

# LED MOON SERIES LOW BAY/GARAGE/CANOPY



## PRODUCT DESCRIPTION

The moon series has the high-performance solution for the most demanding applications within a unique design. With different precision refractive optical lens and an easy-install design. Versatile mounting options for post top, low bay, parking garage and gas station canopy. It can be used in many applications such as pedestrian street, factory, schools, garden, courtyard, hotel, parking lot, public parks etc.

## FEATURE

- Tempered Clear and frosted glass lens
- Various mounting options
- Various sensors available
- Performance up to 136LPW
- House side shield and wire guard available

## ELECTRICAL SYSTEM

- Input Voltage: 120-277VAC/347V/480V
- 50/60Hz
- Operating temperature range: -40-104°F (-40-40°C)
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10KA surge suppression protection standard

## SPECIFICATION

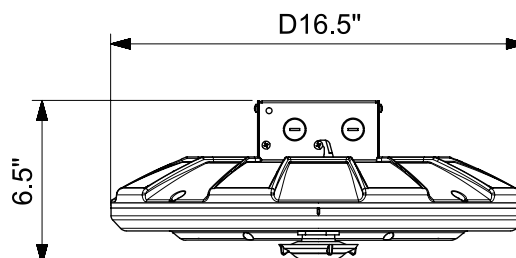
Dimension(D-H):

Diameter: 16.5"

Height: 6.5"

Max. Weight: 15.9 lbs

The Cable Wire Length: 11.8"



## PERFORMANCE

CRI

70+

CCT

3000K、4000K、5000K

Dimming

0-10V Dimming For 35W, 50W and 75W; 1-10V Dimming For 100W and 135W

Projected Lifetime

L70 - 109,000 Hours

Working Temperature

-40-104°F (-40-40°C)

Certifications

- cETLus conforms to UL Std. 1598 Cert. to CSA Std. C22.2 No.250.0
- IP65 rated (NOT include junction box)
- DLC Premium qualified except 100W in 3000K and 135W.
- RoHS compliant

## Ordering Information

### Example: MLB75501-MS-L7B

Name	Watts	CCT	Voltage	Control	Distribution	Lens	Finish
<b>MLB</b>	35 - 35W	30 - 3000K	1 - 120-277V	<b>Blank</b> - None	<b>Blank</b> - Type V	<b>Blank</b> - Glass Clear Lens <sup>3</sup>	Standard
	50 - 50W	40 - 4000K	6 - 120-347V <sup>1</sup>	<b>MS - L7B</b> -Wattstopper Sensor with Black L7 Lens <sup>2</sup>	II - Type II	<b>GFL</b> - Glass Frosted Lens	<b>Blank</b> - Dark Bronze
		50 - 5000K				<b>PCL</b> -Polycarbonate Clear Lens <sup>5</sup>	Optional*
	75 - 75W		1 - 120-277V	<b>MOD</b> - Enlighted Sensor <sup>4</sup>	III - Type III	<b>PDL</b> -Polycarbonate Diffused Lens <sup>5</sup>	<b>AL</b> - Aluminum Silver
	100 - 100W		6 - 347/480V <sup>1</sup>				<b>BK</b> - Black
	135 - 135W						<b>WH</b> - White (See Notes)

#### Notes:

- 347/480 is available for 75W/100W/135W. If for 35W and 50W, it is 120-347V. No controls for 120-347V and 347/480V.
- Wattstopper sensor is not available for 120-347V and 347/480V. Black L7 lens is standard.
- Glass clear lens is standard. GFL, PCL and PDL will take long time - Please Ask Customer Service for Details.
- Enlighted sensor will take long time. "Gateway program" need to be purchased separately- Please Ask Customer Service in advance for Details.
- Polycarbonate lens is IK10 rated.

\* Standard Finish is Dark Bronze. Allow 4-6 weeks for optional finish. Additional charge will apply.

## 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 low bay, garage and canopy



**90097**

6 feet white 120V Plug and Cord



**90098**

6 feet white 277V Plug and Cord



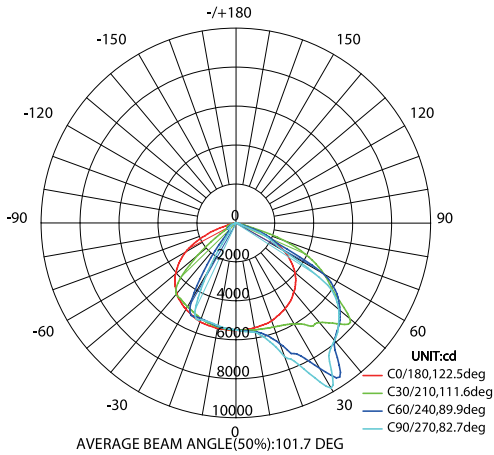
6 feet black three-wire cable, 600V

#### Notes:

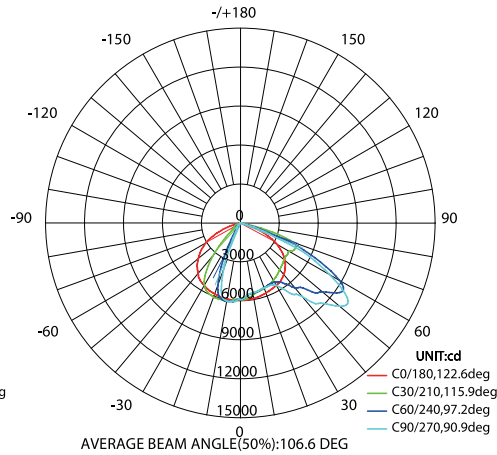
- If without hook accessory, it is suitable for pendant mount and surface mount.

## PHOTOMETRY

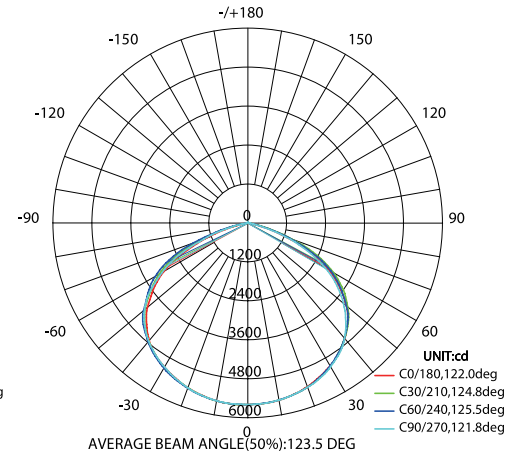
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.



Type II



Type III



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
35W	4770lm	0.29A	>70	Type V	5000K	136
50W	6700lm	0.42A	>70	Type V	5000K	134
75W	10200lm	0.63A	>70	Type V	5000K	136
100W	13500lm	0.83A	>70	Type V	5000K	135
135W	17500lm	1.13A	>70	Type V	5000K	130

#### With Frosted Glass Lens

Watts	Lumen Output	AC Input 120V	CRI	Dist. Type	CCT	LPW
35W	4235lm	0.29A	>70	Type V	5000K	121
50W	5950lm	0.42A	>70	Type V	5000K	119
75W	9075lm	0.63A	>70	Type V	5000K	121
100W	12000lm	0.83A	>70	Type V	5000K	120
135W	15660lm	1.13A	>70	Type V	5000K	116

Note: Multiplier for clear glass lens is 1; multiplier for frosted glass lens is 0.89; multiplier for polycarbonate diffused lens is 0.74 .

#### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperature from -40-104°F (-40-40°C)

Ambient		Multiplier
Celsius	Fahrenheit	
0	32	1.02
10	50	1.01
20	68	1.00
25	77	1.00
30	86	1.00
40	104	0.99

### 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 (5630)					100W (351B)			
Operating Hours	11,000H	16,000H	27,000H	97,000H	Operating Hours	10,000H	16,000H	29,000H	109,000H
Lumen Maintenance Factor	0.98(L98)	0.96(L96)	0.92(L92)	0.70(L70)	Lumen Maintenance Factor	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
MLB35401	35W/4000k/Type V	B2-U2-G1
MLB35501	35W/5000k/Type V	B2-U1-G1
MLB50301	50W/3000k/Type V	B2-U1-G1
MLB50401	50W/4000k/Type V	B2-U2-G1
MLB50501	50W/5000k/Type V	B2-U2-G1
MLB75301	75W/3000k/Type V	B3-U1-G1
MLB75401	75W/4000k/Type V	B3-U3-G1
MLB75501	75W/5000k/Type V	B3-U3-G1
MLB100301	100W/3000k/Type V	B3-U1-G1
MLB100401	100W/4000k/Type V	B3-U2-G1
MLB100501	100W/5000k/Type V	B3-U2-G1
MLB135501	135W/5000k/Type V	B3-U3-G1
MLB135501-II	135W/5000k/Type II	B3-U3-G1
MLB135501-III	135W/5000k/Type III	B3-U3-G2

## INSTALLATION



**Hook Mount**



**Pendant Mount**



**Surface Mount**

## SENSOR OPTION



**Enlighted Sensor**

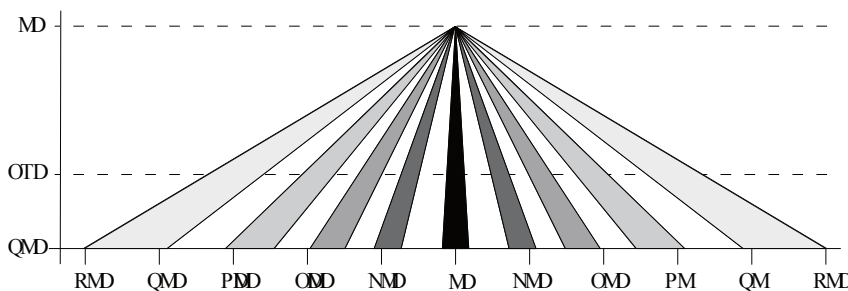


**Wattstopper Motion Sensor**

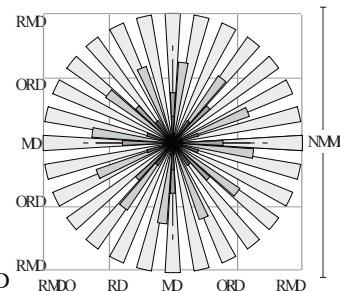
## MULTI-LEVEL MOTION SENSOR (MS-L7B)

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.

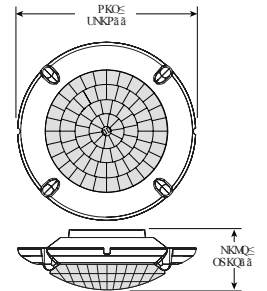
The L7 lens provides maximum coverage of 100 feet diameter mounted at 40 feet height. Please see below drawing for lens side and top coverage and dimensionn.



Side coverage pattern



Top coverage pattern



Lens

## ENLIGHTED SENSOR (MOD)

### OVERVIEW

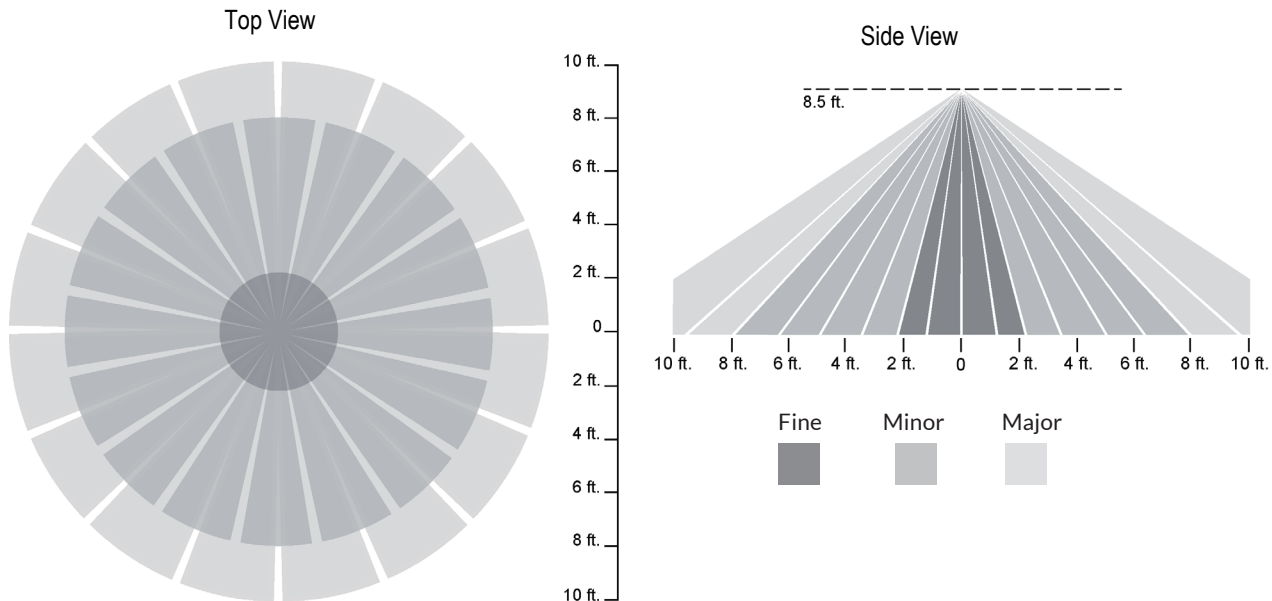
The enlightened sensor SU-SE-CL is a complete sensing and lighting control node powered from its attached light fixture. Integrated sensors capture data that is both processed locally and transmitted over the Enlighted network, enabling a full suite of applications. In addition, the sensor supports Bluetooth® Low Energy communication with tags and other BLE devices. An innovative carrier-based mounting design supports easy installation and replacement. 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 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 Micro Sensor is deployed as recommended, the area covered by each sensor overlaps, reinforcing coverage and accuracy across the entire floor plan.

Ceiling Height	Fine Motion (Radius)	Minor Motion (Radius)	Major Motion (Radius)
8.5 ft/2.6 m	2.3 ft/0.7 m	8 ft/2.4 m	10 ft/3.0 m
15 ft/4.6 m	4.0 ft/1.2 m	10 ft/3.0 m	18 ft/5.5 m



## Warranty

Five year limited warranty. Full warranty terms located at [www.abovealllighting.com/warrantystatements](http://www.abovealllighting.com/warrantystatements)

## Note:

Specifications subject to change without notice.