



 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.

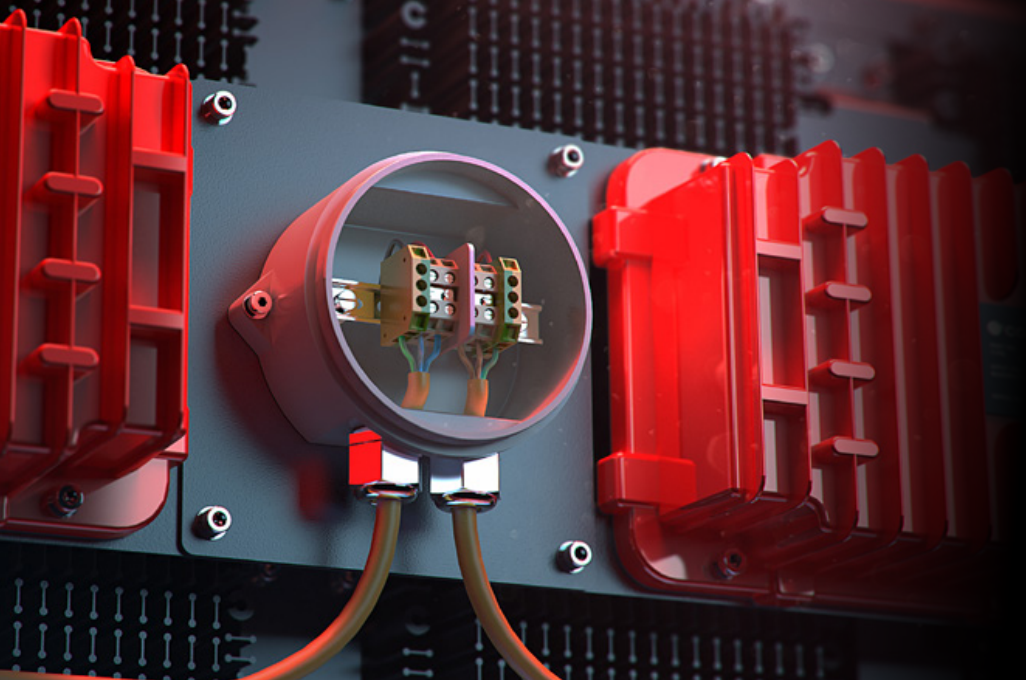
#### Designed for use in:

- 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.

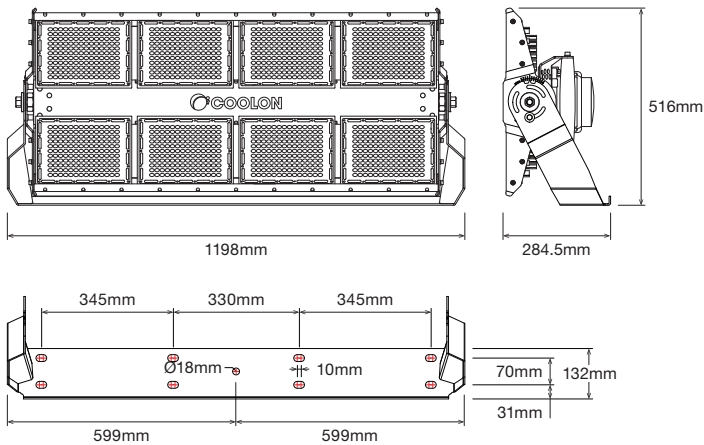


## PROUDLY MADE IN AUSTRALIA

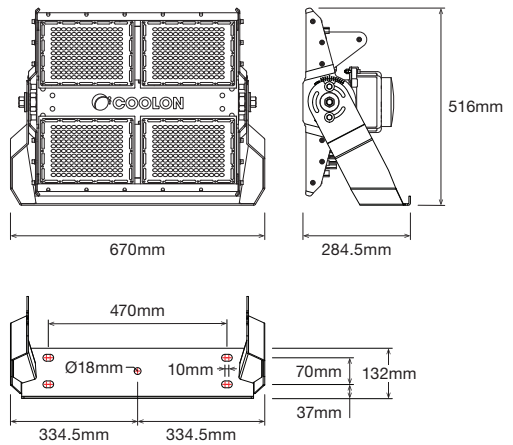
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

## DIMENSIONS

### XBLADE™ 960

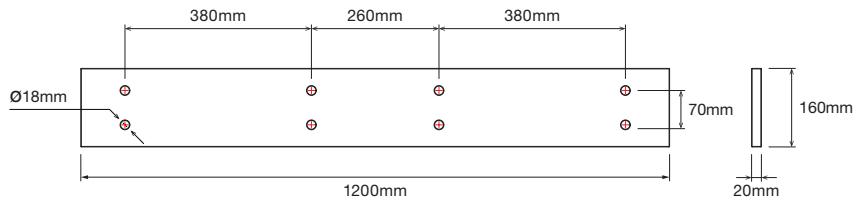


### XBLADE™ 480



## ACCESSORIES

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



## TECHNICAL SPECIFICATIONS

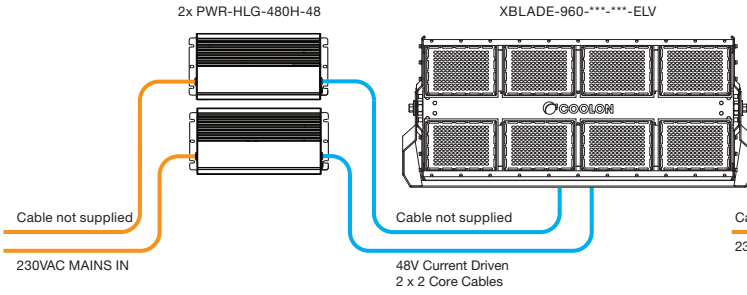
Product	XBLADE LED Flood Light	
Model	XBLADE™ 960	XBLADE™ 480
<b>Optical Characteristics</b>		
Luminous Flux (Photometered)	117,067 – 128,228 lm	58,534 – 64,114 lm
Luminous Flux (LED Lumens)	129,600 lm	64,800 lm
CCT	CWT / NWT / WWT	
CRI	>70 excluding amber	
<b>Electrical Characteristics (MP Luminaire)</b>		
Power Consumption	960W	480W
Nominal Voltage	230VAC	
Voltage Range	180 – 528VAC / 254VDC – 747VDC	
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
Driver Output	2x10A max 48VDC max	10A max 48VDC max
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. 4mm <sup>2</sup> cable is recommended for 30m extension.	
<b>Electrical Characteristics (RPS Power Supply)</b>		
Part Number	PWR-HLG-480H-48	
Output Power	480W	
Nominal Input Voltage	230VAC	
Input Voltage Range	90 – 305VAC / 127 – 431VDC	
Frequency Range (AC)	47 – 63Hz	
Power Factor	≥0.97 / 230VAC	
Leakage Current	<0.75mA / 277VAC	

<b>Sail Area</b>			
AS4 Optics	<b>MP</b>	0.244m <sup>2</sup> (approx.)	0.140m <sup>2</sup> (approx.)
Horizontal Orientation	<b>ELV</b>	0.195m <sup>2</sup> (approx.)	0.115m <sup>2</sup> (approx.)
MEDIUM / OVAL Optics	<b>MP</b>	0.970m <sup>2</sup> (approx.)	0.614m <sup>2</sup> (approx.)
Vertical Orientation	<b>ELV</b>	0.970m <sup>2</sup> (approx.)	0.614m <sup>2</sup> (approx.)
<b>Environmental</b>			
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		
<b>Weight/Packaging</b>			
Luminaire Weight (MP-WVR)	34kg	19.1kg	
Luminaire Weight (RPS)	25kg	14.6kg	
Bracket Weight	9kg	6.7kg	
Luminaire Dimensions	<b>W</b> 1093mm <b>H</b> 495mm <b>D</b> 235mm	<b>W</b> 670mm <b>H</b> 495mm <b>D</b> 235mm	
Packaging Dimensions	<b>W</b> 1260mm <b>H</b> 560mm <b>D</b> 340mm	<b>W</b> 710mm <b>H</b> 560mm <b>D</b> 310mm	
Packaged Weight (MP-WVR)	50kg	30kg	
Packaged Weight (RPS)	47kg	29.5kg	
<b>Warranty</b>			
Warranty	3 years warranty as standard 5 years extended warranty optional		

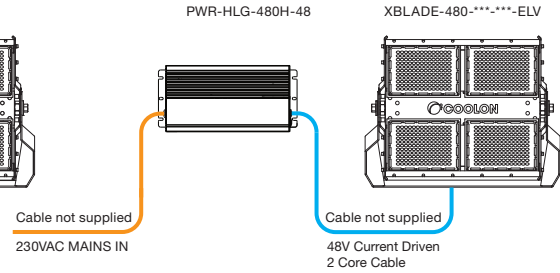


## REMOTE POWER SUPPLY CONFIGURATION

### XBLADE - 960 - XXX - XXX - RPS



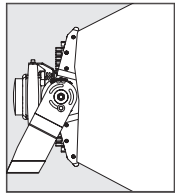
### XBLADE - 480 - XXX - XXX - RPS



Distance between the power supply and luminaire can be extended up to 30m. The voltage drop on the cable must not exceed 2V. 4mm<sup>2</sup> cable is recommended for 30m extension.

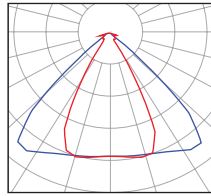
## ILLUMINANCE AT DISTANCE

### OVAL Beam Optics 60° x 100° cd/klm — C0 - C180 — C90 - C270



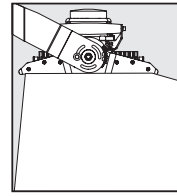
	480W	960W
4m	2417	4835
8m	604	1209
12m	267	537
16m	151	302
20m	97	193

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



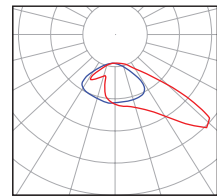
Polar Distribution

### AS4 Asymmetric Type 4 Optic cd/klm — C0 - C180 — C90 - C270



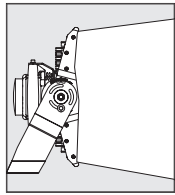
	480W	960W
4m	897	1794
8m	224	448
12m	100	199
16m	56	112
20m	36	72

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



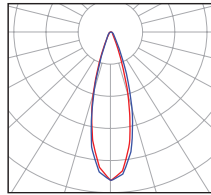
Polar Distribution

### MEDIUM Beam Optics 30° cd/klm — C0 - C180 — C90 - C270



	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

## 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 hood 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	RPS* Remote Power Supply	
		WWT Warm White	AS4 Asymmetric Type 4 Optic		

\* Refer to KIT OPTIONS for details

<sup>2</sup> Dark Sky Hood (DS) only available for XBLADE™ 480 Warm White LEDs (WWT)

## KIT ITEMS

PART #	DESCRIPTION
XBLADE-***-***-***-ELV	XBLADE™ Luminaire, Extra Low Voltage
PWR-HLG-480H-48*	MeanWell 480W Constant Voltage + Constant Current LED Driver

\* XBLADE-960 requires 2 power supplies as per remote power supply diagram above

## ASSOCIATED PRODUCTS

PART #	DESCRIPTION
ACC-BCP-BC400-PL330-MS	Optional Beam Coupling Plate for XBLADE™ 960