



# V12 Shoebox CCT with EZ-Swap Lense Design

Date:..... Location: .....

Product:..... Project:.....

Quantity:..... Catalog# .....



EZ-change Lens TYPE 3/4/5 options

## FEATURES

- Watts CCT tunable with EZ swap lense design.
- 100-277V or 480V input voltage available.
- Low profile housing with enhanced thermal heat sink.
- 6kV built-in plus 10kV external surge protection
- 50,000hrs Life time.

## SUITABLE APPLICATIONS

- Warehouses
- Stadiums
- Factories
- Parking Lots
- Shopping Malls
- Supermarkets
- Logistic Centers
- Auto dealerships

### CONSTRUCTION:

Heavy die-cast aluminum alloy housing with bronze powder-coated finish.

### ELECTRICAL:

Available as 120-277V or 480V input. -20°C to 45°C,

### OPTICAL SYSTEM:

High brightness lumileds LED chips.  
Special PC lens with TYPE III and TYPE V distribution

### INSTALLATION&MOUNTING:

Wall Mounting/Pole Mounting/Trunion mount bracket for easy installation.

### WARRANTY:

5-year limited warranty. Actual performance may differ as a result of end-user environment and application.

### CONTROLS&DIMMING

0-10V dimming comes standard and Watt&CCT tunable.

### PERFORMANCE

| Model NO            | Wattage | BUG      | Voltage/CurrentInput |       | Light Efficiency | Kelvin Options    |
|---------------------|---------|----------|----------------------|-------|------------------|-------------------|
|                     |         |          | 120V                 | 277V  |                  |                   |
| AST-S-G20-150WXYDA1 | 80W     | B3-U0-G3 | 0.66A                | 0.28A | 150LM/W          | 3000K/4000K/5000K |
|                     | 100W    | B3-U0-G3 | 0.83A                | 0.36A | 150LM/W          | 3000K/4000K/5000K |
|                     | 150W    | B3-U0-G3 | 1.25A                | 0.54A | 150LM/W          | 3000K/4000K/5000K |
| AST-S-G20-300WXYDA1 | 200W    | B4-U0-G3 | 1.66A                | 0.72A | 150LM/W          | 3000K/4000K/5000K |
|                     | 240W    | B4-U0-G4 | 2.00A                | 0.72A | 150LM/W          | 3000K/4000K/5000K |
|                     | 300W    | B4-U0-G4 | 2.50A                | 1.08A | 150LM/W          | 3000K/4000K/5000K |

| Model NO            | Wattage | BUG      | Voltage/Current Input |       | Light Efficiency | Kelvin Options    |
|---------------------|---------|----------|-----------------------|-------|------------------|-------------------|
|                     |         |          | 277V                  | 480V  |                  |                   |
| AST-S-G20-150WXYDH1 | 80W     | B3-U0-G3 | 0.28A                 | 0.16A | 150LM/W          | 3000K/4000K/5000K |
|                     | 100W    | B3-U0-G3 | 0.36A                 | 0.21A | 150LM/W          | 3000K/4000K/5000K |
|                     | 150W    | B3-U0-G3 | 0.54A                 | 0.31A | 150LM/W          | 3000K/4000K/5000K |
| AST-S-G20-300WXYDH1 | 200W    | B4-U0-G3 | 0.72A                 | 0.42A | 150LM/W          | 3000K/4000K/5000K |
|                     | 240W    | B4-U0-G4 | 0.72A                 | 0.50A | 150LM/W          | 3000K/4000K/5000K |
|                     | 300W    | B4-U0-G4 | 1.08A                 | 0.63A | 150LM/W          | 3000K/4000K/5000K |

## Electric Characteristic

| Specification/Model     | AST-S-G20-150WXYDA1  |                    |                    | AST-S-G20-300WXYDA1 |                    |                    |
|-------------------------|----------------------|--------------------|--------------------|---------------------|--------------------|--------------------|
| LED Driver              | SOSEN 0-10V dimmable |                    |                    |                     |                    |                    |
| Input power             | 80W                  | 100W               | 150W               | 200W                | 240W               | 300W               |
| Lumens output           | 12000LM              | 15000LM            | 22500LM            | 30000LM             | 36000LM            | 45000LM            |
| Efficiency              | 150LM/W              | 150LM/W            | 150LM/W            | 150LM/W             | 150LM/W            | 150LM/W            |
| CRI                     | >80                  | >80                | >80                | >80                 | >80                | >80                |
| Color Temperature       | 3000K/4000K/5000K    |                    |                    | 3000K/4000K/5000K   |                    |                    |
| Input voltage           | 120-277V/AC          | 120-277V/AC        | 120-277V/AC        | 120-277V/AC         | 120-277V/AC        | 120-277V/AC        |
| Light distribution type | TYPE III or TYPE V   | TYPE III or TYPE V | TYPE III or TYPE V | TYPE III or TYPE V  | TYPE III or TYPE V | TYPE III or TYPE V |
| Working temperature     | -20+45°C             | -20+45°C           | -20+45°C           | -20+45°C            | -20+45°C           | -20+45°C           |
| Junction temperature    | <75°C                | <75°C              | <75°C              | <75°C               | <75°C              | <75°C              |
| lamps efficiency        | ≥90%                 | ≥90%               | ≥90%               | ≥90%                | ≥90%               | ≥90%               |
| Certificate             | UL CUL DLC           | UL CUL DLC         | UL CUL DLC         | UL CUL DLC          | UL CUL DLC         | UL CUL DLC         |
| Equivalent              | 200-300W MH/HPS      | 200-300W MH/HPS    | 300-450W MH/HPS    | 450-600W MH/HPS     | 600-800W MH/HPS    | 800-1000W MH/HPS   |

| Specification/Model     | AST-S-G20-150WXYDH1   |                    |                    | AST-S-G20-300WXYDH1 |                    |                    |
|-------------------------|-----------------------|--------------------|--------------------|---------------------|--------------------|--------------------|
| LED Driver              | Fahold 0-10V dimmable |                    |                    |                     |                    |                    |
| Input power             | 80W                   | 100W               | 150W               | 200W                | 240W               | 300W               |
| Lumens output           | 12000LM               | 15000LM            | 22500LM            | 30000LM             | 36000LM            | 45000LM            |
| Efficiency              | 150LM/W               | 150LM/W            | 150LM/W            | 150LM/W             | 150LM/W            | 150LM/W            |
| CRI                     | >80                   | >80                | >80                | >80                 | >80                | >80                |
| Color Temperature       | 3000K/4000K/5000K     |                    |                    | 3000K/4000K/5000K   |                    |                    |
| Input voltage           | 277-480V/AC           | 277-480V/AC        | 277-480V/AC        | 277-480V/AC         | 277-480V/AC        | 277-480V/AC        |
| Light distribution type | TYPE III or TYPE V    | TYPE III or TYPE V | TYPE III or TYPE V | TYPE III or TYPE V  | TYPE III or TYPE V | TYPE III or TYPE V |
| Working temperature     | -20+45°C              | -20+45°C           | -20+45°C           | -20+45°C            | -20+45°C           | -20+45°C           |
| Junction temperature    | <75°C                 | <75°C              | <75°C              | <75°C               | <75°C              | <75°C              |
| lamps efficiency        | ≥90%                  | ≥90%               | ≥90%               | ≥90%                | ≥90%               | ≥90%               |
| Certificate             | UL CUL DLC            | UL CUL DLC         | UL CUL DLC         | UL CUL DLC          | UL CUL DLC         | UL CUL DLC         |
| Equivalent              | 150-250W MH/HPS       | 250-300W MH/HPS    | 300-450W MH/HPS    | 450-600W MH/HPS     | 600-800W MH/HPS    | 800-1000W MH/HPS   |

Optional Mount Bracket:



AM Slipfitter Mount



DM Direct Mount



YM Yoke Mount

Optional Functions:

Photocell sensor options



Occupancy sensor/Lens TYPE options  
Watt & CCT Tunable

ElectricCharacteristic

OPTIONAL ACCESSORIES

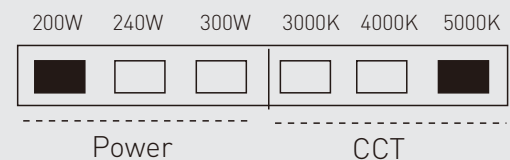
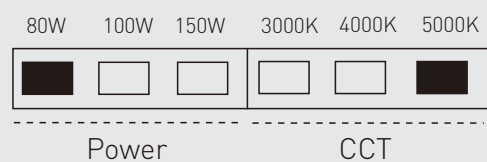
PRODUCT ORDERING GUIDE

AST-S-G20-80WXYDA1  
1 2 3 456 7

AST - S-G20 80W x Y D A1

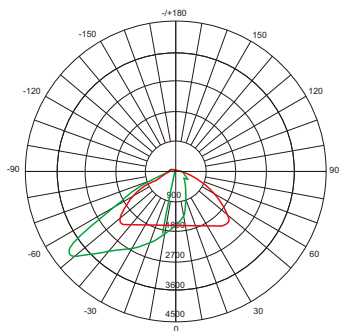
- AST      LEDSION Company
- S-G20      Product series, LED Shoebox Light;
- 80W    Power       Y represents diffuser light angle
- D      Color Tunable
- A1    Inputvoltage 120-277V/AC
- H1    Inputvoltage 277-480V/AC

Watt&CCT Tunable



## DISTRIBUTION DIAGRAM

AST-S-G20-80WXYDA1

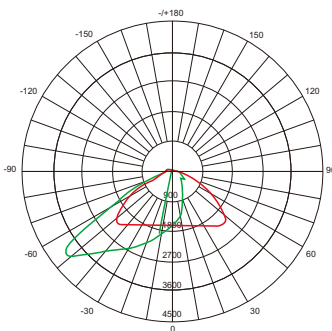


AVERAGE BEAM ANGLE(50%): 122°

UNIT:CD  
 Lumens:12000LM  
 Test Number:80W  
 Test Number:5000K

- C0/180,113.7
- C30/210,100.1
- C60/240,108.6
- C90/270,130.9

AST-S-G20-100WXYDA1

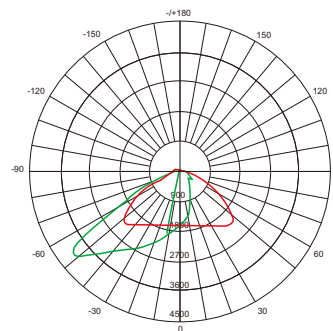


AVERAGE BEAM ANGLE(50%): 122°

UNIT:CD  
 Lumens:15000LM  
 Test Number:100W  
 Test Number:5000K

- C0/180,113.7
- C30/210,100.1
- C60/240,108.6
- C90/270,130.9

AST-S-G20-150WXYDA1

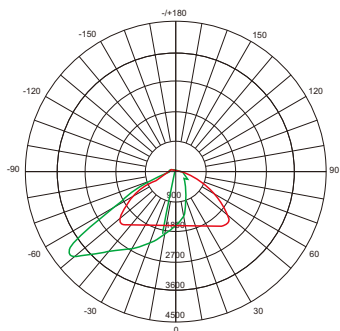


AVERAGE BEAM ANGLE(50%): 122°

UNIT:CD  
 Lumens:22500LM  
 Test Number:150W  
 Test Number:5000K

- C0/180,113.7
- C30/210,100.1
- C60/240,108.6
- C90/270,130.9

AST-S-G20-200WXYDA1

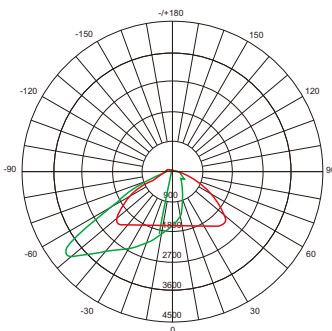


AVERAGE BEAM ANGLE(50%): 122°

UNIT:CD  
 Lumens:30000LM  
 Test Number:200W  
 Test Number:5000K

- C0/180,113.7
- C30/210,100.1
- C60/240,108.6
- C90/270,130.9

AST-S-G20-240WXYDA1

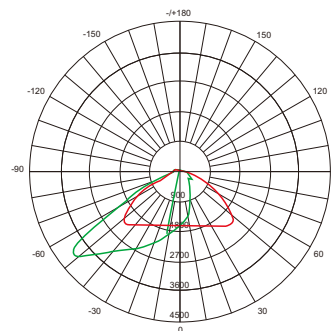


AVERAGE BEAM ANGLE(50%): 122°

UNIT:CD  
 Lumens:36000LM  
 Test Number:240W  
 Test Number:5000K

- C0/180,113.7
- C30/210,100.1
- C60/240,108.6
- C90/270,130.9

AST-S-G20-300WXYDA1



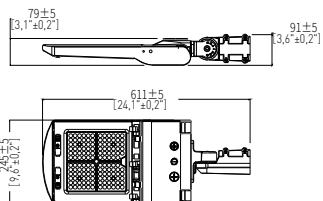
AVERAGE BEAM ANGLE(50%): 122°

UNIT:CD  
 Lumens:45000LM  
 Test Number:300W  
 Test Number:5000K

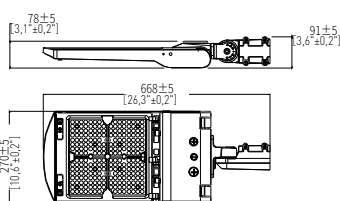
- C0/180,113.7
- C30/210,100.1
- C60/240,108.6
- C90/270,130.9

## DIMENSION

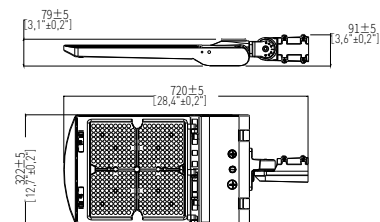
80W-100W



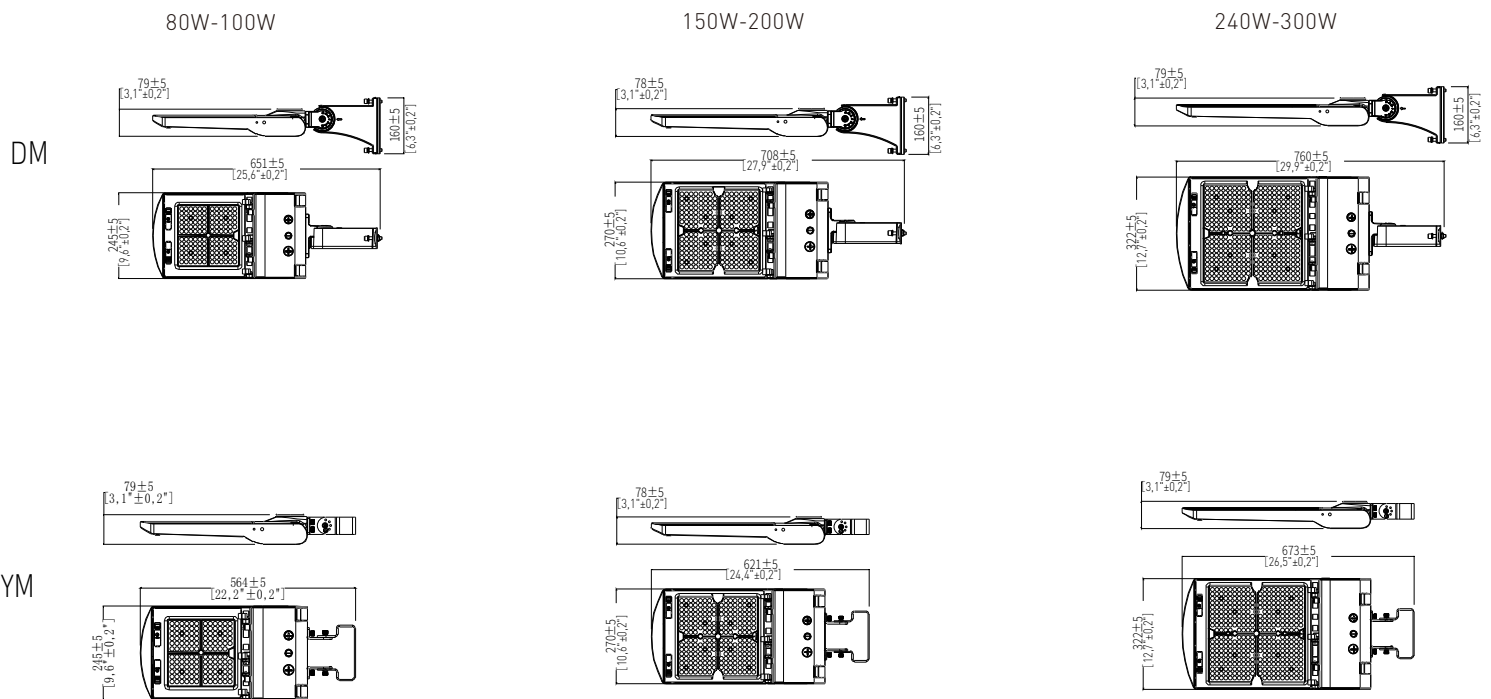
150W-200W



240W-300W



AM



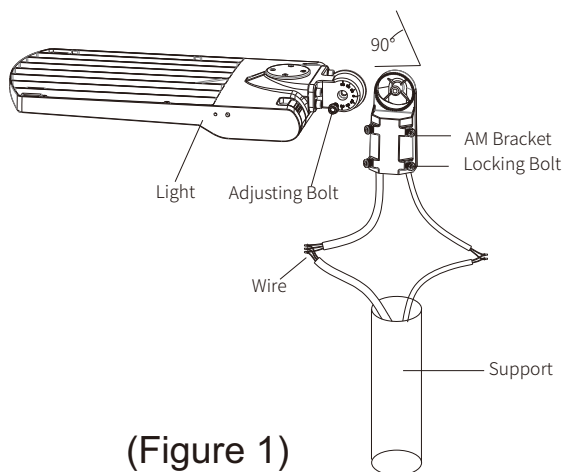
## ► Installation

### 1. ADJUSTABLE FITTER MOUNTING (e=AM)

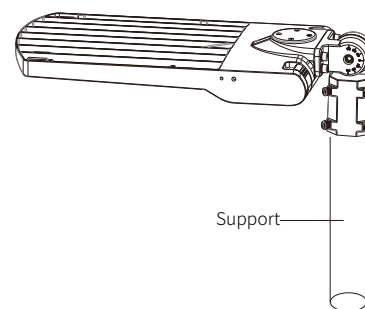
Step 1: Connect the wire correctly and put the wires into pole. Then fasten the locking bolts between slip fitter and the pole.(Figure 1)

Step 2: Loosen the fixing bolts and adjusting bolts, align the fixture to required angle. Tighten adjusting bolt and fixing bolts after the angle is confirmed.(Figure 2)

Notice: Adjustable angle is 0~+/-90°(Figure 1)



(Figure 1)



(Figure 2)

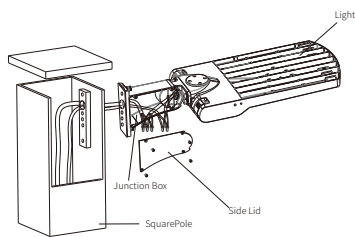
## 2. DIRECT MOUNTING (e=DM)

Step 1: Fix the DM bracket to the square pole with bolt, open the side lid of DM bracket, pull the wire into junction box, and connect the wires correctly (Figure 3)

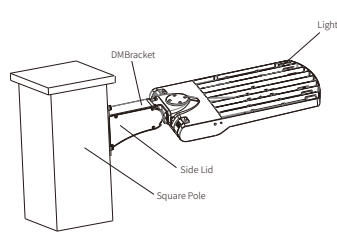
Step 2: Put the connected wires into the junction box, then cover the junction box (Figure 4)

Notice: Adjustable angle range is 0-35°(Figure 3)

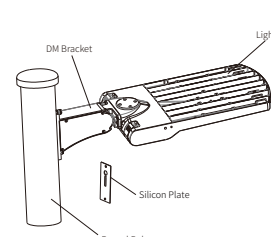
Same as round pole installation, please remember to remove the silicon plate when install the fixture on round pole (Figure 5)



(Figure 3)



(Figure 4)



(Figure 5)

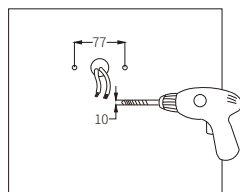
## 3. YOKE MOUNTING(e=YM)

Step 1: Drill holes on the wall as shown in (Figure 6)

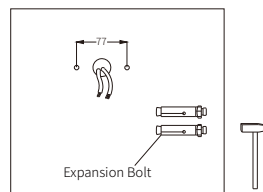
Step 2: Knock the expansion bolts into the wall. (Figure 7)

Step 3: Connect the fixture to the bracket and tighten the screws; connect the wires properly and put them into junction box. (Figure 8)

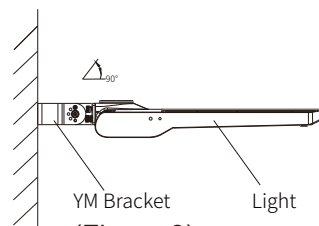
Notice: Adjustable angle is 0-90°(Figure 8)



(Figure 6)



(Figure 7)



(Figure 8)