

# LED MOON SERIES LOW BAY/GARAGE/CANOPY



## PRODUCT DESCRIPTION

The moon series offers a high-performance solution for the most demanding applications packaged in a unique and easy to install design. With different precision refractive optical lenses and versatile mounting options including post top, low bay, parking garage, and gas station canopy, this luminaire can be used in many applications such as pedestrian street, factories, schools, gardens, courtyards, hotels, parking lots, and public parks.

## FEATURE

- Tempered Clear and frosted glass lens
- Various mounting options
- Various sensors available
- Performance up to 165LPW
- House side shield and wire guard available
- DLC5.1 premium listed

## ELECTRICAL SYSTEM

- Input Voltage: 120-277VAC/347V/480V
- 50/60Hz
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10KA surge suppression protection standard
- Driver is dimmable. The dimming wires are inside the fixture

## SPECIFICATION

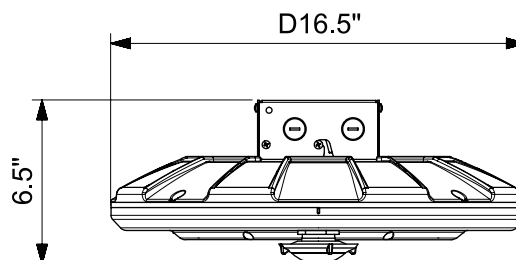
Dimension(D-H):

Diameter: 16.5"

Height: 6.5"

Max. Weight: 15.9 lbs

The Cable Wire Length: 11.8"



## PERFORMANCE

CRI

≤50W, 70 CRI

>50W, 80 CRI

CCT

3000K, 4000K, 5000K

Dimming

0-10V Dimmable driver is For 35W/50W/75W

1-10V Dimmable driver is For 100W and 135W

The dimming wires are inside the fixture.

If need to have access to the dimming wire please contact Customer Service.

Projected Lifetime

L70 - 154,000 Hours

Working Temperature

35W/50W/75W/100W: -40-131°F (-40-55°C)

135W: -40-104°F (-40-40°C)

Certifications

- cETLus conforms to UL Std. 1598 Cert. to CSA Std. C22.2 No.250.0
- DLC5.1 premium listed
- IP66 rated (NOT include junction box)
- IK10 rated for polycarbonate lens
- RoHS compliant

## Ordering Information

### Example: MLB75501-MS-L7B

Name	Watts	CCT	Voltage	Control	Distribution	Lens	Finish
MLB	35 - 35W	30 - 3000K	1 - 120-277V	Blank - None	Blank - Type V	Blank - Glass Clear Lens <sup>3</sup>	Standard Blank - Dark Bronze
	50 - 50W	40 - 4000K	6 - 120-347V <sup>1</sup>	MS - L7B-Wattstopper Sensor with Black L7 Lens <sup>2</sup>		GFL- Glass Frosted Lens	
		50 - 5000K				PCL-Polycarbonate Clear Lens <sup>5</sup>	* Custom colors will ask for additional charge.
	75 - 75W		1 - 120-277V	MOD - Enlighted Sensor <sup>4</sup>		PDL-Polycarbonate Diffused Lens <sup>5</sup>	
	100 - 100W		6 - 347/480V <sup>1</sup>	EBU - Emergency Battery Back-up <sup>6</sup>			
135 - 135W							

#### Notes:

1. No controls for 120-347V and 347/480V.
2. Wattstopper sensor is not available for 120-347V and 347/480V. Black L7 lens is standard.
3. Glass clear lens is standard. GFL, PCL and PDL will take long time - Please Ask Customer Service for Details.
4. Minimum working temperature for enlightened sensor is -31°F (-35°C). Enlighted sensor will take long time. "Gateway program" need to be purchased separately- Please Ask Customer Service in advance for Details.
5. Polycarbonate lens is IK10 rated.
6. Emergency battery backup is available for 35W, 50W and 75W. For ambient temperatures of 32°F-95°F(0°C-35°C). The emergency test button is pre-installed on fixture. The EBU is Title 20 compliant.

\* Standard Finish is Dark Bronze. Custom finish colors will ask for additional charge. Please contact Customer Service for details.

## Accessories (Ordered separately & field installed)



**90198**

MPT-HSS

House side shield  
for Moon series



**90481**

MLB-WG

Wire guard for Moon series



**90194**

MLB-HM<sup>1</sup>

Hook for moon series



3pin waterproof connector<sup>2</sup>



**90097**

6 feet white 120V  
Plug and Cord



**90098**

6 feet white 277V  
Plug and Cord



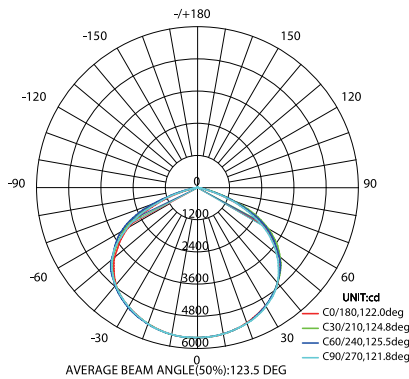
6 feet black three-wire  
cable, 600V

#### Notes:

1. If without hook accessory, it is suitable for pendant mount and surface mount.
2. It is for IP66 application.

## PHOTOMETRY

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.



Type V

## PERFORMANCE DATA

### LUMEN OUTPUT

Lumen values are measured by third party certified laboratories performed in accordance with IESNA LM-79-08 as well as Lighting Facts listed.

#### With Clear Glass Lens

Watts	Lumen Output	AC Input 120V	CRI	Dist. Type	CCT	LPW
34W	5360lm	0.29A	80	Type V	5000K	158
50W	7950lm	0.42A	80	Type V	5000K	159
73W	11450lm	0.61A	70	Type V	5000K	157
100W	16600lm	0.83A	70	Type V	5000K	166
135W	22270lm	1.13A	70	Type V	5000K	165

**Note: Multiplier for clear glass lens is 1; multiplier for frosted glass lens is 0.89; multiplier for polycarbonate diffused lens is 0.83 .**

#### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the MT LED in a 77°F ambient, (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

	75W				100W			
<b>Operating Hours</b>	10,000H	18,000H	35,000H	144,000H	10,000H	19,000H	37,000H	154,000H
<b>Lumen Maintenance Factor</b>	0.98(L98)	0.96(L96)	0.92(L92)	0.70(L70)	0.98(L98)	0.96(L96)	0.92(L92)	0.70(L70)

## BUG Rating

Performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory

Model	Description	BUG Rating
MLB35301	35W/3000k/Type V	B2-U1-G1
MLB50301	50W/3000k/Type V	B3-U1-G1
MLB75301	75W/3000k/Type V	B3-U1-G1
MLB100301	100W/3000k/Type V	B3-U1-G1
MLB135301	135W/3000k/Type V	B3-U3-G1

## INSTALLATION



**Hook Mount**



**Pendant Mount**



**Surface Mount**

## SENSOR OPTION



**Enlighted Sensor**

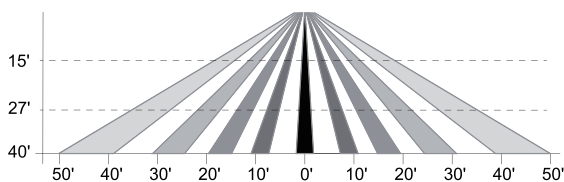


**Wattstopper Motion Sensor**

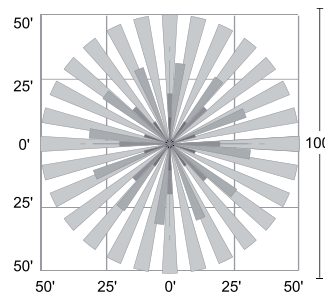
## MULTI-LEVEL MOTION SENSOR (MS-L7B)

The fixture with occupancy sensor raises or lowers the electric lighting level to high, low or off based on motion and/or daylight contribution. Typically, once the sensor stops detecting movement and the time delay elapses, lights will first fade to low mode, and eventually switch off. When motion is detected, the sensor ramps the light level to high mode unless the daylight contribution is sufficient. The integral photocell can also switch the lights on and off for dusk to dawn control, so that lighting remains on overnight even without motion detection.

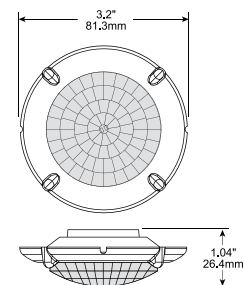
The L7 lens provides maximum coverage of 100 feet diameter mounted at 40 feet height. Please see below drawing for lens side and top coverage and dimensionn.



**Side coverage pattern**



**Top coverage pattern**



**L7 Lens**

# ENLIGHTENED SENSOR (SU-5E-LR)

## OVERVIEW

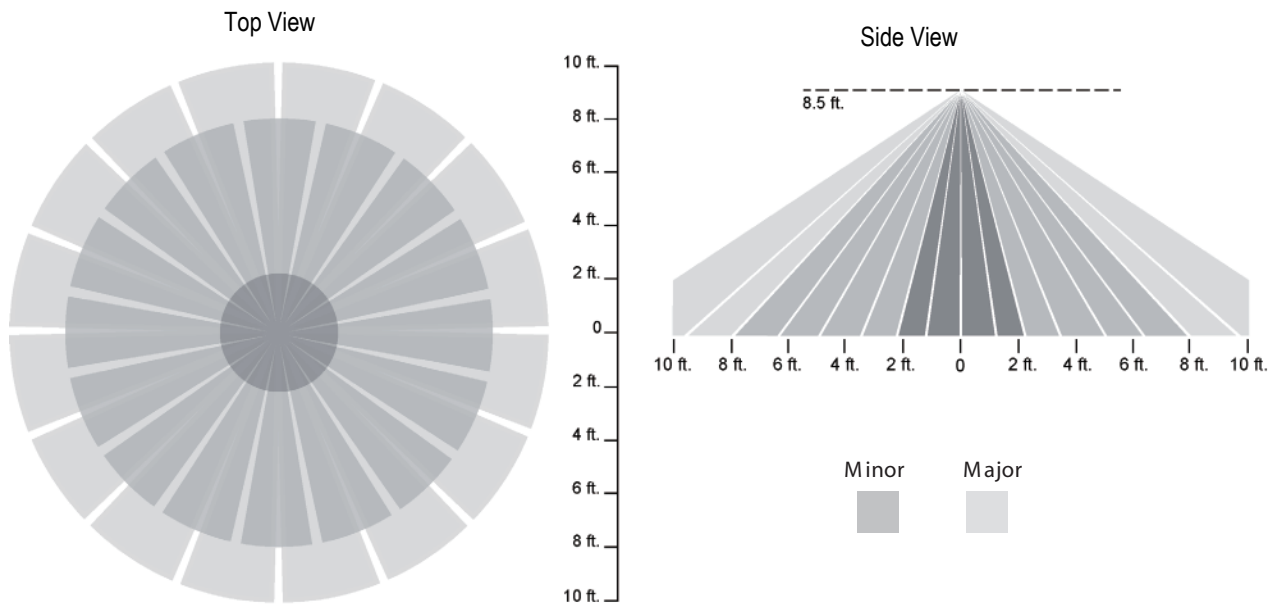
The Enlighted Low Bay Ruggedized Micro Sensor is a complete sensing and lighting control node powered from its attached light fixture. With integrated wireless communications for data transmission and remote configuration as well as autonomous fixture-level control, this sensor brings advanced lighting automation to a whole new level.

**Notice:** “Gateway program” need to be purchased separately.

## SENSOR COVERAGE PATTERNS

The Enlighted Low Bay Ruggedized Micro Sensor incorporates an optical Fresnel lens that works with the digital Passive Infrared (PIR) sensor to detect occupancy and motion. The multifaceted lens focuses light onto the PIR to produce an all-encompassing field of view through aggregation of many narrow fields of view. When the sensor is deployed as recommended, the area covered by each sensor overlaps, reinforcing coverage and accuracy across the entire floor plan.

Ceiling Height	Minor Motion (Radius)	Major Motion (Radius)
8.5 ft/2.6 m	8 ft/2.4 m	10 ft/3.0 m
15 ft/4.6 m	10 ft/3.0 m	18 ft/5.5 m



## Warranty

Five year limited warranty.

## Note:

Specifications subject to change without notice.