



## LED Explosion Proof Light

**ATEX & IECEx Certified LED Floodlight/bay light**  
**High bay light in Hazardous Area.**

**Seal Series**

⚡ II 3 G Ex ec II C T4/T5 Gc

⚡ II 3 D Ex tc II C T115°C/105°C/T95°C Dc IP66





## Features And Benefits:

- High efficacy LED Source with long lifespan, L70 > 100,000 hours @ 25°C ambient
- 5-year performance warranty
- Low THD around 10%, Less interference
- 4KV/Line-Line 6KV/Line-Earth
- Robust aluminium housing and strong tempered glass
- Vibration and shock resistant
- Low maintenance

## Applications:



Oil&Gas Exploration



Drilling



Oil Refinery



Petrochemical Plant



Power Plant



Pharmaceutical Plant





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### Standard & Certificate:

|                     |                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ex Mark:            | Gas:  II 3 G Ex ec IIC T4/T5 Gc<br>Dust:  II 3 D Ex tc IIC T115°C/105°C/T95°C Dc IP66                                                                                                                                                                                                                                                                                   |
| Certificate:        | <ul style="list-style-type: none"> <li>• ATEX Certification NO.: Pending</li> <li>• IECEx Certification NO.: Pending</li> <li>• CE</li> <li>• RoHS</li> </ul>                                                                                                                                                                                                           |
| Executive Standard: | <ul style="list-style-type: none"> <li>• (IEC)EN 60079-0, (IEC)EN 60079-7</li> <li>• (IEC)EN 60079-31</li> <li>• EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3,</li> <li>• EN 60598-1, EN 60598-2-5, EN 62031, EN 62493,</li> <li>• IEC 62321-1, IEC 62321-3-1, IEC 62321-4, IEC 62321-5,</li> <li>• IEC 62321-6, IEC 62321-7-1, IEC 62321-7-2, IEC 62321-8</li> </ul> |
| Classification:     | Group II, Zone 2 & 22                                                                                                                                                                                                                                                                                                                                                   |

### Electrical & Photometric Features:

|                     |                                                                    |
|---------------------|--------------------------------------------------------------------|
| Luminaire Efficacy: | 150lm/W                                                            |
| Lifespan:           | >100,000 hours                                                     |
| Operating Voltage:  | 100~277VAC 141~392VDC(standard)<br>347~480VAC 491~679VDC(optional) |
| Power:              | 30W/45W/55W/80W/100W/120W/150W/200W/240W/300W                      |
| Frequency:          | 50/60Hz                                                            |
| Power Factor:       | >0.98                                                              |
| THD:                | <10%                                                               |
| CRI:                | >70                                                                |
| Insulation Class:   | I                                                                  |
| Surge Protection:   | 4KV/6KV                                                            |
| LED Driver:         | Over voltage protection/short circuit protection                   |

### Mechanical Features:

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Weight:               | 2.4Kg(30W/45W/55W)/6.3Kg(80W/100W/120W/150W)/9.1Kg(200W/240W/300W)                                      |
| Size:                 | $\phi$ 215*146mm(30W/45W/55W)/ $\phi$ 330*160mm(80W/100W/120W/150W)<br>$\phi$ 415*160mm(200W/240W/300W) |
| Ambient Temperature:  | -40°C~+55°C(30-300W)/-40°C~+65°C(30W/45W/55W/100W/120W)                                                 |
| Connecting Terminals: | 3*1.0-4mm <sup>2</sup> (L+N+PE)                                                                         |
| Cable Entries:        | 2XNPT 3/4" (M20*1.5, M25*1.5 are optional)                                                              |
| Earthing Protection:  | M4 (Internal & external earth bolts)                                                                    |
| IP Code:              | IP66                                                                                                    |
| Enclosure Material:   | Die-casting aluminium alloy                                                                             |
| Enclosure Colour:     | Grey RAL7040                                                                                            |
| Coating:              | Epoxy powder coating                                                                                    |
| Exposed Fastener:     | Stainless steel                                                                                         |
| Protective Cover:     | Tempered glass, Stand 7J impact                                                                         |

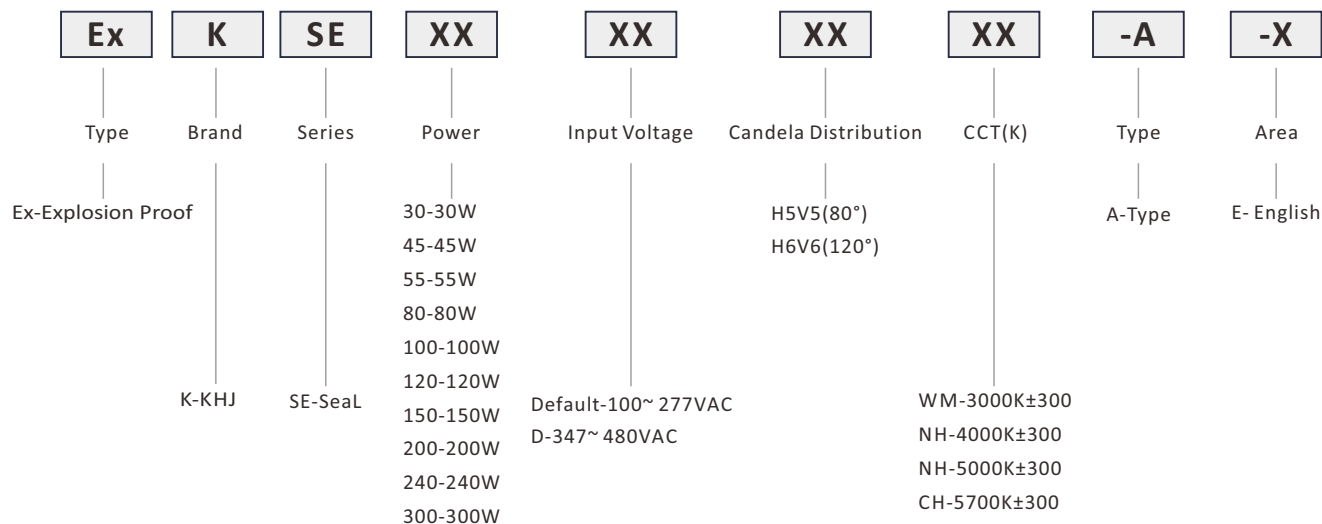
### Product Differentiation

| Rated Power | Operating Voltage: |            | Temp. Classification |             | Emergency optional |
|-------------|--------------------|------------|----------------------|-------------|--------------------|
|             | 100-277VAC         | 347-480VAC | -40°C~+55°C          | -40°C~+65°C |                    |
| 30W         | ●                  | ●          | T5                   | T4          | /                  |
| 45W         | ●                  | ●          | T5                   | T4          | /                  |
| 55W         | ●                  | ●          | T5                   | T4          | /                  |
| 80W         | ●                  | ●          | T5                   | /           | ●                  |
| 100W        | ●                  | ●          | T5                   | T4          | ●                  |
| 120W        | ●                  | ●          | T5                   | T4          | ●                  |
| 150W        | ●                  | ●          | T5                   | /           | ●                  |
| 200W        | ●                  | ●          | T5                   | /           | ●                  |
| 240W        | ●                  | ●          | T5                   | /           | ●                  |
| 300W        | ●                  | ●          | T4                   | /           | /                  |



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## Production Definition



## Ordering Information

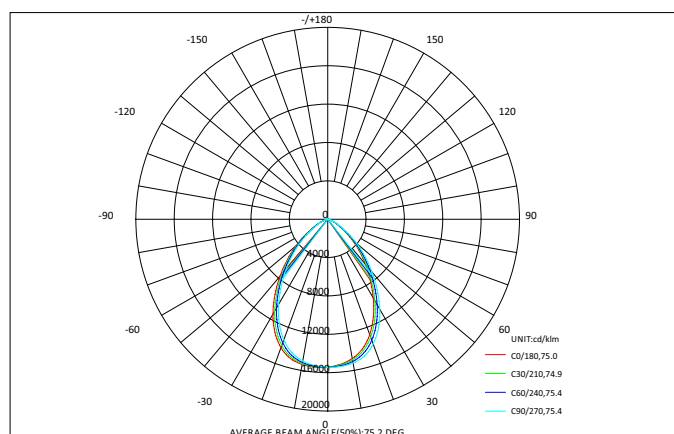
| P/N              | Operating Voltage(V)       | Luminous Flux(lm) | Power(W) | Color Temp.   | CCT(K)   | Temp. Classification |           |
|------------------|----------------------------|-------------------|----------|---------------|----------|----------------------|-----------|
|                  |                            |                   |          |               |          | -40℃~+55℃            | -40℃~+65℃ |
| Ex-KSE30*WM-A-E  | 100~277 AC<br>(347~480 DC) | 4185              | 30       | Warm white    | 3000±300 | T5                   | T4        |
| Ex-KSE30*NH-A-E  |                            | 4500              | 30       | Natural white | 4000±300 | T5                   | T4        |
| Ex-KSE30*NH-A-E  |                            | 4500              | 30       | Natural white | 5000±300 | T5                   | T4        |
| Ex-KSE30*CH-A-E  |                            | 4500              | 30       | Cool white    | 5700±300 | T5                   | T4        |
| Ex-KSE45*WM-A-E  |                            | 6278              | 45       | Warm white    | 3000±300 | T5                   | T4        |
| Ex-KSE45*NH-A-E  |                            | 6750              | 45       | Natural white | 4000±300 | T5                   | T4        |
| Ex-KSE45*NH-A-E  |                            | 6750              | 45       | Natural white | 5000±300 | T5                   | T4        |
| Ex-KSE45*CH-A-E  |                            | 6750              | 45       | Cool white    | 5700±300 | T5                   | T4        |
| Ex-KSE55*WM-A-E  |                            | 7673              | 55       | Warm white    | 3000±300 | T5                   | T4        |
| Ex-KSE55*NH-A-E  |                            | 8250              | 55       | Natural white | 4000±300 | T5                   | T4        |
| Ex-KSE55*NH-A-E  |                            | 8250              | 55       | Natural white | 5000±300 | T5                   | T4        |
| Ex-KSE55*CH-A-E  |                            | 8250              | 55       | Cool white    | 5700±300 | T5                   | T4        |
| Ex-KSE80*WM-A-E  |                            | 11160             | 80       | Warm white    | 3000±300 | T5                   | /         |
| Ex-KSE80*NH-A-E  |                            | 12000             | 80       | Natural white | 4000±300 | T5                   | /         |
| Ex-KSE80*NH-A-E  |                            | 12000             | 80       | Natural white | 5000±300 | T5                   | /         |
| Ex-KSE80*CH-A-E  |                            | 12000             | 80       | Cool white    | 5700±300 | T5                   | /         |
| Ex-KSE100*WM-A-E |                            | 13950             | 100      | Warm white    | 3000±300 | T5                   | T4        |
| Ex-KSE100*NH-A-E |                            | 15000             | 100      | Natural white | 4000±300 | T5                   | T4        |
| Ex-KSE100*NH-A-E |                            | 15000             | 100      | Natural white | 5000±300 | T5                   | T4        |
| Ex-KSE100*CH-A-E |                            | 15000             | 100      | Cool white    | 5700±300 | T5                   | T4        |

## Ordering Information

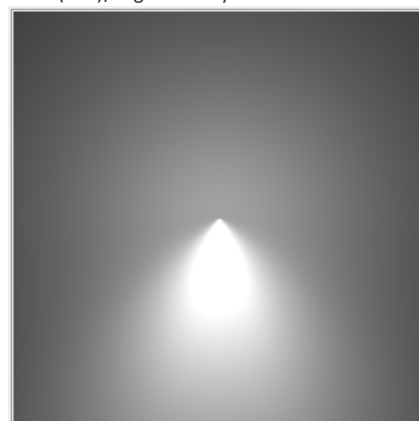
| P/N              | Operating Voltage(V)       | Luminous Flux(lm) | Power(W) | Color Temp.   | CCT(K)   | Temp. Classification |           |
|------------------|----------------------------|-------------------|----------|---------------|----------|----------------------|-----------|
|                  |                            |                   |          |               |          | -40℃~+55℃            | -40℃~+65℃ |
| Ex-KSE120*WM-A-E | 100~277 AC<br>(347~480 DC) | 16740             | 120      | Warm white    | 3000±300 | T5                   | T4        |
| Ex-KSE120*NH-A-E |                            | 18000             | 120      | Natural white | 4000±300 | T5                   | T4        |
| Ex-KSE120*NH-A-E |                            | 18000             | 120      | Natural white | 5000±300 | T5                   | T4        |
| Ex-KSE120*CH-A-E |                            | 18000             | 120      | Cool white    | 5700±300 | T5                   | T4        |
| Ex-KSE150*WM-A-E |                            | 20925             | 150      | Warm white    | 3000±300 | T5                   | /         |
| Ex-KSE150*NH-A-E |                            | 22500             | 150      | Natural white | 4000±300 | T5                   | /         |
| Ex-KSE150*NH-A-E |                            | 22500             | 150      | Natural white | 5000±300 | T5                   | /         |
| Ex-KSE150*CH-A-E |                            | 22500             | 150      | Cool white    | 5700±300 | T5                   | /         |
| Ex-KSE200*WM-A-E |                            | 27900             | 200      | Warm white    | 3000±300 | T5                   | /         |
| Ex-KSE200*NH-A-E |                            | 30000             | 200      | Natural white | 4000±300 | T5                   | /         |
| Ex-KSE200*NH-A-E |                            | 30000             | 200      | Natural white | 5000±300 | T5                   | /         |
| Ex-KSE200*CH-A-E |                            | 30000             | 200      | Cool white    | 5700±300 | T5                   | /         |
| Ex-KSE240*WM-A-E |                            | 33480             | 240      | Warm white    | 3000±300 | T5                   | /         |
| Ex-KSE240*NH-A-E |                            | 36000             | 240      | Natural white | 4000±300 | T5                   | /         |
| Ex-KSE240*NH-A-E |                            | 36000             | 240      | Natural white | 5000±300 | T5                   | /         |
| Ex-KSE240*CH-A-E |                            | 36000             | 240      | Cool white    | 5700±300 | T5                   | /         |
| Ex-KSE300*WM-A-E |                            | 41850             | 300      | Warm white    | 3000±300 | T4                   | /         |
| Ex-KSE300*NH-A-E |                            | 45000             | 300      | Natural white | 4000±300 | T4                   | /         |
| Ex-KSE300*NH-A-E |                            | 45000             | 300      | Natural white | 5000±300 | T4                   | /         |
| Ex-KSE300*CH-A-E |                            | 45000             | 300      | Cool white    | 5700±300 | T4                   | /         |

Remarks: 1.\*Stands for beam angle, including H5V5 / H6V6 .  
2.For beam angle H5V5,the luminous flux will be 8% less;

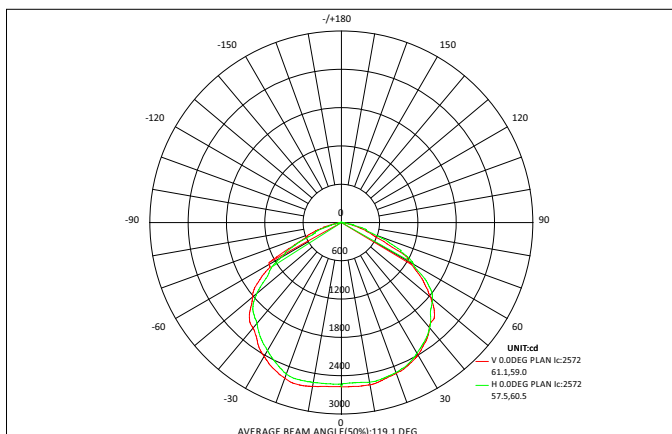
## Candela Distribution



H5V5(80°)/High Efficacy LED Source



## Candela Distribution



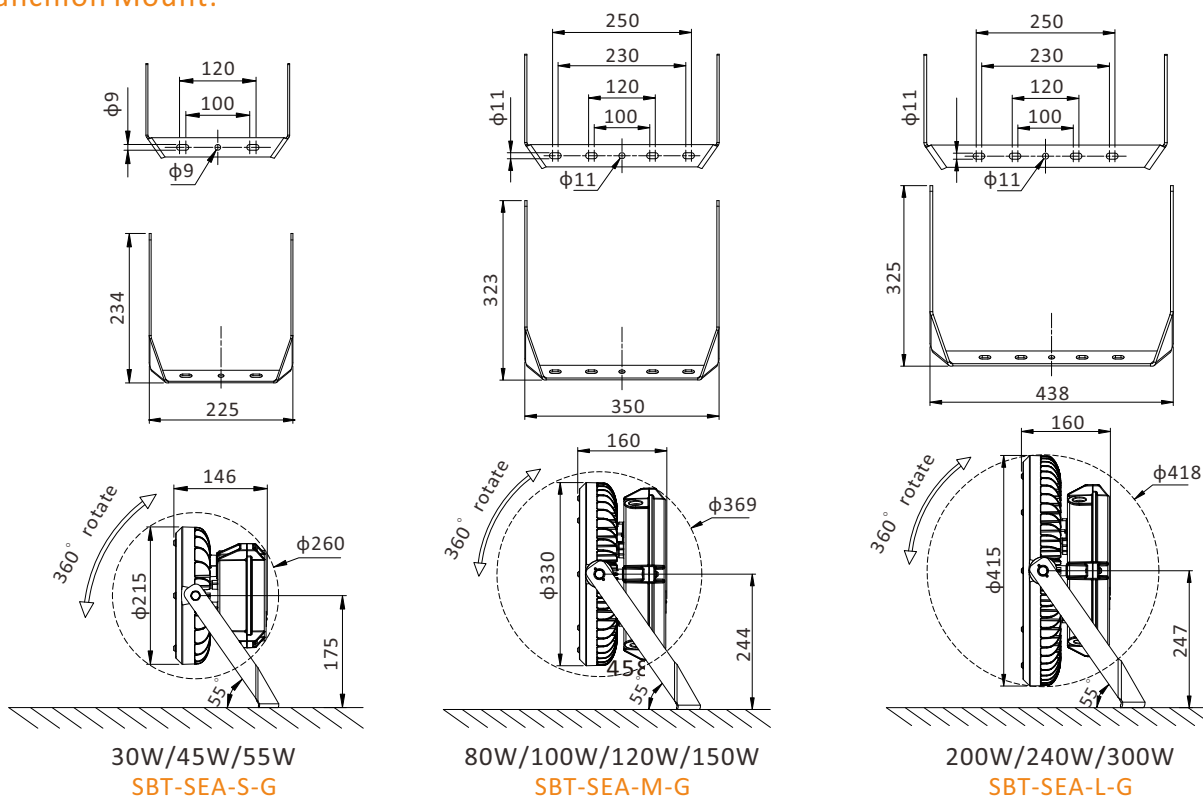
H6V6(120°)/High Efficacy LED Source



## Installation Method

### Stanchion Mount:

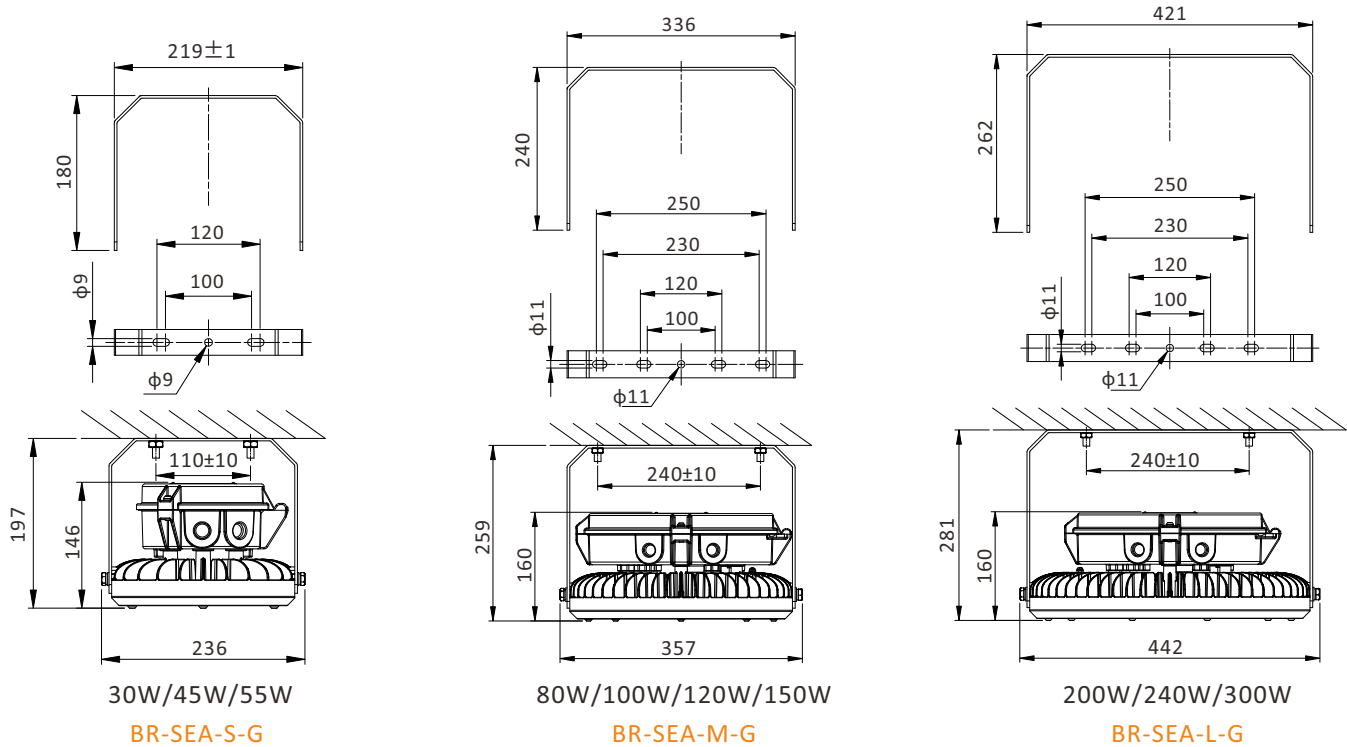
(unit:mm)



## Installation Method

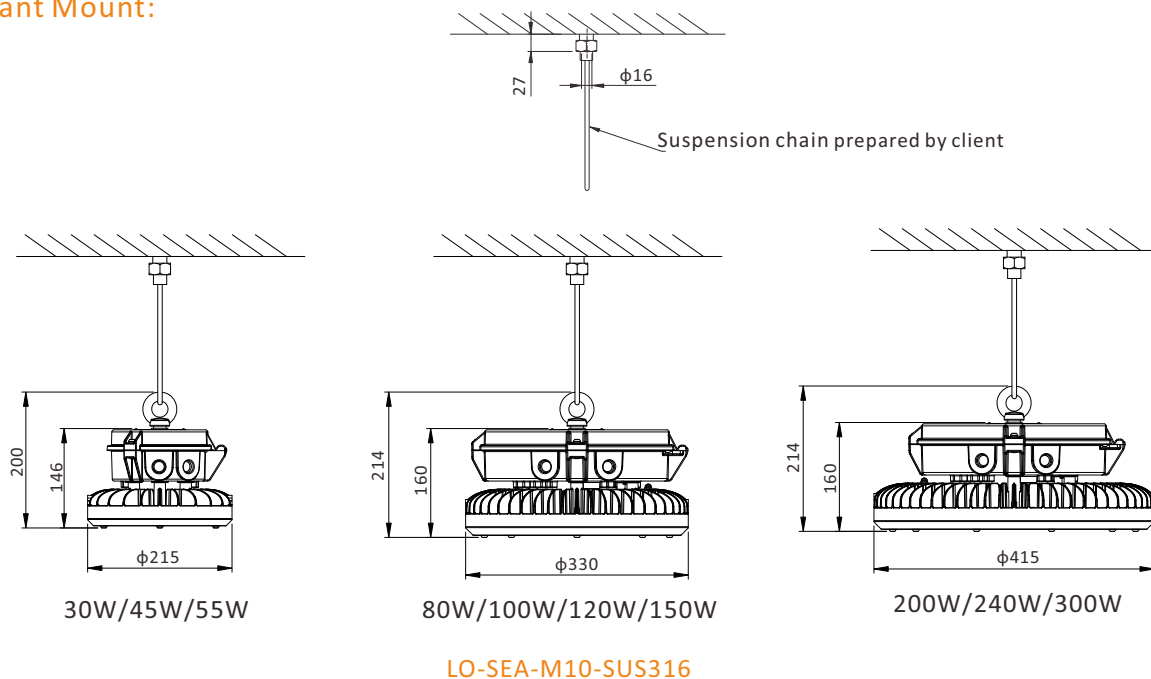
### Ceiling Mount:

(unit:mm)



### Pendant Mount:

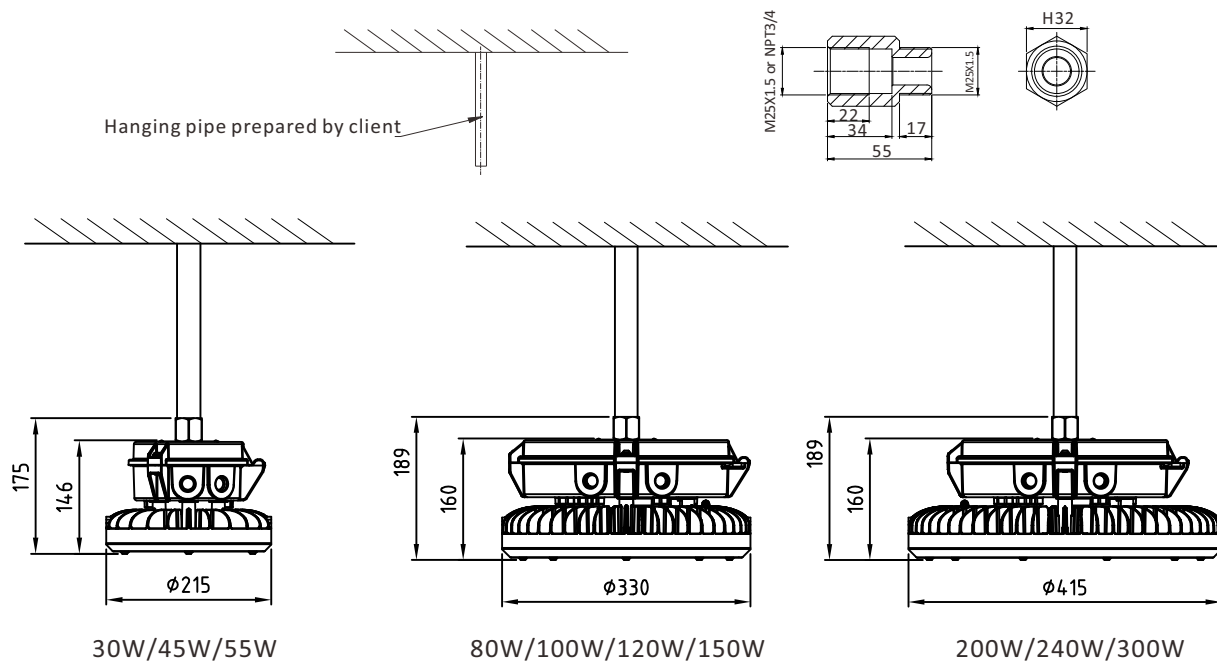
(unit:mm)



## Installation Method

### Pipe Mount

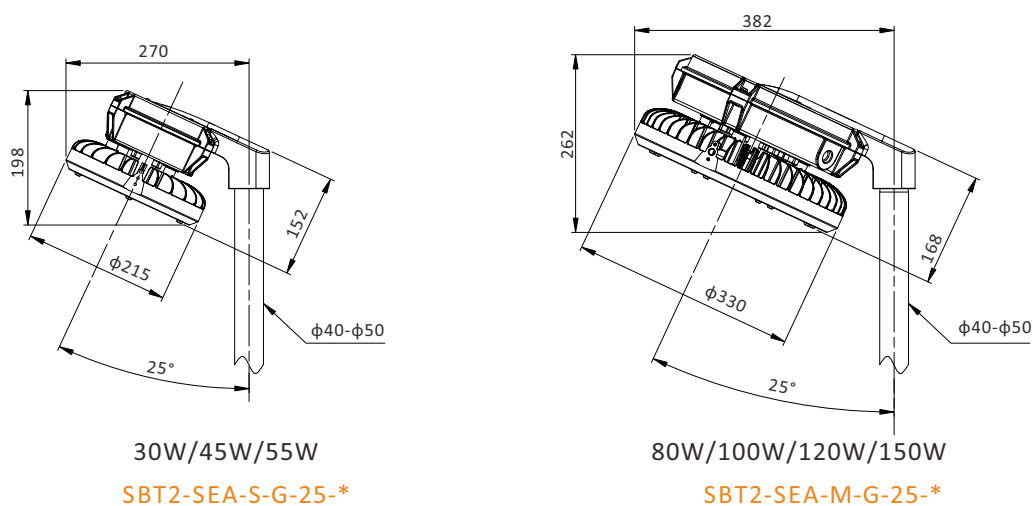
(unit:mm)



PCR-SEA-N/PCR-SEA-M

### Pole Mount

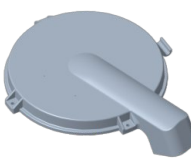
(unit:mm)



Note: \*for lighting pole thread types: G1-1/4、G1-1/2、M42、M48、NPT1-1/4、NPT1-1/2(Optional)



## Optional Parts

| No. | Installation Accessories | Part No.               | Picture                                                                             | Material | Weight(Kg) | QTY | Remarks                                             |
|-----|--------------------------|------------------------|-------------------------------------------------------------------------------------|----------|------------|-----|-----------------------------------------------------|
| 1   | Stanchion Bracket        | SBT-SEA-L-G            |    | Q235     | 1.8        | 1   | Stanchion Mount<br>(200W/240W/300W)                 |
| 2   | Stanchion Bracket        | SBT-SEA-M-G            |    | Q235     | 1.5        | 1   | Stanchion Mount<br>(80W/100W/120W/150W)             |
| 3   | Stanchion Bracket        | SBT-SEA-S-G            |    | Q235     | 1.3        | 1   | Stanchion Mount<br>(30W/45W/55W)                    |
| 4   | Ceiling Bracket          | BR-SEA-L-G             |   | Q235     | 1.8        | 1   | Ceiling Mount<br>Wall Mount<br>(200W/240W/300W)     |
| 5   | Ceiling Bracket          | BR-SEA-M-G             |  | Q235     | 1.5        | 1   | Ceiling Mount<br>Wall Mount<br>(80W/100W/120W/150W) |
| 6   | Ceiling Bracket          | BR-SEA-S-G             |  | Q235     | 1.3        | 1   | Ceiling Mount<br>Wall Mount<br>(30W/45W/55W)        |
| 7   | Loop                     | LO-SEA-M10-SUS316      |  | SUS316   | 0.26       | 1   | Pendant Mount                                       |
| 8   | Pipe Connector           | PCR-SEA-N<br>PCR-SEA-M |  | SUS316   | 0.28       | 1   | Pipe Mount                                          |
| 9   | 25° Pole Mount Bracket   | SBT2-SEA-M-G-25-*      |  | ADC12    | 1.34       | 1   | Pole Mount<br>(80W/100W/120W/150W)                  |
| 10  | 25° Pole Mount Bracket   | SBT2-SEA-S-G-25-*      |  | ADC12    | 1.14       | 1   | Pole Mount<br>(30W/45W/55W)                         |