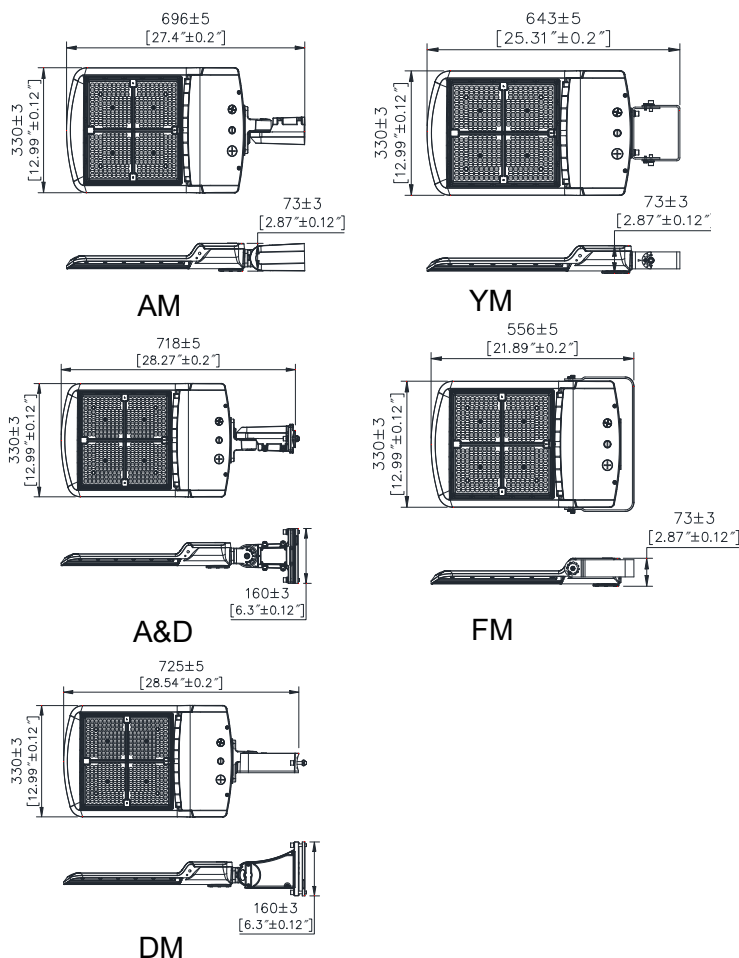




## DIMENSIONS



P/N: AST-S-G12C-300WBT3DA1-abcdefW

Note:

AST = Company name

S-G12C = Product series, LED Shoebox Light

300W = Rating Power

B = LED manufacturer, Lumileds 2835

T3 = Diffuser light angle type, TYPE III

D=Color Tunable

A1 = Version number

"a" can be any two letters for lamp colors;

"b" represent Photocell, which can be "3RP", "3NP", "5RP", "5NP", "7RP", "7NP" for Photocell type provided or blank for no Photocell provided.

"c" can be "10SP", "20SP" or blank for Surge protector type provided or not;

"d" can be "M", "DM", "DP" or blank for DC Motion Sensor, DC PIR Sensor provided or not

"e" represent bracket, can be "AM", "DM", "YM", "A&D"

## 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

- Outdoor basketball court, tennis court.
- BA&Dinton court, the football field.
- The school playground, stadium.
- Community leisure entertainment plaza, road luminaire etc.



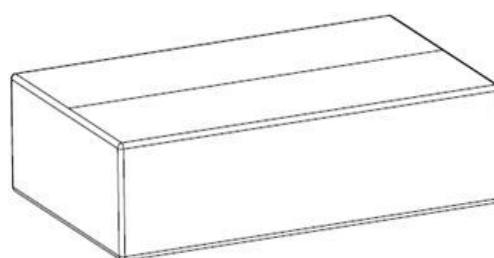
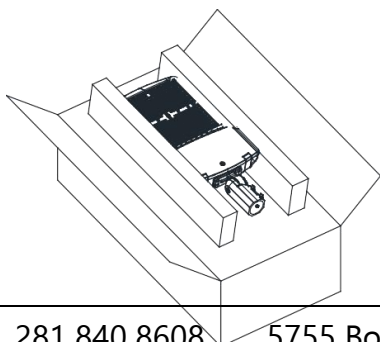
## SPECIFICATIONS

|                   |                                            |                                                                         |          |          |
|-------------------|--------------------------------------------|-------------------------------------------------------------------------|----------|----------|
| <b>OPTICAL</b>    | Input Power (Tolerance : $\pm 10\%$ )      | 300W(Wattage adjustable range 95%-30%)                                  |          |          |
|                   | Color Temperature(Color Tunable)           | 4000K                                                                   | 5000K    | 5700K    |
|                   | Lumen (Tolerance : $\pm 10\%$ )            | 41100 LM                                                                | 45900 LM | 41400 LM |
|                   | Efficacy (Tolerance : $\pm 3\%$ )          | 137 LM/W                                                                | 153 LM/W | 138 LM/W |
|                   | CRI                                        | >80                                                                     |          |          |
|                   | Color Consistency                          | <7 Steps (or <7 SDCM)                                                   |          |          |
|                   | BUG                                        | B5-U0-G5                                                                |          |          |
|                   | Distribution Pattern                       | Type III                                                                |          |          |
|                   | Beam Angle (50%) (Tolerance : $\pm 15\%$ ) | 150*90 Degree                                                           |          |          |
| <b>ELECTRICAL</b> | Input Voltage and Frequency                | 120-277VAC, 50/60Hz                                                     |          |          |
|                   | PF (Tolerance : -3%)                       | $\geq 0.9$                                                              |          |          |
|                   | THD (Tolerance : +5%)                      | $\leq 20\%$                                                             |          |          |
|                   | Flicker Percent                            | <5%                                                                     |          |          |
|                   | Driver Brand                               | SOSEN                                                                   |          |          |
|                   | Driver Model                               | SS-320NH-E260BH                                                         |          |          |
|                   | Driver Surge protection                    | L/N- PE: 6kV, L-N: 6kV                                                  |          |          |
|                   | Dimming                                    | 0-10V dimming standard                                                  |          |          |
|                   | Sensor Type                                | Occupancy Sensor, Exterior Photocell, Integral Sensor Receptacle        |          |          |
| <b>MATERIALS</b>  | Optional Accessory                         | Photocontrol, Surge-protective Device, Motion Sensor                    |          |          |
|                   | LED Brand                                  | Lumileds                                                                |          |          |
|                   | LED Type                                   | SMD2835                                                                 |          |          |
|                   | LED QTY                                    | 364*2 PCS                                                               |          |          |
|                   | Housing                                    | Die-cast aluminum                                                       |          |          |
|                   | Housing Color                              | Bronze, Black, or Customized                                            |          |          |
| <b>OTHERS</b>     | Waterproof Rating                          | WET (IP65)                                                              |          |          |
|                   | Operating Temperature                      | Without Motion Sensor: -40°C TO 50°C; With Motion Sensor: -35°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

| Stent Type | Lamps Net Weight | Size                                 | Qty/ Carton | Weight/ Carton   |
|------------|------------------|--------------------------------------|-------------|------------------|
| AM         | 5.0Kg[11.0 LBS]  | 765*380*148mm[30.12*14.96*5.83 inch] | 1           | 6.4Kg[14.08 LBS] |
| DM         | 5.2Kg[11.44 LBS] | 765*380*148mm[30.12*14.96*5.83 inch] | 1           | 6.6Kg[14.52 LBS] |
| YM         | 6.0Kg[13.2 LBS]  | 700*380*148mm[27.56*14.96*5.83 inch] | 1           | 7.3Kg[16.06 LBS] |
| A&D        | 5.3Kg[11.66 LBS] | 765*380*148mm[30.12*14.96*5.83 inch] | 1           | 6.7Kg[14.74 LBS] |
| FM         | 5.9Kg[12.98 LBS] | 700*380*148mm[27.56*14.96*5.83inch]  | 1           | 7.2Kg[15.84 LBS] |

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



## LIGHT DISTRIBUTION TESTING PARAMETERS

### Luminaire Property

Luminaire Manufacturer:  
Luminaire Category:  
Lamp Catalog:  
Number of Lamps:  
Luminous Length (mm):  
Luminous Height (mm):  
Current: 2.568 A  
Power Factor: 0.995

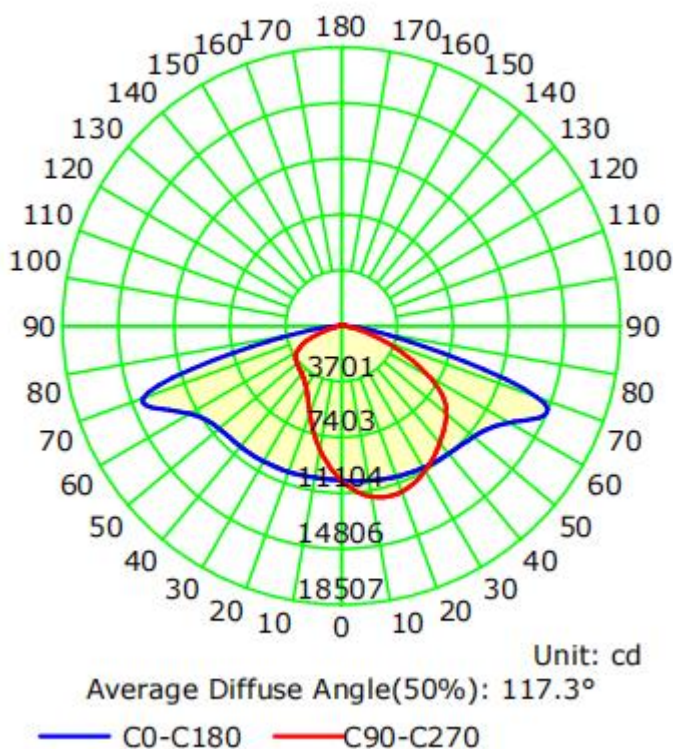
Luminaire Description:  
Lamp Description:  
Lumens per Lamp:  
Luminous Width (mm):  
Voltage: 120.0 V  
Power: 306.56 W

### Photometric Results

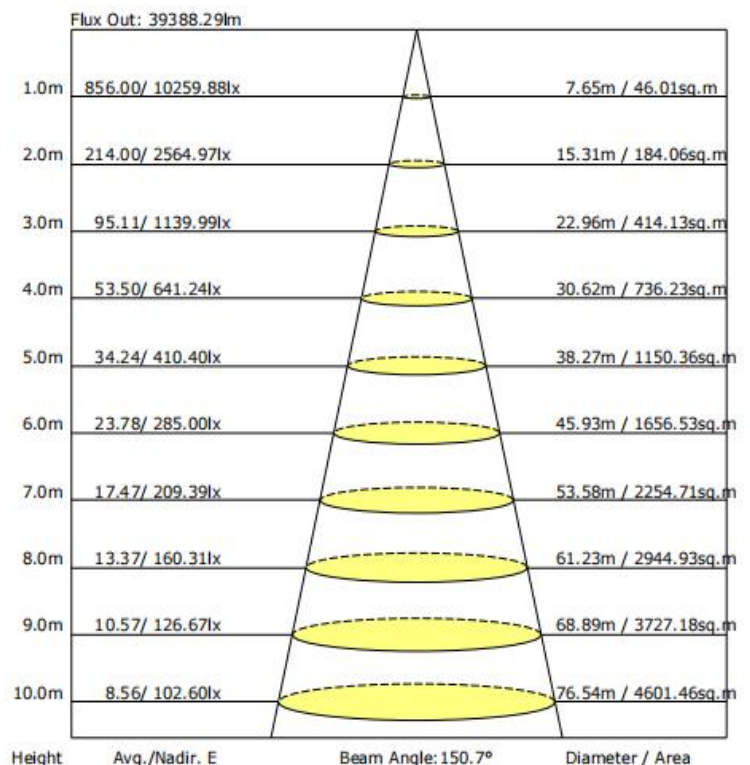
IES Classification: Type III  
Total Rated Lamp Lumens: 42087.0 lm  
Efficiency: 100%  
Upward Ratio: 0%  
C0r0 Intensity: 10259.88 cd  
Pos of Max. Intensity: H0 V67  
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.7, 83.9, 113.6, 129.0

Longitudinal Classification: Medium  
Measurement Flux: 42087 lm  
Downward Ratio: 100%  
Luminaire Efficacy Rating (LER): 137.34  
Max. Intensity: 14806.34 cd

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.<br>If same phenomena occur, then call agencies. |
| Out of working          | Please check the connection.                                                                       |

