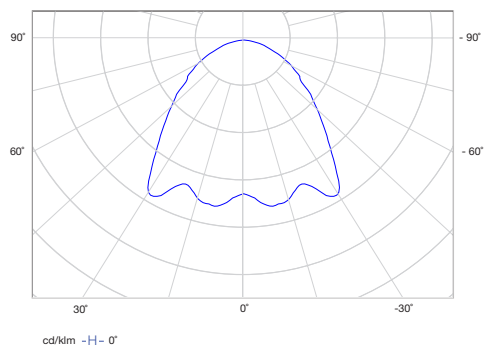
## COLOUR TEMPERATURES



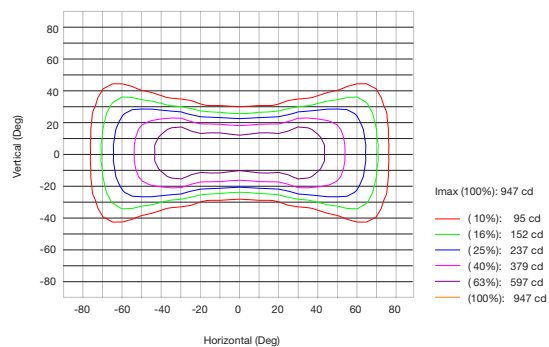
All colour temperatures are indicative. Some variation can occur.

## OPTICAL DISTRIBUTION

FLARE Flare Optics 100° x 20° Beam Angle



FLARE Flare Optics 100° x 20° Beam Angle



## ORDERING EXAMPLE

**PLG - CWT - FLARE - ELV**

PRODUCT COLOUR TEMP OPTICS SUPPLY OPTION

PRODUCT	COLOUR TEMP	OPTICS	SUPPLY OPTION
Pathlight Guardian™	CWT Cool White LEDs	FLARE Flare Optics	ELV Extra Low Voltage Luminaire
	WWT Warm White LEDs		



# EMERGENCY PACK

**100W Battery Pack**



## LOW SUSCEPTIBILITY TO VIBRATION

The Emergency Pack is designed to handle continuous exposure to vibration. Designed specifically to be mounted away from the luminaire to minimize the weight of the luminaire and effects of mechanical shock and vibration.



## EXTENSIVE FACTORY WARRANTY

Coolon Products are covered by a comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.

**IP66**

## HIGH IP RATING - IP66

Coolon's Industrial Products are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our units to be used in many different applications and are high pressure washable.

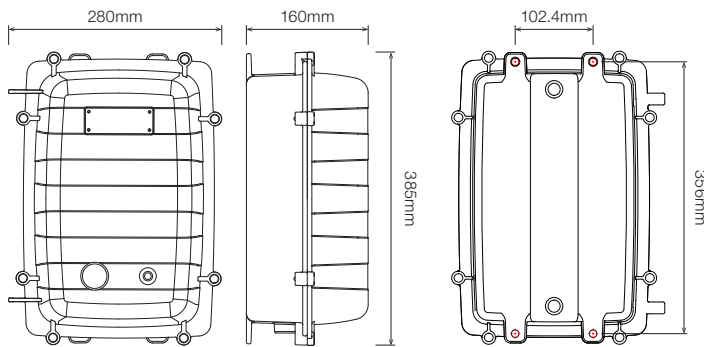


## PROUDLY MADE IN AUSTRALIA

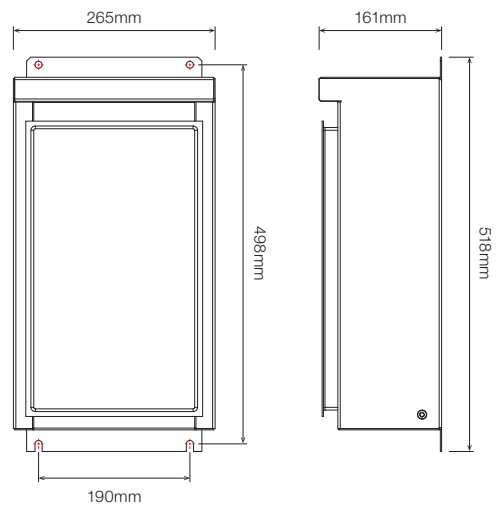
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

036AL Aluminium Enclosure



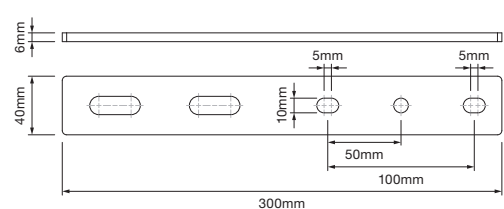
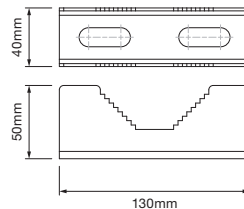
093SS Stainless Steel Enclosure



### 036AL Aluminium Enclosure Mounting Bracket

ACC-PMB-NB40-PL100-GAL

The U-Bolt pole mounting kit is specifically designed for mounting products using AL036 enclosure on a variety of poles that are widely used in the industry.



**NB40**

To fit NB40 pipe

**NB50**

To fit NB50 pipe

**NB65**

To fit NB65 pipe

**50X50**

To fit 50x50 RHS pipe

Download document below for more information  
<http://www.coolon.com.au/mounting-acc-pd>

## TECHNICAL SPECIFICATIONS

### Make/Model

Model	Emergency Pack AL	Emergency Pack SS
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### Electrical Characteristics

Power Consumption	<110W
Nominal Voltage	230VAC
Voltage Range	120 – 277VAC
Frequency Range	47 – 63Hz
Power Factor	>0.98 / 230VAC
Cable Gland Diameter	10 – 12mm
Charge Time	16 hours
Battery Type	LEAD CRYSTAL®
Battery Capacity	12V 7.2Ah / 20HR
Number of Batteries per Unit	2
Discharge Time	Over 2 hours

### Environmental Characteristics

IP Rating	IP66
Salt Spray Tested	Yes
Operating Temp. Range	0 to +50°C ***
Material Composition (Body)	LM6 Aluminium Alloy (<0.1% copper content)   Stainless Steel 316

### Weight/Packaging

Unit Dimensions	400 x 280 x 180mm	518 x 265 x 161mm
Unit Weight	10.2kg	14.3kg

### Warranty

Control Gear	3 Years
Batteries	2 Years

\*\*\*Units exposed to direct sunlight can reach temperatures above 50°C. Ensure in field units are shielded from direct sunlight.

## ORDERING EXAMPLE

**EMP - 724 - 036AL**

PRODUCT      TYPE      ENCLOSURE

PRODUCT	TYPE	ENCLOSURE
EMP    Emergency Pack	724    7AH 24VDC	036AL    LM6 Aluminium Alloy (<0.1% copper content)
		093SS    Stainless Steel 316



# EXTRA LOW VOLTAGE EMP KIT

**35W** Mobile Plant Emergency Lighting Kit



## LOW SUSCEPTIBILITY TO VIBRATION

The Emergency Pack is designed to handle continuous exposure to vibration. Designed specifically to be mounted away from the luminaire to minimize the weight of the luminaire and effects of mechanical shock and vibration.

**IP66**

## HIGH IP RATING - IP66

Coolon's Industrial Products are designed specifically to withstand the harsh conditions in mining environments. The robust design allows our units to be used in many different applications and are high pressure washable.



## EXTENSIVE FACTORY WARRANTY

Coolon Products are covered by a comprehensible manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



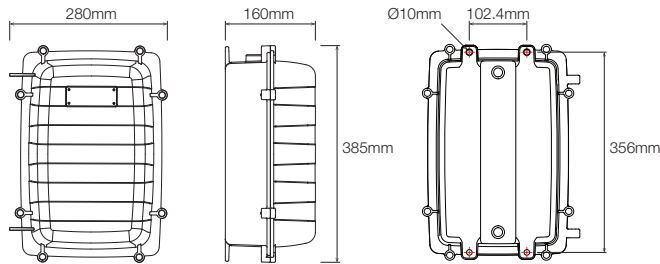
## PROUDLY MADE IN AUSTRALIA

Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

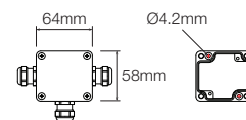


## DIMENSIONS

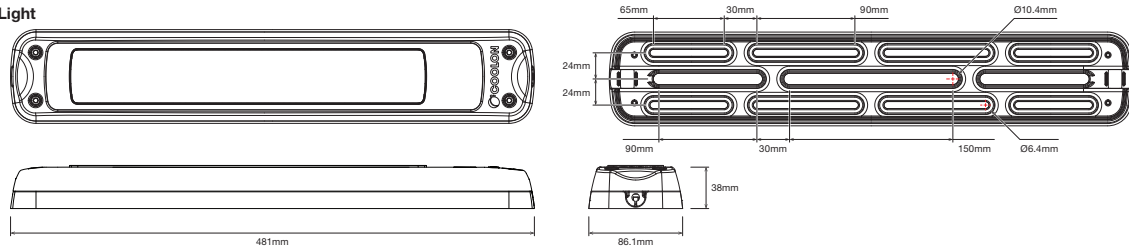
### Emergency Pack - Extra Low Voltage



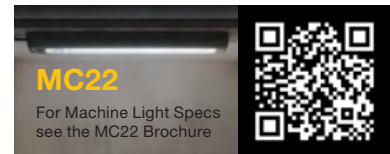
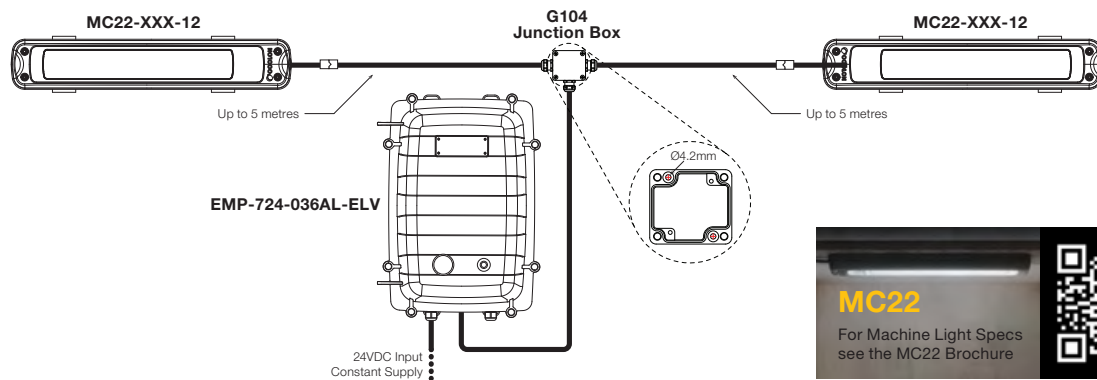
### Junction Box - G104



### Machine Light



## CONFIGURATION



## TECHNICAL SPECIFICATIONS (EMP-ELV)

<b>Product</b>	Emergency Pack Extra Low Voltage
<b>Model</b>	EMP-724-036AL-ELV
<b>Electrical Characteristics</b>	
<b>Power</b>	~35W at 24VDC
<b>Input</b>	20 – 29 VDC
<b>Cable Gland Diameter</b>	10 – 12mm
<b>Charge Time</b>	16 hours
<b>Battery Type</b>	LEAD CRYSTAL®
<b>Battery Capacity</b>	12V 7.2Ah / 20HR
<b>Number of Batteries per Unit</b>	2
<b>Environmental Characteristics</b>	
<b>IP Rating</b>	IP66
<b>Salt Spray Tested</b>	Yes
<b>Operating Temp. Range</b>	0 to +50°C ***
<b>Material Composition (Body)</b>	LM6 Aluminium Alloy (<0.1% copper content)

### Weight/Packaging (EMP)

<b>Unit Weight</b>	10kg
<b>Packaging Weight</b>	10.2kg
<b>Packaging Dimensions</b>	400 x 280 x 180mm

### Weight/Packaging (MC22)

<b>Packaging Weight</b>	1.6kg
<b>Packaging Dimensions</b>	500 x 90 x 50mm

### Weight/Packaging (Accessories)

<b>Packaging Weight</b>	2kg
<b>Packaging Dimensions</b>	285 x 285 x 140mm

### Warranty

<b>Control Gear</b>	3 Years
<b>Batteries</b>	2 Years

\*\*\*Units exposed to direct sunlight can reach temperatures above 50°C. Ensure in field units are shielded from direct sunlight.

## ORDERING EXAMPLE

### EMP - ELV - 2 - WWT - KIT

PRODUCT SUPPLY OPTION LUMINAIRE COLOUR TEMP COMBO TYPE

PRODUCT	SUPPLY OPTION	LUMINAIRE SUPPLIED	COLOUR TEMP	COMBO TYPE
EMP	ELV Extra Low Voltage	2 2 x MC22 units	WWT Warm White AMB Amber	KIT See Kit Items for inclusions

## EMP-ELV-2-XXX-KIT ITEMS

KIT	UNIT SUPPLIED	DESCRIPTION
KIT	1 x EMP-724-036AL-ELV	Mobile Plant Emergency Pack, 24VDC Input, 036AL Enclosure, Extra Low Voltage
	2 x MC22-XXX-12	Machine Light LED Luminaire, 20W, 12V
	2 x ACC-MC22-LOOM-5-DT062S	MC22 extension loom, 5m long, fitted with DT06-2S connector
	1 x ACC-EM-LOOM	EM Loom with molded connector, 3 Core, 3.5m
	1 x G104BK-MC-HV-3M16	3 Way Junction Box



 **COOLON**

[www.coolon.com.au](http://www.coolon.com.au)