



# IBYS

LED HIGHBAY HBY-IBYS





The IBYS represents a revolutionary change in architectural and commercial high bay lighting.

Designed as a highly efficient and adaptable replacement of industry standard gas discharge lamps of up to 250W/400W, the IBYS is offered in array of colour temperatures as well as high CRI version for the most discerning architectural applications.

It's incredibly sleek, yet robust design allows it to be used in a wide variety of applications, ranging from heavy industrial facilities through to retail stores, shopping centres, stadiums and public spaces.



**POWER**

**LUMINOUS FLUX**

**160W**

160W at 25°C



15,670 – 16,900 lm

**240W**

250W at 25°C



16,065 – 23,136 lm

**COLOUR TEMPERATURE**





## OPTICAL VARIATIONS

The IBYS is offered in a range of optical variation, offering precision, colour consistency and a high CRI for each particular application.

## ENGINEERED TO PERFECTION

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



L70

### LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



### VARIOUS CCT & COLOUR BINNING CONSISTENCY

Product is offered in various Colour Temperatures using tighter bins.

5  
YEARS

### 5 YEARS 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

Our products are designed and manufactured 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.

## ■ TECHNICAL SPECIFICATIONS

	IBYS 160 - CRI 80	IBYS 240 - CRI 80
Luminous Flux (Photometered)	15,670 – 16,900 lm	16,065 – 23,136 lm
Luminous Flux (LED Lumens)	20,863 lm	23,520 lm
CCT	2700K 3000K 4000K 5000K	

	IBYS 160 - CRI 90	IBYS 240 - CRI 90
Luminous Flux (Photometered)	15,670 – 16,900 lm	16,065 – 23,136 lm
Luminous Flux (LED Lumens)	20,863 lm	23,520 lm
CCT	2700K 3000K	

	IBYS 160	IBYS 240
Power Consumption	160W at 25°C	250W 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 with 3 pin Au Plug	
Cable Length	1.5m	
IP Rating	IP65	
Operating Temp. Range	-20 – 55°C	
Thermal Management Type	Active / Continuous	
Expected Lifespan	50,000 Hours to 70% Brightness	
Material Composition (Body)	Aluminium Alloy	
Angle Adjustment	+/- 60° (IBYS-WMB)	+/- 60° (IBYS-WMB)
Weight/Packaging	Luminaire      Packaging	Luminaire      Packaging
IBYS-HKM	4.2 kg      6.3 kg	5.2 kg      6.8 kg
IBYS-WMB	4.3 kg      6.4 kg	5.3 kg      6.9 kg
Packaging Dimensions	360 x 360 x 300mm	
Warranty	3 – 5 Years (3 years warranty as standard. 5 years extended warranty optional.)	

### 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

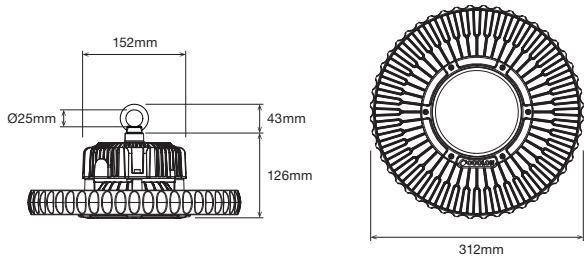
### Compliance (EMC)

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-CEI/IEC CISPR22-02	Limits and methods of measurement of Radio Disturbance Characteristics of Information Technology Equipment



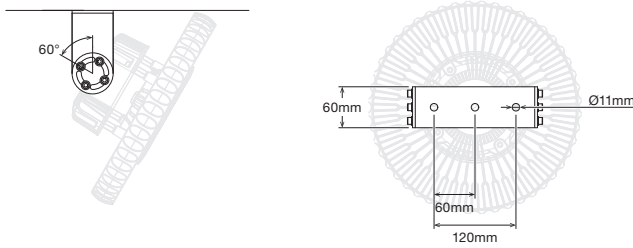
■ DIMENSIONS

**IBYS 160W - HOOK MOUNTED (HKM)**

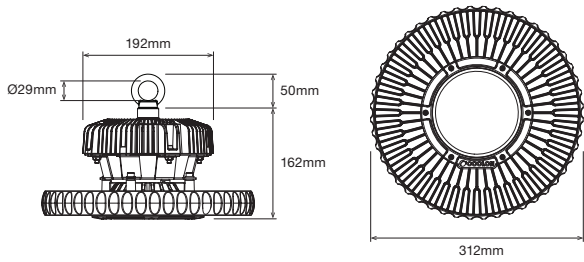


**IBYS 160W - WALL MOUNTED BRACKET (WMB)**

+/-60° Rotation

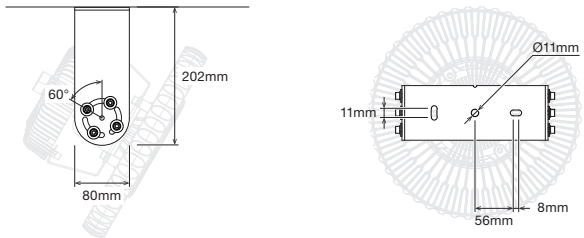


**IBYS 240W - HOOK MOUNTED (HKM)**

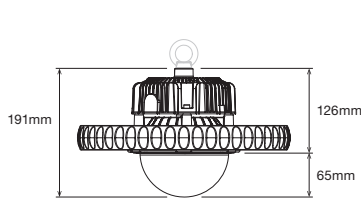


**IBYS 240W - WALL MOUNTED BRACKET (WMB)**

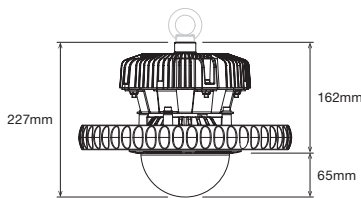
+/-60° Rotation



**IBYS 160W - DOME OPTICS (DM1)**



**IBYS 240W - DOME OPTICS (DM1)**



■ IP RATING

**IP65**

Fully protected against dust. Protected against water jets from all directions

## ■ POLAR DISTRIBUTION

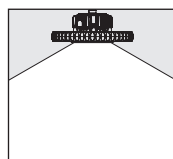
### OPTIC

### BEAM ANGLE

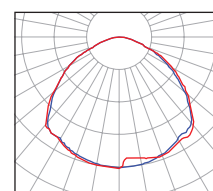
### POLAR DISTRIBUTION

NOP

120° Beam

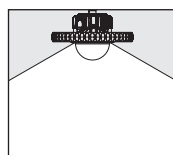


	160	240
3m	598	871
4m	329.8	480
6m	143.8	209
8m	80.1	116
10m	51	74
12m	35.3	51
E <sub>C</sub> at Centre (Lux)		

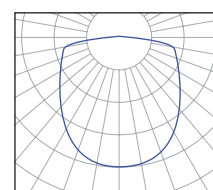


DM1

Dome Diffuser 1

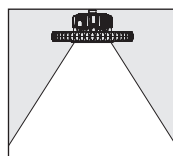


	160	240
3m	315	442
4m	173	243
6m	75	106
8m	42	59
10m	26	37
12m	18	26
E <sub>C</sub> at Centre (Lux)		

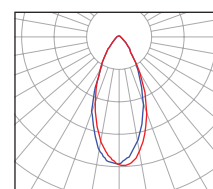


L65

65° Beam

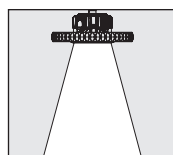


	160	240
3m	2782	3754
4m	1534	2070
6m	668.7	902
8m	372.5	502
10m	237	319
12m	164	221
E <sub>C</sub> at Centre (Lux)		

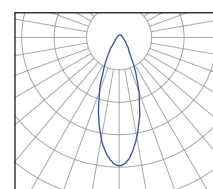


L30

30° Beam

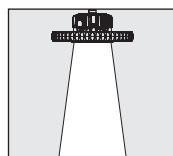


	160	240
3m	4562	6866
4m	2516	3787
6m	1097	1650
8m	610	919
10m	388	585
12m	268	404
E <sub>C</sub> at Centre (Lux)		

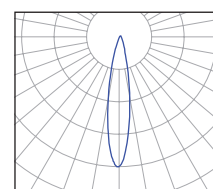


L15

15° Beam

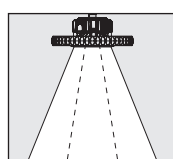


	160	240
3m	9420	20356
4m	5195	11227
6m	2136	4893
8m	1190	2726
10m	757	1735
12m	523	1200
E <sub>C</sub> at Centre (Lux)		

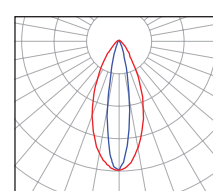


O4418

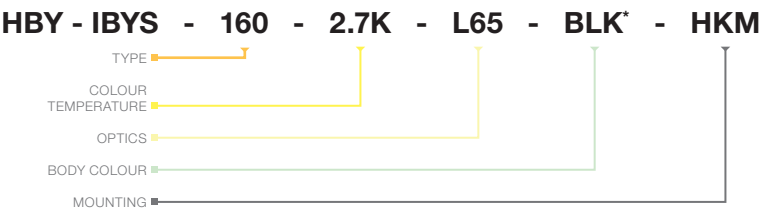
Oval 44° x 18° Beam



	160	240
3m	8887	11826
4m	4901	6522
6m	2136	2843
8m	1190	1584
10m	757	1008
12m	523	697
E <sub>C</sub> at Centre (Lux)		



ORDERING  
EXAMPLE



■ **TYPE** PAGE 04

160	160W
240	240W

■ **COLOUR TEMPERATURE** PAGE 04

2.7K	2700K CRI 80
2.7KCRI	2700K CRI 90
3.0K	3000K CRI 80
3.0KCRI	3000K CRI 90
4.0K	4000K CRI 80
5.0K	5000K CRI 80

■ **OPTICS** PAGE 06

NOP	No Optics
DM1	Dome Diffuser
L65	65° Beam Angle
L30	30° Beam Angle
L15	15° Beam Angle
O4418	44 x 18 Oval Beam

■ **BODY COLOUR \***

BLK	Black
WHT	White
CST	Custom

■ **MOUNTING** PAGE 05

HKM	Hook Mounted (Standard)
WMB	Wall Mounted Bracket

\* PSU colour is always black