

“DURO” LED HIGHBAY (Model: HBCD)

FEATURES:

- High Efficiency (120 lumens/W)
- Wide input voltage range (90/100-305VAC) for protection against voltage fluctuation
- Up to 10kV surge protection for protection against transient voltage
- PHILIPS LUMILEDS LED (LM80)
- Over 50,000 hours design life
- Suitable for heavy duty industrial applications
- CE and TIS (Thailand) certified



SPECIFICATIONS¹:



MODELS	HBCD-1000	HBCD-1500	HBCD-2000
System Power	100W	150W	200W
LED Chips	Philips Lumileds 3030 2D		
Color Temperature	2700K, 3000K, 4000K, 5000K, 5700K, 6500K (standard model)		
CRI	>80 Ra		
Luminous Efficacy	120 lumens/W		
Driver ²	Meanwell or Inventronics		
Input Voltage ²	90-305 Vac or 100-305 Vac		
Driver Efficiency ²	>92%		
Power Factor ²	>0.9		
Surge Protection ²	4kV (Line-Line); 6kV (Line-Earth) or 6kV (Line-Line); 10kV (Line-Earth)		
Dimming	Non-dimmable (Optional dimmable)		
Beam Angle	60°, 90°		
Operating Temp.	-40 ~ +40°C		
Operating Humidity	95% RH		
Design Life	>>50,000 hours (B50, L70)		
Housing Color	Black		
Housing Material	Aluminum		
Diffuser Material	PMMA		
Ingress Protection	IP65		
Net Weight (kg)	4.0	5.1	6.5
Product Size (cm)	φ28xH18.5	φ34xH19	φ40xH19.5

1. Specifications are subject to changes without notice.

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

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Model: HBCD

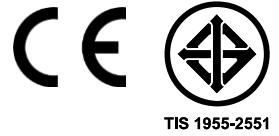
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Version: 2.0

“DURO” LED HIGHBAY (Model: HBCD)

PRODUCT PHOTOS:



REVISION: 2

Date: 2018.02.05

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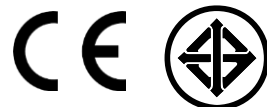
Model: HBCD

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“DURO” LED HIGHBAY (Model: HBCD)

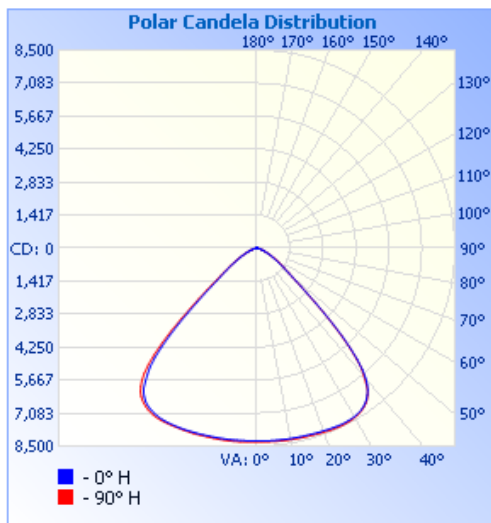
PHOTOMETRIC TEST REPORT: 150W, 90 DEG



TIS 1955-2551

Filename: HBCD-150065N-8090E

Manufacturer: EPITAX PTE LTD (SINGAPORE)
 Luminaire: CLARO “DURO” HIGHBAY 150W 90DEG (E-TYPE)
 Luminaire Cat: DURO HIGHBAY
 Lamp: HBCD-150065N-8090E
 Lamp Output: Total luminaire Lumens: 18027.2
 Max Candela: 8,453.0 at Horizontal: 270°, Vertical: 30°
 Input Wattage: 149.8
 Luminous Opening: Circular (Dia: 0.34M)
 Test: -
 Test Date: 2018-01-18
 Photometry : Type C
 Cutoff Class: Cutoff
 Nema Type: 6 X 6

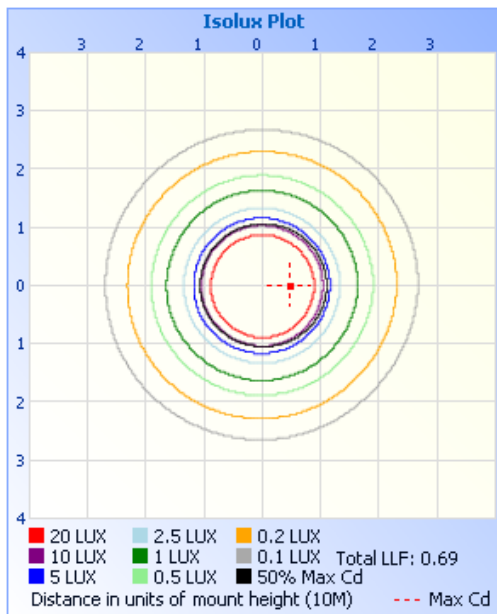


Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.5%	17,224.2	121.6	111.4
Beam (50%):	82.6%	14,890.3	93	75.7
Total:	100%	18,023.5		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	7,031.2	39%
0-40	12,084.5	67%
0-60	17,191.8	95.4%
60-90	801.3	4.4%
70-100	251.9	1.4%
90-120	0.9	0%
0-90	17,993.1	99.8%
90-180	34.1	0.2%
0-180	18,027.2	100%



Illuminance at a Distance

	Center Beam LUX	Beam Width	
1.67M	2,975 LUX	2.59 M	3.52 M
3.33M	744 LUX	5.18 M	7.03 M
5.00M	331 LUX	7.77 M	10.54 M
6.67M	186 LUX	10.36 M	14.06 M
8.33M	119 LUX	12.95 M	17.57 M
10.00M	82.7 LUX	15.54 M	21.09 M

■ Vert. Spread: 75.7°
 ■ Horiz. Spread: 93.0°

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“DURO” LED HIGHBAY (Model: HBCD)

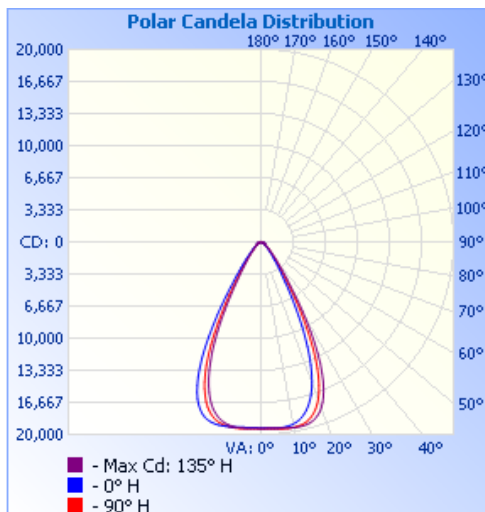
PHOTOMETRIC TEST REPORT: 150W, 60 DEG



TIS 1955-2551

Filename: HBCD-150065N-8060E

Manufacturer: EPITAX PTE LTD (SINGAPORE)
 Luminaire: CLARO “DURO” HIGHBAY 150W 60DEG (E-TYPE)
 Luminaire Cat: DURO HIGHBAY
 Lamp: HBCD-150065N-8060E
 Lamp Output: Total luminaire Lumens: 17861.5
 Max Candela: 19,594.2 at Horizontal: 135°, Vertical: 12°
 Input Wattage: 149.2
 Luminous Opening: Circular (Dia: 0.34M)
 Test: -
 Test Date: 2018-01-18
 Photometry : Type C
 Cutoff Class: Cutoff
 Nema Type: 5 X 5

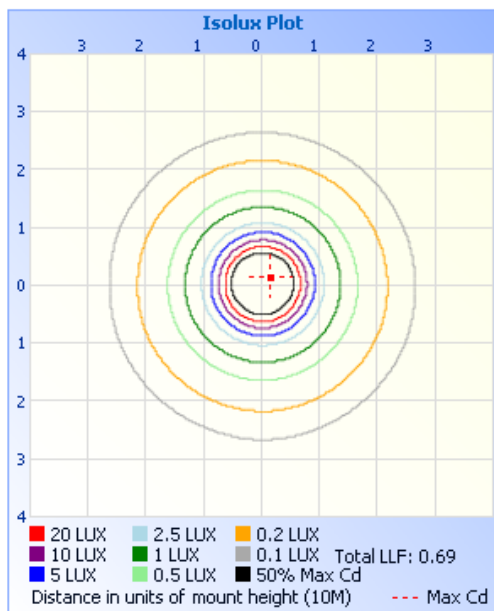


Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	87.5%	15,621.5	81.4	80.6
Beam (50%):	66.8%	11,933.8	55.2	54.3
Total:	100%	17,862.1		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	12,895.8	72.2%
0-40	15,485.6	86.7%
0-60	17,100.1	95.7%
60-90	721.6	4%
70-100	328.3	1.8%
90-120	0.3	0%
0-90	17,821.7	99.8%
90-180	39.7	0.2%
0-180	17,861.5	100%



Illuminance at a Distance

	Center Beam LUX	Beam Width	
	6,949 LUX	1.71 M	1.74 M
1.67M	1,737 LUX	3.42 M	3.49 M
3.33M	773 LUX	5.12 M	5.23 M
5.00M	435 LUX	6.83 M	6.97 M
6.67M	278 LUX	8.54 M	8.71 M
8.33M	193 LUX	10.25 M	10.46 M
10.00M			

■ Vert. Spread: 54.3°
 ■ Horiz. Spread: 55.2°

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Title: CLARO “DURO” LED HIGHBAY

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