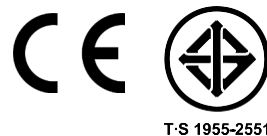


"BLADE 2" LED INDUSTRIAL LAMP (Model: HBCB2)

FEATURES:

- High Efficiency (120 lumens/W)
- Wide input voltage range (90-305VAC) for protection against voltage fluctuation
- Up to 10kV Surge Protection for protection against transient voltage
- Philips Lumileds and Samsung LED (LM80)
- >> 50,000 hours design life
- Suitable for heavy duty industrial applications
- CE and TIS (Thailand) certified



SPECIFICATIONS⁺:



MODELS	HBCB2 -600	HBCB2 -1200	HBCB2 -1800	HBCB2 -2400	HBCB2 -3000	HBCB2 -3600	HBCB2 -4000	HBCB2 -5000
System Power	60W	120W	180W	240W	300W	360W	400W	500W
LED Chips	Philips Lumileds						Samsung	
Color Temperature	2700K, 3000K, 4000K, 5000K, 5700K, 6500K (standard model)							
CRI	80 Ra						75 Ra	
Luminous Efficacy	120 lumens/W							
Input Voltage*	90-305 Vac							
Driver Efficiency*	>90%							
Surge Protection*	Line-Line: 4kV (or 6kV), Line-Earth: 6kV (or 10kV)							
Dimming	Non-dimmable (Dimming option is available)							
Beam Angle	25°, 50°, 80°, 90°x120°, 70°x140°							
Design Life	>>50,000 hours (L70, B50)							
Housing Color	Silver							
Work Temperature	-40~50 °C							
Housing Material	Aluminum							
Lens Material	Polycarbonate							
Ingress Protection	IP66							
Net Weight (kg)	2.2	3.6	4.6	6.4	7.5	8.5	8.0	9.0
Gross Weight (kg)	2.8	4.1	5.2	7.5	8.4	9.5	8.9	10.0
Product Dimension (mm)	116x288 x235	204x288 x235	298x288 x235	392x288 x235	486x288 x235	580x288 x235	486x288 x235	580x288 x235
Packaging Dimension (cm)	290x378 x172	290x378 x172	378x378 x172	466x378 x172	554x378 x172	660x378 x172	554x378 x172	660x378 x172

+ Product specifications are subject to changes without notice.

* Power supply specifications may vary depending on the specific power supply brand and model.

REVISION: 4

Title: CLARO "BLADE 2" LED INDUSTRIAL LAMP

Model: HBCB2

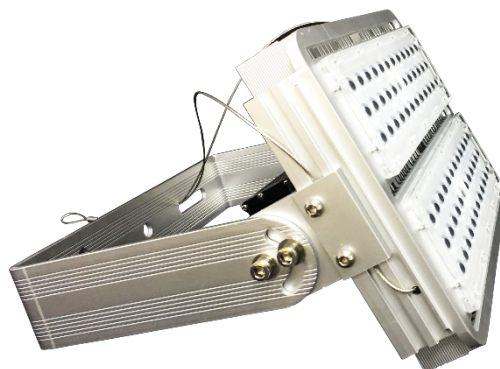
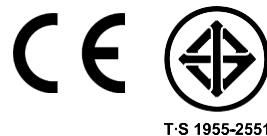
SHEET No: 1 of 7

Date: 2018.01.24

Version: 3.0

“BLADE 2” LED INDUSTRIAL LAMP (Model: HBCB2)

PRODUCT PHOTOS:



ORDERING INFORMATION: e.g., HBCB2-100065N-809x12

Series		Wattage		CCT		Dimming		CRI	Beam Angle	
HBCB2	“BLADE 2” INDUSTRIAL LAMP	600	60W	27	2700K	N	Non-dimmable	80 80 Ra	25	25°
		800	80W	30	3000K	D	Dimmable		50	50°
		1000	100W	40	4000K				80	80°
		1200	120W	50	5000K				9x12	90°x120°
		1600	160W	57	5700K				7x14	70°x140°
		1800	180W	65	6500K					
		2000	200W							
		2400	240W							
		3000	300W							
		3600	360W							
		4000	400W							
		5000	500W							

REVISION: 4

Title: CLARO “BLADE 2” LED INDUSTRIAL LAMP

Model: HBCB2

SHEET No: 2 of 7

Date: 2018.01.24

Version: 3.0

“BLADE 2” LED INDUSTRIAL LAMP (Model: HBCB2)

PHOTOMETRIC CHARACTERISTICS:



TIS 1955-2551

120W, 25 Degree Beam Angle

Filename: HBCB2-120065N-8025

Manufacturer: EPITAX PTE LTD (SINGAPORE)

Luminaire: HBCB2-120065N-8025

Luminaire Cat: BLADE 2 HIGHBAY

Lamp Output: Total luminaire Lumens: 14501.3

Max Candela: 40,427.6 at Horizontal: 0°, Vertical: 0°

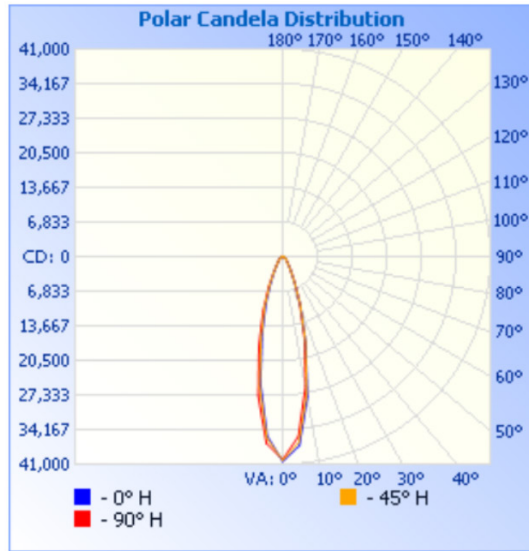
Input Wattage: 118.7

Luminous Opening: Point

Photometry : Type C

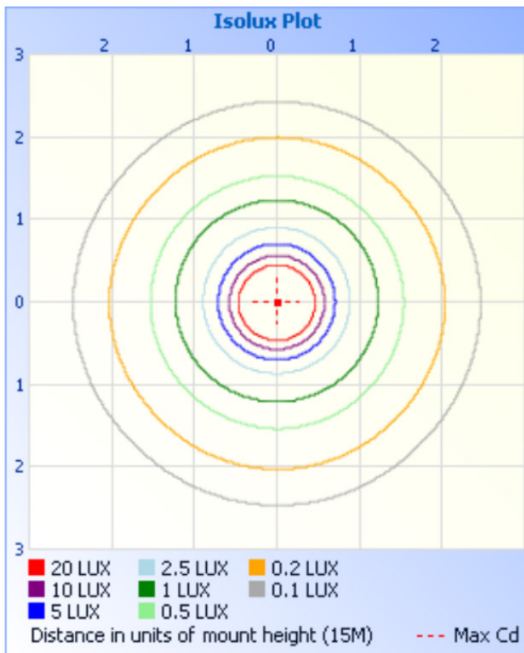
Cutoff Class: Cutoff

Nema Type: 4 X 4



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	71.4%	10,352.0	57.3	56.5
Beam (50%):	32.8%	4,754.7	27	26.4
Total:	100.4%	14,565.4		



Illuminance at a Distance

Distance (M)	Center Beam LUX	Beam Width (M)
2.50M	6,472 LUX	1.17 M 1.20 M
5.00M	1,618 LUX	2.34 M 2.40 M
7.50M	718 LUX	3.52 M 3.60 M
10.00M	404 LUX	4.69 M 4.80 M
12.50M	259 LUX	5.86 M 5.99 M
15.00M	180 LUX	7.03 M 7.19 M

■ Vert. Spread: 26.4°
■ Horiz. Spread: 27.0°

REVISION: 4

Date: 2018.01.24

Title: CLARO “BLADE 2” LED INDUSTRIAL LAMP

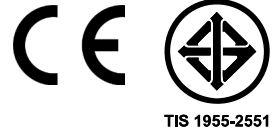
Model: HBCB2

SHEET No: 3 of 7

Version: 3.0

“BLADE 2” LED INDUSTRIAL LAMP (Model: HBCB2)

PHOTOMETRIC CHARACTERISTICS:



120W, 50 Degree Beam Angle

Filename: HBCB2-120065N-8050

Manufacturer: EPITAX PTE LTD

Luminaire: HBCB2-120065N-8050

Luminaire Cat: LED INDUSTRIAL LAMPS

Lamp: CLARO "BLADE 2" INDUSTRIAL LAMP 120W 50 DEG

Lamp Output: Total luminaire Lumens: 14864.5

Max Candela: 14,743.3 at Horizontal: 0°, Vertical: 0°

Input Wattage: 117.9

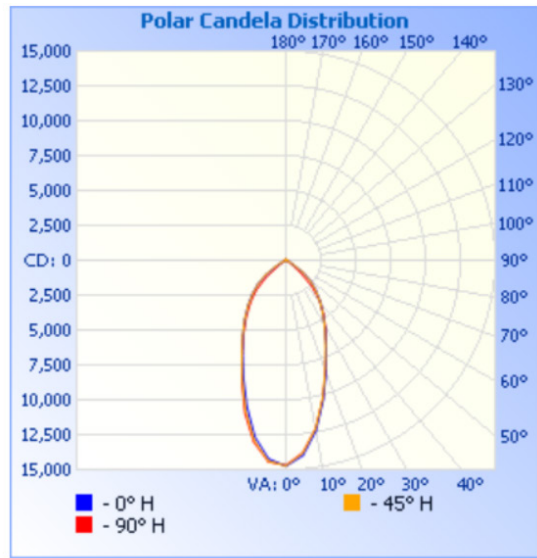
Luminous Opening: Rectangle w/Luminous Sides (L: 0.2M, W: 0.27M, H: 0.23M)

Test Date: 19-Oct-17

Photometry : Type C

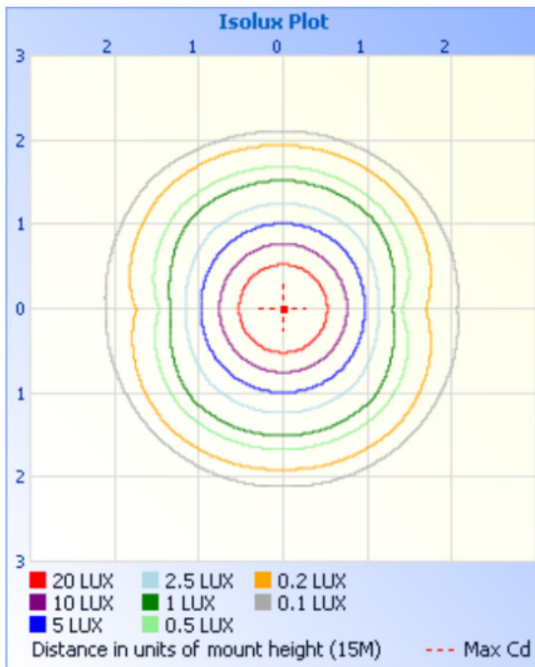
Cutoff Class: Cutoff

Nema Type: 6 X 6



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	92.4%	13,732.8	101.2	111.8
Beam (50%):	38%	5,645.0	48.4	48.3
Total:	100.1%	14,882.9		



	Illuminance at a Distance	
	Center Beam LUX	Beam Width
2.50M	2,360 LUX	2.24 M 2.25 M
5.00M	590 LUX	4.48 M 4.50 M
7.50M	262 LUX	6.73 M 6.75 M
10.00M	147 LUX	8.97 M 9.00 M
12.50M	94.4 LUX	11.21 M 11.25 M
15.00M	65.5 LUX	13.45 M 13.49 M

■ Vert. Spread: 48.3°
■ Horiz. Spread: 48.4°

REVISION: 4

Date: 2018.01.24

Title: CLARO “BLADE 2” LED INDUSTRIAL LAMP

Model: HBCB2

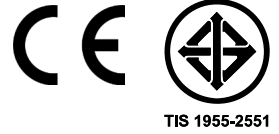
SHEET No: 4 of 7

Version: 3.0

“BLADE 2” LED INDUSTRIAL LAMP (Model: HBCB2)

PHOTOMETRIC CHARACTERISTICS:

120W, 80 Degree Beam Angle



Filename: HBCB2-120065N-8080

Manufacturer: EPITAX PTE LTD (SINGAPORE)

Luminaire: HBCB2-120065N-8080

Luminaire Cat: LED INDUSTRIAL LAMP

Lamp: CLARO “BLADE 2” INDUSTRIAL LAMP 120W 80 DEG

Lamp Output: Total luminaire Lumens: 14540.7

Max Candela: 8,695.9 at Horizontal: 180°, Vertical: 10°

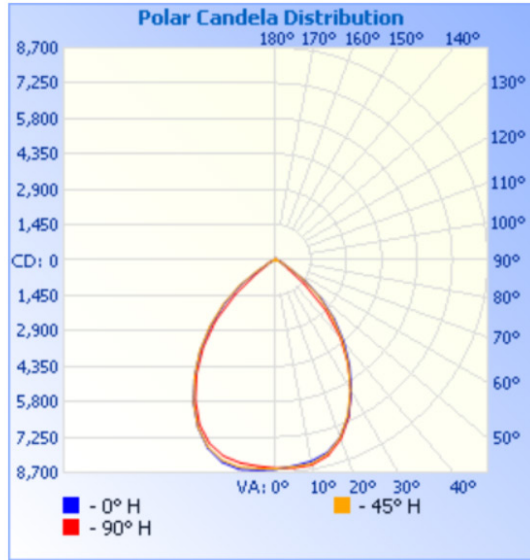
Input Wattage: 119.2

Luminous Opening: Rectangle w/Luminous Sides (L: 0.06M, W: 0.08M, H: 0.07M)

Photometry : Type C

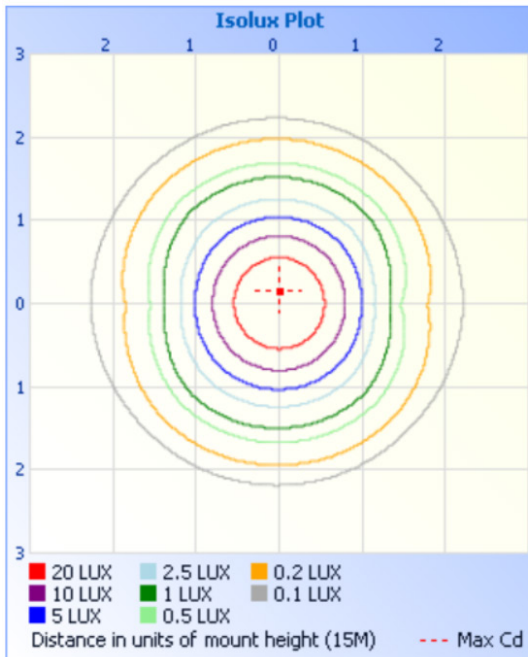
Cutoff Class: Cutoff

Nema Type: 6 X 6



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.2%	13,694.0	110.4	118.2
Beam (50%):	69.6%	10,114.2	78.8	82.2
Total:	100.1%	14,548.8		



	Illuminance at a Distance	
	Center Beam LUX	Beam Width
2.50M	1,371 LUX	4.36 M 4.11 M
5.00M	343 LUX	8.72 M 8.22 M
7.50M	152 LUX	13.08 M 12.33 M
10.00M	85.6 LUX	17.44 M 16.44 M
12.50M	54.8 LUX	21.80 M 20.55 M
15.00M	38.1 LUX	26.16 M 24.66 M

■ Vert. Spread: 82.2°
■ Horiz. Spread: 78.8°

REVISION: 4

Date: 2018.01.24

Title: CLARO “BLADE 2” LED INDUSTRIAL LAMP

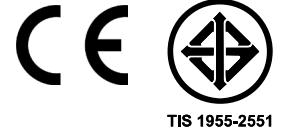
Model: HBCB2

SHEET No: 5 of 7

Version: 3.0

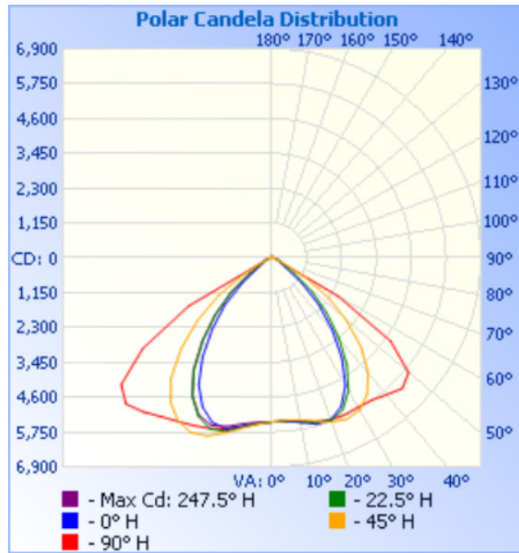
“BLADE 2” LED INDUSTRIAL LAMP (Model: HBCB2)

PHOTOMETRIC CHARACTERISTICS:

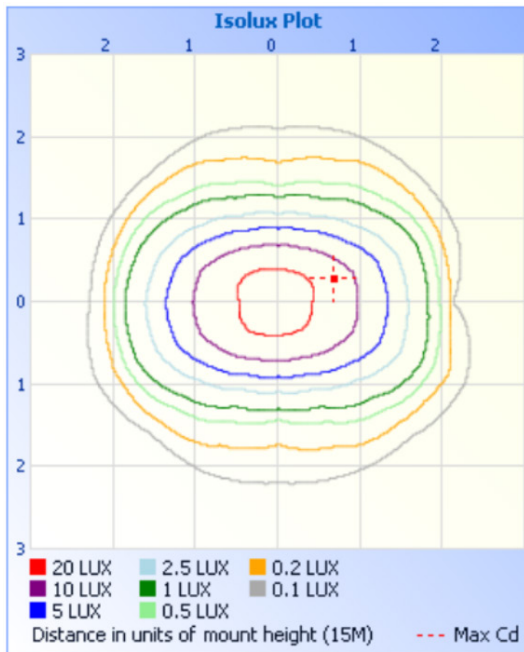


120W, 90x120 Degree Beam Angle

Filename: HBCB2-120065N-808x12
Manufacturer: EPITAX PTE LTD (SINGAPORE)
Luminaire: HBCB2-120065N-808x12
Luminaire Cat: LED INDUSTRIAL LAMP
Lamp: CLARO "BLADE 2" LED INDUSTRIAL LAMP 120W 85x120 DEG
Lamp Output: Total luminaire Lumens: 14599.1
Max Candela: 6,851.2 at Horizontal: 247.5°, Vertical: 40°
Input Wattage: 118.6
Luminous Opening: Rectangle w/Luminous Sides (L: 0.2M, W: 0.27M, H: 0.23M)
Photometry : Type C
Cutoff Class: Cutoff
Nema Type: 6 X 6



Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	96.8%	14,134.2	127.7	112
Beam (50%):	82.3%	12,021.5	113.8	79.2
Total:	100.1%	14,614.2		



Distance	Illuminance at a Distance	
	Center Beam LUX	Beam Width
2.50M	867 LUX	4.13 M 7.66 M
5.00M	217 LUX	8.26 M 15.33 M
7.50M	96.2 LUX	12.40 M 23.00 M
10.00M	54.1 LUX	16.53 M 30.66 M
12.50M	34.7 LUX	20.67 M 38.33 M
15.00M	24.1 LUX	24.80 M 45.99 M

Vert. Spread: 79.2°
 Horiz. Spread: 113.8°

REVISION: 4

Date: 2018.01.24

Title: CLARO “BLADE 2” LED INDUSTRIAL LAMP

Model: HBCB2

SHEET No: 6 of 7

Version: 3.0

“BLADE 2” LED INDUSTRIAL LAMP (Model: HBCB2)

PHOTOMETRIC CHARACTERISTICS:



TIS 1955-2551

120W, 70X140 Degree Beam Angle

Filename: HBCB2-120065N-807x14 v2.0c

Manufacturer: EPITAX PTE LTD (SINGAPORE)

Luminaire: CLARO “BLADE 2” LED INDUSTRIAL LAMP 120W
70x140 DEG (2X)

Luminaire Cat: LED INDUSTRIAL LAMP

Lamp: HBCB2-120065N-807x14

Lamp Output: Total luminaire Lumens: 14382

Max Candela: 7,102.2 at Horizontal: 110°, Vertical: 50°

Input Wattage: 119.8

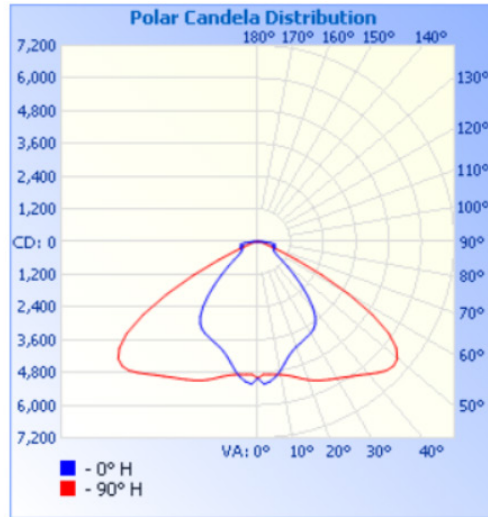
Luminous Opening: Rectangle w/Luminous Sides (L: 0.2M, W: 0.29M, H: 0.24M)

Test Date: 1/20/2018

Photometry : Type C

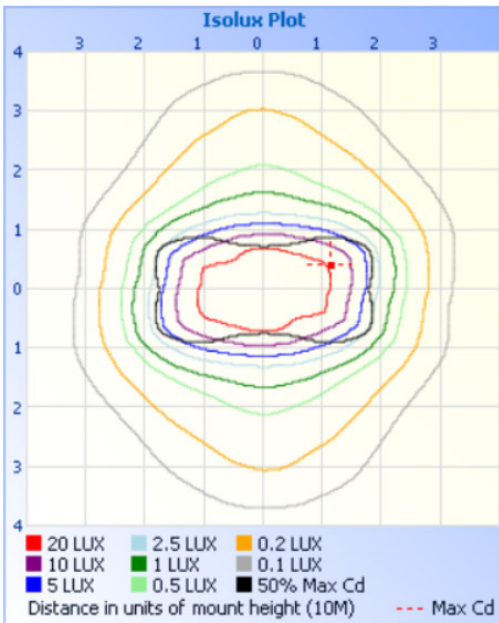
Cutoff Class: Cutoff

Nema Type: 7 X 6



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	92.9%	13,362.1	135.1	105.8
Beam (50%):	75.4%	10,838.5	118	75.7
Total:	100%	14,379.0		



REVISION: 4

Date: 2018.01.24

Title: CLARO “BLADE 2” LED INDUSTRIAL LAMP

Model: HBCB2

SHEET No: 7 of 7

Version: 3.0