



 COOLON

HT66

470W/320W High Tower LED Flood Light

High performance flood light designed specifically for high mast lighting towers

The high lumen output and narrow beam optics of the HT66 allows a single tower to illuminate extremely large areas. The power supply unit can be positioned up to 50m from the luminaire for easy maintenance.

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.

Designed for use in:

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

 DESIGNED &
MANUFACTURED
IN AUSTRALIA



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.

**5
YEARS**

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.

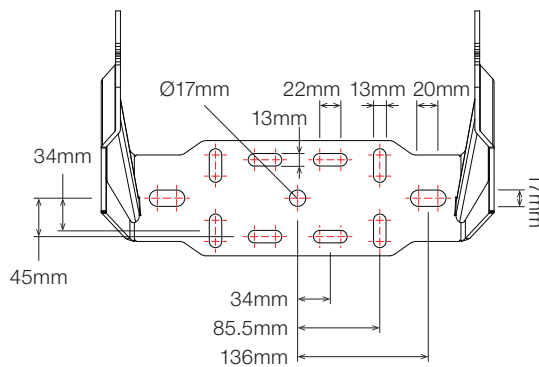
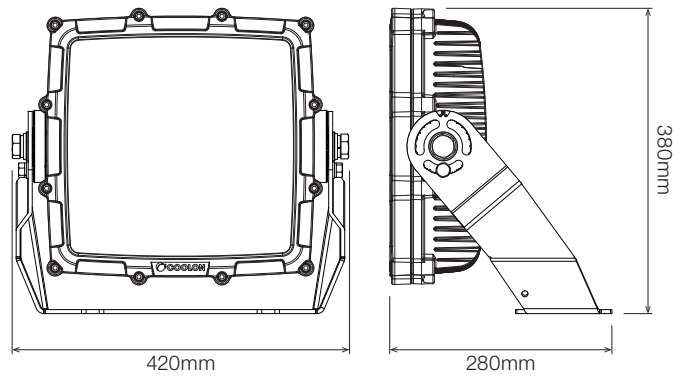


PROUDLY MADE IN AUSTRALIA

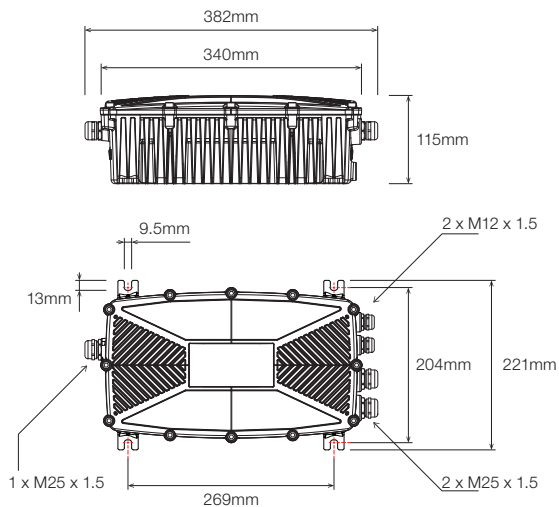
Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

DIMENSIONS

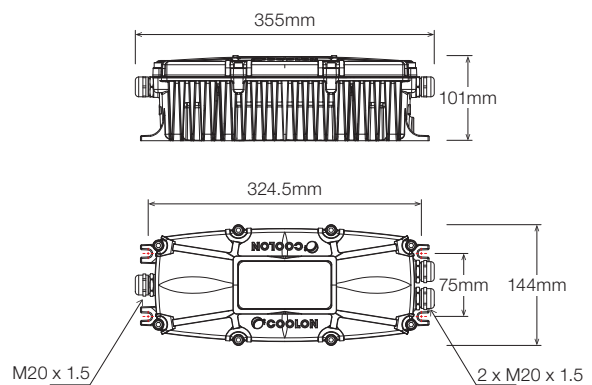
HT66 Luminaire with Fixed Plant Bracket



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

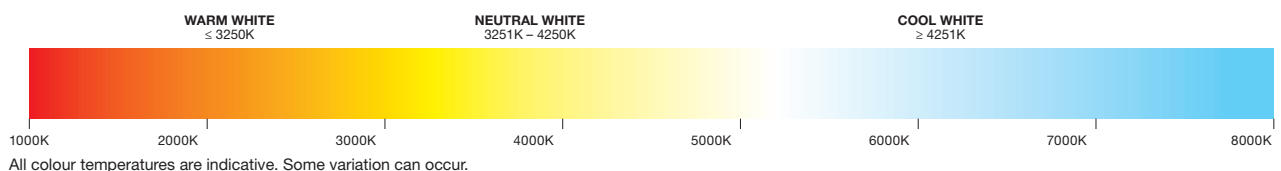


Remote Power Supply - PWR-CLN-320-CC1750-281AL-MP



NOTE: Power Supply enclosures not fitted with cable glands

COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

TECHNICAL SPECIFICATIONS

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

Optical Characteristics

Luminous Flux (Photometered)	43,072 – 51,664 lm ¹	32,562 – 39,056 lm ¹
CCT	AMB / WWT / NWT / CWT	
CRI	>70 excluding amber	

Electrical Characteristics (Luminaire & Power Supply)

Typical Power Consumption	470W	320W
Max Power Consumption (Cold Start) ²	560W	340W
Cable Type	UL2517, 20AWG x 2C + 14AWG x 2C, Braid Shielded Cable, PVC Insulation, 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 the recommended extension cable. See ACCESSORIES section for details.	

Inrush and Leakage Currents^{3 4 5}

Peak Inrush Current (A) @230V	10.8	11.4
Duration - twitdth (ms)	4	2.2
I _{pt} (A ² S)	0.52	0.32
Leakage Current (mA)	<0.75mA @ 230V / 60Hz	<0.75mA @ 230V / 60Hz

Maximum number of luminaires per MCB @ 230V

B16	3	5
C16	4	7
D16	5	8

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

Sail Area

Vertical Orientation	0.123m ² (approx.)
Horizontal Orientation	0.077m ² (approx.)

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	HT66
Bracket Weight	12kg
Packaging Dimensions	3kg
Packaged Weight	W 560mm H 440mm D 310mm
Packaged Weight	16kg

Weight/Packaging

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

Weight/Packaging

Power Supply Weight	PWR-CLN-320-CC1750-281AL-MP
Packaging Dimensions	5kg
Packaged Weight	W 350mm H 155mm D 125mm
Packaged Weight	5.2kg

Warranty

Warranty	5 years warranty as standard
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Optical and electrical characteristics are measured using Neutral White LEDs (NWT)

¹ Luminous Flux (Photometered) excludes Amber.

² Power consumption ramps down as the luminaire approaches steady state work conditions.

³ Note: At 230VAC input, 25°C cold start, 10%lpk-10%lpk.

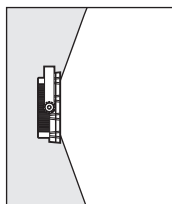
⁴ Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25°C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.

⁵ 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 respectively.

ILLUMINANCE AT DISTANCE

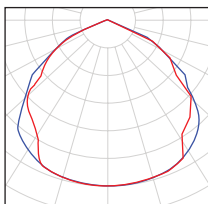
NOP Extra Wide Beam

*Generally used for illumination below 5m



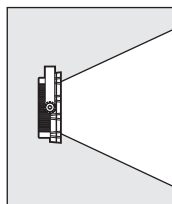
	320W	470W
2m	2,971	3,930
4m	743	982
6m	330	437
8m	186	246
10m	119	157
20m	30	39
30m	13	17

E_c at Centre (Lux)



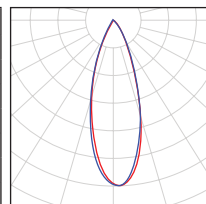
Polar Distribution

MEDIUM Beam Optics



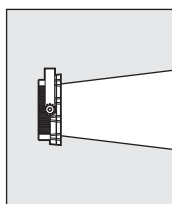
	320W	470W
2m	19,481	25,769
4m	4,870	6,442
6m	2,165	2,863
8m	1,218	1,611
10m	779	1,031
20m	195	258
30m	87	115

E_c at Centre (Lux)



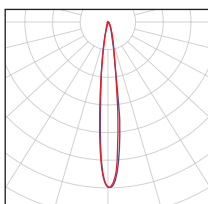
Polar Distribution

NARROW Beam Optics



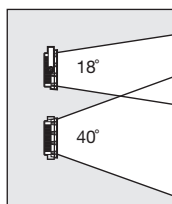
	320W	470W
2m	112,960	149,423
4m	28,240	37,356
6m	12,551	16,603
8m	7,060	9,339
10m	4,518	5,977
20m	1,130	1,494
30m	502	664

E_c at Centre (Lux)



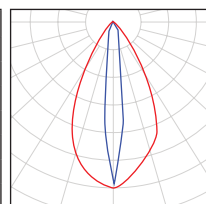
Polar Distribution

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

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	WWT Warm White	NOP Extra Wide Beam	RPS230 Remote Power Supply, 230VAC nominal input voltage
		NWT Neutral White	NARROW Narrow Beam	RPS415 Remote Power Supply, 415VAC nominal input voltage
		CWT Cool White	MEDIUM Medium Beam	
		AMB Amber	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	WWT Warm White	NOP Extra Wide Beam	RPS Remote Power Supply, for 320W unit
		NWT Neutral White	NARROW Narrow Beam	
		CWT Cool White	MEDIUM Medium Beam	
		AMB Amber	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, Braid Shielded Cable, 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, Braid Shielded Cable, 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, Braid Shielded Cable, 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, Braid Shielded Cable, 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