



FEATURES

- **High Efficacy & Easy Installation:** Delivers up to 145 LPW with quick and easy installation.
- **Optimized Optical Assembly:** Combines a special reflector design with a tempered glass lens, along with integral 10KV surge suppression protection, to ensure superior light distribution, durability, and long-lasting performance.



**DARKSKY
APPROVED**
Reduces Light pollution
Certified by DarkSky.org



The MT Flood Light is a versatile outdoor luminaire. Its universal body can be configured with Trunnion mounting options to serve as an Area or Flood light. It offers customizable control from basic switching to multi-level motion sensing, with 1-10V dimming as a standard feature.

TECHNICAL DATA

Wattage	91W, 139W, 173W
CRI	
Standard	70
Optional	80
CCT	3000K, 4000K, 5000K
Input Voltage	120 - 277V, 50/60Hz
	347V/480V, 50/60Hz
	347V, 480V, 50/60Hz
Operating Temp.	-40°F to 104°F(-40°C to 40°C)
Driver	
Standard	1 - 10V dimming ¹
Certifications	cETLus
	RoHS compliant
	DarkSky approved (only 3000K
	CCT and 0-degree tilt fixed
	trunnion)
	Suitable for wet locations
Power Factor	>0.9 at full load
Harmonic Distortion	<20% at full load
Projected Lifetime	L70 - 154,000 Hours
IP Rating	IP66

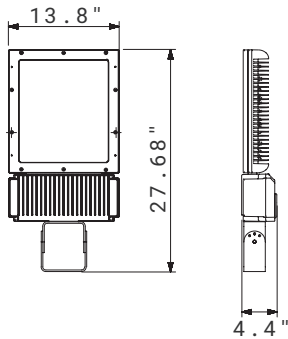
NOTE:

1. Dimming wires are pre-installed inside the fixture. If dimming wires need to be accessed, please contact Customer Service.

SPECIFICATION

Max. Weight: 29 lbs

Trunnion



ACCESSORIES (ORDERED SEPARATELY AND FIELD INSTALLED)



90055

MT-Trunnion.



90175

MT-SS

Side shield for MT100,
MT150, MT200.



90176

MT-RS

Rear shield for MT100,
MT150, MT200.

NOTE:

1. Side shield can be assembled on the right or left side of fixture.

ORDERING INFORMATION

EXAMPLE: MT150501-PC-VW

MT							
Series	Wattage	CCT	Voltage	Control	Installation	Distribution	Finish
MT	100 91W 150 139W 200 173W	30 3000K 40 4000K 50 5000K	1 120-277V 2 347V ¹ 3 480V ² 6 347/480V ³	BLANK 1-10V dimming MS-L7B Wattstopper Sensor with Black L7 Lens ⁴ PC Photoelectric Control 7P 7 Pin PE Receptacle ⁵ SRP Bluetooth sensor receptacle ⁶	TR Trunnion	III Type III IV Type IV VW Type V Wide VM Type V Middle	Standard ⁷ BLANK Dark Bronze <i>Custom colours are available for additional charge</i>

NOTE:

- 347V is only used with photoelectric control.
- 480V is only used with photoelectric control.
- If choose 347/480V, please do not choose photoelectric control.
- The standard MS L7 lens is suitable for the mounting height of 6m (20ft) and higher Lead time for motion sensor is long please check with Customer Service in advance.
- Sensor is by others. Shorting cap included.
- The Bluetooth PIR sensor need to be ordered separately and field installed. It is suitable for a max mounting height of 40ft.
- Standard Finish is Dark Bronze. Custom colours are available for additional charge.

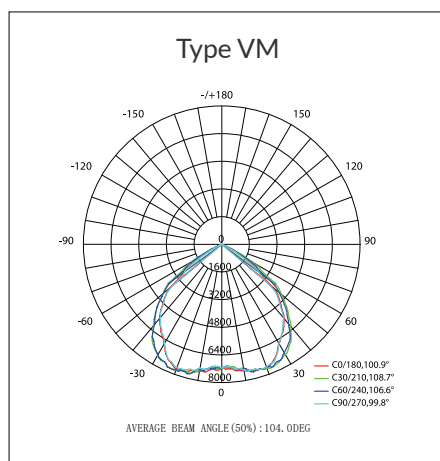
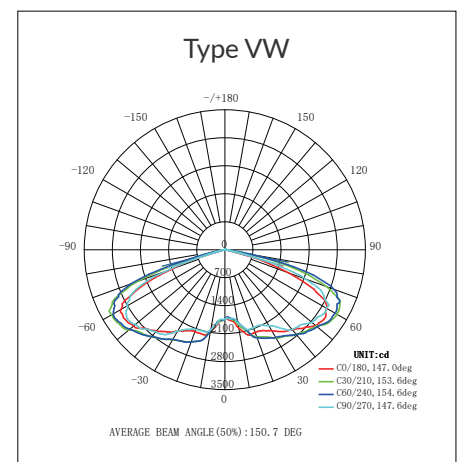
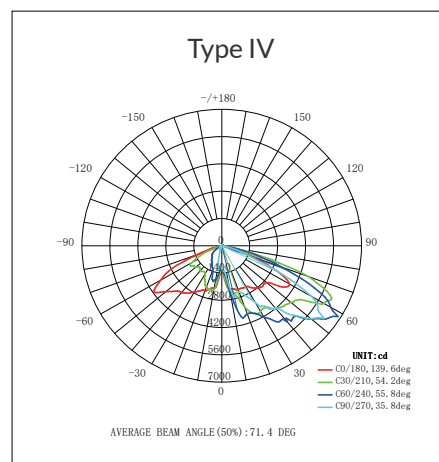
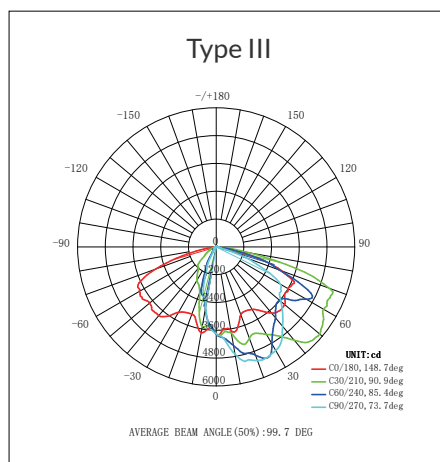
PERFORMANCE DATA

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

Measured Wattage	Lumen Output	CCT	AC Input 120V	CRI	Dist. Type	LPW
91W	13200lm	4000K	0.76A	70	Type III	145
139W	18900lm	4000K	1.16A	70	Type III	136
173W	21800lm	4000K	1.44A	70	Type III	126

PHOTOMETRY

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%. Results may vary per actual order.



Projected LED Lumen Maintenance

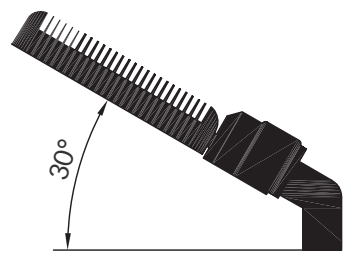
Data references the extrapolated performance projections for the LED Security Light in a 77°F ambient (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

Operating Hours	0	10,000	19,000	37,000	154,000
Lumen Maintenance Factor	0.1	0.98(L98)	0.96(L96)	0.92(L92)	0.70(L70)

Lumen Ambient Temperature (LAT) Multipliers

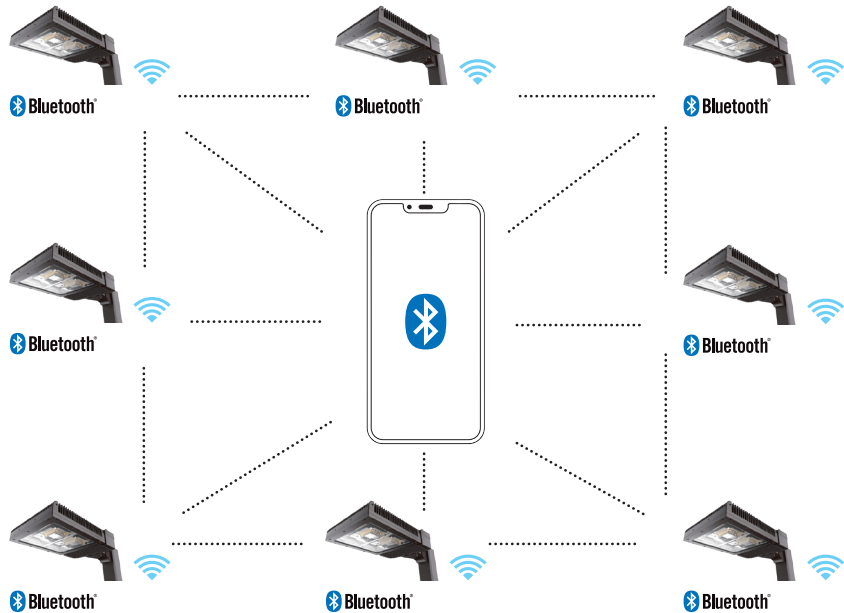
Use these factors to determine relative lumen output for average ambient temperature from -40°F to 104°F (-40°C to 40°C).

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

MT Line		MT100/MT150/MT200	Effective Projected Area EPA (Sq. FT.)
	Trunnion		0.91
	Trunnion in 30 Degree		1.38

BLUETOOTH PIR MOTION SENSOR

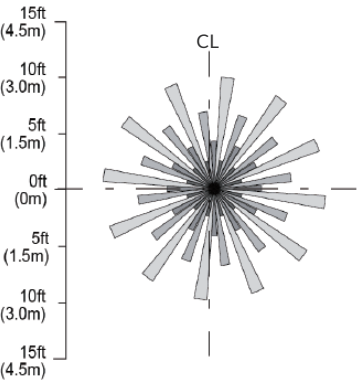
Bluetooth Mesh Control



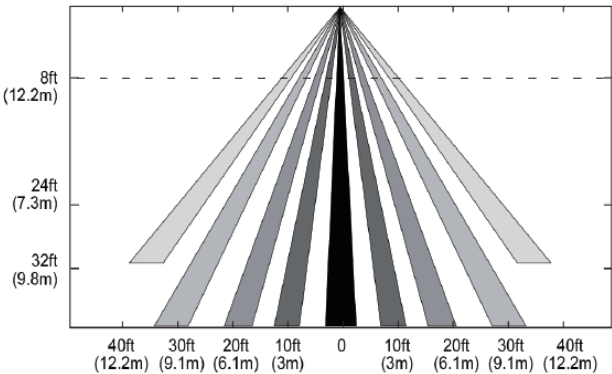
Model No.	Description	Input Voltage	Output
BMS-M100-PIR-DC1-BLE-SR-Z10-BZ	Fixture Controller with 0-10V Dimming, PIR Motion Sensor, Bluetooth Mesh in BlueMesh®, standard Dark Brown Color.	12-24VDC	Control High 0-10V Dimming
BMS-M110-PIR-DC1-BLE-SR-Z10-BZ	Fixture Controller with 0-10V Dimming, PIR Motion Sensor, Light Sensing, Bluetooth Mesh in BlueMesh®, standard Dark Brown Color.	12-24VDC	Control High 0-10V Dimming
BMS-M100-PIR-DC1-BLE-SR-Z10-WH	Fixture Controller with 0-10V Dimming, PIR Motion Sensor, Bluetooth Mesh in BlueMesh®, White Color, Silvar technology partner.	12-24VDC	Control High 0-10V Dimming
BMS-M110-PIR-DC1-BLE-SR-Z10-WH	Fixture Controller with 0-10V Dimming, PIR Motion Sensor, Light Sensing, Bluetooth Mesh in BlueMesh®, White Color.	12-24VDC	Control High 0-10V Dimming
BMS-M100-PIR-DC1-BLE-SR-Z10-BK	Fixture Controller with 0-10V Dimming, PIR Motion Sensor, Bluetooth Mesh in BlueMesh®, Black Color.	12-24VDC	Control High 0-10V Dimming
BMS-M110-PIR-DC1-BLE-SR-Z10-BK	Fixture Controller with 0-10V Dimming, Light Sensing, Bluetooth Mesh in BlueMesh®, Black Color.	12-24VDC	Control High 0-10V Dimming
LS01-LB-F3-XX	360° Low Bay Lens, maximum coverage 60ft diameter at 30ft and 40ft height –replace –XX with –BN for Brown finish, BK for Black finish or –WT for Brown finish.		
LS01-HB-F3-XX	360° High Bay Lens, maximum coverage 80ft diameter at 30ft-40ft height – replace –XX with –BN for Brown finish, -BK for Black finish or –WT for Brown finish.		

Detection Area

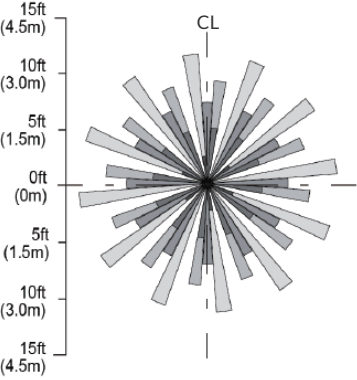
High Bay Lens - Top View at 8 ft(2.4m)



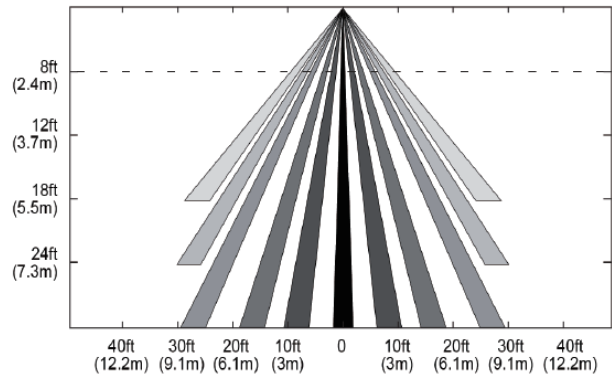
Side View



Low Bay Lens -Top View at 8 ft(2.4m)



Side View



BUG RATING TABLE

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

Model	BUG Rating
MT100501-III	B3-U0-G2
MT150501-III	B3-U0-G2
MT200501-III	B3-U0-G2
MT100501-VW	B3-U0-G2
MT150501-VW	B4-U0-G2
MT200501-VW	B4-U0-G2

WARRANTY

5 years limited warranty.
Specifications subject to change without notice.