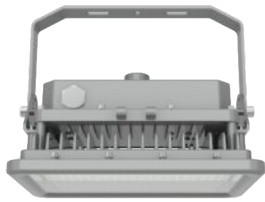


# Durable Lighting Made for Industrial Safety

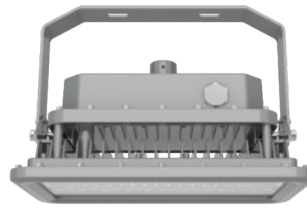


## Hazardous Location LED Luminaire A Series (Zone 1, 2, 21, 22)

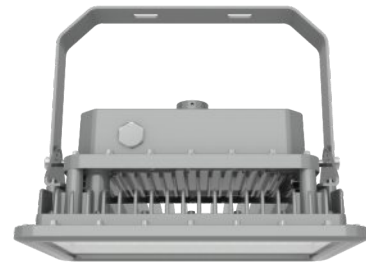
Specsheet-2023-07 EN



A



A3



A4



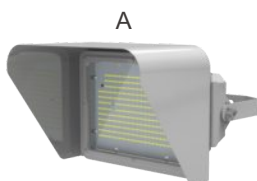
## Product Description

The A Series LED luminaire is the ideal choice for marine and hazardous applications. They can be used in locations where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient can be expected.

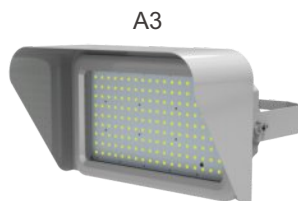
## Features

- 0-10V dimming
- High luminous efficacy - Up to 140 lumens per watt
- Compact and robust structure, excellent reliability
- Various installation ways for different applications
- Great impact resistance with IK08/IK10 certified
- Copper-free aluminum housing, great corrosion resistance and cooling performance
- Emergency function optional for A3 and A4

## Visor Available



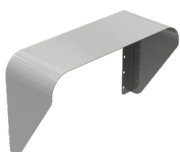
A



A3



A4



Visor

## Compliance

ATEX Standard:

⊕ II 2 G Ex eb mb IIC T6...T4 Gb

⊕ II 2 D Ex tb IIIC T80°C...T100°C Db

IECEX Standard:

Ex eb mb IIC T6...T4 Gb

Ex tb IIIC T80°C...T100°C Db

Zone 1&2, Zone 21&22

CB (Ref. Certif. No.: DE 2-038462-M1)

IP66/IP67

IK08 (glass cover)

IK10 (with wire guard)

1000 hours salt spray



## Application

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Food and Alcohol industry

## Warranty

5-Year Standard Warranty

LED lumen Maintenance: L70> 78,000 Operation Hours@55°C



## Technical Parameter

### • Electrical

| Specification      | EX-80W-A YZDAF        | EX-100W-A YZDAF |
|--------------------|-----------------------|-----------------|
| Rated Power        | 80W                   | 100W            |
| Input Voltage      | 200-250VAC            |                 |
| Input Frequency    | 50/60Hz               |                 |
| Power Factor       | > 0.95                |                 |
| Emergency Function | No emergency function |                 |

### • Optical

| Specification   | EX-80W-A YZDAF                                    | EX-100W-A YZDAF |
|-----------------|---------------------------------------------------|-----------------|
| Lumen Output    | 11200lm                                           | 14000lm         |
| Lumens Per Watt | 140lm/W                                           |                 |
| CCT             | 2200K-7000K                                       |                 |
| CRI             | > 70                                              |                 |
| Beam Angle      | 40°/45°/60°/90°                                   |                 |
| Dimming         | Both non-dimmable and 0-10V dimming are available |                 |

### • Environmental

| Specification                 | EX-80W-A YZDAF                                                             | EX-100W-A YZDAF |
|-------------------------------|----------------------------------------------------------------------------|-----------------|
| Ambient Operating Temperature | T5: -40°C to +45°C (-40°F to +113°F); T6: -40°C to +40°C (-40°F to +104°F) |                 |

### • Mechanical

| Specification    | EX-80W-A YZDAF                                       | EX-100W-A YZDAF |
|------------------|------------------------------------------------------|-----------------|
| Housing Material | Copper-free aluminum                                 |                 |
| Lens             | Tempered glass & PC                                  |                 |
| Hardware         | Stainless steel                                      |                 |
| Fixture Color    | Gray RAL7040 (Standard)                              |                 |
| Protection       | IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)  |                 |
| Mounting         | Ceiling, Wall, Hook, Trunnion, Pole, Stanchion       |                 |
| Cable Entries*   | Side: 3/4 NPT, M20, M25, 1/2NPT<br>Top: 3/4 NPT, M25 |                 |

\*Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.

## Technical Parameter

### • Electrical

| Specification      | EX-150W-A3 YZDAF              | EX-180W-A3 YZDAF | EX-200W-A3 YZDAF |
|--------------------|-------------------------------|------------------|------------------|
| Rated Power        | 150W                          | 180W             | 200W             |
| Input Voltage      | 200-250VAC                    |                  |                  |
| Input Frequency    | 50/60Hz                       |                  |                  |
| Power Factor       | > 0.95                        |                  |                  |
| Emergency Function | Optional (TGA emergency pack) |                  |                  |

### • Optical

| Specification   | EX-150W-A3 YZDAF                                  | EX-180W-A3 YZDAF | EX-200W-A3 YZDAF |
|-----------------|---------------------------------------------------|------------------|------------------|
| Lumen Output    | 21000lm                                           | 25200lm          | 28000lm          |
| Lumens Per Watt | 140lm/W                                           |                  |                  |
| CCT             | 2200K-7000K                                       |                  |                  |
| CRI             | > 70                                              |                  |                  |
| Beam Angle      | 40°/45°/60°/90°                                   |                  |                  |
| Dimming         | Both non-dimmable and 0-10V dimming are available |                  |                  |

### • Environmental

| Specification                 | EX-150W-A3 YZDAF                                                           | EX-180W-A3 YZDAF | EX-200W-A3 YZDAF |
|-------------------------------|----------------------------------------------------------------------------|------------------|------------------|
| Ambient Operating Temperature | T5: -40°C to +45°C (-40°F to +113°F); T6: -40°C to +40°C (-40°F to +104°F) |                  |                  |

### • Mechanical

| Specification    | EX-150W-A3 YZDAF                                     | EX-180W-A3 YZDAF | EX-200W-A3 YZDAF |
|------------------|------------------------------------------------------|------------------|------------------|
| Housing Material | Copper-free aluminum                                 |                  |                  |
| Lens             | Tempered glass & PC                                  |                  |                  |
| Hardware         | Stainless steel                                      |                  |                  |
| Fixture Color    | Gray RAL7040 (Standard)                              |                  |                  |
| Protection       | IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)  |                  |                  |
| Mounting         | Ceiling, Wall, Hook, Pole, Stanchion                 |                  |                  |
| Cable Entries*   | Side: 3/4 NPT, M20, M25, 1/2NPT<br>Top: 3/4 NPT, M25 |                  |                  |

\*Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.

## Technical Parameter

### • Electrical

| Specification      | EX-250W-A4 YZDAF              | EX-300W-A4 YZDAF | EX-400W-A4 YZDAF |
|--------------------|-------------------------------|------------------|------------------|
| Rated Power        | 250W                          | 300W             | 400W             |
| Input Voltage      | 200-250VAC                    |                  |                  |
| Input Frequency    | 50/60Hz                       |                  |                  |
| Power Factor       | > 0.95                        |                  |                  |
| Emergency Function | Optional (TGA emergency pack) |                  |                  |

### • Optical

| Specification   | EX-250W-A4 YZDAF                                  | EX-300W-A4 YZDAF | EX-400W-A4 YZDAF |
|-----------------|---------------------------------------------------|------------------|------------------|
| Lumen Output    | 35000lm                                           | 42000lm          | 56000lm          |
| Lumens Per Watt | 140lm/W                                           |                  |                  |
| CCT             | 2200K-7000K                                       |                  |                  |
| CRI             | > 70                                              |                  |                  |
| Beam Angle      | 40°/45°/60°/90°                                   |                  |                  |
| Dimming         | Both non-dimmable and 0-10V dimming are available |                  |                  |

### • Environmental

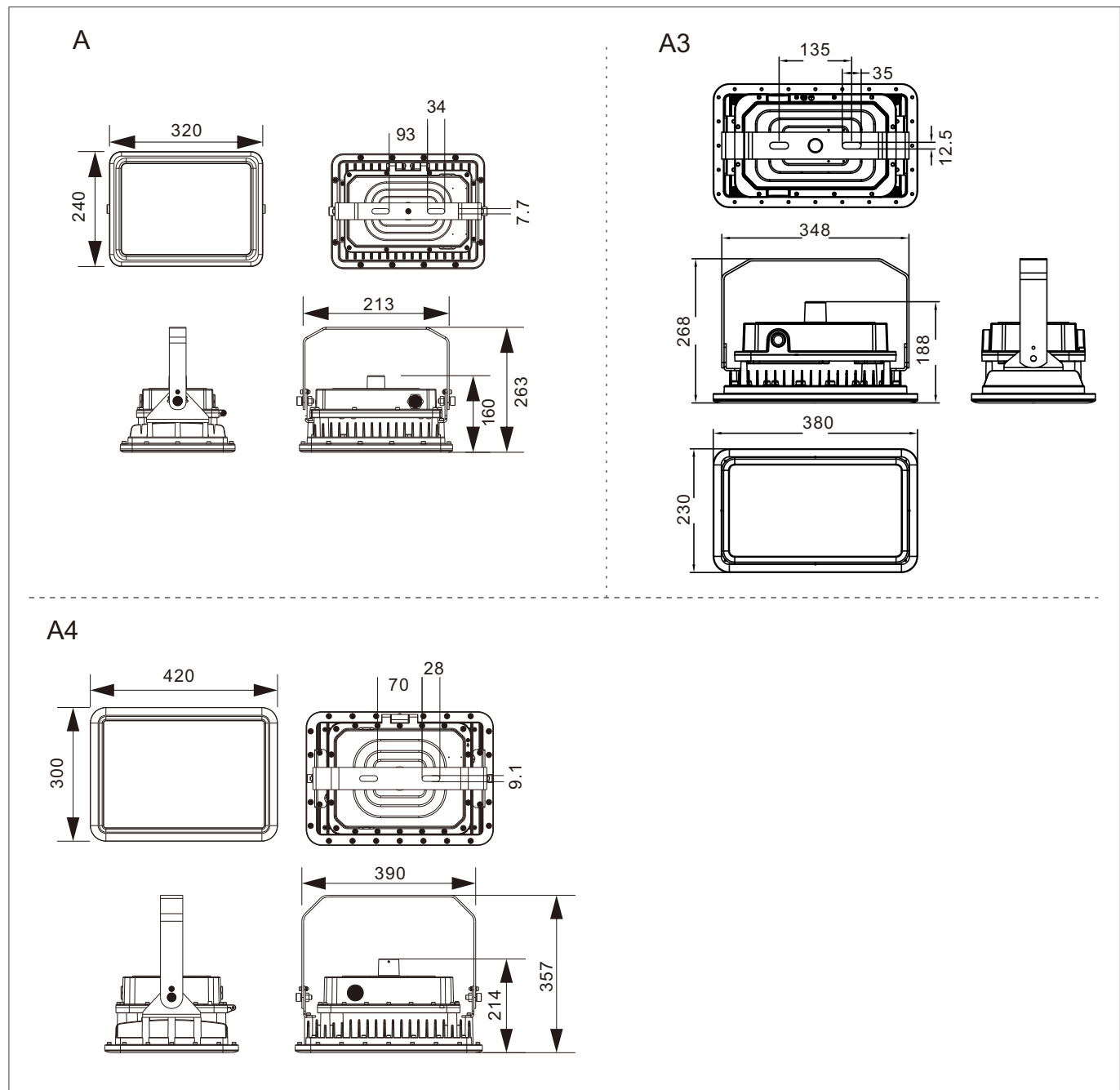
| Specification                 | EX-250W-A4 YZDAF                        | EX-300W-A4 YZDAF                        | EX-400W-A4 YZDAF                       |
|-------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|
| Ambient Operating Temperature | T5: -40°C to +40°C<br>(-40°F to +104°F) | T5: -40°C to +40°C<br>(-40°F to +104°F) | T5: -40°C to +25°C<br>(-40°F to +77°F) |

### • Mechanical

| Specification    | EX-250W-A4 YZDAF                                     | EX-300W-A4 YZDAF | EX-400W-A4 YZDAF |
|------------------|------------------------------------------------------|------------------|------------------|
| Housing Material | Copper-free aluminum                                 |                  |                  |
| Lens             | Tempered glass & PC                                  |                  |                  |
| Hardware         | Stainless steel                                      |                  |                  |
| Fixture Color    | Gray RAL7040 (Standard)                              |                  |                  |
| Protection       | IP66/IP67/IK08 (glass cover)/IK10 (with wire guard)  |                  |                  |
| Mounting         | Ceiling, Wall, Hook, Pole, Stanchion                 |                  |                  |
| Cable Entries*   | Side: 3/4 NPT, M20, M25, 1/2NPT<br>Top: 3/4 NPT, M25 |                  |                  |

\*Cable Entries: For side and top, 3/4 NPT is standard. If others are required, customer needs to indicate when placing an order.

## Product Dimensions (all in millimeters)

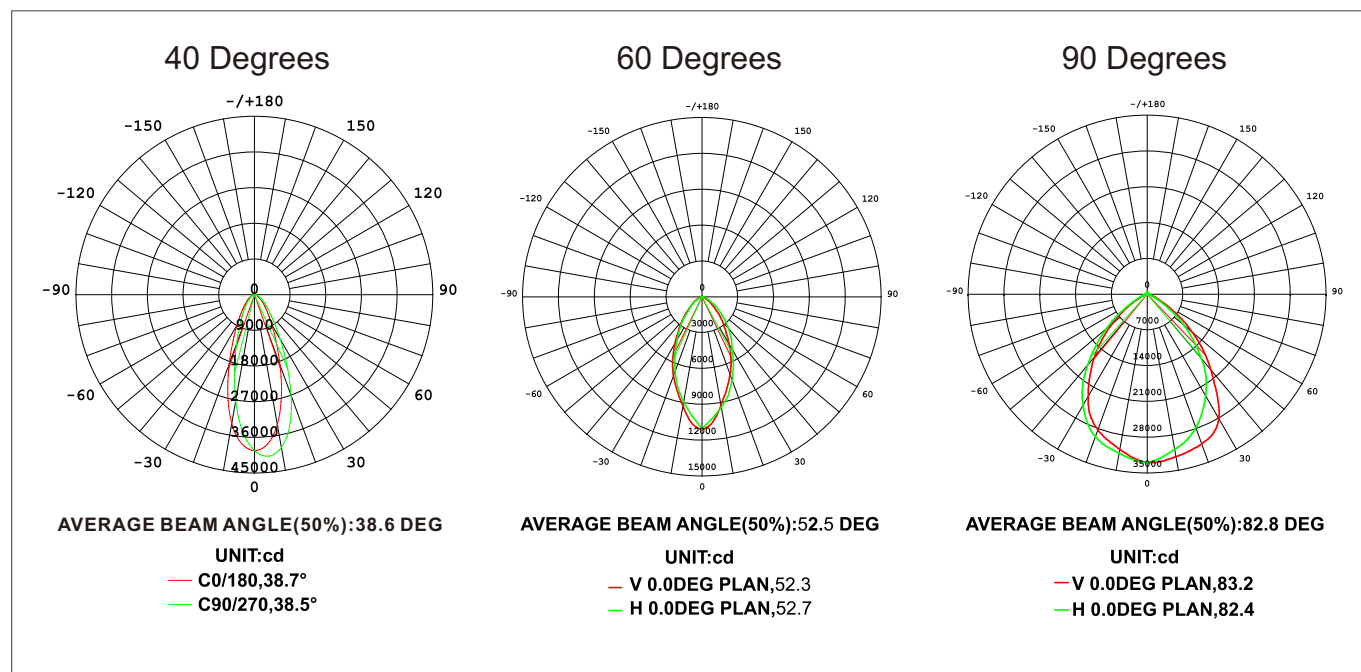


### • Packing Information

| Model            | Net Weight* | Gross Weight* | Quantity/Carton | Package Dimensions (LxWxH) |
|------------------|-------------|---------------|-----------------|----------------------------|
| EX-XXXW-A YZDAF  | 6.95kg      | 7.90kg        | 1 pc            | 375x340x215mm              |
| EX-XXXW-A3 YZDAF | 8.30kg      | 10.30kg       | 1 pc            | 485x340x365mm              |
| EX-XXXW-A4 YZDAF | 15.1kg      | 15.80kg       | 1 pc            | 510x480x350mm              |

\*Please note that net weight and gross weight may be subject to change because of actual configuration.

## Photometric



## Ordering Guide

EX - XXXW - A/A3/A4 Y Z D A F

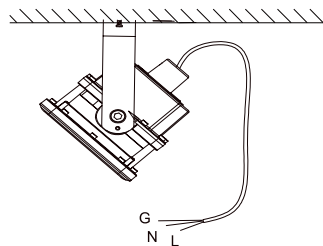
1                      2                      3                      4    5    6    7    8

| 1. Model Series                         | 2. Wattage                                        | 3. Product Code                                    | 4. Dimmable Optional           |
|-----------------------------------------|---------------------------------------------------|----------------------------------------------------|--------------------------------|
| Explosion Proof Light                   | A: 80/100W<br>A3:150/180/200W<br>A4: 250/300/400W | A<br>A3<br>A4                                      | Y: Dimmable<br>N: Non-dimmable |
| 5. Color Temp.                          | 6. Beam Angle                                     | 7. Glass Type                                      | 8. Optional                    |
| 22=2200K,<br>30=3000K, ...,<br>70=7000K | D40=40°; D45=45°<br>D60=60°; D90=90°              | A=blank: flat glass<br>A=C: Drop lens & wire guard | F: for food zone or blank      |



## Mounting Methods and Accessories

### • Option 1: Ceiling Mounting

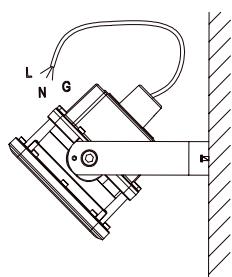


### • Accessory



**Bracket**

### • Option 2: Wall Mounting

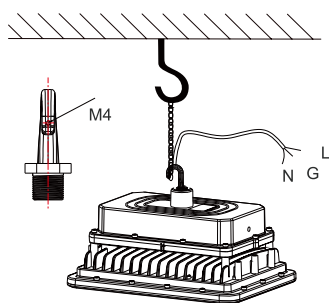


### • Accessory



**Bracket**

### • Option 3: Hook Mounting



### • Accessories

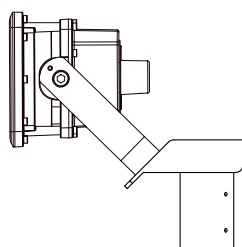


**Hook  
Ex-Hook**



**Pendant Chain  
Ex-Straight Chain**

### • Option 4: Trunnion Mounting (Only for A)



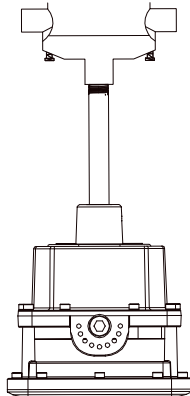
### • Accessory



**EX-Slip  
Fitter Mounting Kit**

## Mounting Methods and Accessories

### • Option 5: Pole Mounting (Vertical)



### • Accessories

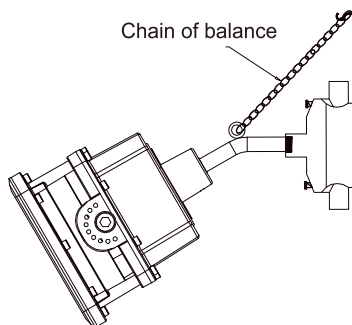


**Junction Box**  
EX-HD51-KB1



**Pole**  
Ex-Straight Pipe

### • Option 6: Pole Mounting (Non-vertical)



### • Accessories



**Junction Box**  
EX-HD51-KB1

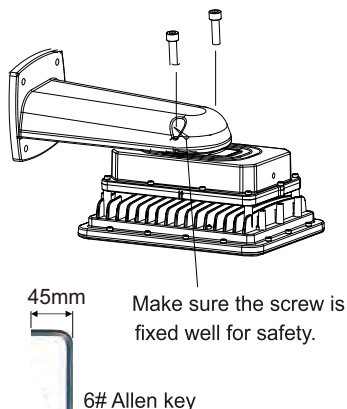


**Pole**  
Ex-Bended Pipe



**Pendant Chain**  
Ex-Straight Chain

### • Option 7: Stanchion Mounting on the Wall



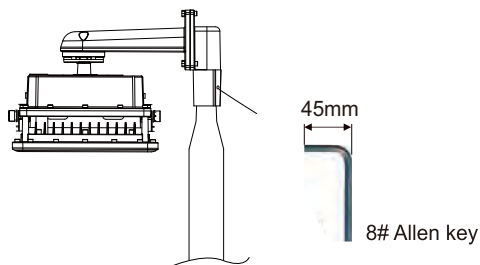
### • Accessory



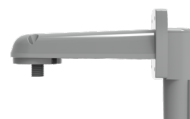
**Stanchion Arm**  
Ex-MArm

## Mounting Methods and Accessories

### • Option 8: Stanchion Mounting on the Pole (90 Degree)

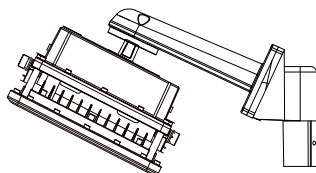


### • Accessories



**EX-90PSupport**

### • Option 9: Stanchion Mounting on the Pole (25 Degree)

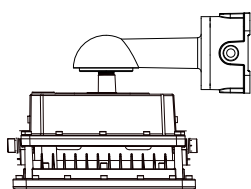


### • Accessories



**EX-25PSupport**

### • Option 10: Wall Mounting with Junction Box (90 Degree)

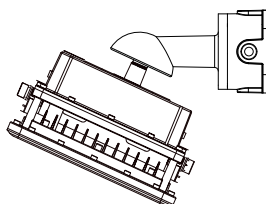


### • Accessory



**Stanchion Arm  
EX-HD51-KYD 90**

### • Option 11: Wall Mounting with Junction Box (25 Degree)



### • Accessory



**Stanchion Arm  
EX-HD51-KYD 25**