

# Technical Data Sheet\_ SHHB200W LED Dome High-bay Light

## Product Details

Code : SHHB200W LED Dome High-bay Light  
Model : High-bay Light  
Make : SHINE PLUS

## Electrical Data

Power Consumption : 200W  
Power consumption tolerance : +/-10%  
Operating Voltage Range : 100VAC-265VAC  
Frequency : 50 or 60 Hz  
Power Factor : > 0.95  
THD : < 10%  
Driver : high-stability isolated constant current  
No. Of Gear units : 4 units  
Efficiency : > 88%

## Light Data

Light source : LED OSRAM SMD 2835  
Efficacy : 120 lm/Watt  
Luminous Flux : 24000 Lm  
Optic Type : Wide Beam  
Luminaire light beam spread : 110 °  
Optic Material : Polycarbonate  
Optical cover / Lens Material : Polycarbonate  
Optical cover/lens finish : Frosted  
Colour temperature : 6500K  
Color Rendering Index : CRI > 80  
Color tolerance adjustment : ≤10SDCM

Average Life : L70@30,000 Hours.

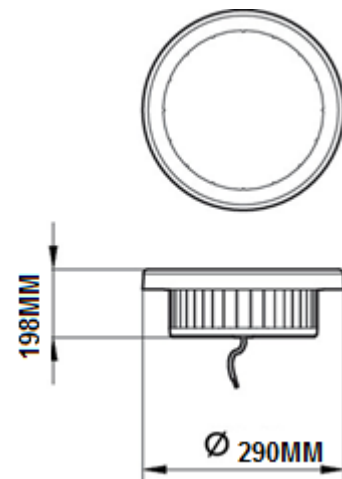
## Environmental

Working Temperature : -25 to + 40 °C  
Working Humidity : 10 to 90% RH  
Storage Temperature : 0°C TO + 85 °C  
Ingress Protection Code : IP44 (Protected from tools and small wires greater than 1 millimetre.)

Mech. Impact protection code : IK08 (The equivalent to the impact of a 1.7kg mass dropped from 300mm above the impacted surface)

## Protection

Input Overvoltage/Under voltage : Protected >300VAC with 5-10V hysteresis  
High voltage standing : Protected (440VAC)  
Output Short circuit : Protected  
Voltage Power Fluctuations/Surge : Protected (6KV for surge)  
Protection class IEC : Safety Class I



Mechanical Dimension

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## Physical Details

|                                  |  |
|----------------------------------|--|
| Housing Material                 | : Aluminium Die cast - High-purity aluminium radiator with high thermal conductivity   |
| Reflector Material/ shape        | : Aluminium/Dome   |
| Dimensions with reflector (dome) | : $\phi 310\text{mm} * \text{H}237\text{mm}$   |
| Net Weight                       | : 1.9 kg   |
| Gross weight                     | : 2.2kg  |
| Size of Color Box                | : 275mm*275mm*125mm  |
| Suitable Fixing                  | : Hoisting   |
| Connection                       | : Flying leads/wires   |
| Cable                            | : Cable 0.3 m without plug -0.75sq.mm three-core cable ,the brown wire is "L" wire, the blue wire is "N"wire, and the yellow-green wire is the "E".) |

**Applications** : Indoor

## Application Area:

It is suitable for supermarkets, large workshops, Steel mills, Warehouses, Airport, Highway toll stations, Gas stations, Exhibition halls, Gymnasiums, Bus waiting rooms, Railway station waiting rooms and other places requiring high space lighting.

**Warranty** : 2 Years

Figure and size of Lamp body :  $\phi 270 \times 100.7\text{MM}$

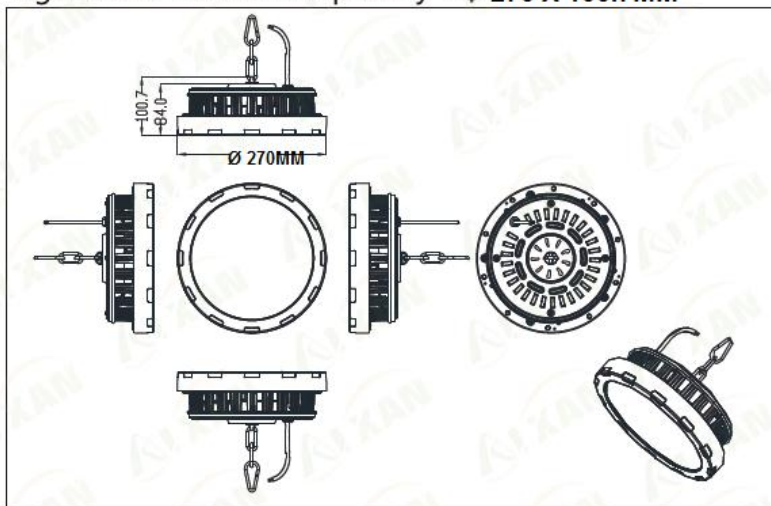
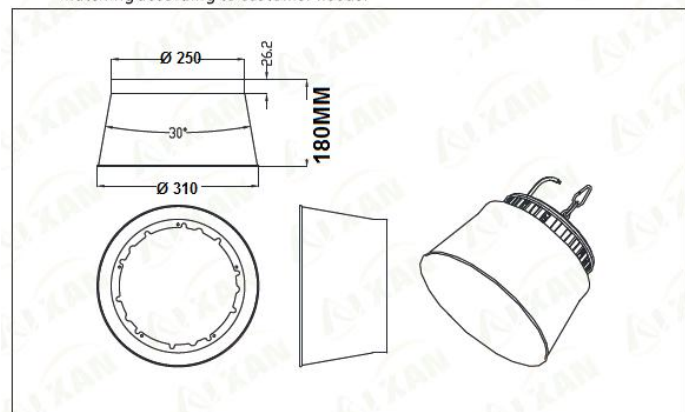


Figure and size of lampshade :  $\phi 310 \times 180 \text{MM}$

— Matching according to customer needs.

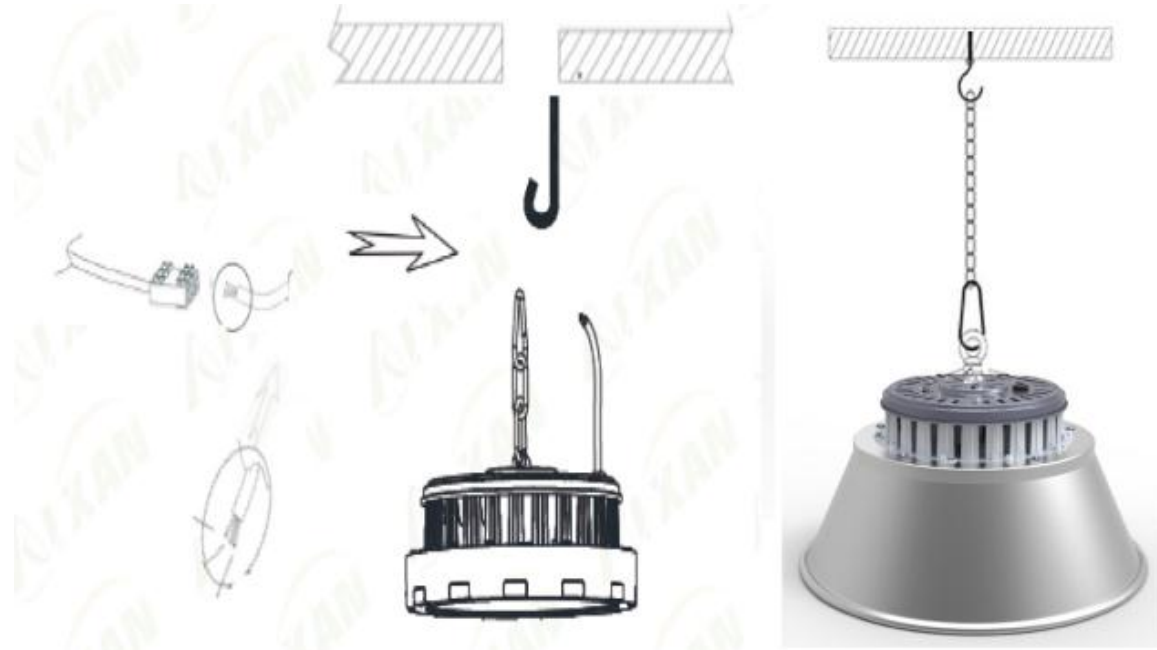


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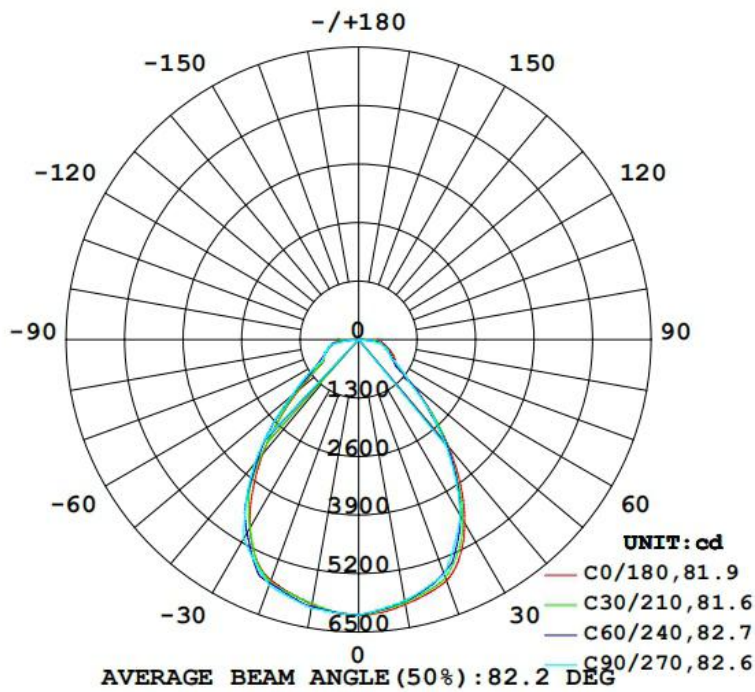
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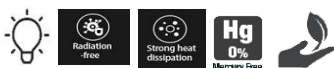
**Installation Height Suggestion:** (Suitable for installation at a height of 6-12m)



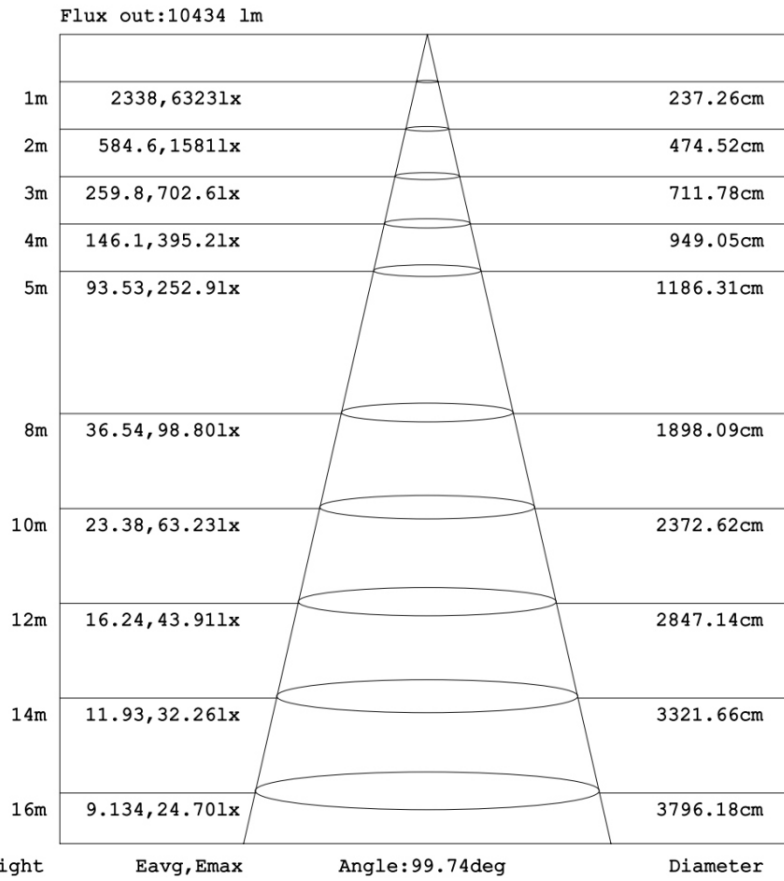
## Surface of intensity Distribution:



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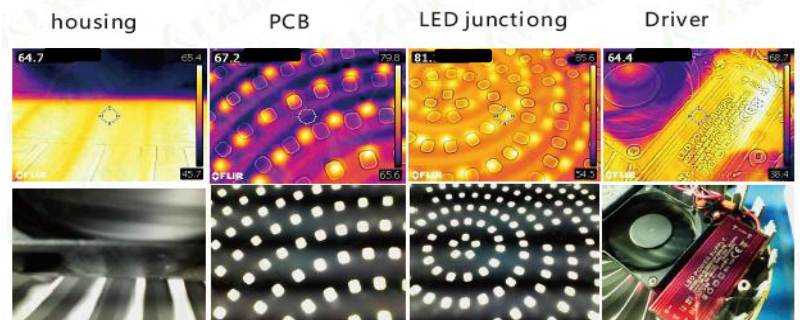


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

## Temperature test report

| Product Name | position      | Temperature | Ambient temperature | Temperature rise |
|--------------|---------------|-------------|---------------------|------------------|
| HB200W       | LED junctiong | 86.6 °C     | 34.5 °C             | 52.1 °C          |
|              | PCB           | 72.7 °C     | 34.5 °C             | 38.2 °C          |
|              | housing       | 70.6 °C     | 34.5 °C             | 36.1 °C          |
|              | Driver        | 66.2 °C     | 34.5 °C             | 31.7 °C          |

## Thermal imagery



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