



SMART ENERGY SOLUTIONS
 E-mail: sales@smartlednc.com
www.smartlednc.com



P/N: AST-PHB08C-220WBMP1A1-abWf

Note:

AST= Company name;

PHB08C = Product series, LED Linear High Bay Light;

220W= Rating Power;

B= manufacturer of LED, Lumileds(2835);

M= Diffuser type, Matte Lens;

P1= Driver manufacturer, Class P driver (Tosmart);

A1= Version number;

a=can be any two letters to represent lamp colors,

WH=White, or Customized;

b=can be "AMS"/ "DMS" or "APS"/ "DPS" or blank

for AC/DC Motion Microwave sensor or

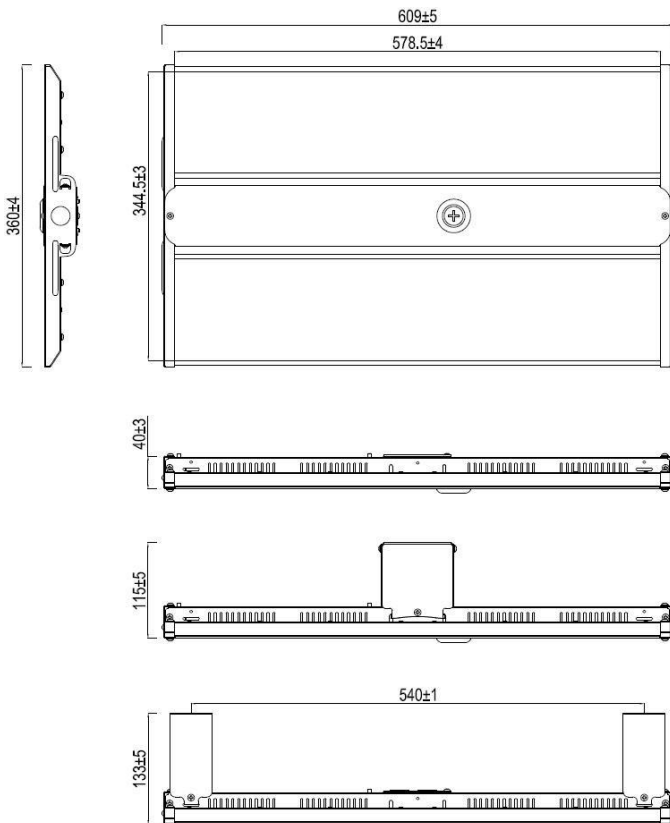
AC/DC Motion PIR sensor provided or not;

W=represents for Wattage adjustable;

f= can be any digits for CCT, 4000K,4500K,5000K,5700K .



DIMENSIONS



ADVANTAGE

- UL cUL DLC 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;
- Exhibition hall and supermarkets, etc.

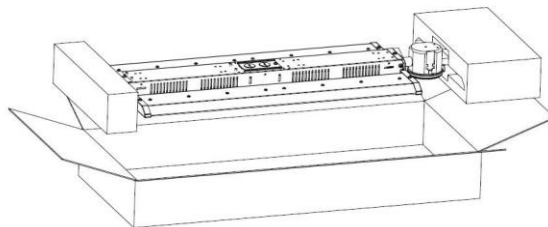
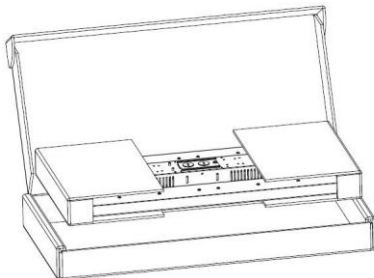
SPECIFICATIONS

| | | | | | |
|-------------------|-------------------------------------|---|----------|----------|----------|
| OPTICAL | Input Power (Tolerance : ±10%) | 220W(Wattage adjustable range: 25%-100%) | | | |
| | Color Temperature | 4000K | 4500K | 5000K | 5700K |
| | Lumen (Tolerance : ±10%) | 29892 LM | 29947 LM | 30003 LM | 30115 LM |
| | Efficacy (Tolerance : ±3%) | 135 LM/W | 135 LM/W | 136 LM/W | 136 LM/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 | Matte Lens | | | |
| | Beam Angle (50%) (Tolerance : ±15%) | 90 Degree | | | |
| ELECTRICAL | Input Voltage and Frequency | 120-277VAC, 50/60Hz | | | |
| | PF (Tolerance : -3%) | ≥0.9 | | | |
| | THD (Tolerance : +5%) | ≤20% | | | |
| | Flicker Percent | ≤30% | | | |
| | Driver Brand | Tosmart | | | |
| | Driver Model | AST-CNB-200U-130V-A (Non-isolated driver) | | | |
| | Driver Surge protection | L/N-PE: 2kV, L-N: 2kV | | | |
| | Dimming | 0-10V dimming (dimming scope 0-100%) | | | |
| | Sensor Type | Daylight Sensor,Occupancy Sensor,Multifunction Sensor | | | |
| | Optional Accessory | AC/DC Motion Microwave sensor, AC/DC Motion PIR sensor | | | |
| MATERIALS | LED Brand | Lumileds | | | |
| | LED Type | SMD 2835 | | | |
| | LED QTY | 390 PCS | | | |
| | Housing | IRON | | | |
| | Housing Color | White, or Customized | | | |
| | Waterproof Rating | DAMP (IP20) | | | |
| OTHERS | Operating Temperature | Without Motion Sensor: -30°C TO 50°C With Motion Sensor: -30°C TO 50°C | | | |
| | Storage Temperature | -30°C TO 80°C | | | |
| | Operating Humidity | 20% - 90% RH | | | |
| | Storage Humidity | 10% - 95% RH | | | |
| | Warranty | 5 years | | | |

PACKAGE Drop test: ISTA-3B

| | Carton Size | Qty / Carton | Net Weight / Carton | Gross Weight / Carton |
|-----------------------|----------------|--------------|---------------------|-----------------------|
| Outer box (No Sensor) | 660*380*65 MM | 1 PC | 3.1KG/PC | 4.2KG |
| Outer box(AC Sensor) | 755*400*100 MM | 1 PC | 3.4KG/PC | 4.9KG |

Tolerance of Carton Size: ±15 MM, Tolerance of Weight: ±10%.



LIGHT DISTRIBUTION TESTING PARAMETERS

Photometric Results

CIE Class: Direct

Measurement Flux: 29891.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(10%,50%): H144.6,H90.3

Vertical Diffuse Angle(10%,50%): V138.8,V99.7

Luminaire Efficacy Rating (LER): 135.47

Max. Intensity: 12863.3 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 29891.6 lm

Efficiency: 100%

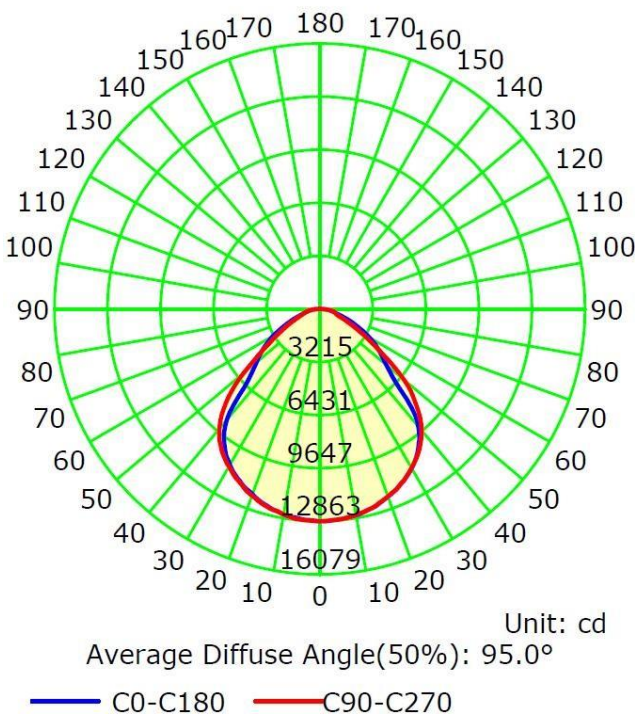
Upward Ratio: 0%

C0r0 Intensity: 12861.11 cd

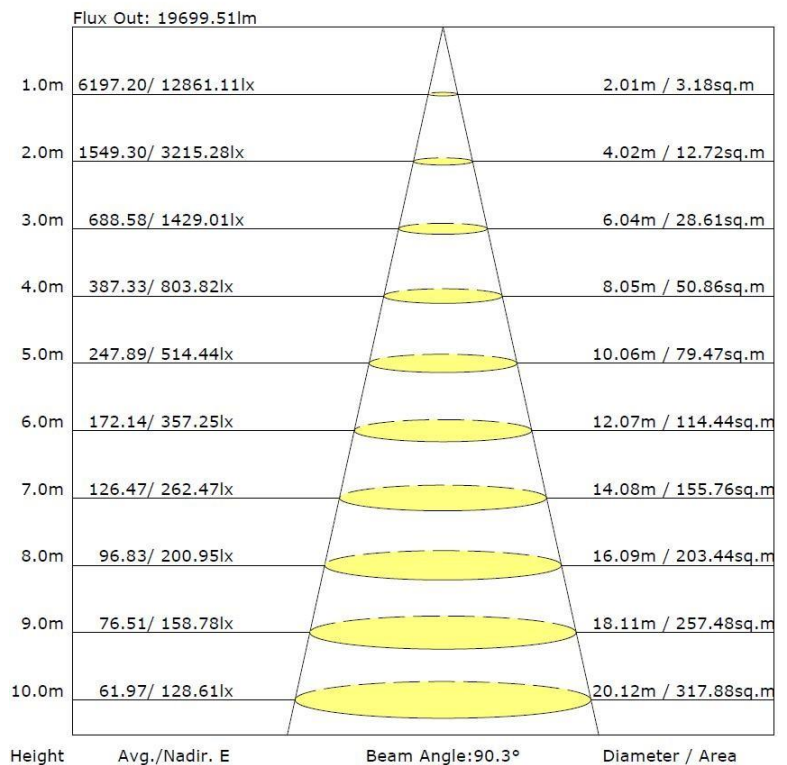
Pos of Max. Intensity: H112.5 V1

S/MH(C90/C270): 1.28

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. |