



# HIGHLIGHT MSL-EDG

## Specifications



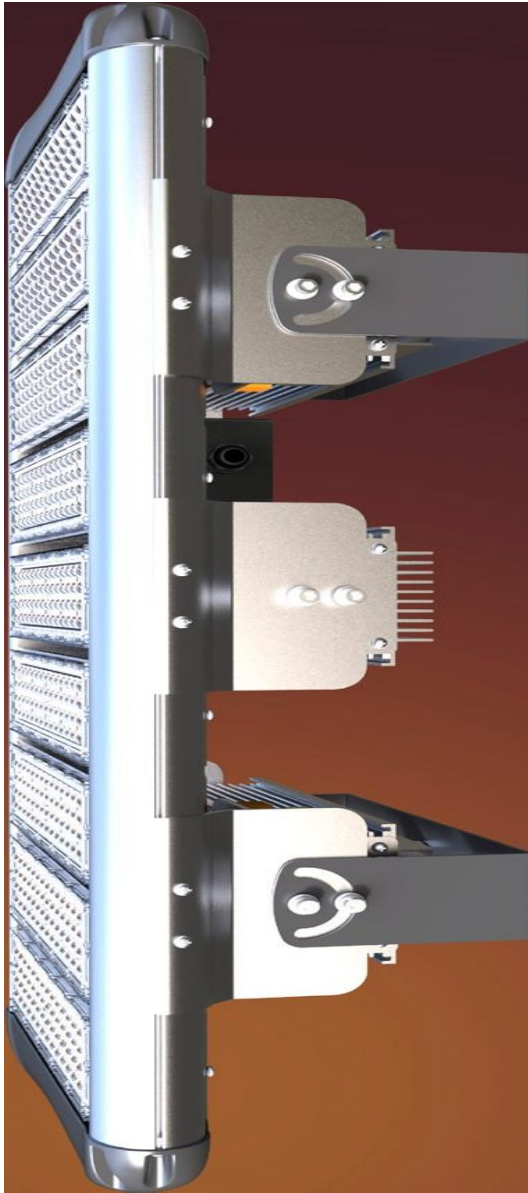


## About Us,

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-EDG is cutting-edge lighting solution is 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.



# HIGHLIGHT MSL-EDG™

LED HIGH BAY

HIGH TEMP APPLICATION

- ◆ **High Temperature**
- ◆ **Heavy Duty**

Designed for operation in an environment with ambient temperature up to 100°C/212°F, The low-profile, rugged Edge fixture is a worry-free, low maintenance lamp for maximum reliability, durability and shock, vibration and vandalism resistance, even in the harshest environment.



**Heavy Duty Industry**



**Chemical Industry**



**Metal Treatment**



**Oil and Gas Industry**



IP66



3G / 5G  
Vibration



80°C / 176°F  
100°C / 212°F  
Operating Temp



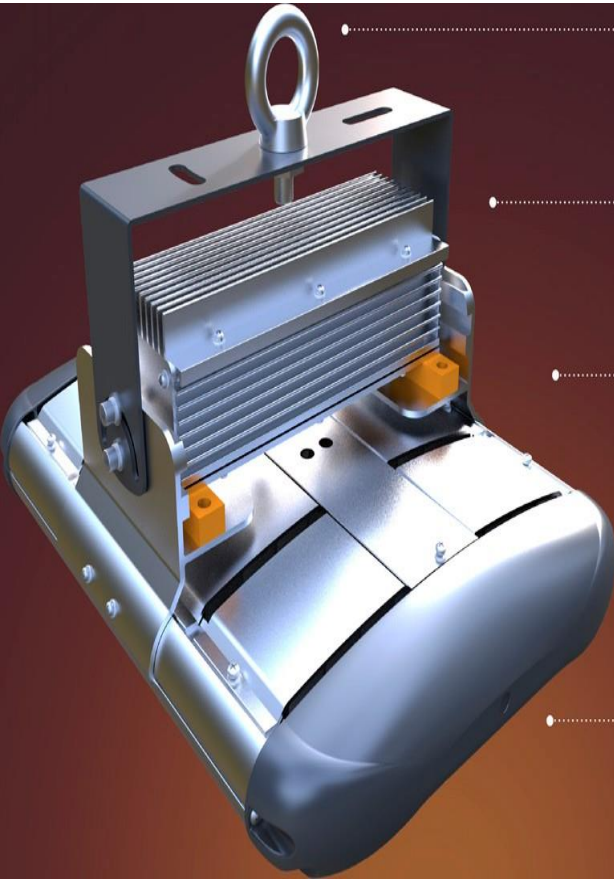
5 Years  
Warranty



IK10

The MSL-EDG series high temperature LED High Bay sets the industry standard with energy efficiency and durability for the longest-lasting performance in high ambient temperature industrial applications including Manufacturing, Power Generation, Water and Wastewater, Pulp and Paper, Metals and Mining, Chemical and Petrochemical and Oil and Gas.

## FIXTURE FEATURES



Excellent thermal management system ensures stable operation at 80°C / 100°C ambient temp.



Long lasting performance L70>100,000 hours.



IP66 for wet location & IK10 impact resistant for the harshest environment.



3G or 5G vibration rated for the most challenging applications.



Hanging ring or universal bracket for any types of installation, both indoor and outdoor.



15 types of optic lens at choice.



## PERFORMANCE



Philips Lumileds



4500~5500K (Standard)  
2500~5500K (Optional)



≥70



L70>120,000 Hours



100-277 VAC, 277-480 VAC



0.95 min



IP66



IK10



Corrosive resistant polyester powder coat finish



Operating Temperature: 80°C (176°F)  
100°C (212°F) With remote control



15% to 95% RH

Beam Angle

20 ° /30 ° /50 ° /90 ° /110 ° /150 ° /30x100 ° /60x100 °  
130x70 ° /70x135 ° /75x145 ° /60x150 ° /73x133 °

Driver  
Brand

Meanwell-HLG/ Meanwell-HVG

THD

20% Max

Housing

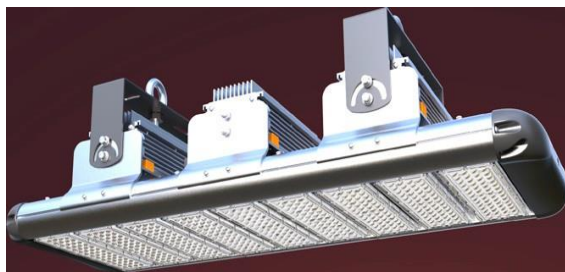
Aluminum Alloy

Mount  
Option

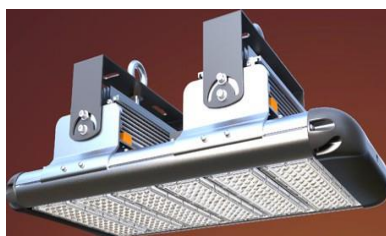
Standard U Bracket(Hang Ring)



# SPECIFICATIONS



9 Modules ~ 450W



6 Modules ~ 300W



4 Modules ~ 200W



3 Modules ~ 150W



2 Modules ~ 100W



1 Module ~ 50W

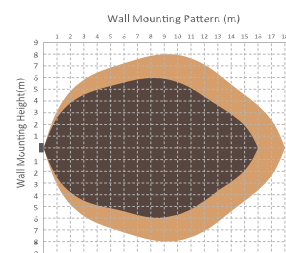
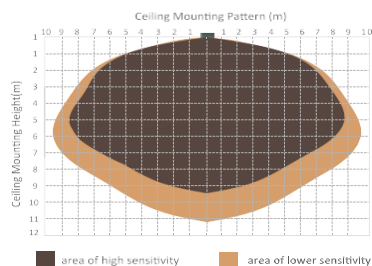
| Model   | Power | Efficacy<br>(IES) | Total<br>Lumen | N.W            | CRI | LED Chip | Product<br>Dimensions           |
|---------|-------|-------------------|----------------|----------------|-----|----------|---------------------------------|
| MSL-EDG | 50W   | 140lm/W           | 7,000lm        | 5.2kg/11.4lbs  | ≥70 | Philips  | 273x366x245mm<br>10.7x14.4x9.6" |
| MSL-EDG | 100W  | 140lm/W           | 14,000lm       | 7.8kg/17.1lbs  | ≥70 | Philips  | 308x366x245mm<br>12.1x14.4x9.6" |
| MSL-EDG | 150W  | 140lm/W           | 21,000lm       | 9.3kg/20.5lbs  | ≥70 | Philips  | 402x366x245mm<br>15.8x14.4x9.6" |
| MSL-EDG | 200W  | 140lm/W           | 28,000lm       | 10.7kg/23.5lbs | ≥70 | Philips  | 496x366x245mm<br>19.5x14.4x9.6" |
| MSL-EDG | 300W  | 140lm/W           | 42,000lm       | 16.5kg/36.3lbs | ≥70 | Philips  | 684x366x245mm<br>26.9x14.4x9.6" |
| MSL-EDG | 450W  | 140lm/W           | 63,000lm       | 28.0kg/61.7lbs | ≥70 | Philips  | 966x366x245mm<br>38.0x14.4x9.6" |

## Microwave Sensor & Dimmer Option



| Technical Data        |                                                       |                     |                           |
|-----------------------|-------------------------------------------------------|---------------------|---------------------------|
| Operating voltage     | 120-277V                                              | Standby power       | Approx. 0.5W              |
| Switched power        | Max. capacitive load: 800W<br>@277V, 400W@120V        | Warm time           | 20s                       |
| Detection Data        | 10/50/75/100% can be customized                       | Sensor principle    | Microwave motion detector |
| Hold time             | 5S/30S/1min/5min/10min/20min/30min, can be customized | Microwave frequency | 5.8GH±/-75MHz             |
| Standby period        | 0s/10s/1min/5min/10min/30min/1h/ can be customized    | Microwave power     | <0.2mw                    |
| Standby dimming level | 10%/20%/30%/50% can be customized                     | Detection range     | Max. (ΦxH):18m x 10m      |
| Daylight threshold    | 2-50lux daylight/twilight/darkness, can be customized | Detection angle     | 30°-150°                  |
| Operating temperature | -35°C-70°C (-31°F-158°F)                              | Mounting height     | Max. 10m                  |
| IP Rating             | IP20, IP65 (mounting in Hytronik special box)         | Certificate         | ETL, FCC                  |

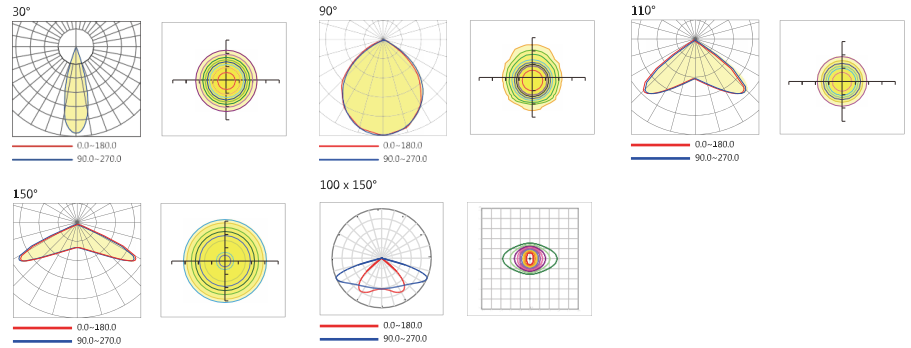
## Detection Pattern



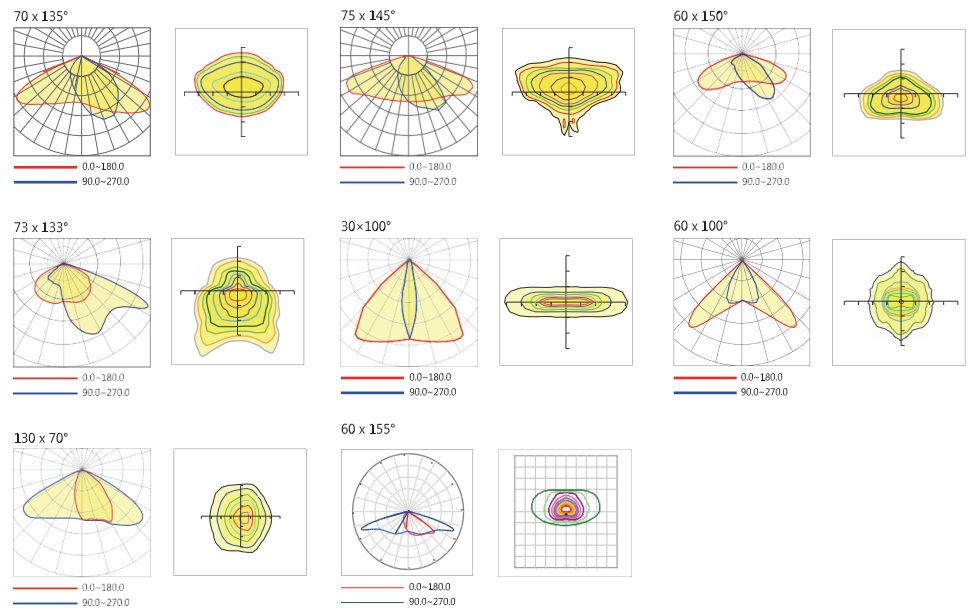
# PHOTOMETRICS



## Round Light Spot



## Rectangular Light Spot



## INSTALLATION

For high performance and long term reliability, the light should be installed in free air.

### **Hanging Ring Mount**

1. Tighten the NUT attached to the hanging ring to ensure the hanging ring is securely

connected to the light fixture.

1. Hang the ring to the field supplied by the mounting hook or chain.

2. Wiring. (Connect supply wires to luminaire wire leads per the wiring diagram using

methods that comply with all applicable codes.)

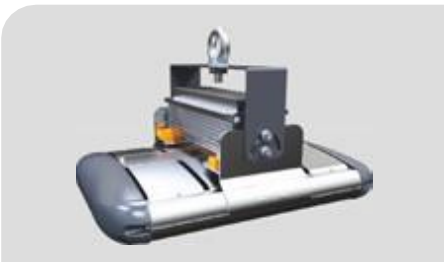
### **Universal Bracket**

1. Rotate the bracket to the desired angle and tighten screw to lock it.

2. Bolt the universal mounting bracket to the field mounting point.

Bolt the center point before the two side points. Tighten the bolts to wrench tight.

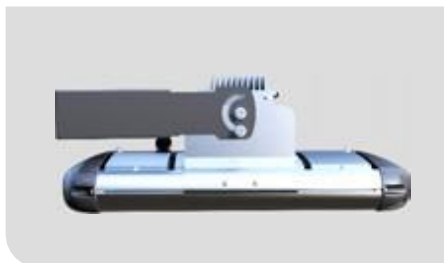
3. Wiring. (Connect supply wires to luminaire wire leads per the wiring diagram using methods that comply with all applicable codes.)



Hanging Ring



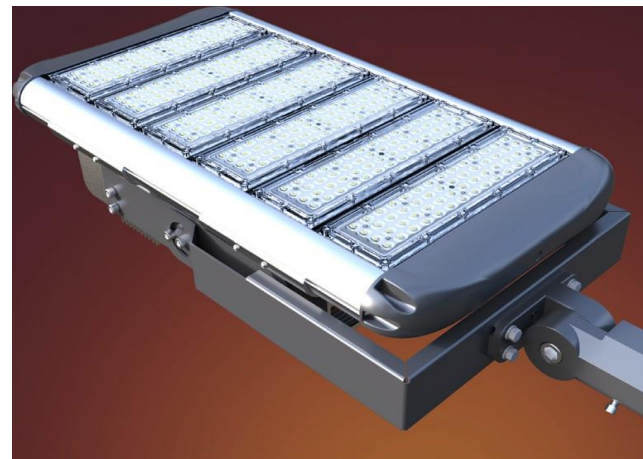
180° U Bracket



360° Heavy Duty U Bracket



360° Heavy Duty U Bracket + Slip Fitter



# Uses and Applications Guide

## USES AND APPLICATIONS GUIDE

Sport Fields

Street Lighting

## Ordering Guide

| Model                | LED Power                                   | Luminaire    | Dimmability                    | LEDs                 | Distribution type                                                                                                                                                                                                  | LED Color Temp           | Driver      | Input Voltage                           | Fixture color                       | Mounting options              | Options                                                                                                                                                                                                                             |
|----------------------|---------------------------------------------|--------------|--------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|-----------------------------------------|-------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HIGHLIGHT<br>MSL-EDG | 50W<br>100W<br>150W<br>200W<br>300W<br>450W | HB- High bay | 00-Non Dimmable<br>01-Dimmable | 1-Philips<br>lumiled | 20D- 20 °<br>30D- 30 °<br>50D- 50 °<br>90D- 90 °<br>110D- 110 °<br>150D- 150 °<br>30/100- 30x100°<br>60/100-60x100°<br>130/70- 130x70°<br>70/135- 70x135°<br>75/145- 75x145°<br>60/150- 60x150°<br>73/133- 73x133° | 30K<br>40K<br>50K<br>55K | 1- Meanwell | 1- AC 100-<br>277V<br>2- AC200-<br>480V | BLK-Black<br>GR-Grey<br>BRZ- Bronze | U- U bracket<br>HR- Hang ring | 00- No motion<br>sensor<br>01- With motion<br>sensor<br>02-Photocell<br>03- Remote control<br>6KV Surge<br>Protective Device<br>*10KV Surge Protective<br>Device<br>*20KV Surge Protective<br>Device<br>*Customize up on<br>request |