

## COOLON XBLADETM

480W/960W LED Flood Light

## High performing flood light for large areas

Our most powerful and robust flood light that provides wider surface coverage without losing intensity or quality of light. Resistant to corrosion, impacts and vibration.

The XBLADE<sup>™</sup> 480 is also available in Dark Sky compliant version.

### Designed for use in:

- . High Mast
- Stacker / Reclaimers .
- Crushers •
- Draglines .
- Stock Piles
- Truck Parking
- Switching Yards .
- Hard Stand Areas
- Loading Docks
- Ports/Wharf
- Security Perimeter Workshops •
- ROM Pads
- .
- Sports Grounds

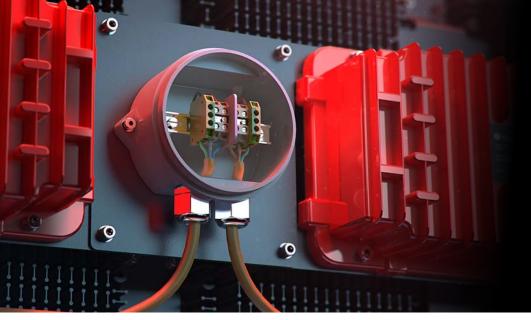




# Built for application

The XBLADE<sup>™</sup> 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 mininggrade junction box that allows for easy inline 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.



## 5 YEARS FACTORY WARRANTY

Coolon luminaires are covered by a solid 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 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.



## 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.

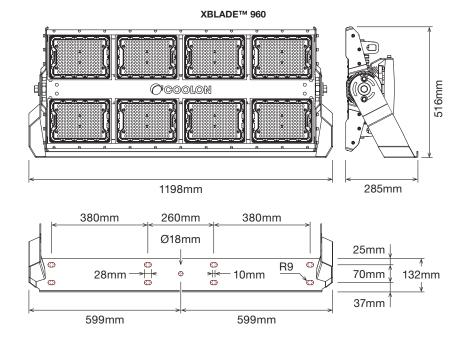
## 4

## PROUDLY MADE IN AUSTRALIA

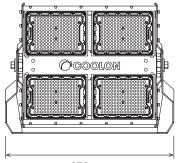
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

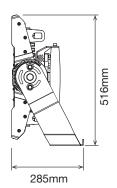


support@coolon.com.au aus. 1300 287 533 intl. +613 8681 3633 All documentation is subject to change without notice. Refer to our website for the latest information.

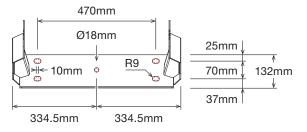


XBLADE™ 480



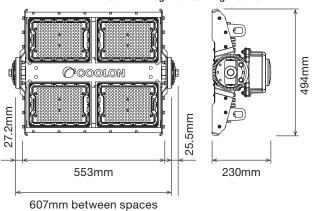


670mm



n

XBLADE<sup>™</sup> 480 with Dragline Mounting Bracket



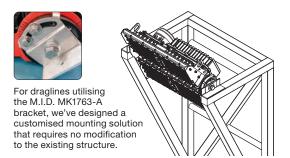
### DARK SKY COMPLIANCE

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.



#### DRAGLINE MOUNT BRACKET





### TECHNICAL SPECIFICATIONS

| Product                      | XBLADE LED Flood Light |                         |  |  |  |  |
|------------------------------|------------------------|-------------------------|--|--|--|--|
| Model                        | XBLADE™ 960            | XBLADE <sup>™</sup> 480 |  |  |  |  |
|                              |                        |                         |  |  |  |  |
| Optical Characteristics      |                        |                         |  |  |  |  |
| Luminous Flux (Photometered) | 117,067 – 128,228 lm   | 58,534 – 64,114 lm      |  |  |  |  |
| CCT                          | CWT / NWT / WWT / AN   | 1B                      |  |  |  |  |
| CRI                          | >70 excluding amber    |                         |  |  |  |  |

#### Electrical Characteristics (MP-WVR Luminaire)

| Power Consumption    | 960W              | 480W         |  |
|----------------------|-------------------|--------------|--|
| Nominal Voltage      | 230VAC            |              |  |
| Voltage Range        | 180 – 440VAC / 2  | 254 – 550VDC |  |
| Frequency Range (AC) | 47 – 63Hz         |              |  |
| Power Factor         | ≥0.98 / 230VAC    |              |  |
| Surge Protection     | 2kV line-line, 4k | / line-earth |  |

#### Electrical Characteristics (RPS Luminaire)

| Power Consumption | 960W            | 480W  |
|-------------------|-----------------|---|
| Voltage Input     | 2x 170 ± 10 VDC | 170 ± 10 VDC  |
| Cable Extension   |                 | e power supply and luminaire o 100m using 1.5mm <sup>2</sup> cable. |

#### Electrical Characteristics (RPS230 Power Supply)

| Model Part Number | PWR-CLN-600-CC2800-381AL-MP230-XBLADE                     |
|-------------------|---|
| Voltage Range     | 100 – 277VAC / 127 – 250VDC                               |
| Frequency Range   | 47 – 63Hz   |
| Power Factor      | 0.95  |
| Leakage Current   | <0.7mA IEC 60598-1; 230V / 60Hz;<br>Grounding effectively |
| Surge Protection  | 6kV line-line, 10kV line-earth                            |

#### Electrical Characteristics (RPS415 Power Supply)

| Model Part Number | PWR-CLN-600-CC2800-381AL-MP415-XBLADE                     |
|-------------------|---|
| Voltage Range     | 249 - 440VAC / 352 - 500VDC                               |
| Frequency Range   | 47 – 63Hz   |
| Power Factor      | 0.95  |
| Leakage Current   | <0.7mA IEC 60598-1; 230V / 60Hz;<br>Grounding effectively |
| Surge Protection  | 6kV line-line, 10kV line-earth                            |

#### Inrush and Leakage Currents 234

| Product                      | 480-MP-WVR   | 480-RPS230   | 960-MP-WVR | 960-RPS230   |
|------------------------------|--------------|--------------|------------|--------------|
| Peak Inrush Current (A) @230 | 12.4         | 10.2         | 24.8       | 20.4         |
| twidth (ms)                  | 2.2          | 3.8          | 2.2        | 3.8          |
| I²t (A²s)                    | 0.38         | 0.44         | 1.52       | 1.76         |
| Leakage Current              | < 1.5 @ 230V | < 0.7 @ 230V | < 3 @ 230V | < 1.4 @ 230V |

Sail Area

Vertical Orientation

Environmental IP Rating

IK Rating

Horizontal Orientation

Operating Temp. Range Thermal Management Type

Material Composition (Body)

Material Composition (Optics)

Material Composition (Bracket)

Expected Lifespan

Weight/Packaging Luminaire Weight (MP-WVR)

(excluding bracket weight) Luminaire Weight (RPS)

(excluding bracket weight) Bracket Weight

Luminaire Dimensions

Packaging Dimensions

Packaged Weight (RPS)

Weight / Packaging

Power Supply Weight

Packaging Dimensions

Packaged Weight

Weight / Packaging

Power Supply Weight

Packaging Dimensions Packaged Weight

Warranty Warranty

Packaged Weight (MP-WVR)

XBLADE™ 960

0.245m<sup>2</sup> (approx.)

0.195m<sup>2</sup> (approx.)

-20°C to +50°C

Active / Continuous

Stainless Steel 316

50,000 Hours to 70% Brightness

High Purity Cold Forged Aluminium

MP/ELV 0.550m<sup>2</sup> (approx.)

IP66

IK09

PC

34kg

25kg

9kg

**W** 1093mm

H 495mm

**D** 235mm

H 560mm

**D** 340mm

50kg

47kg

7.1ka

7.4kg

7.1kg

7.4kg

**W** 1260mm

MP

ELV

XBLADE<sup>™</sup> 480

0.290m<sup>2</sup> (approx.)

0.140m<sup>2</sup> (approx.)

0.113m<sup>2</sup> (approx.)

19.1kg

14.6kg

6.7kg

**W** 670mm

H 495mm

**D** 235mm

**W** 710mm

H 560mm

**D** 310mm

30kg

PWR-CLN-600-CC2800-381AL-MP230-XBLADE

PWR-CLN-600-CC2800-381AL-MP415-XBLADE

W 350mm H 130mm D 230mm

W 350mm H 130mm D 230mm

5 years warranty as standard

29.5kg

#### Maximum number of luminaires per MCB @ 230V 5

| inter-time interior |   |   |   |   |  |  |
|---------------------|---|---|---|---|--|--|
| B16                 | 4 | 4 | 2 | 2 |  |  |
| C16                 | 5 | 5 | 2 | 2 |  |  |
| D16                 | 5 | 5 | 2 | 2 |  |  |

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

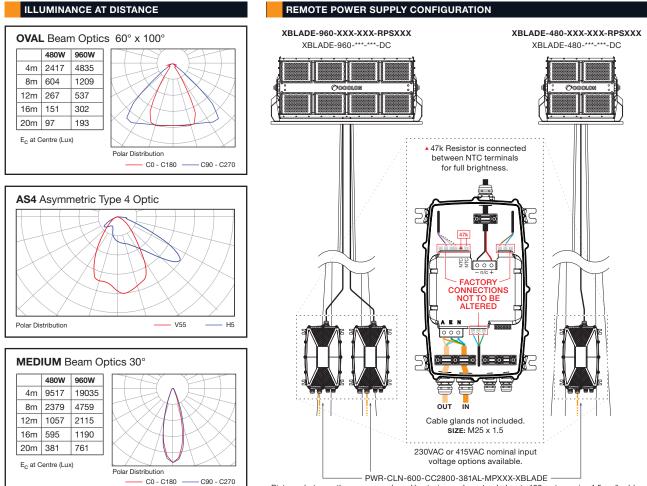
<sup>2</sup> Note: At 230VAC input, 25°C cold start, 10%lpk-10%lpk.

<sup>3</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

Number of Luminaires is subject to relative MCB properties, assuming a 30mA leakage current limit and MCB steady state current load not exceeding 60%, 70% and 80% for the B, C, D type MCB respectfully.

<sup>5</sup> Maximum Number of Luminaires per MCB @230 VAC Based on the Operating Current of the Variant.





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

ORDERING EXAMPLE

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

| PRODUCT | TYPE | COLOUR TEMP | OPTICS | SUPPLY OPTION |
|---------|------|-------------|--------|---------------|
|         |      |             |        |               |

| PRODUCT | TYPE | COLO | OUR TEMP      | OPTICS |                         | SUPPLY OPTION |   | EXTRA OPTIONS |                            |
|---------|------|------|---------------|--------|-------------------------|---------------|---|---------------|----------------------------|
| 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           | RPS2301       | Remote Power Supply, 230VAC nominal input voltage | DLM           | Dragline Mount Bracket 3   |
|         |      | WWT  | Warm White    | AS4    | Asymmetric Type 4 Optic | RPS4151       | Remote Power Supply, 415VAC nominal input voltage | MPB           | Mobile Plant Bracket 3     |
|         |      | 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)

<sup>3</sup> Dragline Mount Bracket / Mobile Plant Bracket only available for XBLADE<sup>™</sup> 480

| KIT OPTIONS |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|
| кіт         | PART #                                 | DESCRIPTION  |  |  |  |  |
| RPS230      | XBLADE-***-***-DC                      | XBLADE™ Luminaire, Low Voltage DC Supply**   |  |  |  |  |
|             | PWR-CLN-600-CC2800-381AL-MP230-XBLADE* | Coolon Industrial Power Supply 600W IP66, 2.8A constant current, 230VAC nominal input voltage,<br>10kV protection in 381 Aluminium Enclosure, for use with XBLADE-RPS luminaire. |  |  |  |  |
| RPS415      | XBLADE-***-***-DC                      | XBLADE™ Luminaire, Low Voltage DC Supply**   |  |  |  |  |
|             | PWR-CLN-600-CC2800-381AL-MP415-XBLADE* | Coolon Industrial Power Supply 600W IP66, 2.8A constant current, 415VAC nominal input voltage,<br>10kV protection in 381 Aluminium Enclosure, for use with XBLADE-RPS luminaire. |  |  |  |  |

\* KITS using AMB will use PWR-CLN-480-CC3400-381AL-MP230-XBLADE / PWR-CLN-480-CC3400-381AL-MP415-XBLADE

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

