



# Decoration Street LED MSL-LTD-SL- 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-LTD-SL



MSL-LTD-SL 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.



# SPECIFICATIONS

| Model                 | MSL-LTD-SL-30W                                                        | MSL-LTD-SL-50W            | MSL-LTD-SL-100W            | MSL-LTD-SL-120W             |
|-----------------------|-----------------------------------------------------------------------|---------------------------|----------------------------|-----------------------------|
| Led power             | 30W                                                                   | 30W-50W-60W<br>Selectable | 30W-60W-100W<br>Selectable | 80W-100W-120W<br>Selectable |
| Luminous flux         | 3,525LM                                                               | 7,600LM                   | 11,340LM                   | 13,489LM                    |
| Voltage               | 120-277VAC                                                            |                           |                            |                             |
| Fixture color         | Black                                                                 |                           |                            |                             |
| Color temperature     | 3,000K-5,000K                                                         |                           |                            |                             |
| Distribution Type     | Type III, IV, V                                                       |                           |                            |                             |
| Color rendering index | CRI <u>≥80</u>                                                        |                           |                            |                             |
| Motion Sensor         | Microwave Bi-lever Available                                          |                           |                            |                             |
| PF                    | ≥0.9                                                                  |                           |                            |                             |
| Body Material         | Die-casting aluminum                                                  |                           |                            |                             |
| IP Rating             | IP65                                                                  |                           |                            |                             |
| Certificates          | DLC, ETL/cETL, CE/RoHS<br>UL 924, UL 1598, CAN/CSA -C.22.2 NO. 250.0, |                           |                            |                             |
| Pole Diameter         | Ø76mm (Ø3") or Ø60mm (Ø2 3/8")                                        |                           |                            |                             |
| Warranty              | 5 years                                                               |                           |                            |                             |

## DISTRIBUTION DIAGRAM

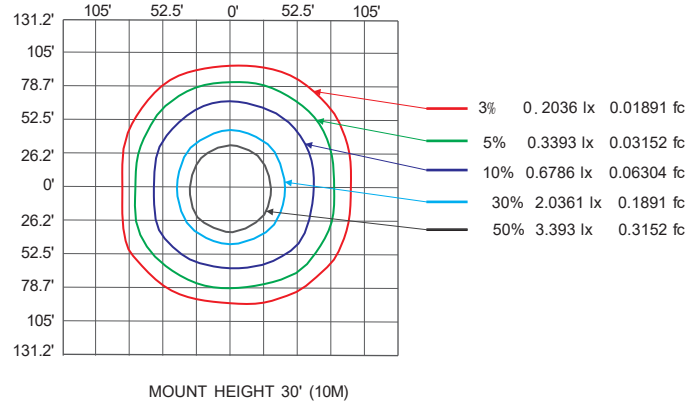
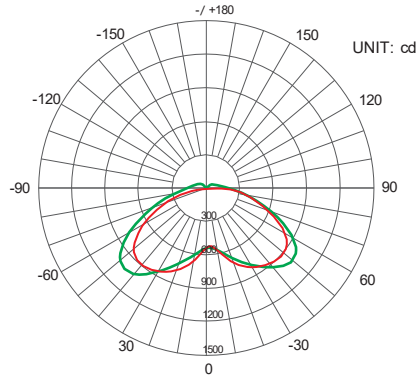
MODEL# MSL-LTD-SL-50

TYPE V.

51W, 4,817lm (froty)

51W, 5,712lm (clear)

— V 0.0 DEG PLAN 162.2  
— H 0.0 DEG PLAN 165.0



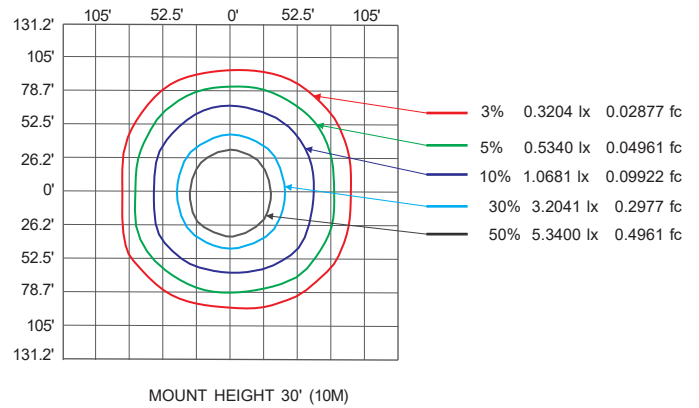
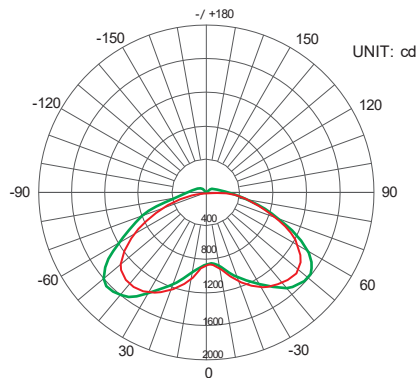
MODEL# MSL-LTD-SL-80

TYPE V.

80W, 7,581lm (froty)

80W, 9,209lm (clear)

— V 0.0 DEG PLAN 162.2  
— H 0.0 DEG PLAN 165.0



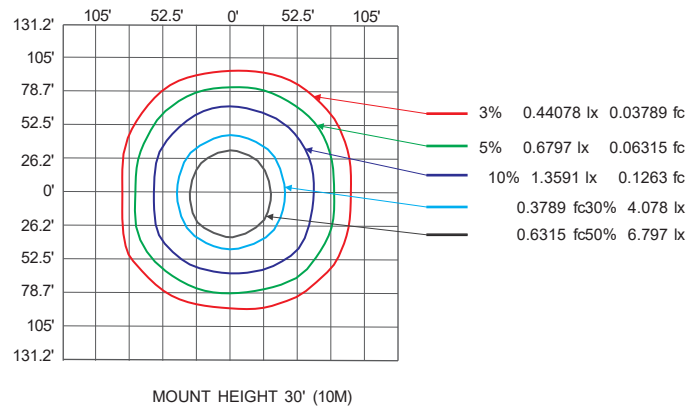
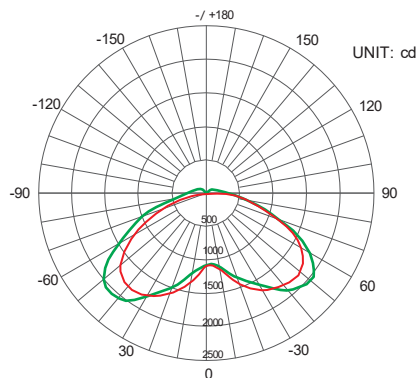
MODEL# MSL-LTD-SL-100

TYPE V.

103W, 9,647lm (froty)

101W, 11,340lm (clear)

— V 0.0 DEG PLAN 162.2  
— H 0.0 DEG PLAN 165.0



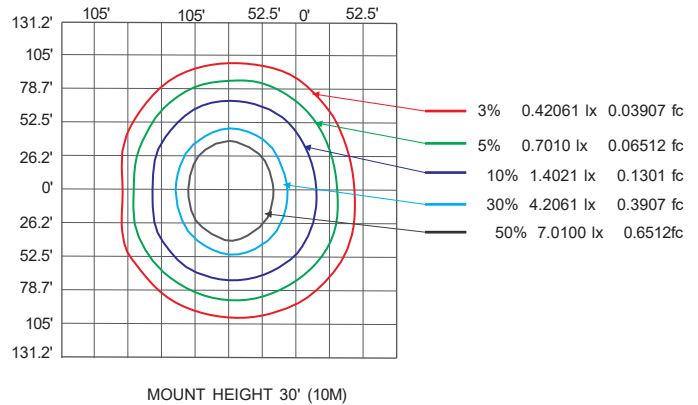
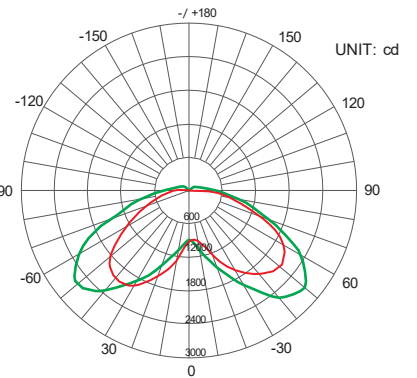
MODEL# MSL-LTD-SL-120

TYPE V.

120W, 11,154lm (froty)

120W, 13,489lm (clear)

— V 0.0 DEG PLAN 171.5  
— H 0.0 DEG PLAN 178.4



## FIXTURE FEATURES

### Photocell Option

switch on the lamp at dusk and off at dawn with sufficient ambient light.

### Upper Housing

Die-casting aluminum alloy. Waterproof IP 65 rated & standard Black Powder coating finish for rust-proof

### Motion Sensor

With its signature 3-step dimming function, it is perfect for use in areas that require a light change notice before optionally switching off the light.

### Metal Frame

One-piece-die-casting aluminum alloy frame for impact-resistance. Standard Black Powder coating finish for rust-proof

### Mount Screw

Stainless steel Hex Socket Head Cap Screws

### Slide Switch

(Wattage & CCT Selectable)

### LED Driver

- UL Listed
- 100-277vac
- Meanwell/Sosen
- Power & CCT Tunable available
- 4/6 KV Surge Protection

### LED Module

1. LM 80 High efficacy of SMD LED chips.
2. High efficacy LED boards with dual copper cladding for thermal dissipation
3. CCT Selectable
4. Wattage Selectable

### Diffuser

1. Frosty or Clear for options
2. Glass or PC plastic cover for option



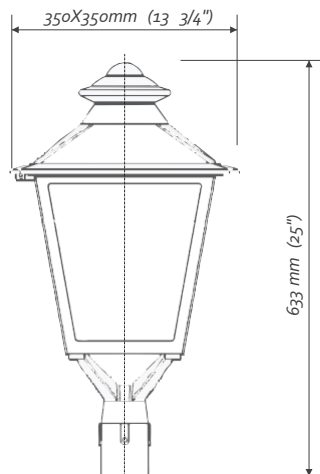
### Mount Bracket

Die-casting aluminum alloy. & Powder coating finish for rust-proof

### Mount Base

Match with Diameter 2 3/8" or 3" of pole

## DIMENSION



Fit for Pole Ø76mm (Ø3")  
or Ø60mm (Ø2 3/8")

## DIFFUSER OPTION

Frosty  
Glass Diffuser



Clear  
Glass Diffuser



Frosty  
PC Diffuser

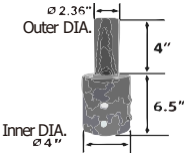
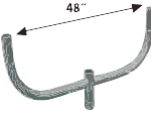
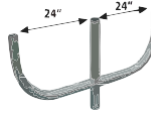
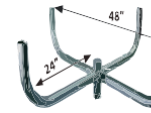
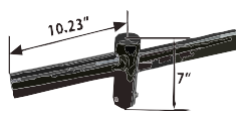
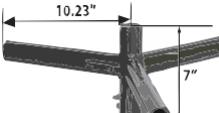
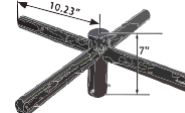


## PACKAGE

| Model#                     | QTY / CTN | N. W. / CTN            | G. W. / CTN            | Carton Size |
|----------------------------|-----------|------------------------|------------------------|-------------|
| LT-PTB30/50<br>LT-PTB60/80 | 1 piece   | 11.2 Kg<br>(25.00 IBS) | 12.5 Kg<br>(27.56 IBS) | 43x43x54 cm |
| LT-PTB100/120              | 1 piece   | 11.5 Kg<br>(25.40 IBS) | 13.2 Kg<br>(29.10 IBS) | 43x43x54 cm |

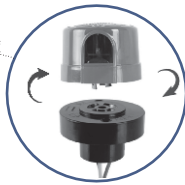
## INSTALLATION OPTIONS

Depending on the type of light, you may need to have the right mounting-option available too. You can also buy Tenon Adaptor, Bullhorns and Spoke from us, suitable for wooden, metallic, or concrete poles - square or round.

|                       |                                                                                                                                                   |                                                                                                                   |                                                                                                                       |                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Bullhorn Style</b> |  <p>Tenon</p> |  <p>Twin Bullhorn</p>          |  <p>Triple Bullhorn</p>          |  <p>Quad Bullhorn</p>          |
| <b>Spoke Style</b>    |  <p>Twin Spoke</p>                                 |  <p>Twin Spoke</p> |  <p>Triple Spoke</p> |  <p>Quad Spoke</p> |

## ACCESSORY

### Photocell Optional



- Standard Three-Prong Twist Lock Photocell
- Automatically turn on and off, dusk to dawn
- DAYLIGHT (AMBIENT LIGHT THRESHOLD) ADJUSTABLE:  
10lux / 30lux / 50lux / 100lux / 150lux / 200lux / 300lux / Disable

### CCT & Power Selectable Optional



3 different wattage and CCT settings in the field with two simple slide switches, such as 30W-50W-80W, 3000K-4000K-5000K.

This flexible choice capability allows for a cost-effective method to reduce stocking inventory by 88%.

### Motion Sensor Optional



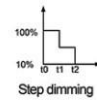
### Remote Controller



ON/OFF function



Daylight harvesting



■ 3-step dimming function

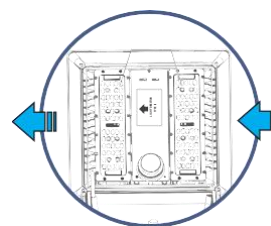
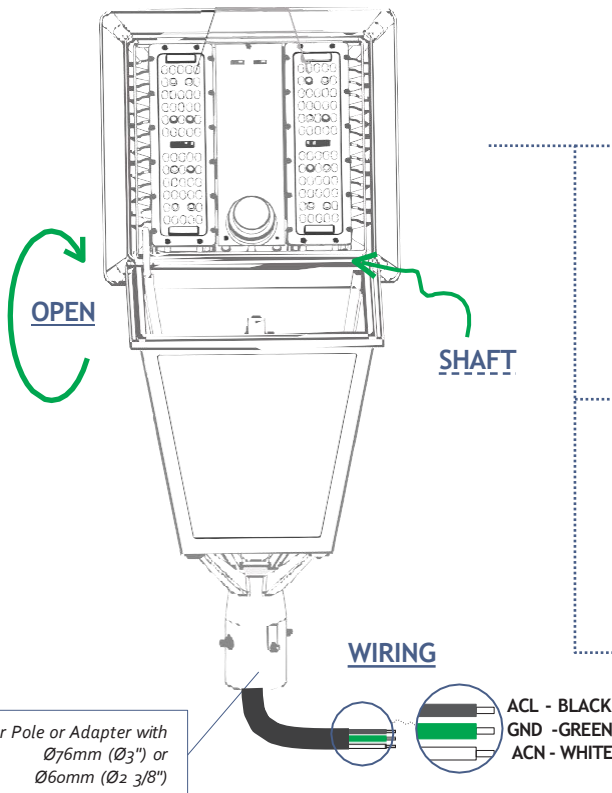
### DAYLIGHT (ON/OFF)

- Stand-by period adjustable: 1min / 30min / 1h / infinity 0% / 20% / 30% / 50%
- Holding Time adjustable: 5s / 1min / 5min / 10min / 15min / 20min / 30min / 1h

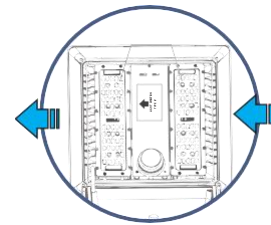
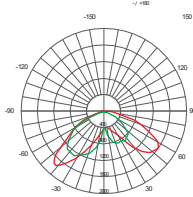
## INSTALLATION

LED post light fixtures are installed on top of poles and have a Type III, Type IV, or Type V distribution that lights up the area around the pole. The prerequisite of the best outdoor area & site lighting needs to consider the distribution types and patterns imposed by the Illuminating Engineering Society of North America (IESNA). In order not to light with wrong direction after installed, below show correct light direction for type III, IV and V lenses.

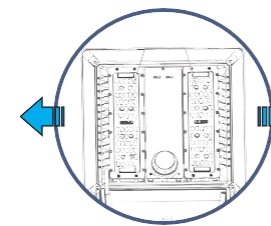
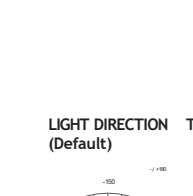
## LIGHT DISTRIBUTION



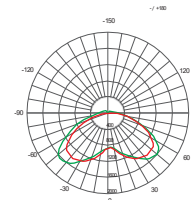
### LIGHT DIRECTION TYPE III



### LIGHT DIRECTION TYPE IV



### LIGHT DIRECTION TYPE V(S) (Default)





# Uses and Applications Guide

## USES AND APPLICATIONS GUIDE

Streets Lighting

Parking Lots

Residential Roads

Public Parks

Gardens

Pathways

Bike Lanes

# Ordering Guide

| Model      | Voltage    | LED Wattage                                                                | Distribution Type                         | LED Color Temp    | LED body color | Options                                                    | KV Options                                                                                        |
|------------|------------|----------------------------------------------------------------------------|-------------------------------------------|-------------------|----------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| MSL-LTD-SL | AC120-277V | 30-30W/50W/60<br>50- 30W/60W/100W<br>100-30W/60W/100W<br>120-80W/100W/120W | 3 – Type III<br>4 – Type IV<br>5 – Type V | 30K<br>40K<br>50K | BLK- Black     | 01 – Motion Sensor<br>02 - 10VDC Dimming<br>03 - Photocell | 6KV Surge protector<br>*10KV Surge protector<br>*20KV Surge protector<br>*Customize up on request |