

 **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.

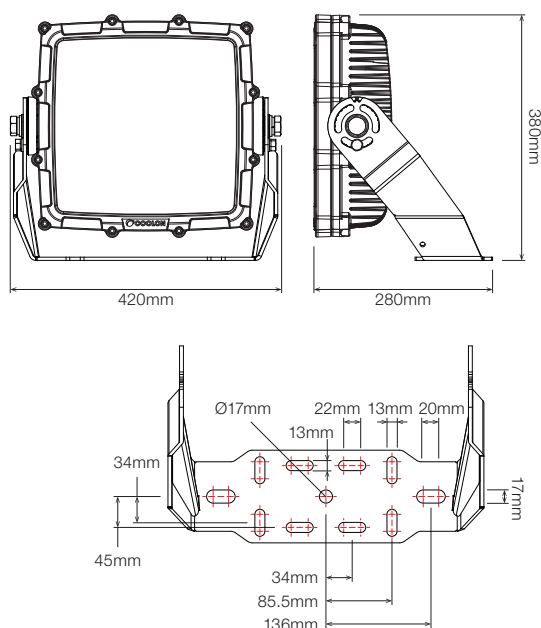


PROUDLY MADE IN AUSTRALIA

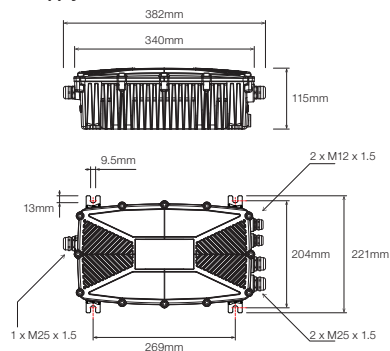
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

DIMENSIONS

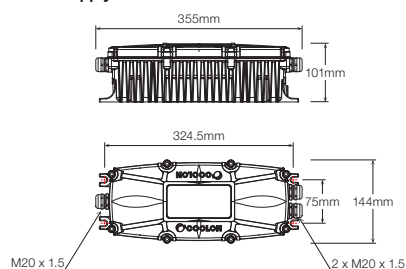
HT66 Luminaire with Fixed Plant Bracket



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) ¹	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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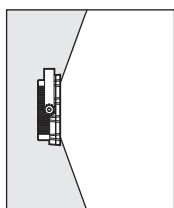
Optical and electrical characteristics are measured using Neutral White LEDs (NWT) Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

¹ Power consumption ramps down as the luminaire approaches steady state work conditions.

ILLUMINANCE AT DISTANCE

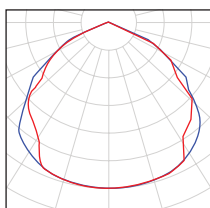
NOP Extra Wide Beam

*Generally used for illumination below 5m



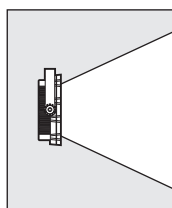
	320W	470W
2m	2,971	3,930
4m	743	982
6m	330	437
8m	186	246
10m	119	157
20m	30	39
30m	13	17

E_c at Centre (Lux)



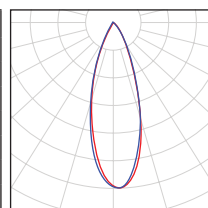
Polar Distribution

MEDIUM Beam Optics



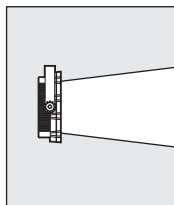
	320W	470W
2m	19,481	25,769
4m	4,870	6,442
6m	2,165	2,863
8m	1,218	1,611
10m	779	1,031
20m	195	258
30m	87	115

E_c at Centre (Lux)



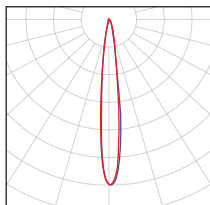
Polar Distribution

NARROW Beam Optics



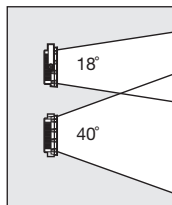
	320W	470W
2m	112,960	149,423
4m	28,240	37,356
6m	12,551	16,603
8m	7,060	9,339
10m	4,518	5,977
20m	1,130	1,494
30m	502	664

E_c at Centre (Lux)



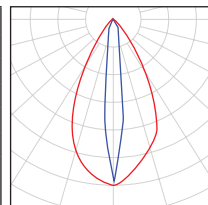
Polar Distribution

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_c 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 - RPS230²

PRODUCT

POWER

COLOUR TEMPERATURE

OPTICS

SUPPLY OPTION

PRODUCT	POWER	COLOUR TEMPERATURE	OPTICS	SUPPLY OPTION ¹
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 - RPS³

PRODUCT

POWER

COLOUR TEMPERATURE

OPTICS

SUPPLY OPTION

PRODUCT	POWER	COLOUR TEMPERATURE	OPTICS	SUPPLY OPTION ²
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 ²	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 ²	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 ³	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-20	Cable, 2C*14AWG, 2C*20AWG, Red, Black, White and Blue Conductors, Black Circular Jacket, 105°C 300V PVC/PVC, 8.5mm OD, 20 meters
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

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

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