

100W Led High Bay Light Data Sheet



- Solid State Lighting
- Green
- High efficiency
- Energy saving
- Long lifespan
- No pollution

Product	led high bay light
Model	SEM-HB100-01B
Version	A2.0
Date	2013-11-1



Content

Product Features.....	3
Product Structure.....	4
Product Parameters.....	6
Photometric.....	7
Light Simulation.....	8
Thermal Simulation.....	9
Applications Area.....	10
Energy Consumption Comparison.....	11
Packing Schematic.....	12
Installation Instructions.....	13-14
Electrical Connection.....	15
Dimming Applications.....	16



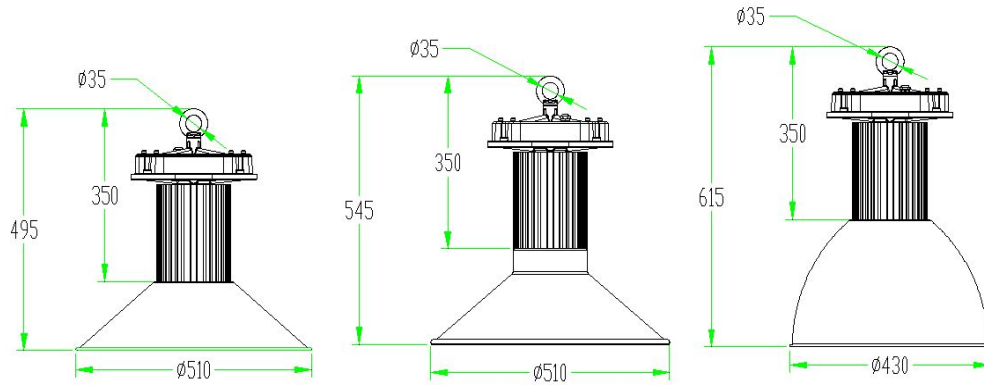
Product Features:

- ◆ Light source:CREE SMD led chip, 130LM / W;
- ◆ Aluminium alloy body .
- ◆ Surface treatment: anticathode oxidation.
- ◆ Built-in driver, Semlight driver.
- ◆ Input voltage(AC85-265V)50-60hz. The driver efficiency is higher than 89%. Constant current output. The power factor is higher than 0.95.
- ◆ CE, ROHS, IEC certificative.
- ◆ IP Rating:IP60.
- ◆ Casing color: silvery or black
- ◆ Beam angle: 45° 90° 120°
- ◆ Three type of lampshade materials: PC lampshade with PC bottom, aluminium alloy, aluminium alloy with glass bottom;

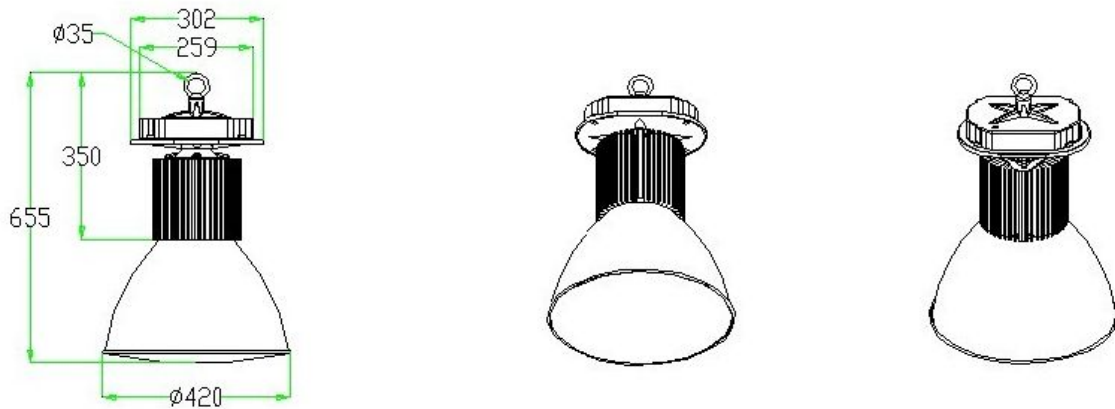
Product Structure

Aluminum Alloy Lamp Shade (120 degree, 90 degree, 45 degree)

Unit: mm tolerance: $\pm 5\text{mm}$

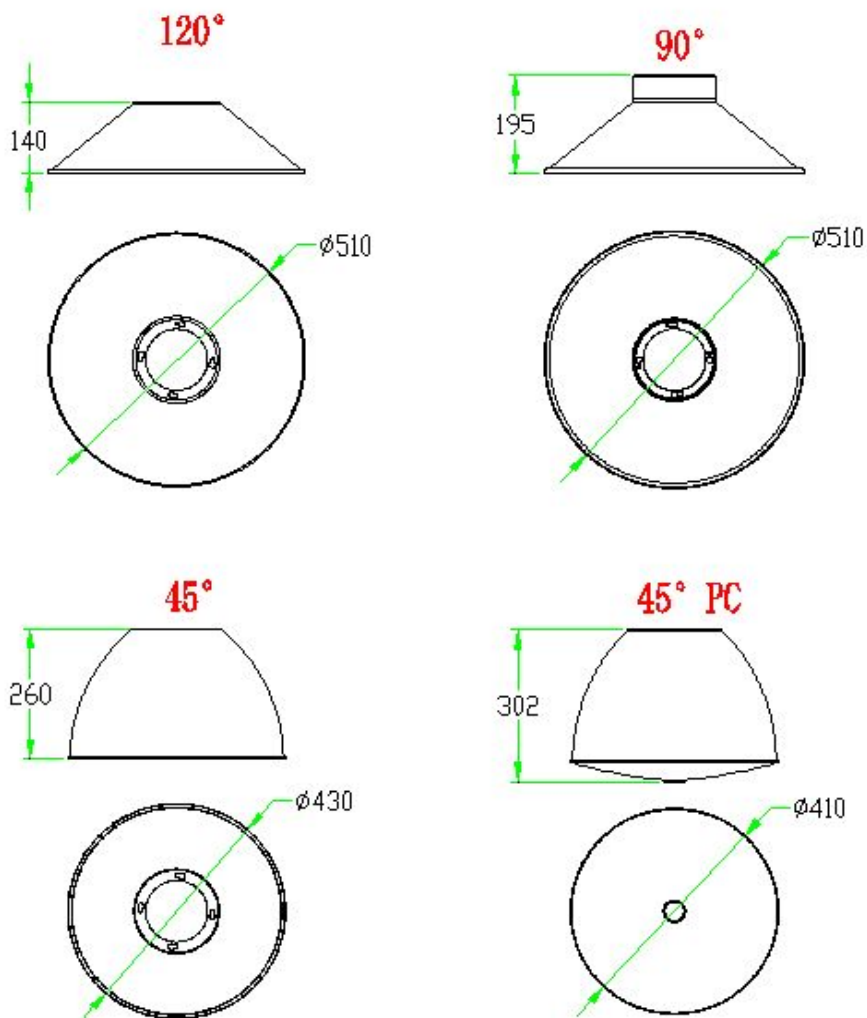


PC lamp shade(45degree)



Optional lamp shade:

(120 degree, 90 degree, 45 degree)





Power Parameters:

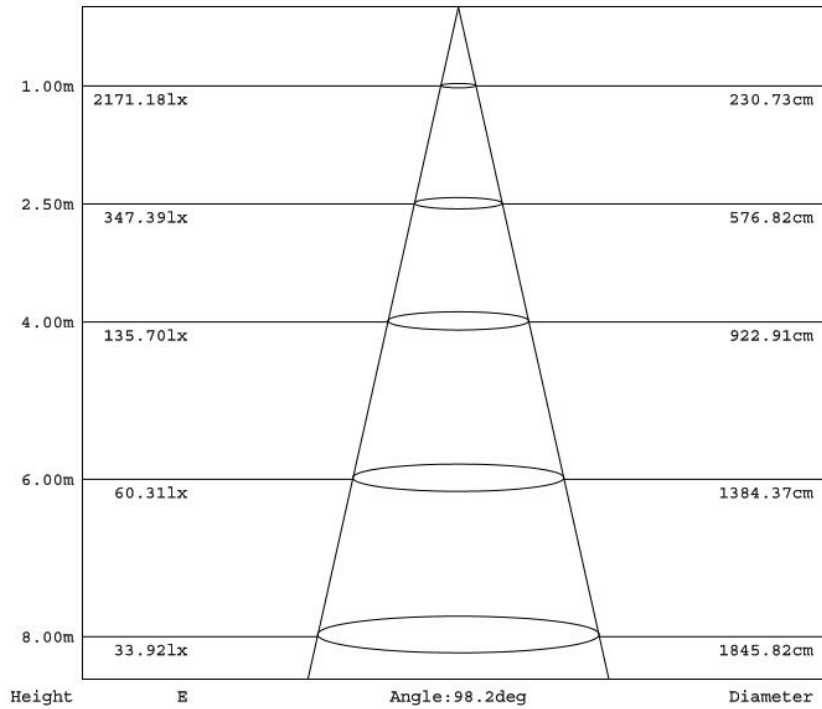
Part Name	Specification Parameter	Unit
Power	100	W
Input Voltage (AC)	85~265	V
Frequency	50~60	HZ
COB LED Consumption	89	W
Driver Consumption	11	W
Driver Efficiency	>89%	
Power Factor	>0.95	

Lighting Source Parameters

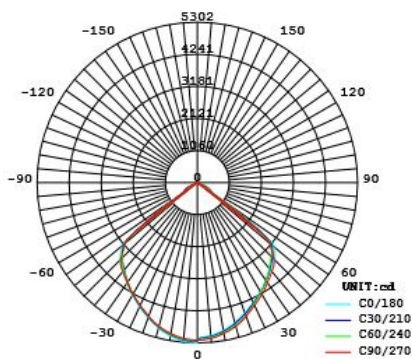
Part Name	Specification Parameter	Unit
Rated Power	100	W
Luminous Flux	10000-11000	LM
LED Luminous efficiency	130	LM/W
Operating Voltage (DC)	31	V
Operating Current	3000	mA
Color Temperature	Cold white	6000-6500
	Pure white	5000-5500
	Natural white	4000-4500
	Warm white	3000~3500
Color Rendering Index	75	
Working Temperature	-40~+55	°C
Storage Temperature	-40~+60	°C
Beam angle	45/ 90/ 120	degrees
Working life	50000	Hours
Protection Level	IP60	
Standard Certificates	CE,IEC,ROHS	

Photometry

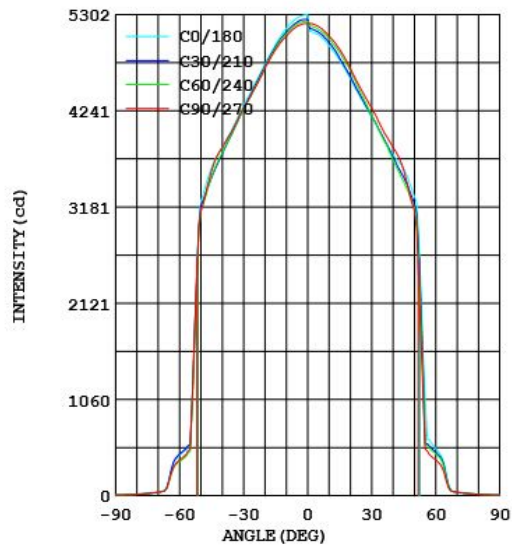
90 degree aluminum alloy lamp shade (Luminous flux output: 10360lm)



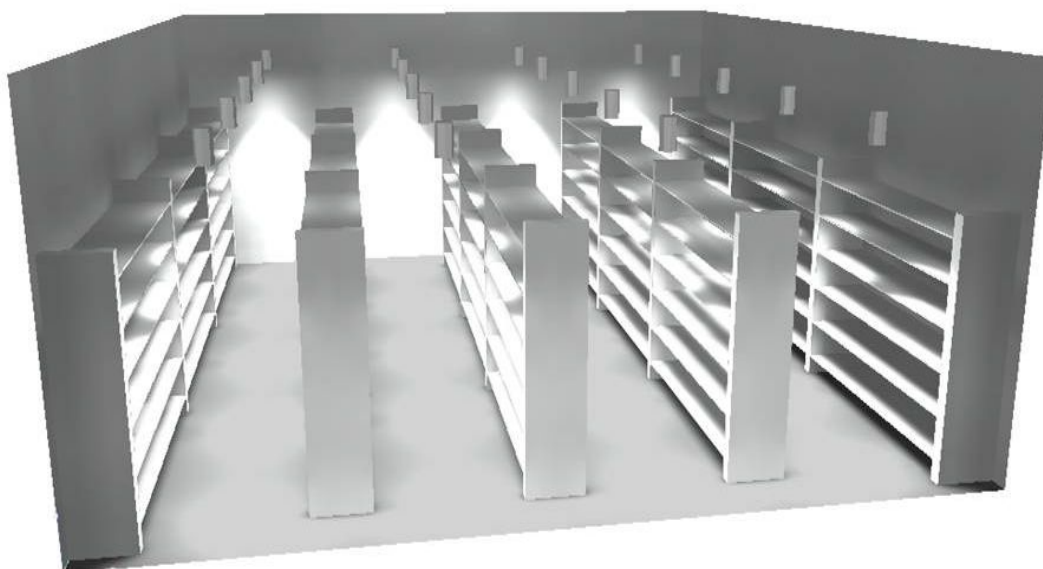
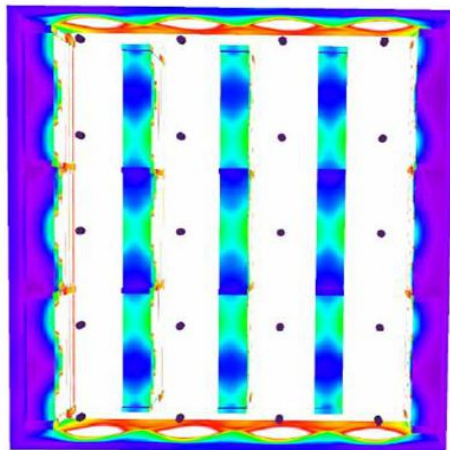
LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION

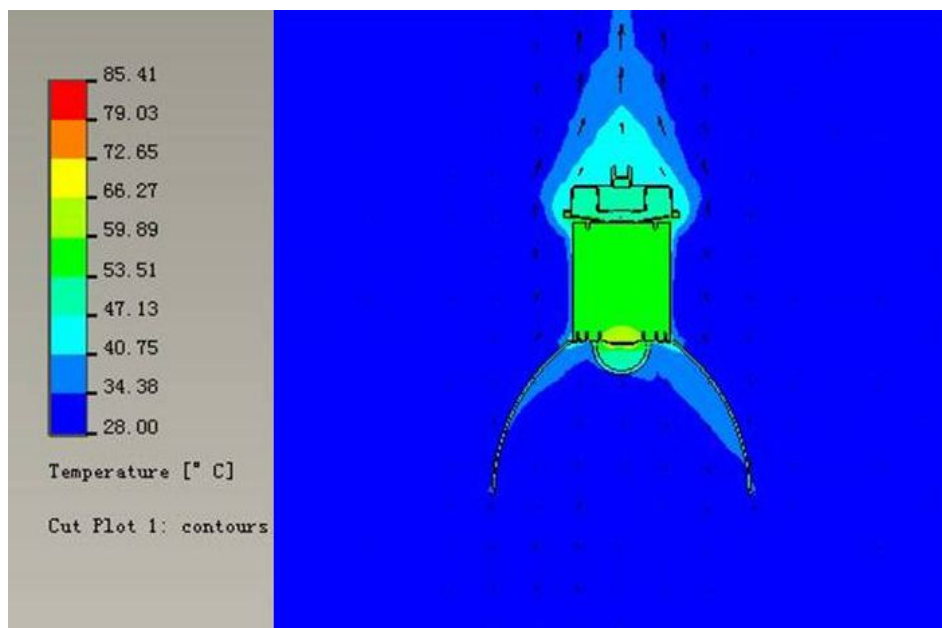


Warehouse light simulation (false color chart):

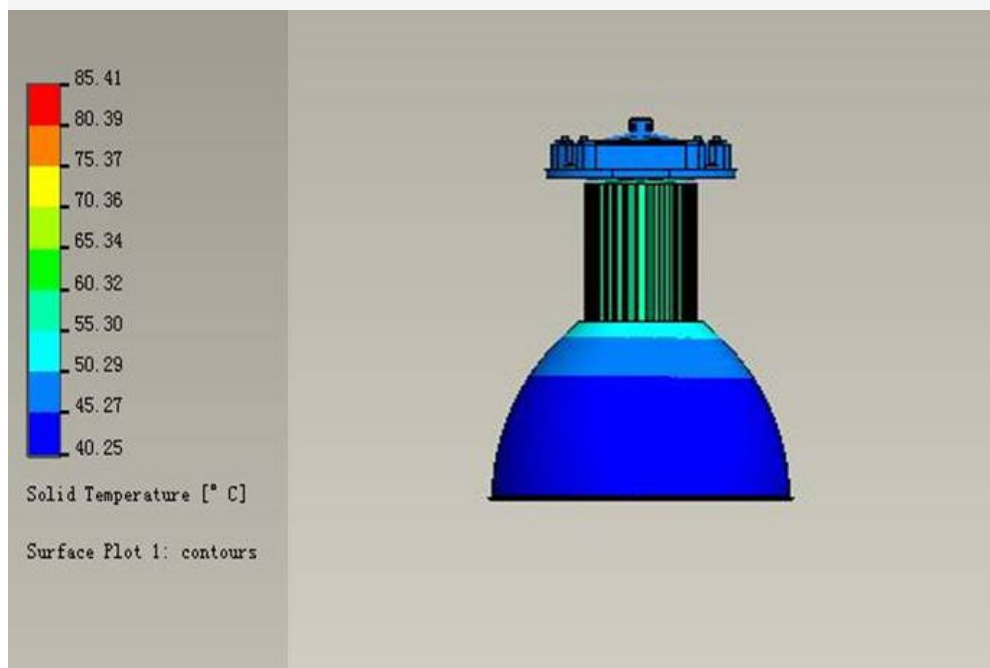


Light simulated 3D effect diagram in warehouse

Thermal simulation: ambient temperature 28 °C (cut plot)

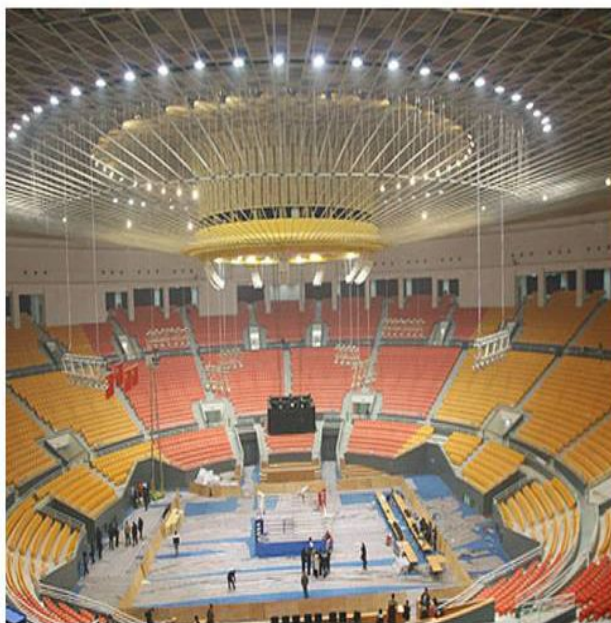
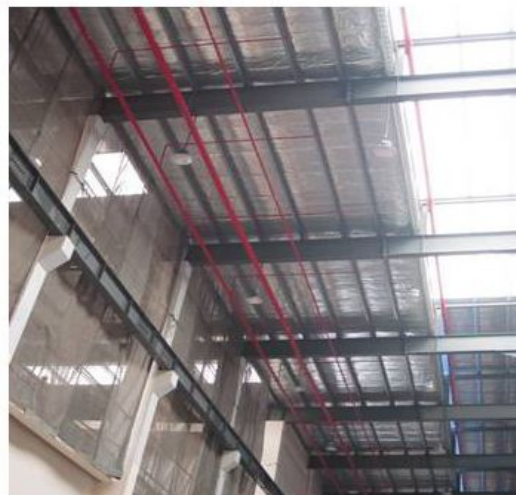


Thermal simulation: ambient temperature 28 °C (surface mapping)



Applications:

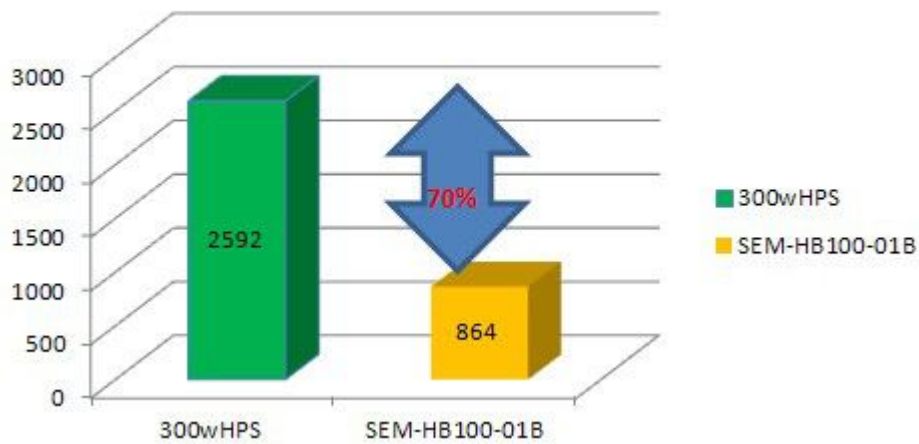
Mainly for large factories, workshops, office space, warehouse, highway toll stations, shopping malls, supermarkets, specialty stores, wholesale markets, exhibition halls, stadiums, and require high-power lighting.



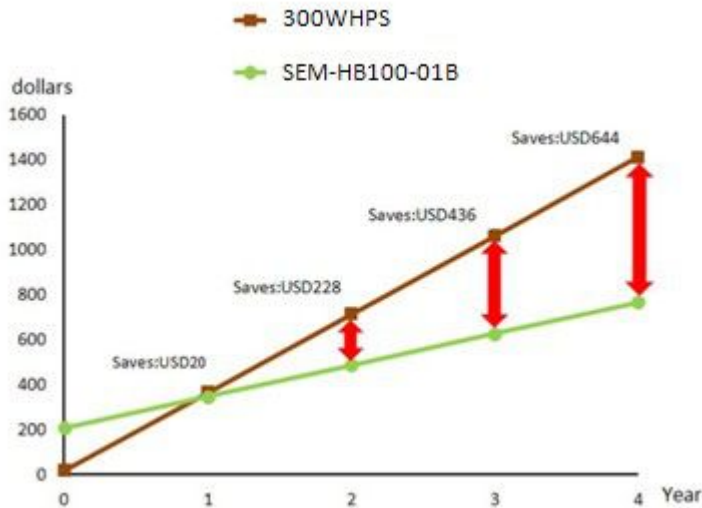
Energy Consumption Comparison

(compare with 300W HPS, working 24hours every day)

一年耗电量对比



(compare with 300W HPS, working 12hours every day, suppose US\$ 0.161 /KWh)



Packing Schematic

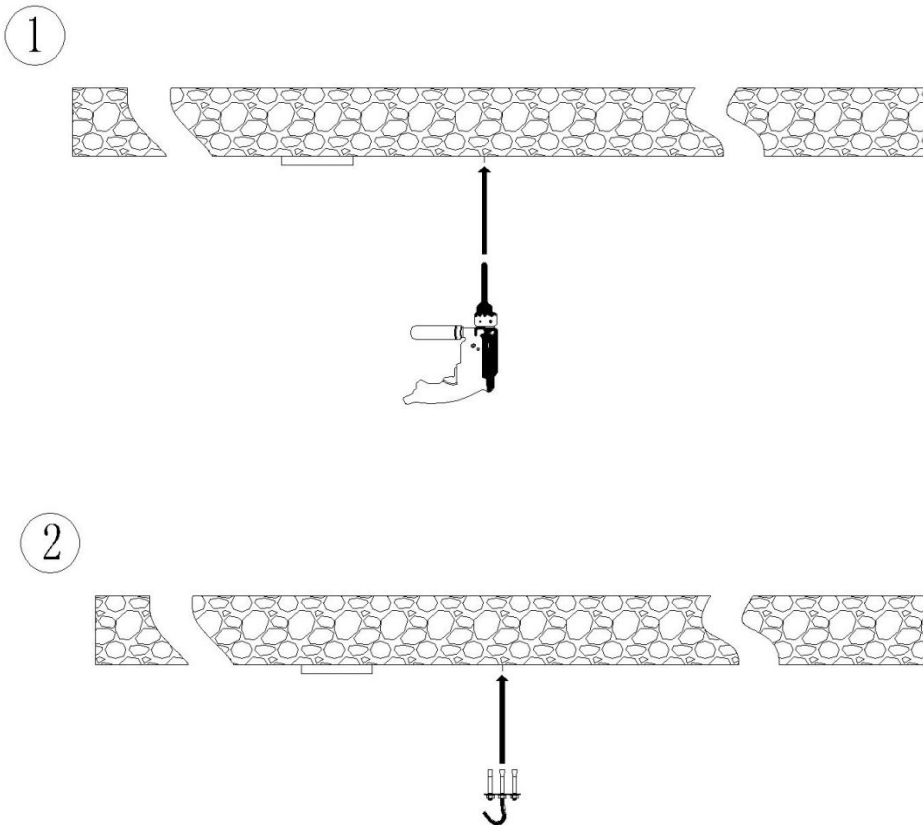
Packing Part	Size	Quantity in Carton	Gross Weight
Lamp body	53X48X26CM	2PCS	12.5KG
120°lampshade	58X57X37CM	30PCS	19.41KG
45°PC lampshade	47X46X65CM	30PCS	19.15KG



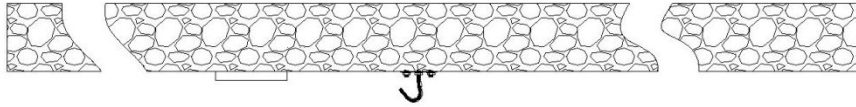
Installation Instructions

1. Tighten rings, rings for the M8 thread, put the ring into the hook, place Steady
2. When connect, wiring and wiring should be seal to prevent leakage.
3. external power cord, must take appropriate waterproof, leak measures
4. The lamps application should not be in violation of any fire codes.
5. When install, please ask for a professional electrician. 0.75-1mm² three-core cable wiring for: brown line for phase line, the blue line is neutral, green and yellow for the protection of ground wire.
6. working voltage:AC85-265/100-277V 50/60HZ, pls don't exceed the working voltage and frequency range.

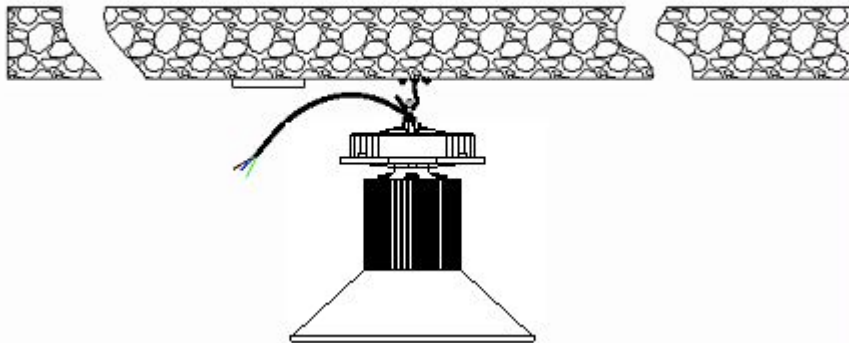
Installation introduction:



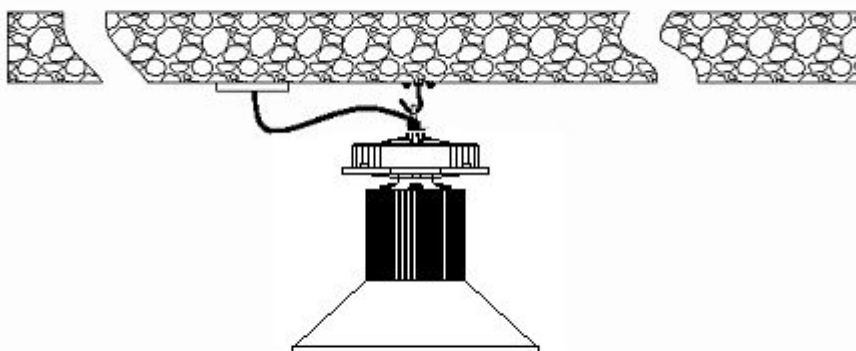
3







4

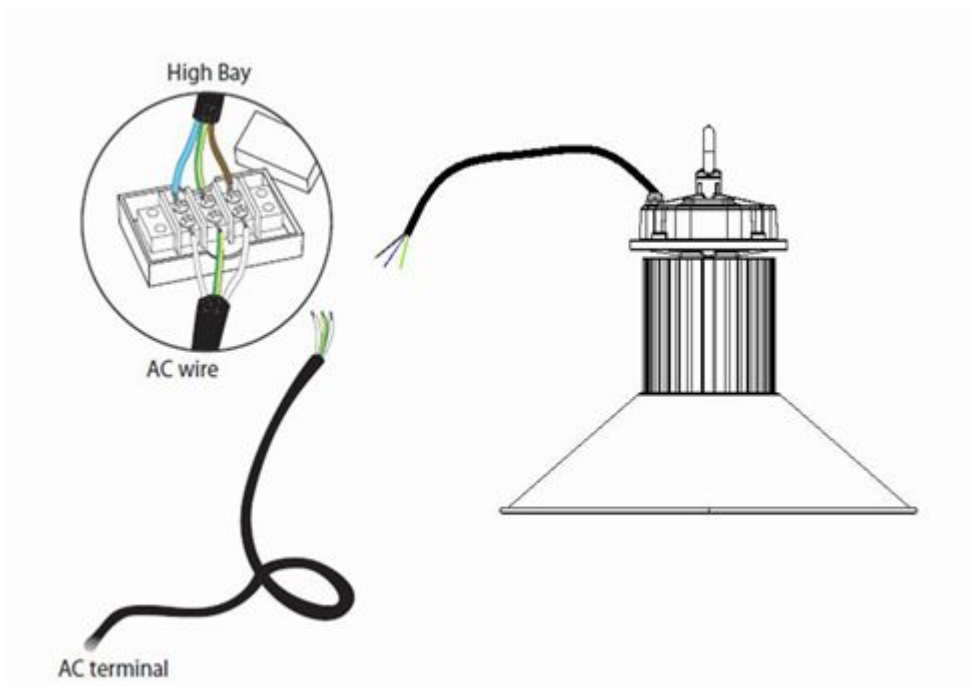


5



Electrical connection

Cable	Highbay input end	AC power end
Phase line		
Neutral line		
Protective grounding wire		



Dimming Applications:

