



140W LED Flood Light

Robust and efficient flood light designed for retrofit applications

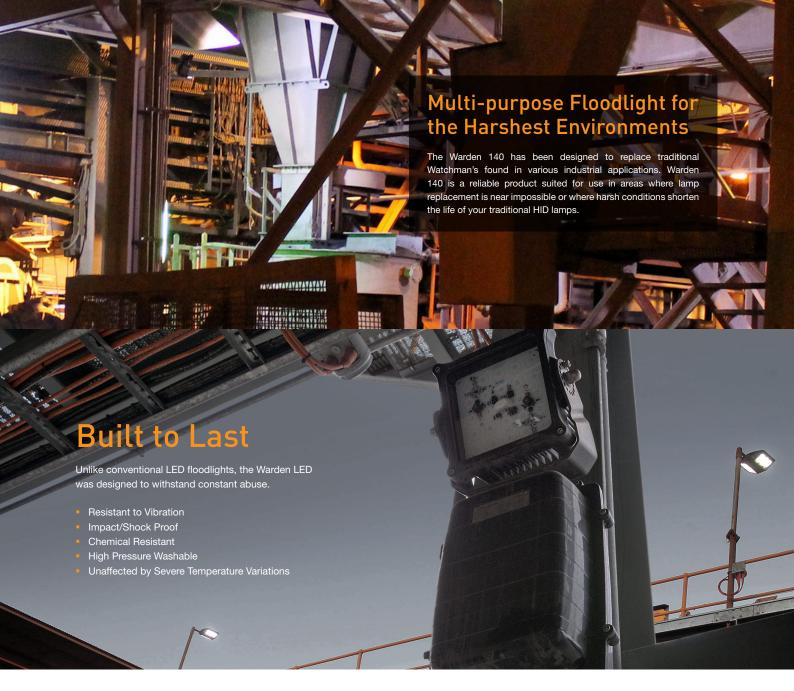
The Warden LED was designed and developed to replace existing halogen/xenon work lights fitted on mining and industrial equipment. The high power LED luminaire provides superior luminous output in a compact size enclosure.

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.

## Designed for use in:

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







#### **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.



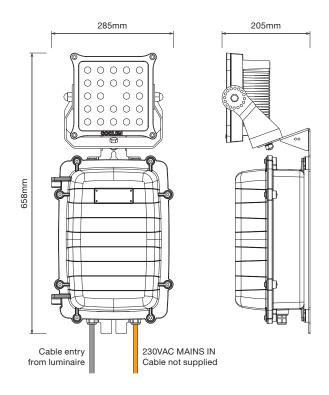
#### **PROUDLY MADE IN AUSTRALIA**

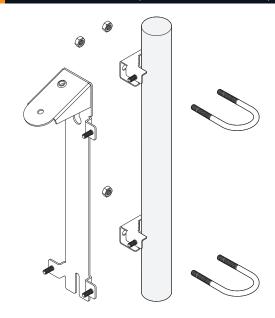
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.



## DIMENSIONS

# EASY POLE INSTALLATION (USING U-BOLT MOUNTING KIT\*)





## MOUNTING BRACKET (INCLUDED)



#### TECHNICAL SPECIFICATIONS

Make/Model	WARDEN LED Flood Light	
Model	WDN-140	
Optical Characteristics		
Luminous Flux (Photometered)	12,931 – 18,053 lm	
CCT	CWT / WWT	
CBI	> 70	

#### Electrical Characteristics (Luminaire & Power Supply)

•	** **
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
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

Inrush	and	Leakage	Currents	245

Peak Inrush Current (A) @230V	45.2
Duration - twitdth (ms)	1.8
I²t (A²S)	4.14
Leakage Current (mA)	<0.75mA @ 230V / 60Hz

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

B16	1
C16	2
D16	5

#### 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 option.

<sup>&</sup>lt;sup>5</sup> 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.



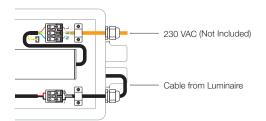
<sup>&</sup>lt;sup>1</sup> Optical and electrical characteristics are measured using Cool White LEDs (CWT)

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

<sup>&</sup>lt;sup>4</sup> Note: At 230VAC input, 25°C cold start, 10%lpk-10%lpk.

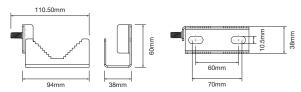
## WIRING DIAGRAM



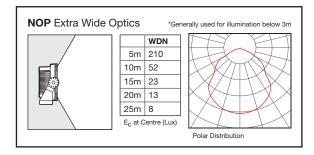
## U-BOLT MOUNTING KIT3 (OPTIONAL EXTRA)

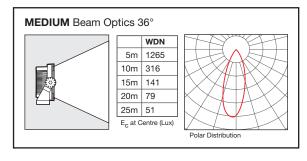
# Optional U-Bolt Pole Mounting Kit x 2

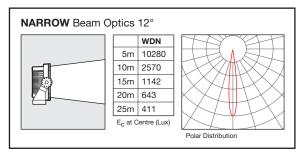
Available to fit DN40 or DN50 pipe. Please refer to industrial accessories brochure for more details. visit coolon.com.au to download

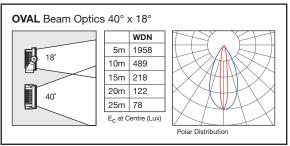


# WDN-140 ILLUMINANCE AT DISTANCE









# ORDERING EXAMPLE



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	