



SMART ENERGY SOLUTIONS  
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P/N:AST-HB18-150WS1B1T2A1-abcd

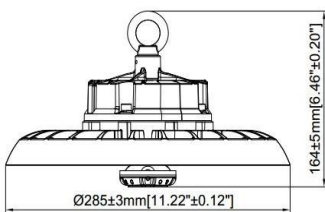
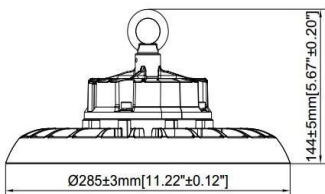
**Note:**

AST= Company name;  
 HB18 = Product series, LED High Bay Light;  
 150W= Rating Power;  
 S1= Driver manufacturer, LiFUD series;  
 B1= LED manufacturer, Lumileds2835.  
 T2 = 90°PC lens;  
 A1=Version number  
 "a" can be any two letters to represent lamp colors;  
 BH=Black, WH=White, or Customized;  
 "b" can be "10SP", "20SP" or blank for Surge-Protective Device provided or not,  
 "c" can be "M", "P" or blank for DC Motion Sensor, DC PIR sensor provided or not  
 "d" can be any digits for CCT,  
 40=4000K ,45=4500K ,50=5000K 57=5700K

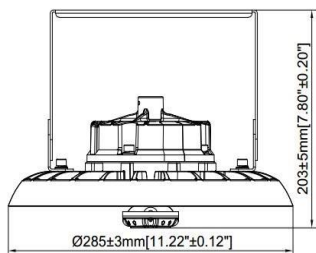
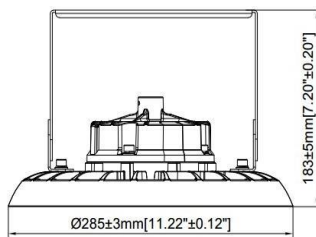


**DIMENSIONS**

**Pendent**



**Surface-mounted**



**ADVANTAGE**

- UL cUL DLC5.1 Premium certificate.
- Lumileds Chip, high CRI.
- Input voltage 120-277VAC.
- Output constant current lever can be adjusted through output cable with 0-10V.
- No UV or IR in the beam.
- Easy to install and operate.
- Energy saving, long lifespan.
- Light is soft and uniform, safe to eyes.
- Instant start, NO flickering, NO humming.
- Green and eco-friendly without mercury.

**APPLICATION**

- Warehouse, factory and workshops;
- Highway toll station and gas station;
- Exhibition hall;
- Gymnasium and supermarkets, etc.

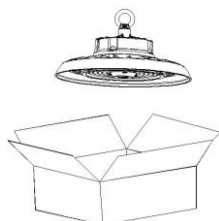
## SPECIFICATIONS

<b>OPTICAL</b>	Input Power (Tolerance : ±10%)	150W			
	Color Temperature	4000K	4500K	5000K	5700K
	Lumen (Tolerance : ±10%)	20850LM	21000LM	21150LM	21300LM
	Efficacy (Tolerance : ±3%)	139LM/W	140LM/W	141LM/W	142LM/W
	CRI	>80			
	Color Consistency	<6 Steps (or <6 SDCM)			
	UGR	<28 (X=4H, Y=8H; S/H=1; Reflectances: 70%/50%/20%)			
	Diffuser Type	PC Lens			
	Beam Angle (50%) (Tolerance : ±15%)	90 Degree			
<b>ELECTRICAL</b>	Input Voltage and Frequency	120-277VAC, 50/60Hz			
	PF (Tolerance : -3%)	≥0.9			
	THD (Tolerance : +5%)	≤20%			
	Flicker Percent	<5%			
	Driver Brand	LiFUD			
	Driver Model	LF-FHB150YAIV			
	Driver Surge protection	L/N-PE: 6kV, L-N: 6kV			
	Dimming	0-10V dimming standard			
	Sensor type	Daylight Sensor, Occupancy Sensor, Multifunction Sensor, Integral sensor, Receptacle			
	Optional Accessory	Motion microwave Sensor, Motion PIR Sensor Surge-protective Device			
<b>MATERIALS</b>	LED Brand	Lumileds			
	LED Type	SMD2835			
	LED QTY	240 PCS			
	Housing	Die-cast aluminum			
	Housing Color	Black, White, or Customized			
	Waterproof Rating	WET (IP65)			
<b>OTHERS</b>	Operating Temperature	Without Motion Sensor: -40°C TO 50°C			
		With Motion Sensor: -30°C TO 50°C			
	Storage Temperature	-40°C TO 80°C			
	Operating Humidity	20% - 90% RH			
	Storage Humidity	10% - 95% RH			
Warranty	5 years				

## PACKAGE

Lamp Type	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Pendent	300*300*130mm [11.81*11.81*5.12 inch]	1 PC	1.8KG [3.96 LBS]	2.5KG [5.5 LBS]
Surface-mounted	300*300*130mm [11.81*11.81*5.12 inch]	1 PC	2.4 KG [5.28 LBS]	3.1KG [6.82 LBS]

Tolerance of Carton Size: ±15 MM[±0.59 inch], Tolerance of Weight: ±10%.



## LIGHT DISTRIBUTION TESTING PARAMETERS

### Luminaire Property

Luminaire Manufacturer:  
 Luminaire Category:  
 Lamp Catalog:  
 Number of Lamps:  
 Luminous Length (mm): -181  
 Luminous Height (mm):  
 Current: 1.246 A  
 Power Factor: 0.997

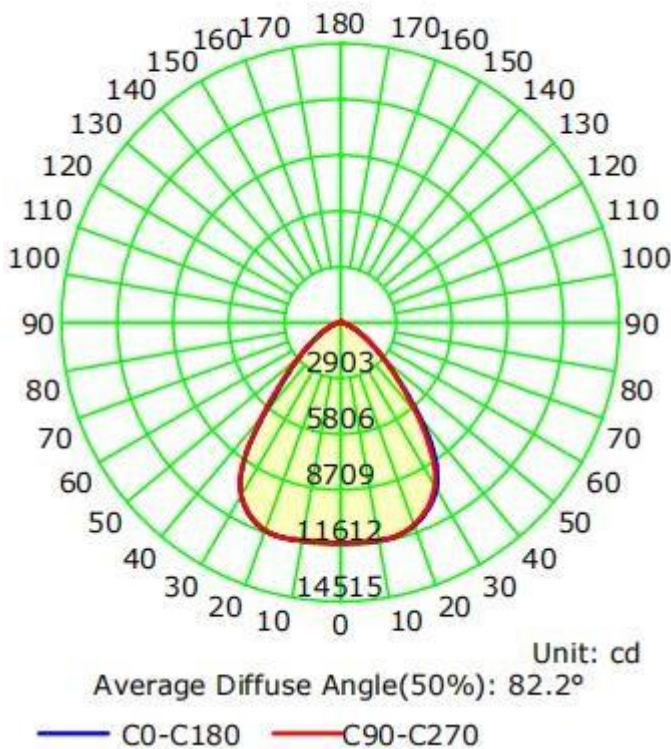
Luminaire Description:  
 Lamp Description:  
 Lumens per Lamp:  
 Luminous Width (mm): -181  
 Voltage: 120.0 V  
 Power: 149.09 W

### Photometric Results

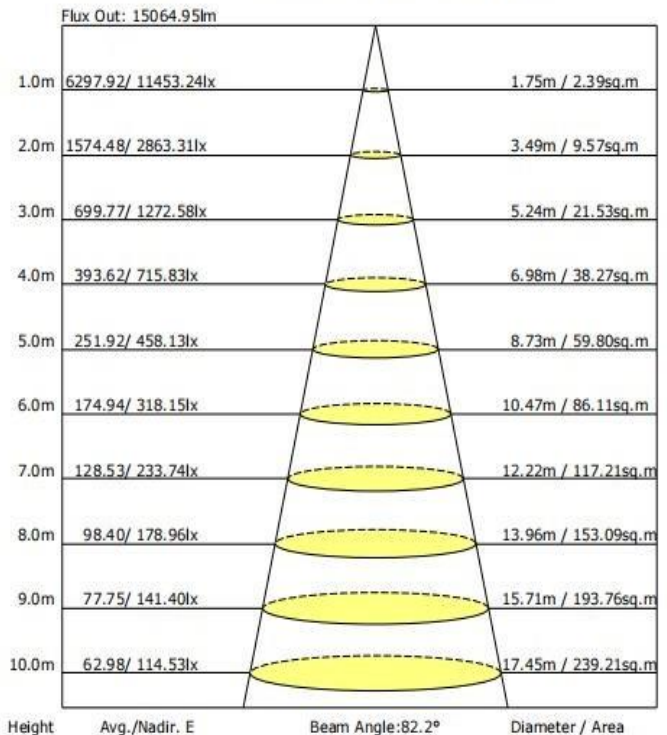
CIE Class: Direct  
 Measurement Flux: 21118.2 lm  
 Downward Ratio: 100%  
 Horizontal Diffuse Angle(10%,50%): H123.2,H82.3  
 Vertical Diffuse Angle(10%,50%): V123.1,V82.3  
 Luminaire Efficacy Rating (LER): 141.70  
 Max. Intensity: 11612.23 cd  
 S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 21118.2 lm  
 Efficiency: 100%  
 Upward Ratio: 0%  
 C0r0 Intensity: 11453.24 cd  
 Pos of Max. Intensity: H225 V17  
 S/MH(C90/C270): 1.27

Luminous Intensity Distribution Curve



The Average Illuminance Effective Figure



## NOTICE FOR USER

- 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.
- No-professionals, must not install and disassemble the lamps.

## 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.