



 COOLON

IBYS

160W/240W LED High Bay

Industrial high bay LED light for warehouses

The IBYS is a universally compatible highbay light that's small, lightweight, efficient and powerful. Featuring precision optics designed for installations with 12m+ mounting heights.

IBYS was designed as a more efficient replacement for most industry-standard gas discharge lamp-based high bays of up to 250W. For additional power and performance, the IBYS 240 is also available.

The incredibly sleek yet robust design of the IBYS allows it to be used in a variety of applications, from warehouses to retail stores and public spaces.

Designed for use in:

- Warehouses
- Public Spaces
- Retail Stores
- Sports Halls



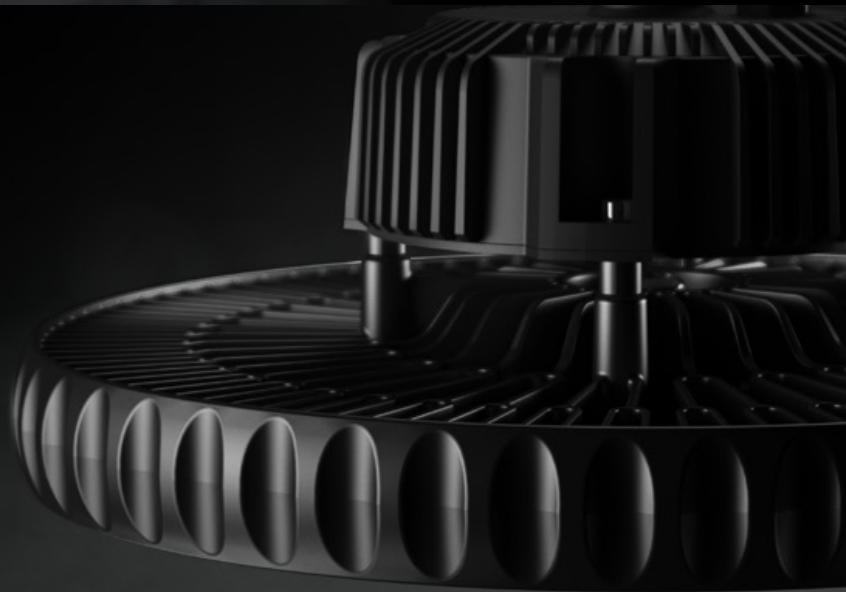


Fast Payback, Instant Results

IBYS can be used in warehouses, sports facilities, retail stores and many other applications. No matter what the use is, IBYS installations result in reduced energy bills and maintenance, and a short payback period.

Engineered to Perfection

High intensity light output. Over 100 lm/W efficiency. Low power consumption. Long life endurance. IBYS is everything you could possibly wish for in a high bay.



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 prolongs the lifespan of the luminaire.



NO FLICKERING

LED luminaires run on constant low voltage DC power and do not produce any visible stroboscopic effects. This reduces strain on the eyes and significantly improves safety in areas where moving machinery is present.



UNRESTRICTED BURNING POSITION

Coolon's LED luminaires can be positioned and oriented in any direction without affecting the lifespan of the product. This provides greater flexibility when it comes to aiming angles and orientation.



3 YEARS FACTORY WARRANTY

Coolon luminaires are covered by a 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 have a warm up period. Instant on to 100% output translates to no downtime, improved safety and the ability to utilize sensor switching to significantly reduce energy usage.



LONG USEFUL OPERATING LIFE

At Coolon we believe the lifetime of a luminaire is so much more than just the LED's. Coolon product lifetime takes the entire luminaire into consideration and each product is backed by a comprehensive warranty – that's the Coolon confidence.



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.



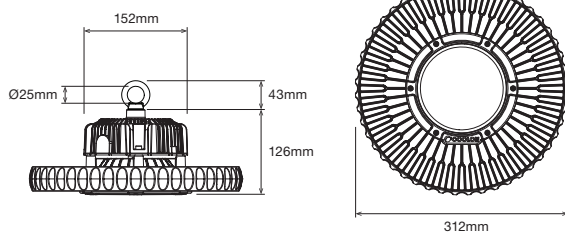
PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using the best quality components and highly skilled labour, each luminaire is thoroughly tested to ensure excellence in performance.

DIMENSIONS

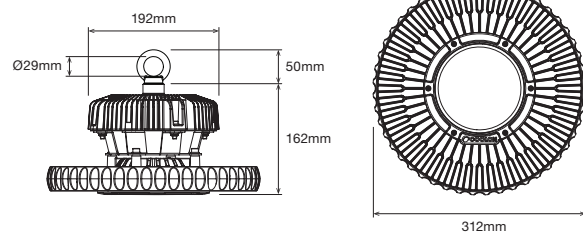
IBYS 160W

Hook Mounted (HKM)



IBYS 240W

Hook Mounted (HKM)



TECHNICAL SPECIFICATIONS

Product	IBYS LED High Bay	
Model	IBYS 160	IBYS 240
Optical Characteristics		
Luminous Flux (Photometered)	14,305 – 18,380 lm	18,159 – 24,988 lm
CCT	CWT / NWT / WWT	
Electrical Characteristics (Luminaire & Power Supply)		
Power Consumption	160W at 25°C	240W at 25°C
Nominal Voltage	230VAC	
Voltage Range	90 – 305VAC / 127 – 431VDC	
Frequency Range	47 – 63Hz	
Power Factor	>0.95 / 230VAC	
Leakage Current	<0.75mA / 277VAC	
Cable Type	Standard 3 Core Flex w/ Molded 3 pin AU Plug	
Cable Length	1.5m	
Environmental		
IP Rating	IP66	
Operating Temp. Range	-20 to +55°C	
Thermal Management Type	Active/Continuous	
Expected Lifespan	50,000 Hours to 70% Brightness	
Material Composition (Body)	Aluminium Alloy	
Material Composition (Cover)	Polycarbonate	

	IBYS 160		IBYS 240	
Weight/Packaging	Luminaire	Packaged	Luminaire	Packaged
IBYS-HKM	4.2kg	5.6kg	5.6kg	7kg
IBYS-SWB	4.5kg	5.9kg	N/A	N/A
Packaging Dimensions	360 x 360 x 300mm			

Compliance (Safety Standards)

AS/NZS60598.1	Luminaires - General Requirements and Tests
AS/NZS 60598.2.1	Luminaires - Particular requirements - Fixed general purpose luminaires
UL 1598 and CSA C22.2 No. 250.0-08	Luminaires
UL 8750	Standard for Light Emitting Diode (LED) Equipment for use in Lighting Products

Compliance (EMC)

AS/NZS CISPR15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
FCC Part 15 Subpart B	Class B limits
ANSI C63.4-2009	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz
Industry Canada ICES-003	Information Technology Equipment (ITE) – Limits and Methods of Measurement, Issue 5, Aug 2012
CAN/CSA-CE/IEC CISPR22-02	Limits and methods of measurement of Radio Disturbance Characteristics of Information Technology Equipment

Warranty

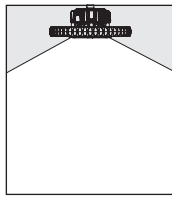
Warranty	3 years warranty as standard 5 years extended warranty optional
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¹ Optical and electrical characteristics are measured using Cool White LEDs (CWT)

² 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.

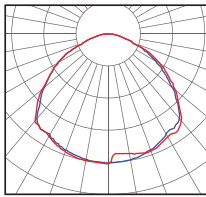
ILLUMINANCE AT DISTANCE

NOP Extra Wide Optics



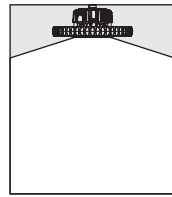
	160	240
3m	598	871
4m	329.80	480
6m	143.80	209
8m	80.10	116
10m	51	74
12m	35.30	51

E_c at Centre (Lux)



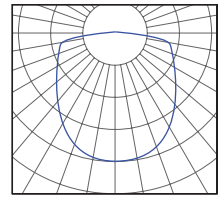
Polar Distribution

DM1 Dome Diffuser



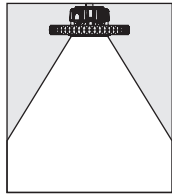
	160	240
3m	315	442
4m	173	243
6m	75	106
8m	42	59
10m	26	37
12m	18	26

E_c at Centre (Lux)



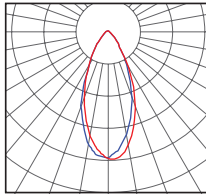
Polar Distribution

MEDIUM Beam Optics 65°



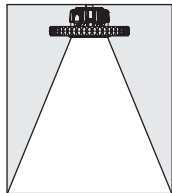
	160	240
3m	2782	3754
4m	1534	2070
6m	668.70	902
8m	372.50	502
10m	237	319
12m	164	221

E_c at Centre (Lux)



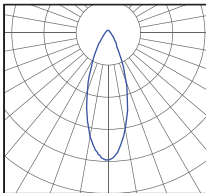
Polar Distribution

NARROW Beam Optics 30°



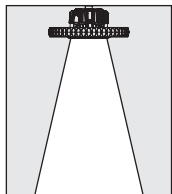
	160	240
3m	4562	6866
4m	2516	3787
6m	1097	1650
8m	610	919
10m	388	585
12m	268	404

E_c at Centre (Lux)



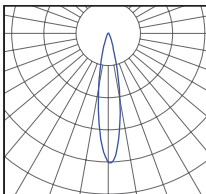
Polar Distribution

SPOT Beam Optics 15°



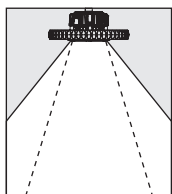
	160	240
3m	9420	20356
4m	5195	11227
6m	2136	4893
8m	1190	2726
10m	757	1735
12m	523	1200

E_c at Centre (Lux)



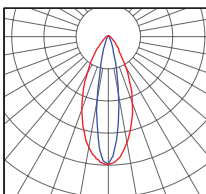
Polar Distribution

OVAL Beam Optics 44° x 18°



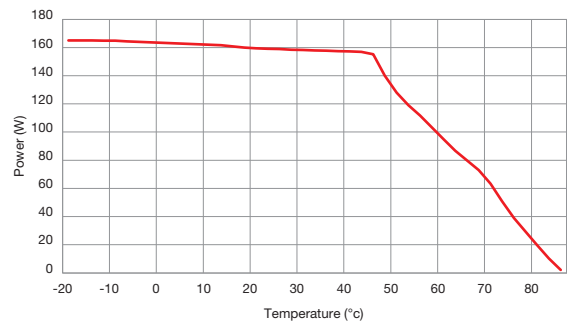
	160	240
3m	8887	11826
4m	4901	6522
6m	2136	2843
8m	1190	1584
10m	757	1008
12m	523	697

E_c at Centre (Lux)

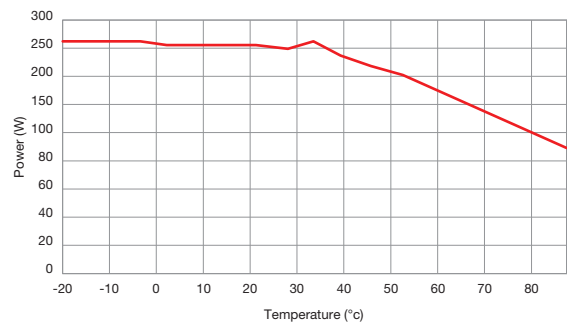


Polar Distribution

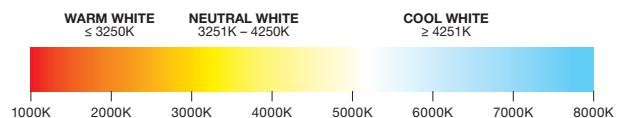
160W AMBIENT TEMPERATURE VS POWER



240W AMBIENT TEMPERATURE VS POWER



COLOUR TEMPERATURES



All colour temperatures are indicative. Some variation can occur.

ORDERING EXAMPLE

IBYS - 160 - CWT - MEDIUM - HKM¹ - MP

PRODUCT

TYPE

COLOUR TEMP

OPTICS

MOUNTING

SUPPLY OPTION

PRODUCT	TYPE		COLOUR TEMP		OPTICS		MOUNTING		SUPPLY OPTION	
IBYS	160	160W	CWT	Cool White	NOP	Extra Wide Optics	HKM	Hook Mounted	MP	Mains Powered
	240	240W	NWT	Neutral White	DM1	Dome Diffuser	SWB	T-Bolt Swivel Bracket		
			WWT	Warm White	MEDIUM	Medium Optics				
					NARROW	Narrow Optics				
					SPOT	Spot Optics				
					OVAL	Oval Optics				

¹ If MOUNTING is not specified, Hook Mounted (HKM) unit will be supplied.