



# MONSOON

## LINEAR VAPOR TIGHT

PRODUCT  
OVERVIEW



SCAN OR  
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## FEATURES

- Built for aggressive wash-down, Monsoon carries an IP69 rating and withstands high-pressure, high-temperature cleaning up to 176°F for demanding sanitation cycles.
- A smooth, circular housing helps prevent debris and residue buildup, supporting faster, more thorough cleaning in food-zone environments with NSF certification (coming soon).
- Stainless steel end caps and NEMA 4X construction deliver durability for corrosive, wet, and harsh industrial conditions.
- Flexible performance packages support 2,000 to 20,000 lumens with efficacy up to 140 lm/W, plus multiple CCT and CRI options to match the space.

## DIGITAL NAVIGATION

Explore the spec sheet through the links below

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[LINE DRAWINGS](#)

[PHOTOMETRIC DATA](#)



## SUITABLE APPLICATIONS

- Coolers & Freezers
- Food Processing
- Poultry/Farm
- Car Wash
- Marine/Boat Wash
- Commercial Kitchen
- Dairy/Beverage Processing
- Pharmaceutical
- Industrial
- Chemical Cleaning

## CERTIFICATIONS



Coming Soon



## SPECIFICATIONS

### CONSTRUCTION

Injection molded polycarbonate housing with stainless steel end caps for durability in wash-down environments. Smooth circular profile supports faster cleaning by reducing debris and residue buildup.

### ELECTRICAL

Class 2 LED light engine for high efficacy and long life. Calculated L70 > 100,000hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25C ambient. Power Factor > 0.90. Standard 120-277V VAC 0-10V dimmable (10% - 100%) with optional 347V - 480V VAC HV driver. Optional 10W Self Diagnostic CEC title 20 compliant emergency battery backup available to meet critical life safety lighting requirements. Fixture max ambient reduced for emergency battery backup; Consult factory. Standard 0 to 10V dimming with optional dim-to-off for energy savings and integration with controls.

### INSTALLATION

Multiple mounting options: wire form bracket, latch mount, or rigid mount. Stainless steel mounting hardware included with fixture. One 0.827" conduit entry point allows for surface-conduit wiring.

### OPTICS

Sealed lens and optical chamber engineered for wet and wash-down conditions. Multiple lumen packages support broad application coverage while preserving uniform illumination. Optical system designed to maintain performance after repeated cleaning cycles. Polycarbonate Clear (PCL), Polycarbonate Frosted (PFL), IK10 rated Lens option only Polycarbonate Clear (PCL). 80 CRI Standard with optional 90 CRI.

### THERMAL

Engineered for harsh environments and frequent wash-down cycles, including high-temperature water jets up to 80°C (176°F). Thermal design supports stable output and reliability in demanding operating conditions.

2' -20°C - +45°C

4' -4L-7L -20°C - +45°C, 8L-10L -40°C - +45°C

8' -40°C - +45°C

### CONTROLS

0 to 10V dimming standard for simple control integration and energy management. Supports common control strategies used in industrial and food processing spaces. Dim-to-off supports deeper energy savings when paired with control systems. Factory installed IP65 PIR end mounted occupancy sensor option available, see page 3 for more details.

### CERTIFICATIONS

NSF certified (coming soon) for food-zone environments. UL 1598 listed for wet locations. Ingress protection ratings include IP65, IP66, IP67, and IP69. NEMA 4X rated for corrosive and wash-down conditions. Made in USA with BAA and BABA compliance. Consult factory for compliant options and accessories. IK10 Rated only Polycarbonate Clear (PCL) Lens option.

### WARRANTY

5 Year Warranty Standard; 10 Year Warranty Optional ([Terms and Conditions apply](#)).



## ORDERING GUIDE

PART #

Example: MSN4-10L-U-50-PCL-DTO-EM10-WMB-C10/3W

SERIES	LUMENS	INPUT VOLTAGE	CRI/CCT	LENS	SPECIFIED MAX LUMEN
MSN2 2ft Monsoon	2L 5L	U 120-277V HV 347-480V	30 35 40 50 930 <sup>5</sup> 935 <sup>5</sup> 940 <sup>5</sup> 950 <sup>5</sup>	PCL Polycarbonate Clear Lens PFL Polycarbonate Frosted Lens	BLANK None SMLxxxx <sup>5</sup> Specified Lumen Output (xxxx=desired lumen output)
MSN4 4ft Monsoon	4L 5L 8L 10L				
MSN8 8ft Monsoon	10L 12L 16L 20L				

ALTERNATE DRIVER	EMERGENCY	CONTROLS	MOUNTING
BLANK 0-10V 10% DTO Dim To Off Driver	BLANK None EM10 <sup>2</sup> 10W Self Diagnostic CEC Title 20 Compliant Battery Backup (0°C)	BLANK None WLOSPC <sup>1,2,4,6</sup> On/Off Occupancy Sensor w/ Photocell - IP65 rated	BLANK None WMB Wire Form Bracket LMB <sup>1</sup> Latch Mount Bracket RMB Rigid Mount Bracket

WIRING	BABA	WARRANTY	ACCESSORIES
BLANK Standard fixtures: 3 wires, 6" long C6/3W 3-Wire Cord Standard Fixtures 6FT C10/3W 3-wire cord standard fixtures 10FT Cx/3W/515P <sup>7</sup> 3-Wire Cord w/ 5-15P plug (x=Length; 6,10) C6/4W 4-wire cord for EM fixtures 6FT C10/4W 4-wire cord for EM fixtures 10FT C6/5W <sup>8</sup> 5-wire cord for External Dimming fixtures 6FT C10/5W <sup>8</sup> 5-wire cord for External Dimming fixtures 10FT C6/6W <sup>8</sup> 6-wire cord for External Dimming w/ EM fixtures 6FT C10/6W <sup>8</sup> 6-wire cord for External Dimming w/ EM fixtures 10FT	BABA <sup>9</sup> Build America Buy America Act compliant	BLANK 5 Year 10YR <sup>5</sup> 10 Year	+MSN-AC6L/SS-KIT <sup>1</sup> Adjustable 6' Loop Aircraft Cable Set Stainless Steel Kit +MSN-AC10L/SS-KIT <sup>1</sup> Adjustable 10' Loop Aircraft Cable Set Stainless Steel Kit

## FOOTNOTES

<sup>1</sup> Not NSF listed

<sup>2</sup> Not available with HV

<sup>3</sup> Does not maintain IP Rating

<sup>4</sup> Only Rated to IP65

<sup>5</sup> Contact Factory for pricing and availability

<sup>6</sup> Operating temp down to 32°F

<sup>7</sup> Damp location only

<sup>8</sup> Not available with controls

<sup>9</sup> Consult factory for compliant options and accessories



SYSTEMS INFO <sup>1</sup>	3000K		3500K		4000K		5000K		Watts <sup>2</sup>	CRI
	Part Numbers	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens		
MSN2-2L-U-xxx-PFL	1925	136	1945	137	2005	141	2025	143	14	80
MSN2-5L-U-xxx-PFL	4937	135	4989	136	5143	140	5194	142	37	80
MSN4-4L-U-xxx-PFL	3851	138	3891	139	4011	143	4051	145	28	80
MSN4-5L-U-xxx-PFL	4937	135	4989	136	5143	140	5194	142	37	80
MSN4-8L-U-xxx-PFL	7675	131	7755	132	7995	136	8075	137	59	80
MSN4-10L-U-xxx-PFL	9356	127	9454	129	9746	132.6	9843	134	74	80
MSN8-10L-U-xxx-PFL	9875	135	9977	136	10286	140	10389	142	73	80
MSN8-12L-U-xxx-PFL	11666	130	11787	132	12152	136	12274	137	89	80
MSN8-16L-U-xxx-PFL	15350	131	15510	132	15990	136	16150	137	118	80
MSN8-20L-U-xxx-PFL	18712	127	18907	129	19492	132.6	19687	133.9	147	80

<sup>1</sup>LED Chips are frequently updated therefore values are nominal  
<sup>2</sup>Electrical data at 25°C (77°F) 120V. Actual wattage may differ by +/-10%

## CONTROLS OPTIONS

### BASIC

#### WLOSPC

#### IP65 rated User Selectable Bi-Leveling Dimming End Mounted Sensor

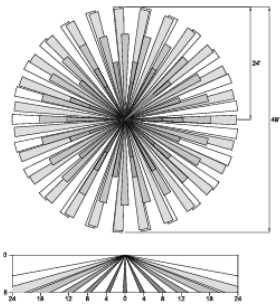
Motion sensor with the addition of photocell control. Wet location rated PIR occupancy sensor. Once motion is detected, the fixture will return to 100% light output. Sensor mounted off end of fixture.



#### Default Factory Settings

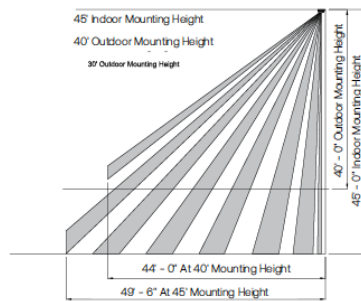
Occupancy Sensor Timeout	8 Minutes
Occupied State	ON
Unoccupied State	OFF
Daylight Sensor	Disabled

L2



Sensor Lens Coverage and Detection Patterns When Mounted at 8 ft with Low Mount Lens

L7

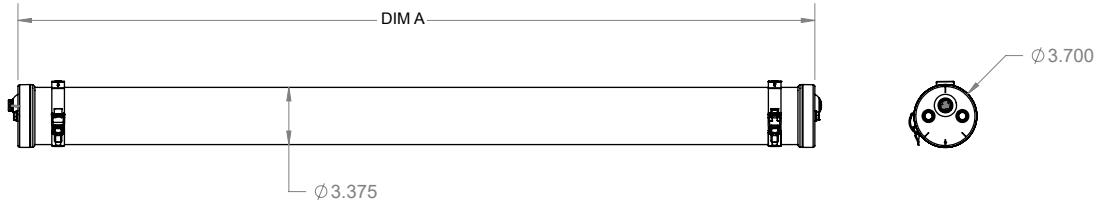


Sensor Lens Coverage and Detection Patterns When Mounted at 40 ft and 45 ft with High Mount Lens



## LINE DRAWINGS

### MSN2

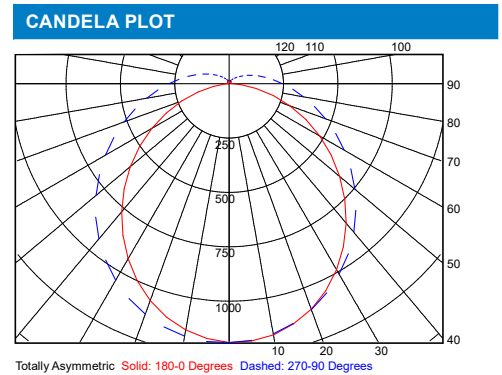


PRODUCT SIZE	DIMENSION A
MSN2	24 inches
MSN4	47 inches
MSN8	93 inches

## PHOTOMETRIC DATA

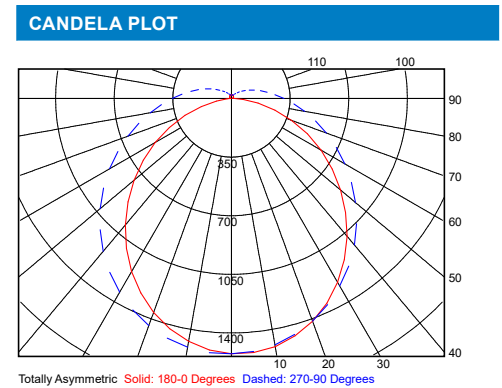
LUMINAIRE DATA	
Part Number	MSN4-4L-U-40-PFL
Description	Monsoon Linear Vapor Tight, 4ft, 4000 Lumens, 4000K CCT, Polycarbonate Frosted Lens
Fixture Lumens (lm)	4014
Wattage (W)	28.04
Efficacy (lm/W)	143.0
Spacing Criteria	0° = 1.24, 90° = 1.28

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1499	37%
0° - 60°	2661	66%
0° - 90°	3673	92%
90° - 180°	341	9%
0° - 180°	4014	100%



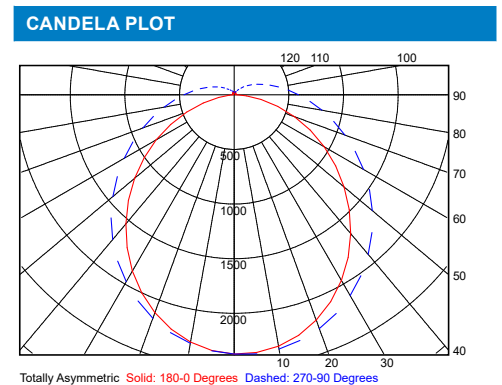
LUMINAIRE DATA	
Part Number	MSN4-5L-U-40-PFL
Description	Monsoon Linear Vapor Tight, 4ft, 5000 Lumens, 4000K CCT, Polycarbonate Frosted Lens
Fixture Lumens (lm)	5148
Wattage (W)	36.73
Efficacy (lm/W)	140
Spacing Criteria	0° = 1.24, 90° = 1.28

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1920	37%
0° - 60°	3408	66%
0° - 90°	4704	91%
90° - 180°	444	9%
0° - 180°	5148	100%



LUMINAIRE DATA	
Part Number	MSN4-8L-U-40-PFL
Description	Monsoon Linear Vapor Tight, 4ft, 8000 Lumens, 4000K CCT, Polycarbonate Frosted Lens
Fixture Lumens (lm)	8002
Wattage (W)	58.76
Efficacy (lm/W)	136.0
Spacing Criteria	0° = 1.24, 90° = 1.34

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	2988	37%
0° - 60°	5303	66%
0° - 90°	7323	92%
90° - 180°	679	9%
0° - 180°	8002	100%





## PHOTOMETRIC DATA (Continued)

LUMINAIRE DATA	
Part Number	MSN4-10L-U-40-PFL
Description	Monsoon Linear Vapor Tight, 4ft, 10000 Lumens, 4000K CCT, Polycarbonate Frosted Lens
Fixture Lumens (lm)	9754
Wattage (W)	73.71
Efficacy (lm/W)	132
Spacing Criteria	0° = 1.24, 90° = 1.34

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	3644	37%
0° - 60°	6468	66%
0° - 90°	8931	92%
90° - 180°	823	8%
0° - 180°	9754	100%

