

Product Specification

LED High Bay Light

AST-HB11



Notes:

1. This specification is for our regular product specifications.
2. The right of final interpretation of this specification is reserved by International Building Supply Corporation.

1. Description

- ◆ LED High Bay Lights
- ◆ Comes with different plastic diffuser light angles
- ◆ Various color options: black, white, or customized
- ◆ Applications: warehouse, factory and workshops; highway toll station and gas station; exhibition hall; Gymnasium and supermarket, etc

2. Characteristics

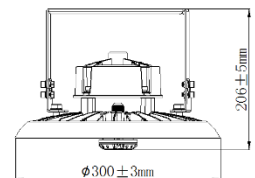
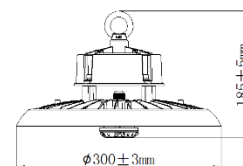
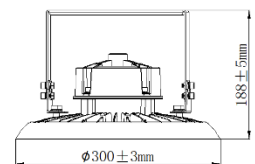
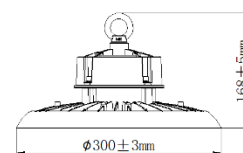
- ◆ UL cUL DLC certificate.
- ◆ Lumileds, High CRI (Lumileds or Samsung chip option available for 240W model)
- ◆ Input voltage AC100-277V.
- ◆ No UV or IR in the beam.
- ◆ Easy to install and operate.
- ◆ Energy saving, Long lifespan.
- ◆ Light is soft and uniform, safe to eyes.
- ◆ Green and eco-friendly without mercury.
- ◆ Output constant current lever can be adjusted through output cable with 1-10V.

Product Image



Dimensions

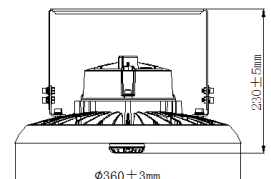
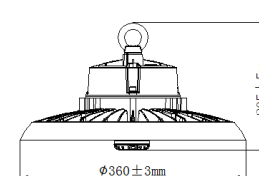
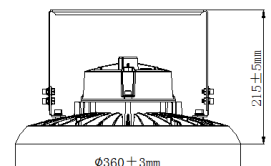
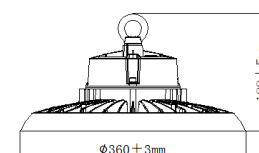
100w & 150w model:



Pendant

Surface-mounted

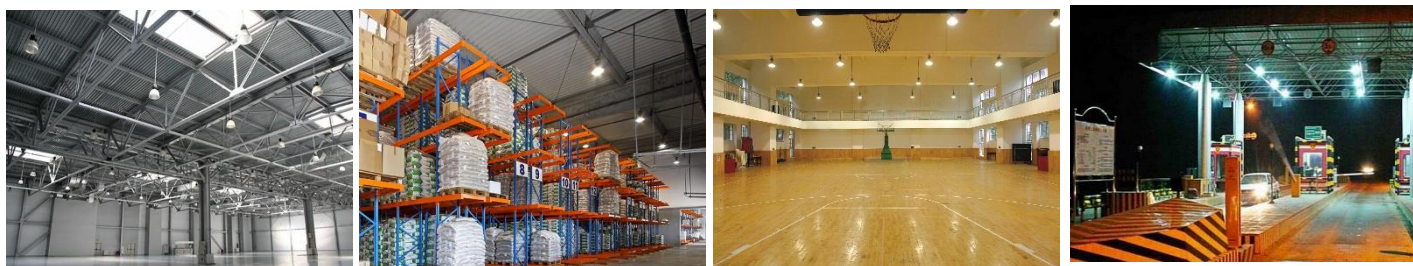
200w & 240w model:



Pendant

Surface-mounted

3. Application



4. Technical Parameters

Code	AST-HB11-100WH1BT2A1-abcd	AST-HB11-150WH1BT2A1-abcd	AST-HB11-200WH1BT2A1-abcd	AST-HB11-240WH1XYA1-abcd
Power(W)	100W	150W	200W	240W
PF	≥ 0.9			
Input Voltage(V)	AC100-277V, 50/60Hz			
Efficacy(lm/W)	136-142lm/W	135-138lm/W	136-143lm/W	138-146lm/W
Lumen Output	13952-14623lm	20297-20899lm	27424-29063lm	33120-35040lm
CCT(K)	3000K/4000K/4500K/5000K/5700K			3000K/4000K/5000K/5700K
Dimming	1-10V Dimming Standard			
Waterproof Rating	IP65			
CRI	>80			
Beam Angle	90 Degree			
Material	Die-cast Aluminum			
Operating/storage Temperature	Operation: -40°C - 45°C(with motion sensor) / -30°C - 50°C(without motion sensor) Storage: -40°C - 80°C			
Operating/Storage Humidity	Operation: 20%- 90% RH/ Storage: 10%- 95% RH			
Certification	UL/cUL/DLC			
Warranty	5 years warranty with 24/7 operating hours Luminaire lifetime at 25°C.			

Notes:

- “X” stands for LED manufactory, could be any letter of: B for lumileds, E for Samsung or other chips
- “Y” can be “T1” to “T9”, represents plastic diffuser light angle type: “T1” for 60 Degree, “T9” for 90 degree
- “a” can be any two letters to represent lamp colors: WH=White, BH=Black, or Customized;
- “b” can be “S”, “EM” or blank for surge-protective device provided and emergency power supply or not
- “c” can be “M” or blank for motion sensor provided or not
- “d” can be any two digits to represent CCT: 30=3000K, 40=4000K, 50=5000K, 57=5700K

5. Photometric Data

100W

Color Temperature 3000K

Luminaire Property

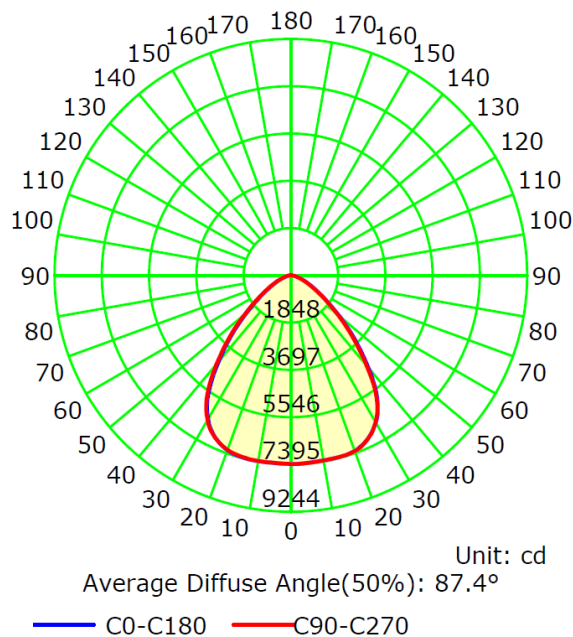
Luminaire Manufacturer:
 Luminaire Category:
 Lamp Catalog:
 Number of Lamps:
 Luminous Length (mm):
 Luminous Height (mm):
 Current: 0.858 A
 Power Factor: 0.995

Luminaire Description:
 Lamp Description:
 Lumens per Lamp:
 Luminous Width (mm):
 Voltage: 120.0 V
 Power: 102.40 W

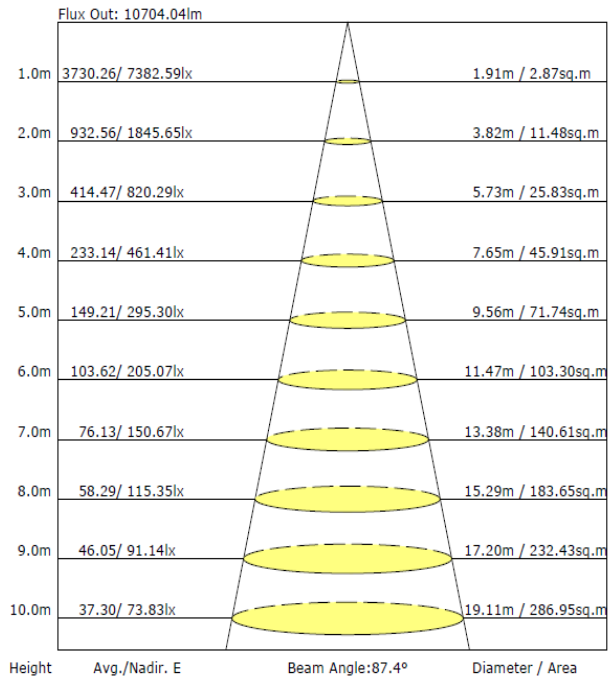
Photometric Results

CIE Class: Direct
 Measurement Flux: 14796.1 lm
 Downward Ratio: 100%
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 128.4, 128.7, 128.5, 129.0
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 87.4, 87.4, 87.9, 87.4
 Luminaire Efficacy Rating (LER): 144.54
 Max. Intensity: 7395.53 cd
 S/MH(C0/C180): 1.28
 Total Rated Lamp Lumens: 14796.1 lm
 Efficiency: 100%
 Upward Ratio: 0%
 C0r0 Intensity: 7382.59 cd
 Pos of Max. Intensity: H337.5 V6
 S/MH(C90/C270): 1.28

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



150W

Color Temperature 3000K

Luminaire Property

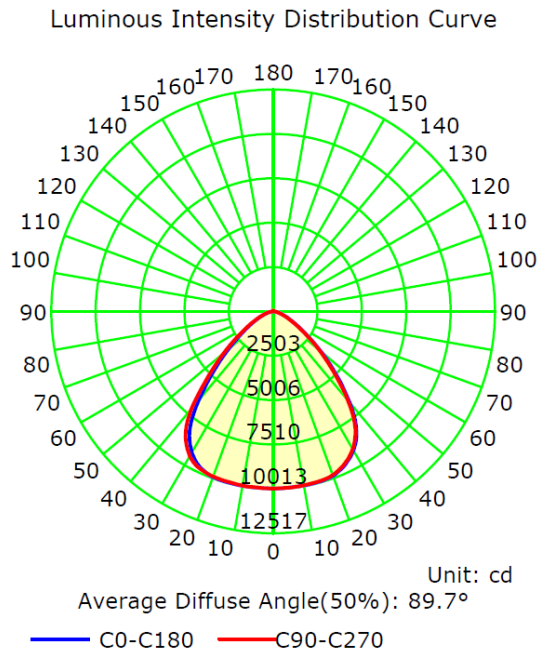
Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog:
Number of Lamps:
Luminous Length (mm):
Luminous Height (mm):
Current: 1.265 A
Power Factor: 0.994

Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm):
Voltage: 120.0 V
Power: 150.89 W

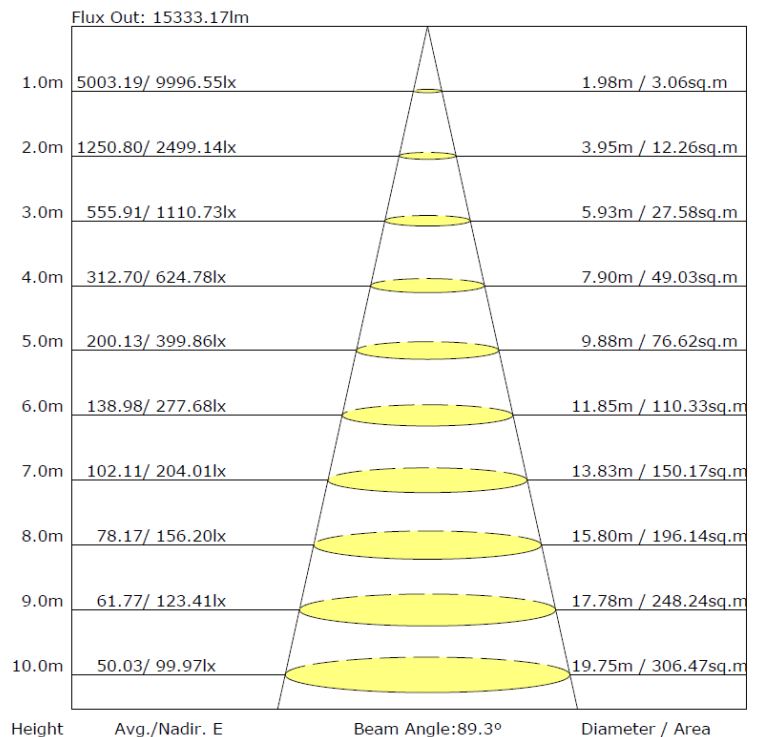
Photometric Results

CIE Class: Direct
Measurement Flux: 20881.1 lm
Downward Ratio: 99%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 129.1, 129.5, 129.6, 129.9
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 89.3, 90.0, 89.7, 89.6
Luminaire Efficacy Rating (LER): 138.44
Max. Intensity: 10013.7 cd
S/MH(C0/C180): 1.32

Total Rated Lamp Lumens: 20881.1 lm
Efficiency: 100%
Upward Ratio: 1%
C0r0 Intensity: 9996.55 cd
Pos of Max. Intensity: H67.5 V2
S/MH(C90/C270): 1.33



The Average Illuminance Effective Figure



200W

Color Temperature 3000K

Luminaire Property

Luminaire Manufacturer:
 Luminaire Category:
 Lamp Catalog:
 Number of Lamps:
 Luminous Length (mm):
 Luminous Height (mm):
 Current: 1.692 A
 Power Factor: 0.992

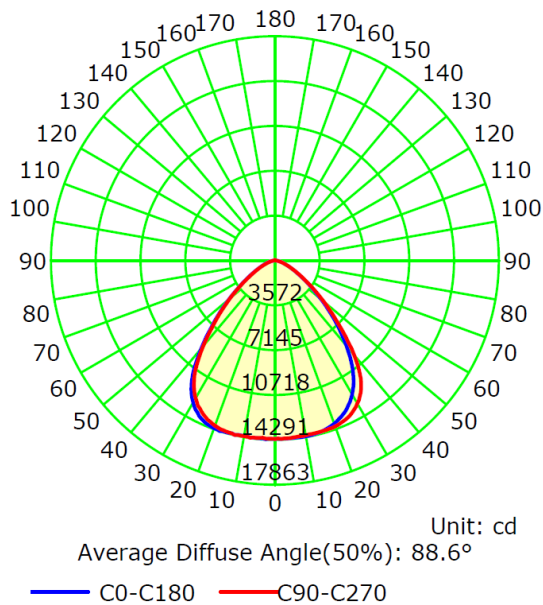
Luminaire Description:
 Lamp Description:
 Lumens per Lamp:
 Luminous Width (mm):
 Voltage: 120.0 V
 Power: 201.38 W

Photometric Results

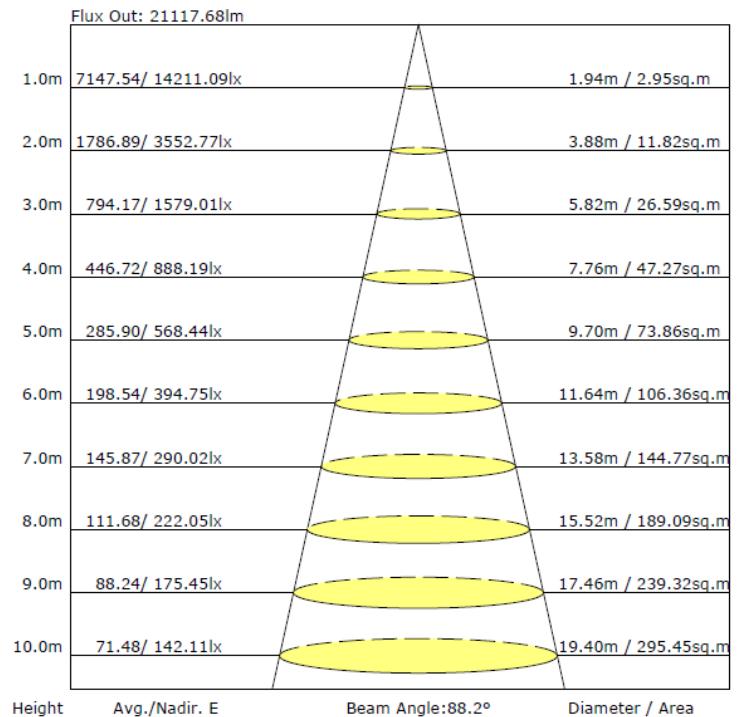
CIE Class: Direct
 Measurement Flux: 29112.5 lm
 Downward Ratio: 99%
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 129.2, 129.0, 129.1, 128.9
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 88.2, 88.9, 88.3, 88.9
 Luminaire Efficacy Rating (LER): 144.62
 Max. Intensity: 14291.17 cd
 S/MH(C0/C180): 1.29

Total Rated Lamp Lumens: 29112.5 lm
 Efficiency: 100%
 Upward Ratio: 1%
 C0r0 Intensity: 14211.09 cd
 Pos of Max. Intensity: H180 V18
 S/MH(C90/C270): 1.31

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



240W

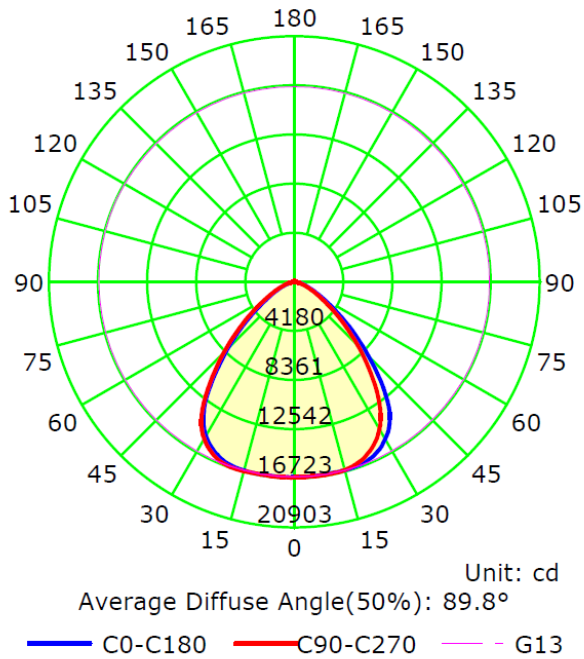
Photometric Results

CIE Class: Direct
Measurement Flux: 34588.5 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H90.7
Vertical Diffuse Angle(50%): V89
Luminaire Efficacy Rating (LER): 143.93
Max. Intensity: 16723.03 cd
S/MH(C0/C180): 1.33

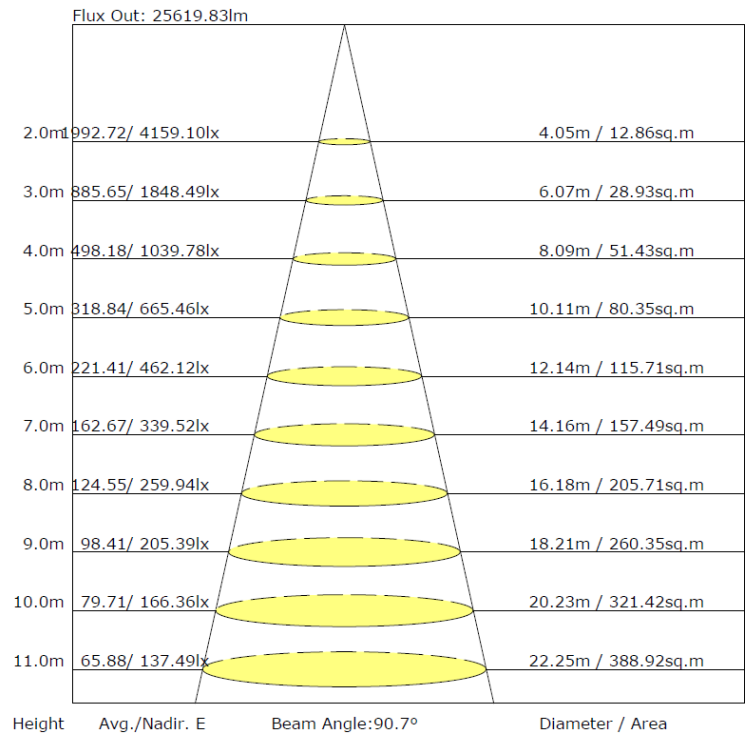
Total Rated Lamp Lumens: 34588.5 lm
Efficiency: 100%
Upward Ratio: 1%

Central Intensity: 16636.41 cd
Pos of Max. Intensity: H247.5 V13
S/MH(C90/C270): 1.29

Luminous Intensity Distribution Curve



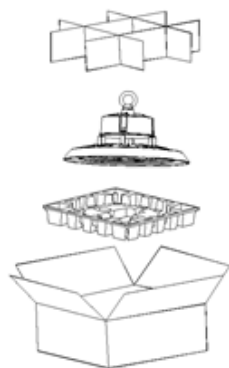
The Average Illuminance Effective Figure



Product Specification

6. Package

Lamp Type		AST-HB11-100WH1BTA1-abcd	AST-HB11-150WH1BTA1-abcd	AST-HB11-200WH1BTA1-abcd	AST-HB11-240WH1XYA1-abcd
Pendant	Net Weight(kg)	2.4		3.7	3.6
	Total Weight(kg)	3.4		4.8	4.7
Surface mounted	Net Weight(kg)	2.6		4.6	4.5
	Total Weight(kg)	3.5		5.7	5.6



Note: Tolerance of Carton Size: ± 15 MM, Tolerance of Weight: $\pm 10\%$.

7. Notice for Users

- ◆ Please turn off power before install or change assembly parts.
- ◆ The input voltage and lamps should be matched, after connecting the power line,
- ◆ Please make sure the wiring section is insulated.
- ◆ Non-professionals must not install and disassemble the lamps.

8. Trouble Shootings

Troubles	Check points
Flickering of the light	Turn off the power and turn on again in 3 minutes. If same phenomena occur, then call agencies.
Out of working	Please check the connection.