



LED AMP ENERGY CORP



Product Specification



Product Name	100W LED High Bay Light
Product No.	LAE-HBG100W
Manual No.	20160105
Edition Name	LAE-HBG1001001
Date	05.01.2016



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Features

Long life span, using semiconductor chip as the light resource, the life can be over 50,000hrs.

No UV & IR. It won't distribute ray radiation

Eco-friendly, No Hg & Xe or other harmful element. Recyclable, also it won't generate EMI.

MEAN WELL power supply, high performance external constant current drivers, high efficiency & PF, high quality assurance.





Technical Parameters

Power parameters:

Project	Parameter
Input Voltage/Frequency	AC90-305V 50/60Hz
Input Current (Typ)	0.44A
Output Voltage	DC40-48V
Output Current	2A
Power	100W("MEANWELL" HBG-100-48A)
Power Factor (Typ)	PF>0.95
Efficiency (Typ)	η >0.85

Lighting parameters:

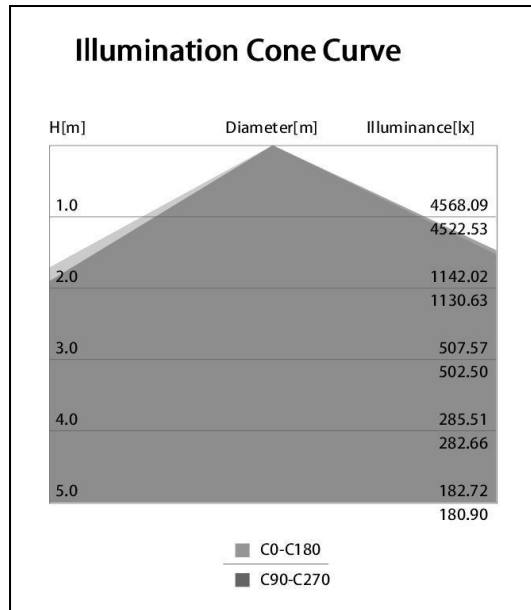
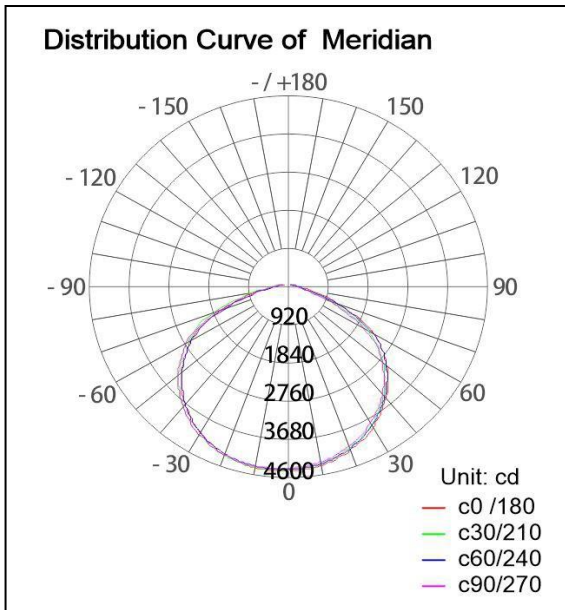
LED Chips Quantity	180(3030) pcs
Lumen Output	\geq 14000LM
Color Temperature	3000K/4000K/6000K
Color Rendering Index	Ra \geq 80
Beam Angle	110°
Dimensions	\varnothing 282x210.8mm
Operating Temperature	-40~60 °C
Operating Humidity	20%~90%
Storage Temperature	-40~80 °C
Lumen Maintenance	>85% (5000Hrs)
Life-span	50000Hrs
STD&AUT	UL、DLC、TUV、CE、RoHS

Note: Light optic with a little deviation for different color temperature LED , deviation value \leq 5%



Test Report

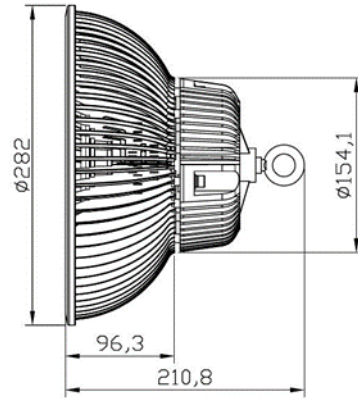
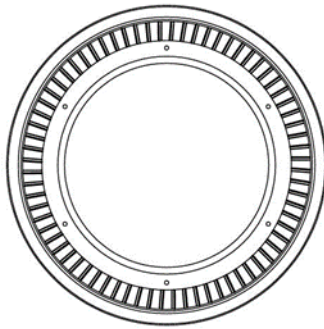
Measured Data of Lamp			
Voltage: 238.1 V	Current: 0.435 A	Power: 102 W	Power Factor: 0.984
Total Flux	14101.5 lm	Central Intensity	4521.65 cd
Lamp Efficiency	0.00%	Light Efficiency	138.25 lm/W
Peak Intensity	4568.09 cd	Location of Peak(c, Ψ)	(180.0° , 4.5°)
Half-Intensity Angle	121.5°	Beam Angle	152.1°
Upward Light Ratio	0	Downward Light Ratio	100%
Upward Street Side	0	Downward Street Side	6590.59 lm
Upward House Side	0	Downward House Side	7239.18 lm
Flash Area(76°)	761 cm ²	Discomfort Glare(SLI)	0



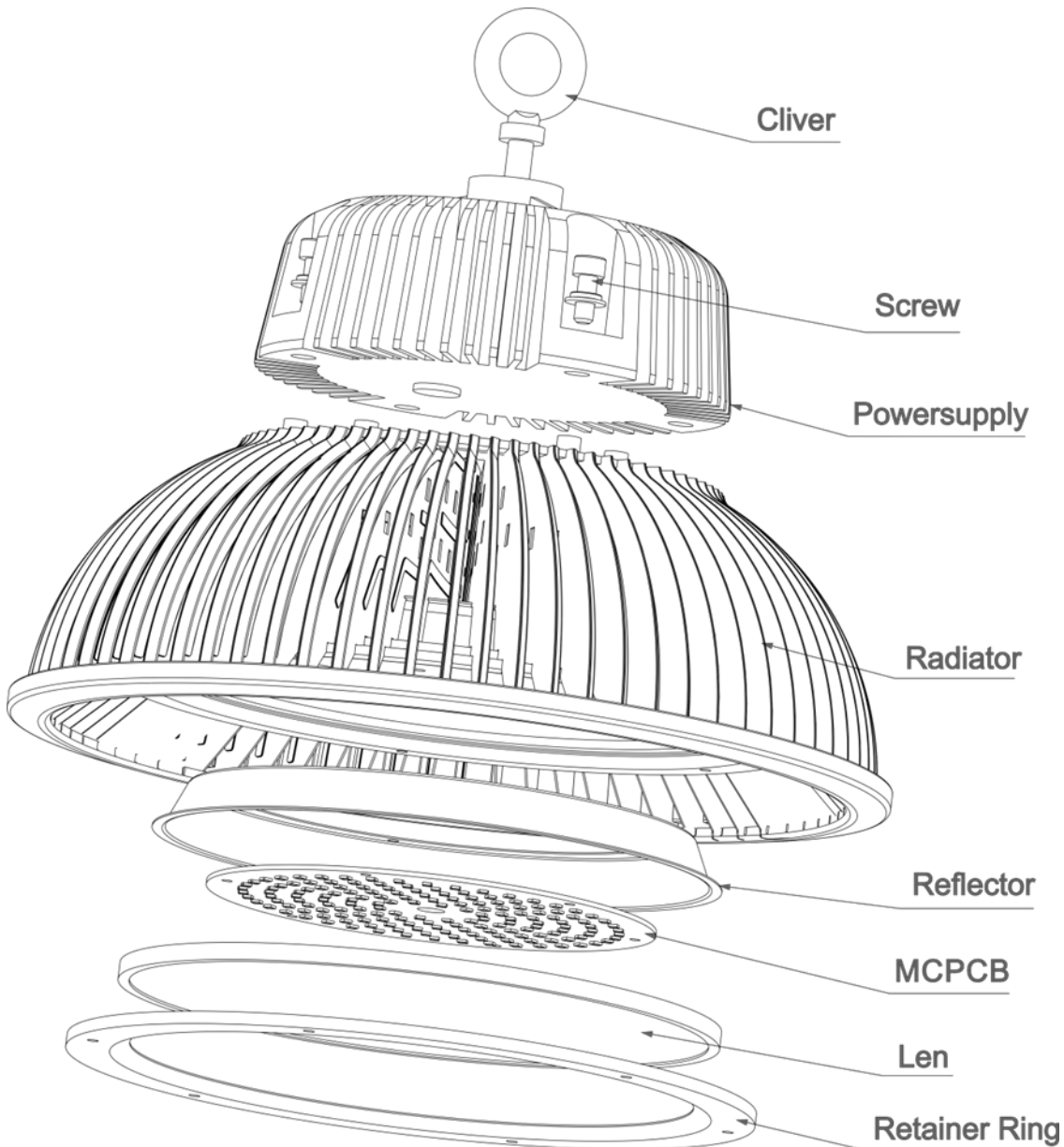


Dimension

unit: mm




Split Graph

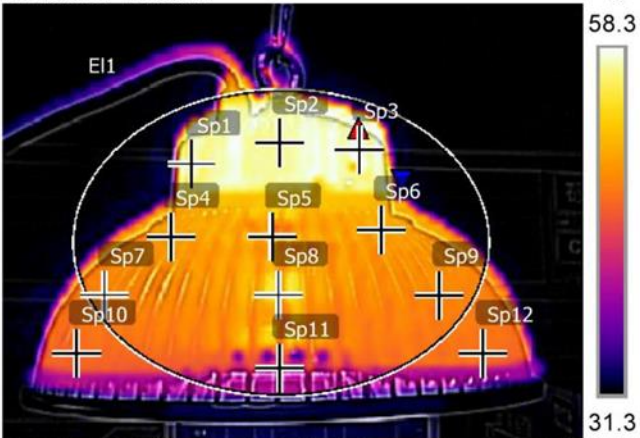




Heat radiation test report

Input Voltage:	AC230V	 Test Instrument FLIR E4
Ta:	30°C	
Test time:	After 4 hours' work	

2016/4/21 11:03:07



HBG100W-P1.jpg

FLIR E4

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HBG100W-P1.jpg

FLIR E4

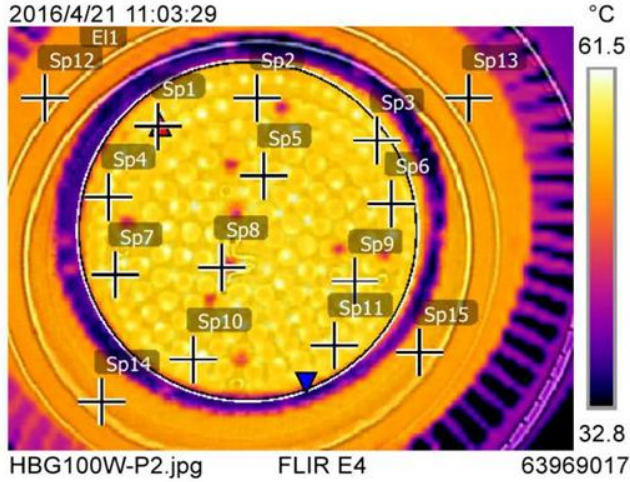
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Measurements

		T (°C)	mark
E11	Max	59.5	
	Min	30.8	
	Average	47.5	
Sp1		57.4	power
Sp2		56.9	power
Sp3		58.6	power
Sp4		50.0	radiator
Sp5		52.2	radiator
Sp6		50.5	radiator
Sp7		48.3	radiator
Sp8		50.8	radiator
Sp9		48.7	radiator
Sp10		46.8	radiator
Sp11		44.4	radiator
Sp12		47.3	radiator



Heat radiation test report



Measurements

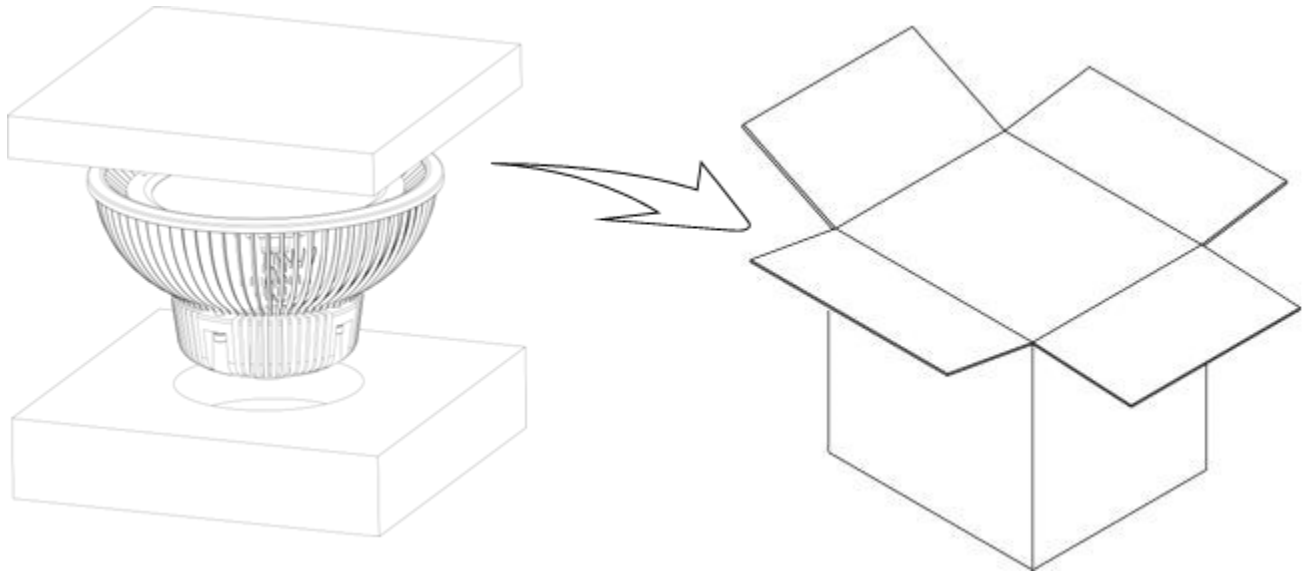
		T (°C)	mark
E11	Max	63.1	
	Min	36.7	
	Average	55.8	
Sp1		56.0	PCB
Sp2		56.8	Light source
Sp3		57.8	Light source
Sp4		56.0	Light source
Sp5		56.1	Light source
Sp6		56.7	Light source
Sp7		55.2	Light source
Sp8		52.3	PCB
Sp9		56.5	Light source
Sp10		55.7	Light source
Sp11		56.5	Light source
Sp12		52.3	radiator
Sp13		52.7	radiator
Sp14		52.1	radiator
Sp15		53.9	radiator

Parameters

Emissivity	0.95
Refl. temp.	20 °C
Distance	1 m
Atmospheric temp.	30 °C
Ext. optics temp.	30 °C
Ext. optics trans.	1
Relative humidity	50 %



Packing



Model	Carton Size	Qty.	N.W.	G.W.
XJ-HBG100W	326x326x234mm	1PCS/CTN	2.7Kg	4Kg

Note

Input voltage AC90-305V. Please power off when installation to prevent electric shock.

Product IP65 waterproof level don't used in high temperature place.

When the temperature is too high, Over-temperature control circuitry activates, Output will be cut off, and the lamp will light off for a few minutes, After lowering temperature will be back to normal.



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Warranty

Our company's products are used in constant current power supply, the whole lamp warranty for five year, one month replacement

Remark: The warranty on the base of right storing way, right installing way, right using way, right maintaining way. Any broken out of our rule, out of our warranty. During the warranty time, we can choose repairing, replacing parts or replacing the whole products according the detail information. And we'll charge the customers some material fee and labor cost if the product out of our warranty time.