



# Street LED Light

# MSL-AGCL- Specifications



## About Us,

MSL USA's LED streetlights are trusted by electrical contractors, government agencies, and project managers across the United States. Our selection of streetlights include fixtures with dusk to dawn photocell technology as well as weather resistant coating to ensure smooth operation through harsh weather conditions. We also offer solar powered streetlights for environmentally friendly projects. We advanced production technology, we deliver smart lighting solutions for streets, gardens, residential areas, and many more...



MSL-AGCL is a cutting-edge lighting solution meticulously designed to withstand the test of time, minimizing maintenance and replacement costs while delivering consistent, high-quality illumination year after year. Built with premium-grade materials, this LED streetlight is engineered to handle a wide range of environmental conditions, from extreme heat to heavy rain and strong winds. Its weatherproof and corrosion-resistant design ensures unwavering performance even in the most challenging outdoor settings, making it ideal for streets, highways, parking lots, and public places.

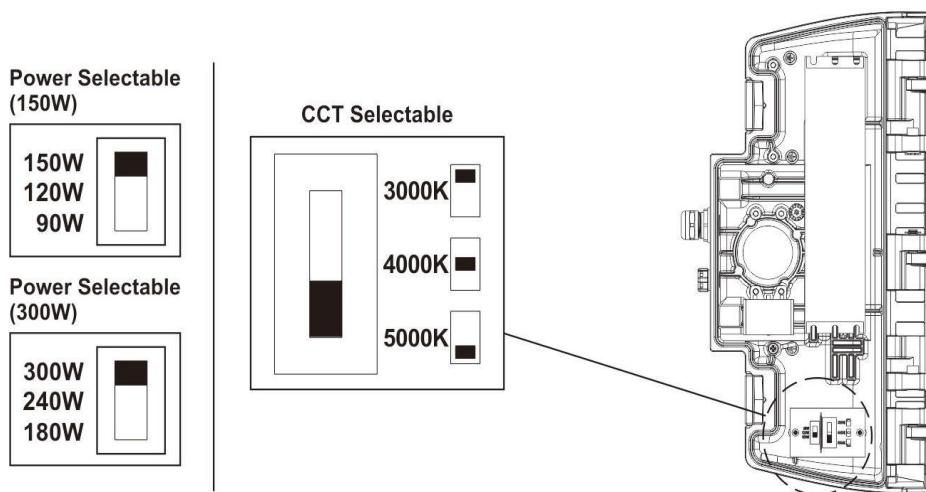
## Technical Specifications

Model	MSL-AGCL-150W	MSL-AGCL-300W
Led power	90W/120W/150W (Selectable)	180W/240W/300W (Selectable)
Luminous flux	23,250LM	46,500LM
Voltage	120-277 VAC 120-347 VAC 277-480 VAC 50 / 60 Hz	120-277 VAC 120-347 VAC 277-480 VAC 50 / 60 Hz
Fixture color		Bronze
Color temperature		3000K-5000K/ Amber
Distribution type		Type III, IV, V
Color rendering index		CRI $\geq$ 70
PF		$\geq$ 0.9
Body Material		Aluminum alloy
IP Rating		IP65
Photocell control		Optional
Microwave/PIR Sensor		Optional
Plug-and-play		Optional
Dimensions	465×334×67MM 18.31"×13.15"×2.64"	574×405×67MM 22.6"×15.94"×2.64"
Warranty		5 years

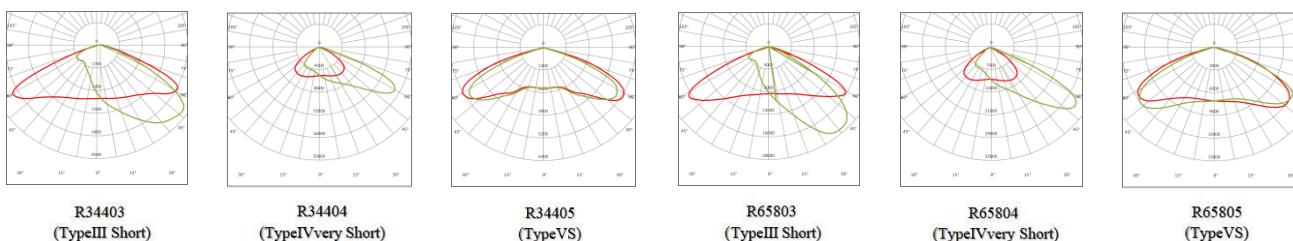
## Product Features

- Power and CCT adjustable optional.
- Light efficiency up to 155lm/W
- CCT selectable: 3000K, 4000K, 5000K
- Multiple distributions to meet various application: T3/T4/T5
- IK08 &IP65 robust protection
- Tool-free replacement of lenses and drivers

## Adjust power and CCT by DIP switch



## Photometric



## Installation Options



Slipfitter mounting



Yoke mounting

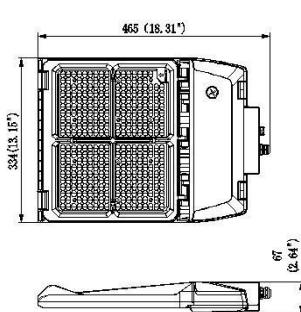


Square pole mounting

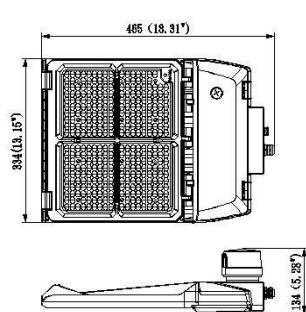


Round pole mounting

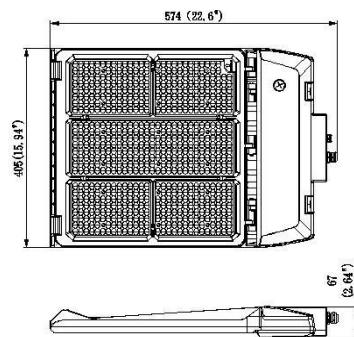
## Product Dimensions



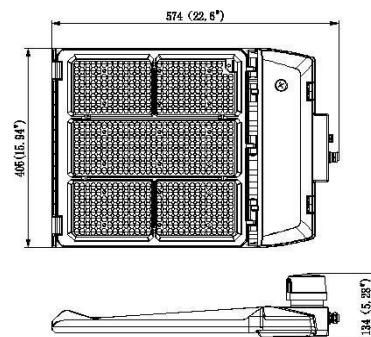
150W



150W



300W



300W

## Accessories



**Slipfitter mounting**

Adjustable angle mounting bracket with  $\Phi 60$ mm sleeve



**Slipfitter mounting**

Adjustable angle mounting bracket with  $\Phi 76$ mm sleeve



**Yoke Mounting**

Wall mounting bracket (large size) made of SPCC material, external dust removal, installation angle is adjustable.



**Arm mounting**

Excellent anti-corrosion Aluminum alloy material Built for round and square pole



**Microwave sensor**

12VDC Input,Microwave Sensor Module, for max 15M height



**PIR sensor**

12VDC Input,PIR Sensor Module, for max 12M height



**Photocell**

For 90-300W 120-277V version



**Photocell**

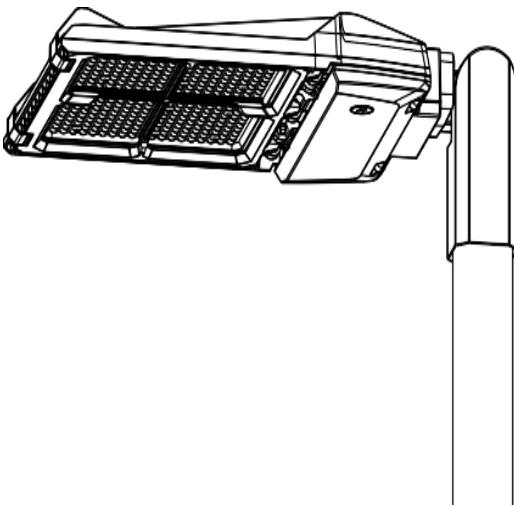
For 90-300W 277-480V version



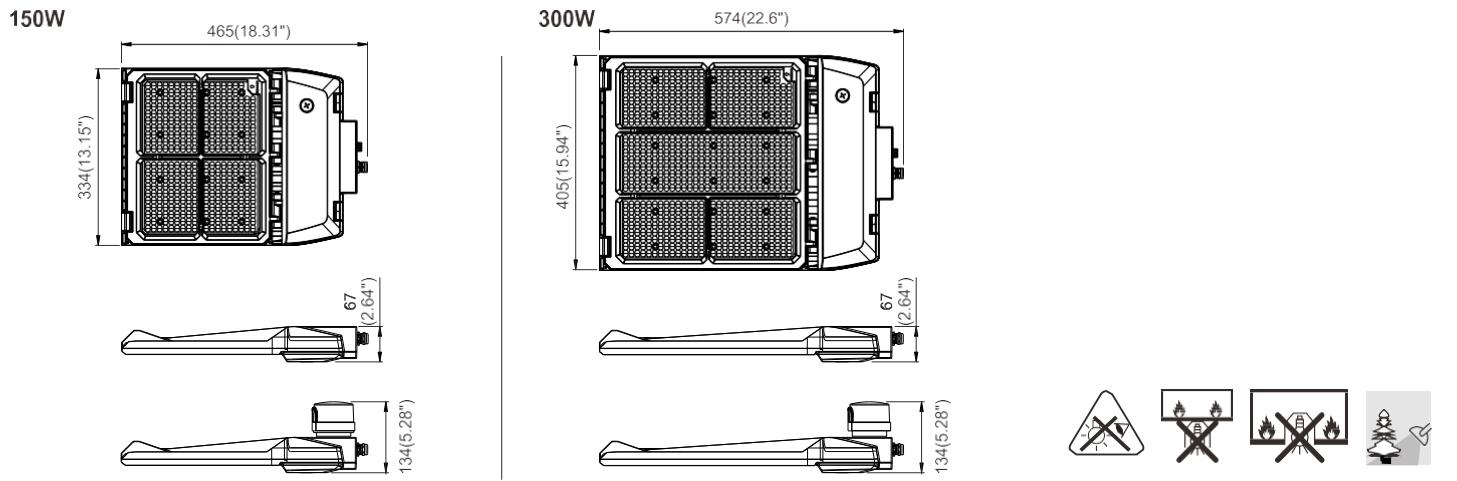
**Remote control**

Sensor code:  
HD07VR-PH / HD07VR-MH

## Installation Manual



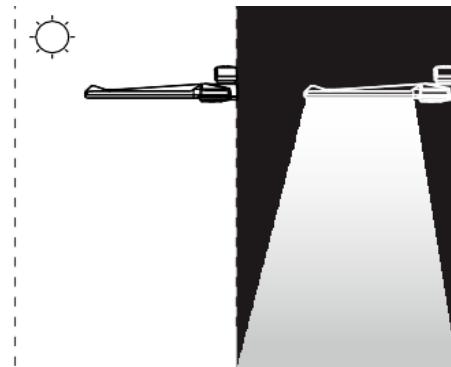
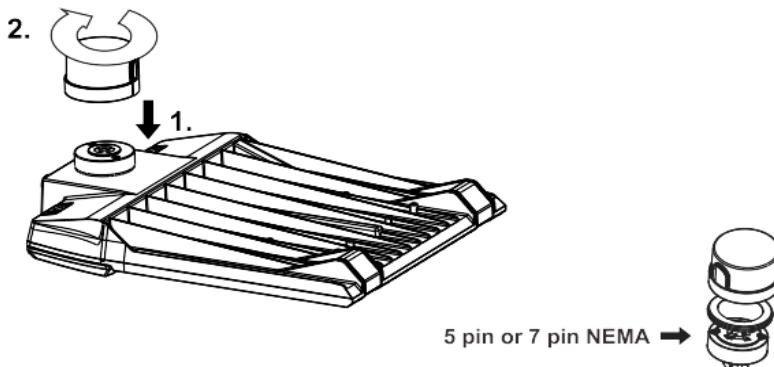
### Dimensions



Power	150W	300W
Input Voltage	120-277VAC / 120-347VAC / 277-480VAC (Subject to the input voltage on nameplate)	
Power Frequency		50 / 60Hz
Outlook Dimensions	465x334x67MM 18.30"x13.14"x2.63"	574x405x67MM 22.59"x15.94"x2.63"
Luminaire Net Weight	4.6kg/ 10.14lbs	6.5kg/ 14.33lbs
Projected Area	0.06m <sup>2</sup> / 0.19ft <sup>2</sup>	0.06m <sup>2</sup> / 0.29ft <sup>2</sup>
Working Temp.	-30°C to +50°C / -22°F to +122°F	
Storing Temp.	-40°C to + 70°F / -40°F to +158°F	

\*Please subject to actual product for accurate weight

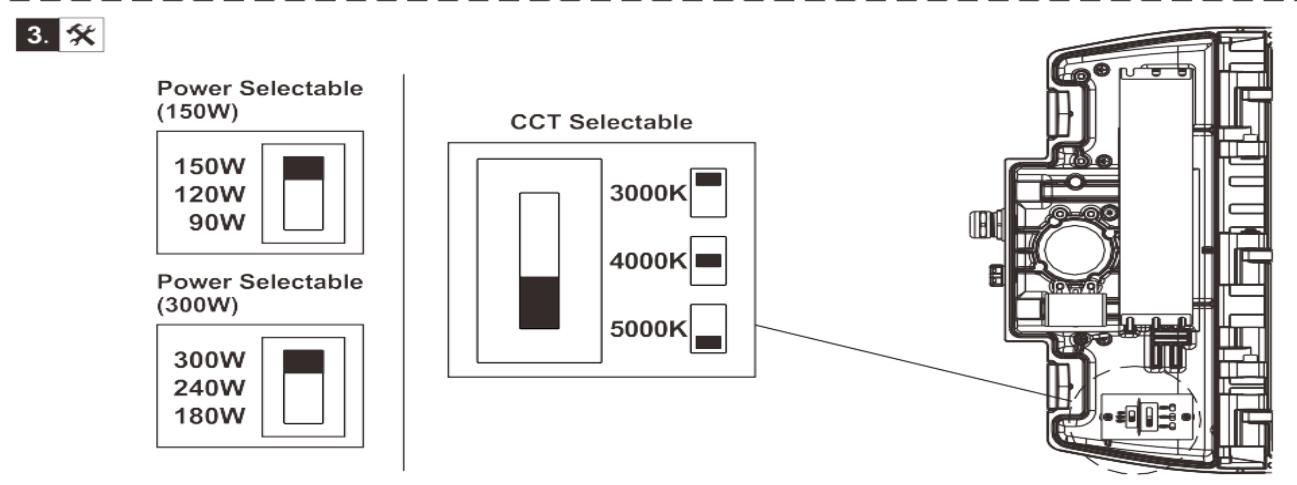
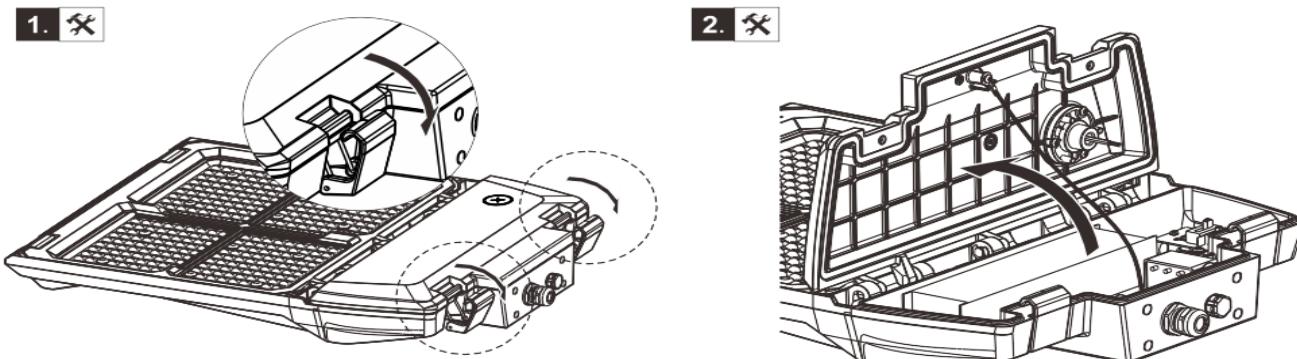
## Photocell (Optional)



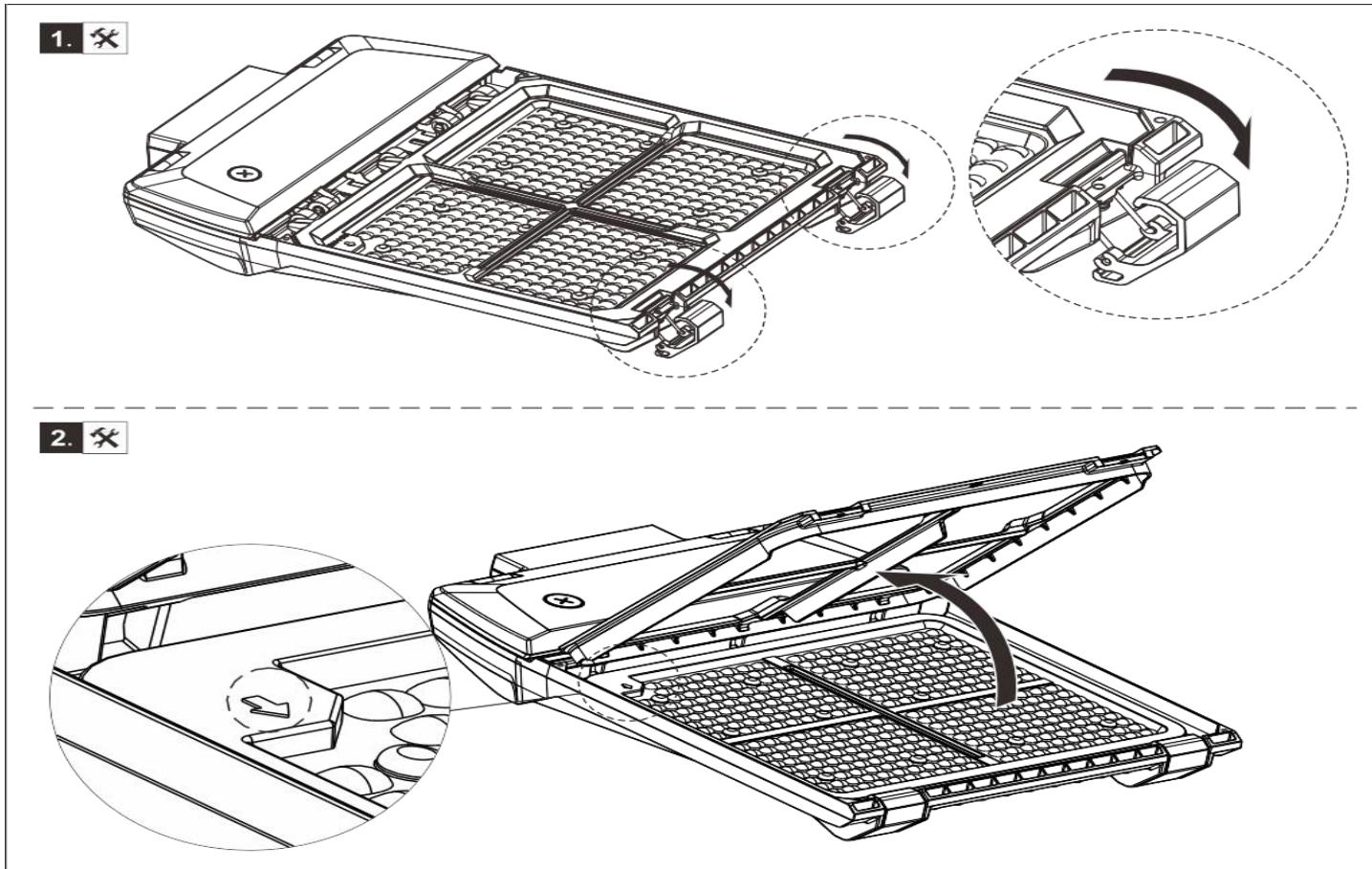
Note: If a 5 pin / 7 pin NEMA is applied, an additional waterproof gasket between the socket and the photocell controller will be required.

Rated Voltage	120-277VAC / 277-480VAC	Turn-Off Level / Time-Delay	60Lx / 2~15s
Rated Frequency	50/60Hz	Ambient Temp.	-40°C~ +70°C
Rated Loading	1000W Tungsten, 1800VA Ballast	Related Humidity	99%
Power Consumption	1.0VA	Service Life	5000 times
Turn-On Level / Time-Delay	10Lx / 15~120s	Overall Size	84(Dia.) x 66mm

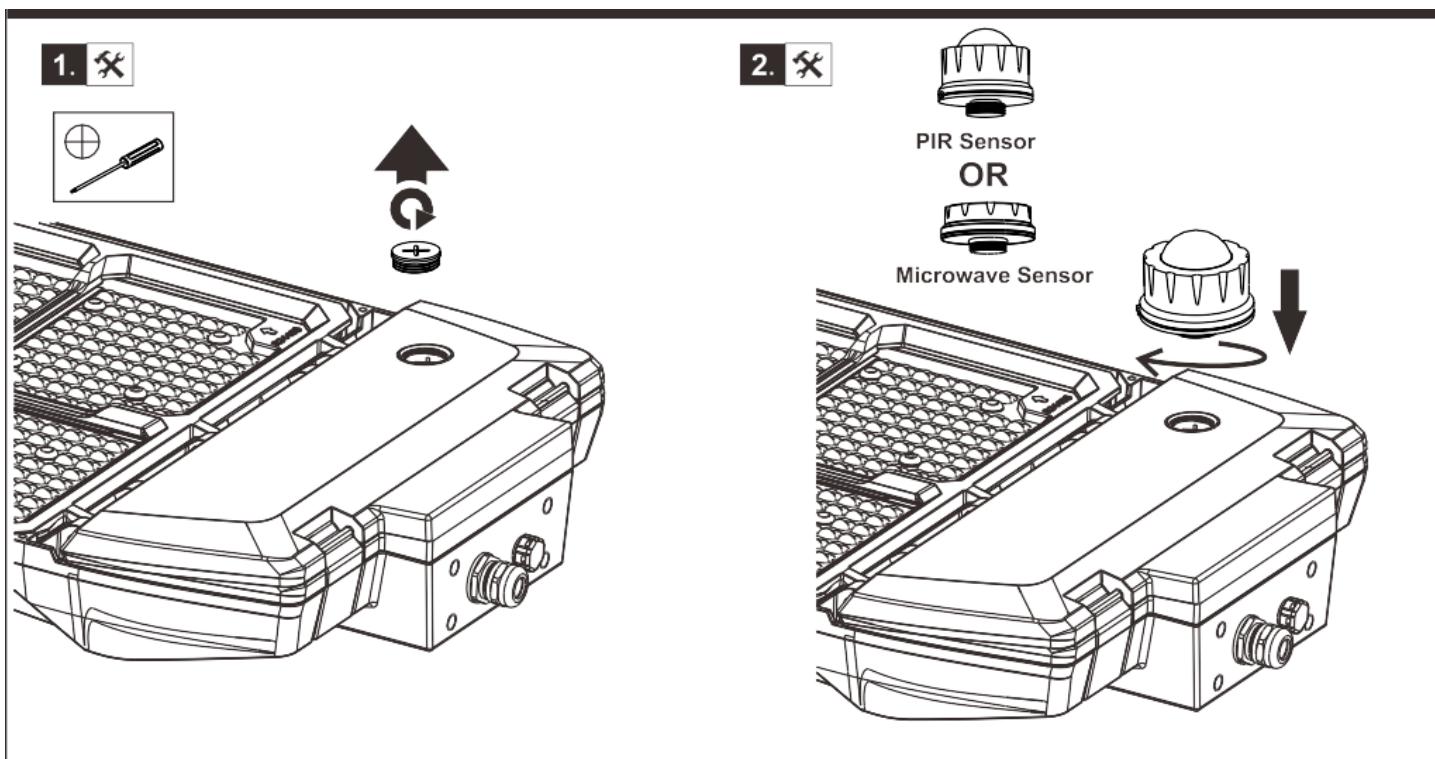
## Power & CCT Selectable



## Replace Lens

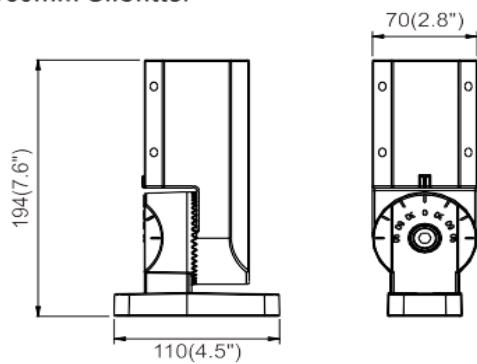


## Sensor Mount

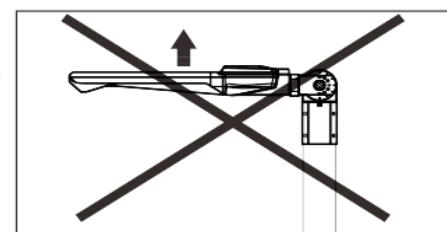
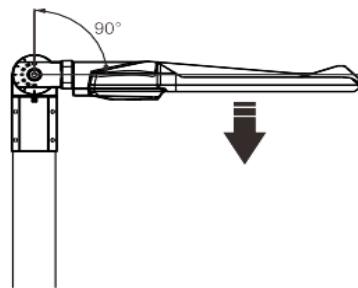
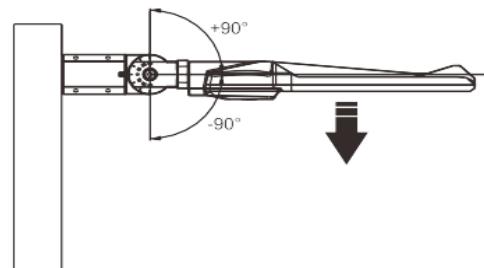
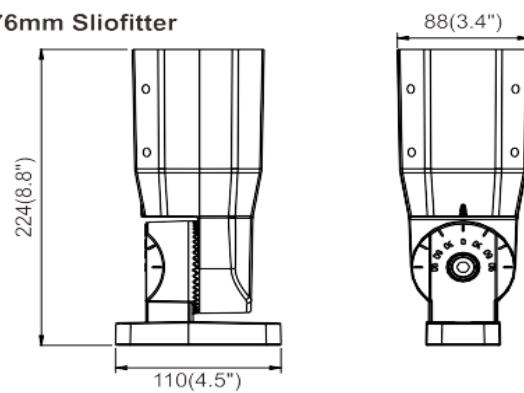


## Slipfitter Mount

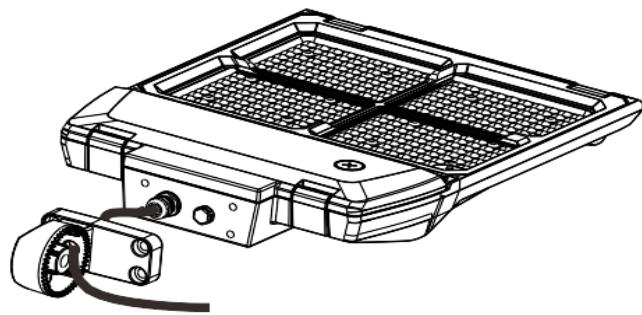
Ø60mm Sliofitter



Ø76mm Sliofitter

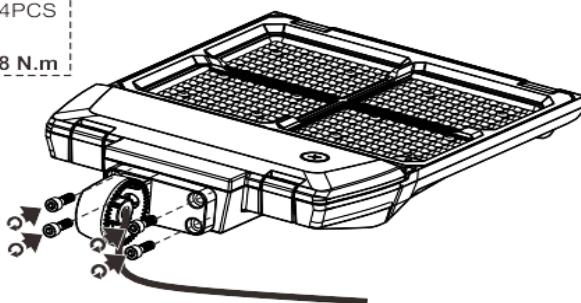


1. 



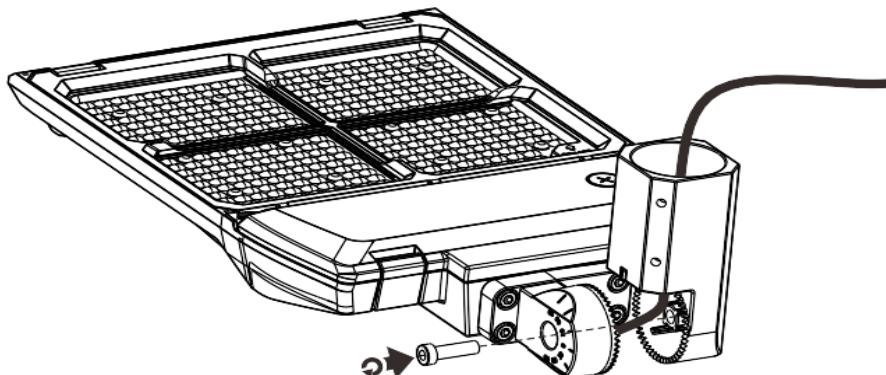
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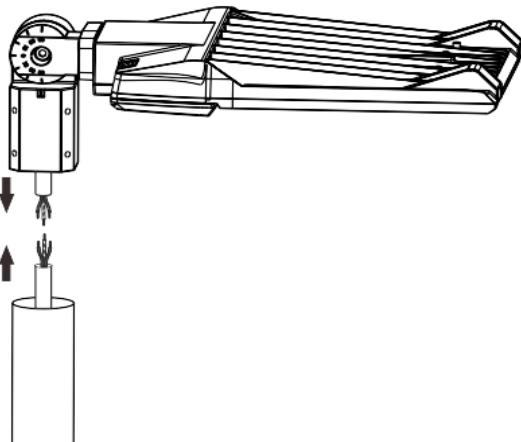
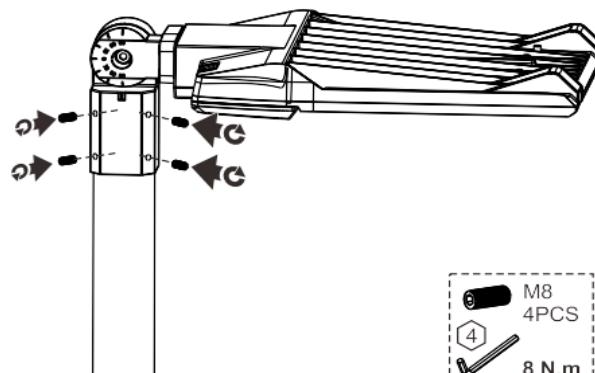
M8  
4PCS  
7  
8 N.m



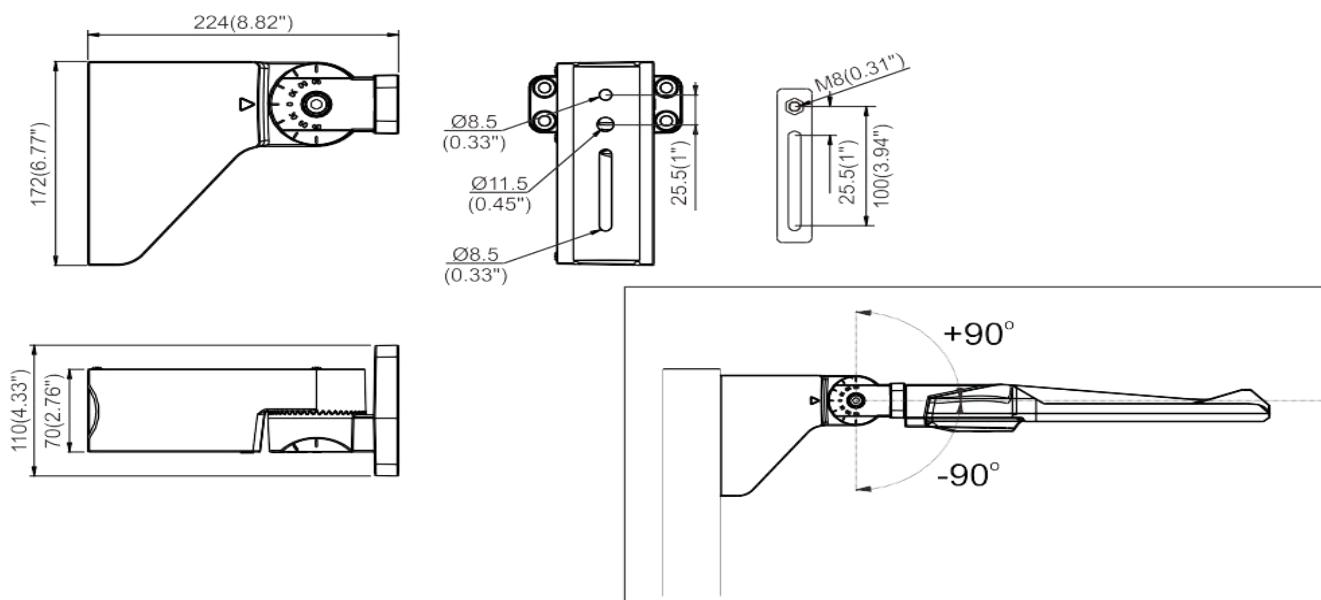
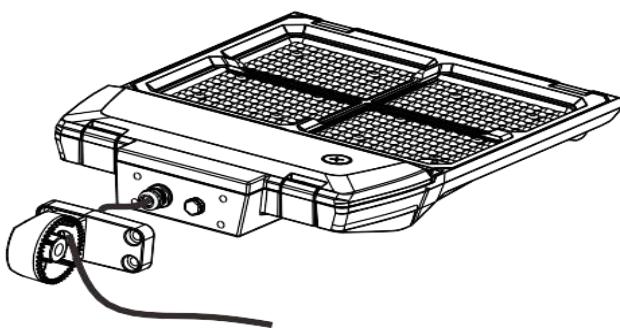
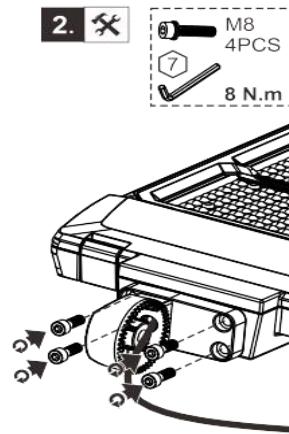
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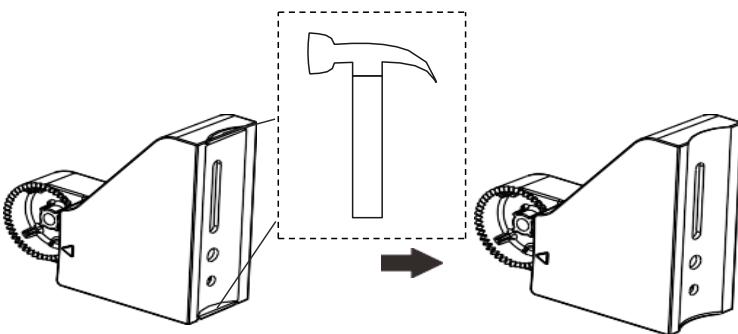
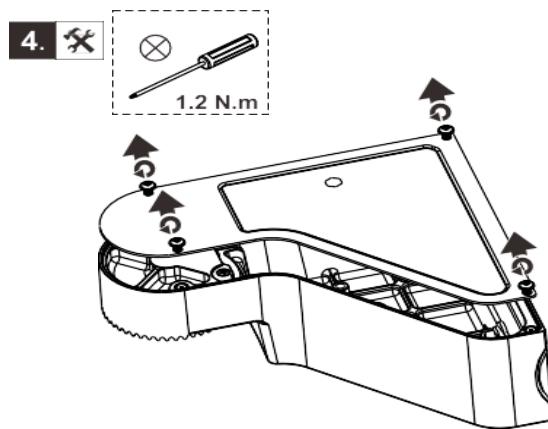
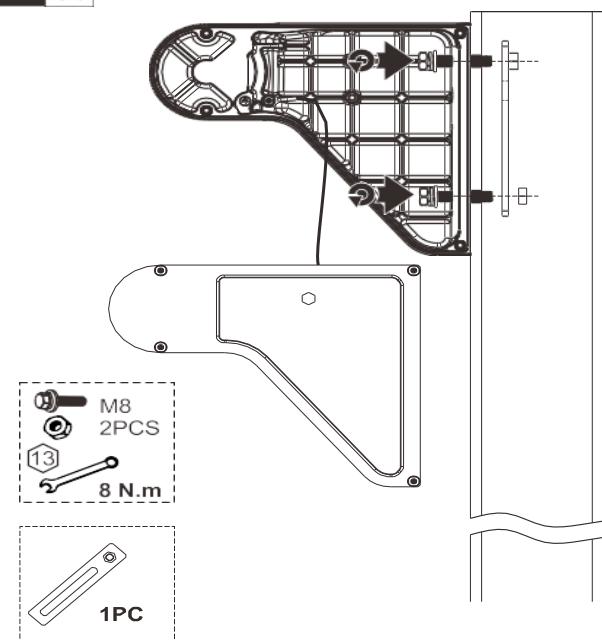
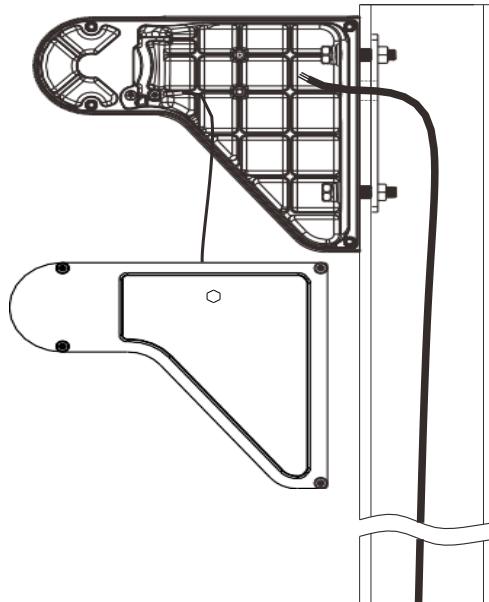
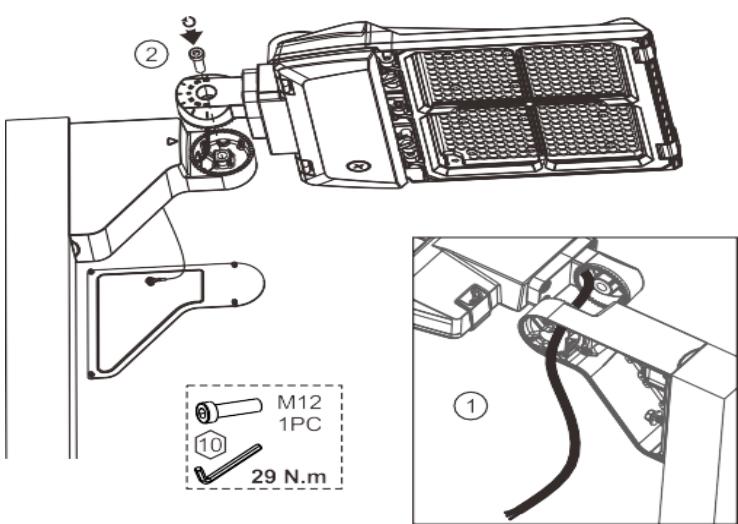
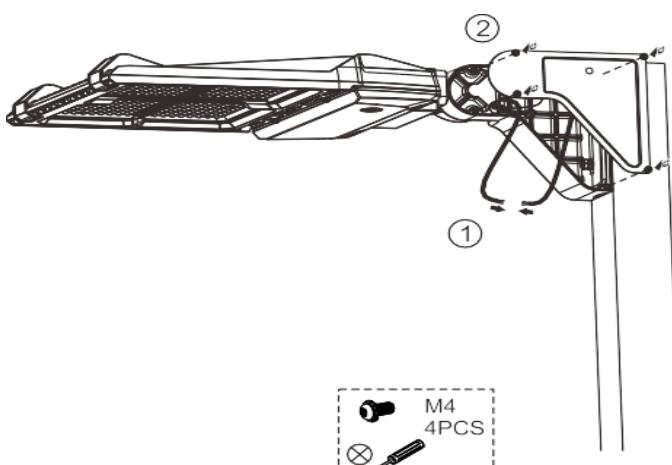
M12  
1PC  
10  
29 N.m



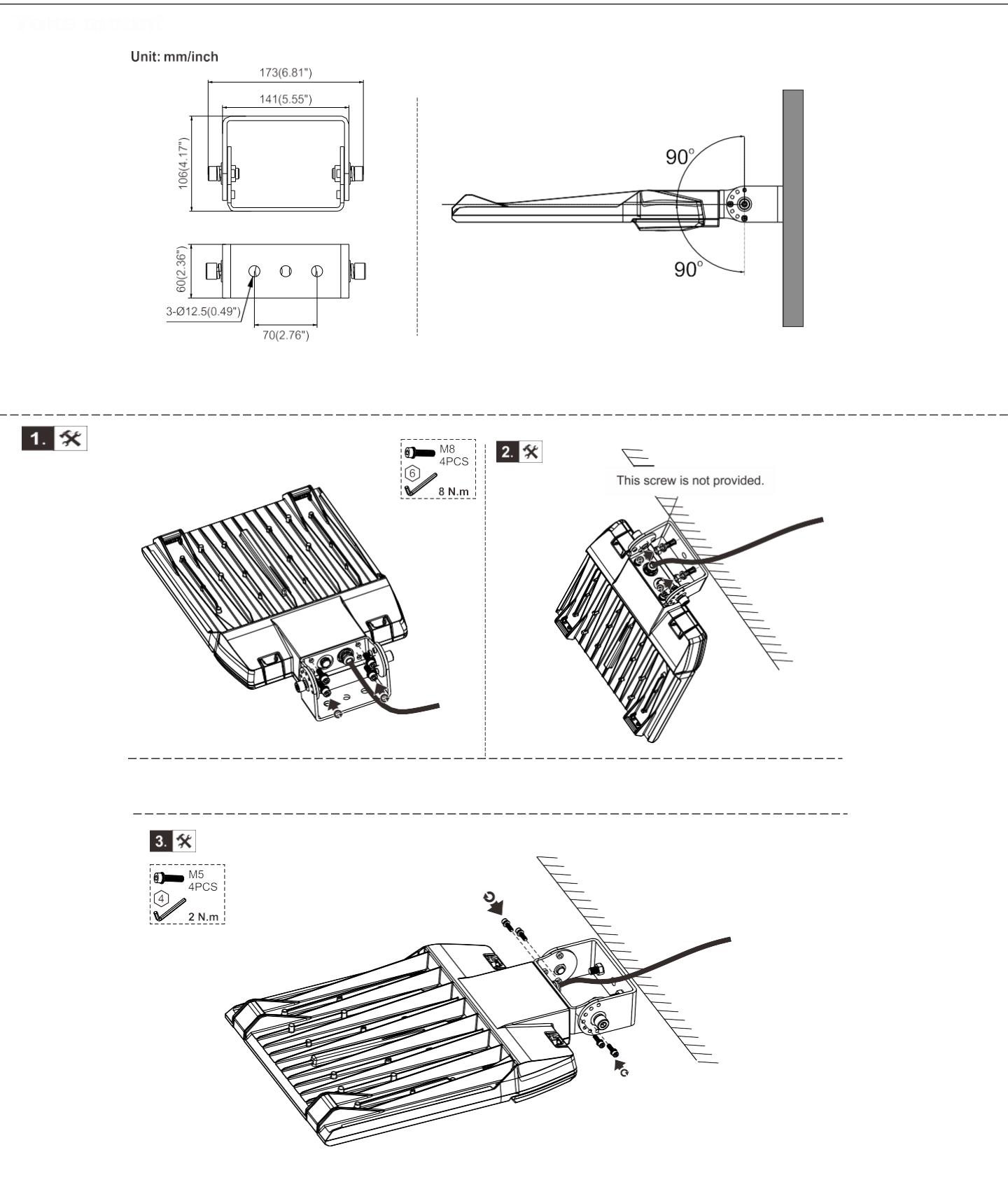
**4.**

**5.**


## Square / Round Pole Mount


**1.**

**2.**


**3. **

**4. **

**5. **

**6. **

**7. **

**8. **


## Yoke Mount



### AC cords

L	brown		black
N	blue		white
⏚	yellow/green		green

### DIM cords

Note: color for dim cords subject to the cable label on luminaire



Warning! Do not wire dim cord to high voltage, or dim function will fail.

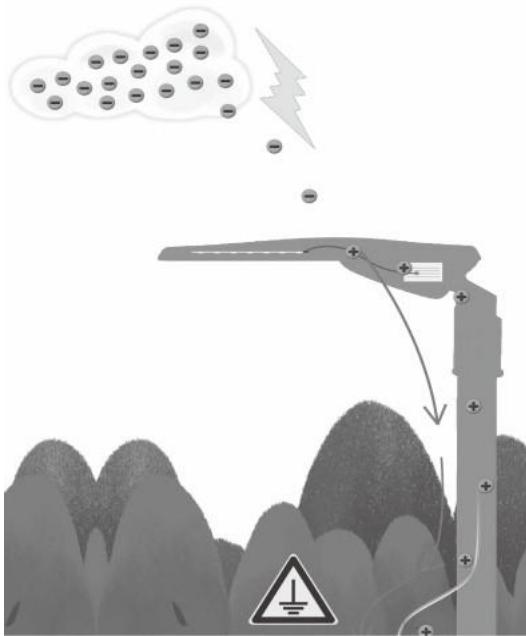
## Precautions for Outdoor Lighting

Lightning is a common natural phenomenon. When the accumulation of electric charge in the thundercloud to a certain degree, air breakdown will occur to cause electrostatic discharge between the clouds, or between the cloud and the earth. Normally there are direct lightning and induction lightning, most LED luminaires damage caused by induction lightning, such as electrostatic induction or magnetic field induction.

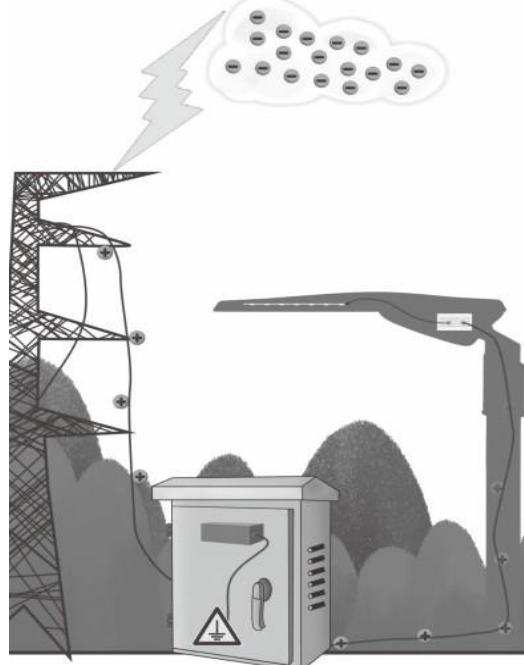
Below pretreatment can reduce lightning hazard, and extend luminaire lifetime

1. LED luminaire should be effectively grounded

2. Install surge protector in power distribution box



With effective grounding, the electric charge can be introduced to ground quickly



The SPD can absorb most surge energy before luminaire

### Reminder

We appreciate your purchase!

Please read the entire instruction manual before installation and keep it for future reference.

1. Please do not modify or dismantle the luminaire or replace accessories without confirming with the supplier first.
2. Please authorize only qualified personnel to install the lamp and ensure they follow the instruction manual. Any improper installation might cause falling, electric shock, fire, or other injury, damage or hazard.
3. Please disconnect power before installation or any maintenance of the lamp. Do not touch the power supply when the lamp is operating.
4. If the luminaire begins to smoke or emit odors, please disconnect power since fire or electric shock may occur. And ask qualified person to inspect and maintain the luminaire.
5. If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.
6. We suggest you adding a separate surge protection device in distribution box to extend luminaire lifespan.

### Applications

1. The product is designed for square, stadium, exhibition center, soccer field, tennis court and similar applications. For other special applications, please consult your salesperson to confirm firstly.
2. Too much dust or oil accumulation on PC lens will stop the lighting emit and heat dissipation, it will change lighting distribution, and cause high heat inside to affect LED chips performance. For such environments, we suggest you to clean the luminaire regularly to ensure longer lifespan. Or you need to use product with glass cover and better heat performance instead.
3. Mounting heights of lights not higher than 14m.



## Uses and Applications Guide

### USES AND APPLICATIONS GUIDE

Streets Lighting

Parking Lots

Residential Roads

Public Parks

Sports Lighting

## Ordering Guide

Model	Voltage	LED Wattage	Distribution type	LED Color Temp	LED body color	Options
MSL-AGCL	A120-277 VAC 120-347 VAC 277-480 VAC 50 / 60 Hz	150W 300W	3 – Type III	30K 40K 50K Amber	BRZ- Bronze	00- No motion sensor 01- With motion sensor 02-Photocell 03-Timer control