

Project Name

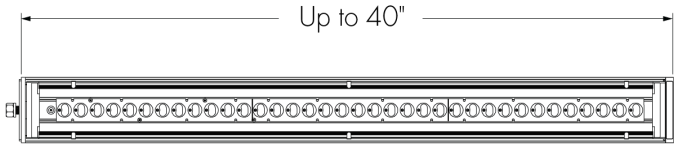
Qty

Type

Catalog / Part Number



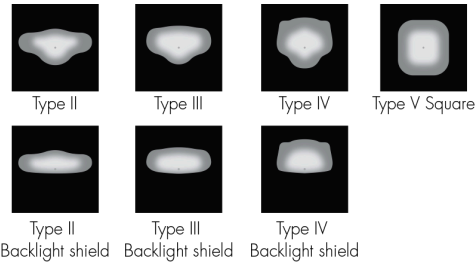
Side and front views



Bottom view

L120 or L140 (3 boards) shown

Distributions



Description

The Lumenpulse Lumenblade Small is an outdoor LED luminaire that uses a rectilinear version of the Lumencentro light engine to create a continuous line of light. Its seen-but-not-seen, minimalist design is sustainable, blends with both contemporary and heritage architectures, provides a high level of security, and is sensitive to the natural environment. The Lumenblade Small is available in several lengths, a number of distributions, output options, and DarkSky approval provide a stellar quality of light that brings the night to life.

Colors and Color Temperatures



Control

ON/OFF 0-10V LT

Motion Detector Options



Rating

IP66 (optical chamber)
IK06 (glass lens)
IK10 (housing)

Lumencycle™ Program



Features

Mounting	Side Mounting
Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, 5700K
Distributions	Type II, Type III or Type IV (with or without backlight shield), Type 5 square
1.5G Vibration Rated	Meets 1.5G ANSI C136.31 - 2010 vibration standard for Roadway applications 3G ANSI C136.31-2010 Vibration Rating for bridge applications available for certain configurations, refer to product configurator and website for details
Options	3G ANSI C136.31-2010 Vibration Rating for Bridge Applications, Corrosion-Resistant Coating for Hostile Environments, Surge Protector, 3-Pin Receptacle With or Without Shorting Cap, 5-Pin Receptacle With or Without Shorting Cap, 7-Pin Receptacle With or Without Shorting Cap, Motion Detector
Pole Mounting Adapter	Straight Pole and Muffler Pole Adapter (Round and Square Pole): 4 in, 5 in and 6 in Lumentech Pole Adapter (Square and Round Pole): 5 in (Round Pole Only) and 6 in
Warranty	5-year limited warranty

Certifications



Performance

Output (Nominal Lumens)	Minimum 4000lm (1 board) / Maximum 14000lm (3 boards)
Efficacy	Up to 95 lm/W (Type 5 square, 4000K, M80 lumen output)
Color Rendering	3 SDCM for CRI 70+, 2 SDCM for CRI 80+ and CRI 90+
Lumen Maintenance	TM-21 L70 > 145,000 hrs (reported, Ta 25 - 50 °C [77 - 122 °F])
DarkSky	DarkSky Approved (2200K, 2700K and 3000K color temperatures, BUG rating of U0)

Physical

Housing Material	Extruded aluminium 6000 alloy series
Lens Material	Optical Tempered Clear Glass (Clearsite Lens)
Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Weight	1 board: 10 lbs 2 boards: 12.5 lbs 3 boards: 15 lbs Refer to Fixture Weights Table in complete specification sheet for fixture weights with motion detector installed and double configurations

Electrical and Control

Voltage	120 Volts, 208 Volts, 240 Volts, 277 Volts, 347 Volts, 480 Volts
Control	On/Off Control, 0-10V Dimming, Lumentalk

Environmental

Storage Temperature	-40°C to 50°C [-40°F to 122°F] (device must reach start-up temperature value before operating)
Operating Temperature	-40 °C to 50 °C [-40°F to 122°F]
Start-up Temperature	-25°C [-13 °F] to 50°C [122 °F]
Ingress Protection Rating	IP66 (optical chamber) Wet location rated
Impact Resistance Rating	IK06 (glass lens) IK10 (housing)
Environment	Dry/damp/wet location

Important

Virtual Patent Marking Notice

This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Lumencycle™ Program

Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures, and responsibly manage them at end of life. For full program details, visit <https://www.lumenpulse.com/lumencycle>.

EPA And Fixture Weight Tables

*Fixture weights are estimated.

Standard Fixture

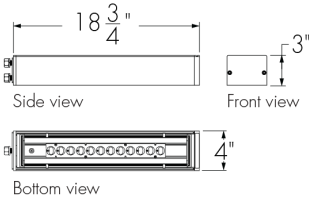
		S40/S60 (1 board)	M80/M100 (2 boards)	L120/L140 (3 boards)
EPA (sq ft.)	S1E	0.59	0.88	1.25
	S2E	1.18	1.76	2.5
Weight* (lbs)	S1E	10	12.5	15
	S2E	20	25	30

Fixture With Motion Detector Option

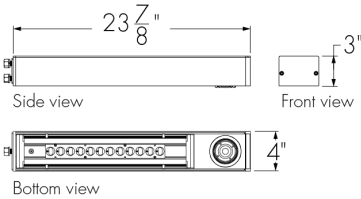
		S40/S60 (1 board)	M80/M100 (2 boards)	L120/L140 (3 boards)
EPA (sq ft.)	S1E	0.79	1.07	1.45
	S2E	1.58	2.14	2.9
Weight* (lbs)	S1E	12	14.5	17
	S2E	24	29	34

Dimensions

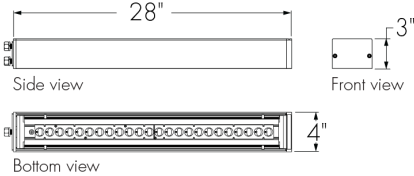
S40 and S60 (1 Board)



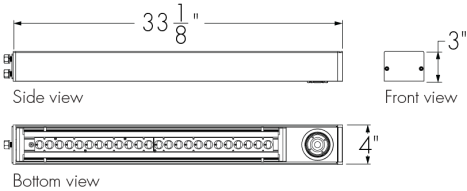
S40 and S60 (1 Board) - Motion Detector Option



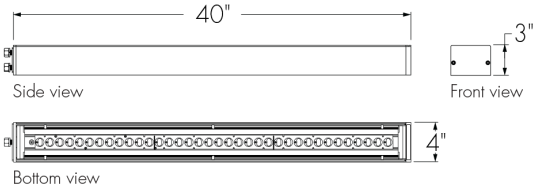
M80 and M100 (2 Boards)



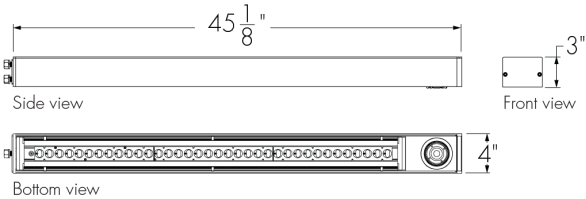
M80 and M100 (2 Boards) - Motion Detector Option



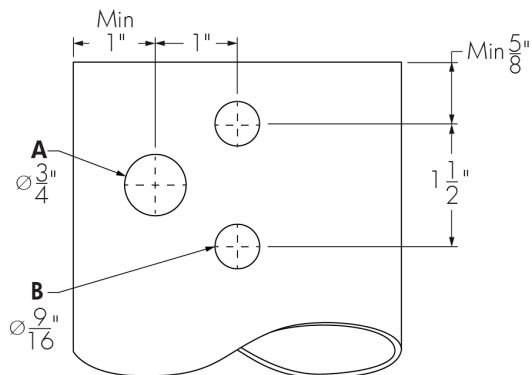
L120 And L140 (3 Boards)



L120 And L140 (3 Boards) - Motion Detector Option



BLDS-S1E, BLDS-S2E, BLDS-S1E-3GV and BLDS-S2E-3GV Drilling Pattern



B - (2X) for Ø1/2-13 bolts (included with luminaire)

		Straight and muffler poles			Lumentech pole					
		4in	5in	6in	5in	6in				
Round shape	RPA4S		RPA5S		RPA6S		RPA5TS		RPA6TS	
	SPA4		SPA5		SPA6		n/a	SPA6T		
Square ^[1]	SPA4		SPA5		SPA6		n/a	SPA6T		

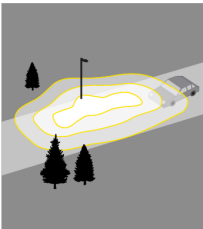
S1E  Simple

S2E  Double

*Consult factory for other configurations.

Photometric Information

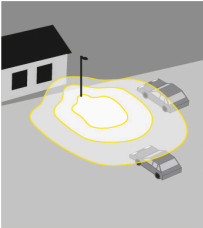
Type II, 4000K, CRI 70+

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
	S40	2,821	78	1 0 1	36
	S60	4,122	75	1 0 1	55
	M80	6,401	82	1 0 1	78
	M100	8,570	75	2 0 2	115
	L120	9,547	80	2 0 2	120
	L140	10,849 *	78	2* 0* 2*	140

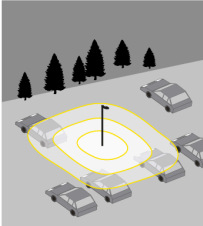
Type III, 4000K, CRI 70+

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
	S40	3,196	89	1 0 1	36
	S60	4,670	85	1 0 1	55
	M80	7,252	93	2 0 2	78
	M100	9,710	84	2 0 2	115
	L120	10,816	90	2 0 2	120
	L140	12,291 *	88	2* 0* 2*	140

Type IV, 4000K, CRI 70+

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
	S40	2,663	74	1 0 1	36
	S60	3,892	71	1 0 1	55
	M80	6,042	77	2 0 2	78
	M100	8,091	70	2 0 2	115
	L120	9,012	75	2 0 2	120
	L140	10,241 *	73	2* 0* 2*	140

Type V Square, 4000K, CRI 70+

	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G	Typical maximum power 120/277V (W)
	S40	3,282	91	2 0 1	36
	S60	4,797	87	3 0 1	55
	M80	7,448	95	3 0 1	78
	M100	9,972	87	3 0 2	115
	L120	11,109	93	4 0 2	120
	L140	12,623 *	90	4* 0* 2*	140

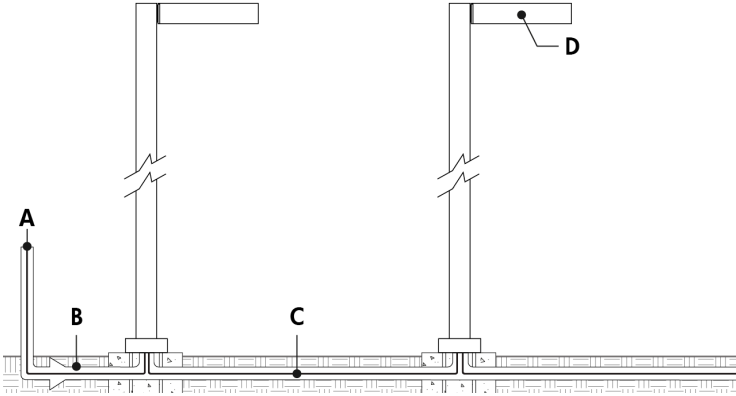
*Photometric performance is measured in compliance with IESNA LM-79-24. Due to rapid and continuous advance in LED technology, photometric information is subject to change without notice.

Typical Wiring Diagrams

Wiring Color Code

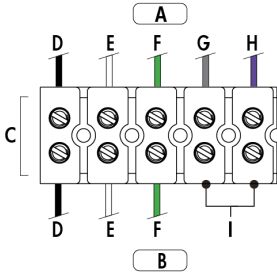
Color	Black	White	Green	Purple	Gray
Use	Line	Line/Neutral	Ground	0-10V+	0-10V -

On/Off Control (NO)



- A - Power input (120-480V, wiring by others)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Lumenblade

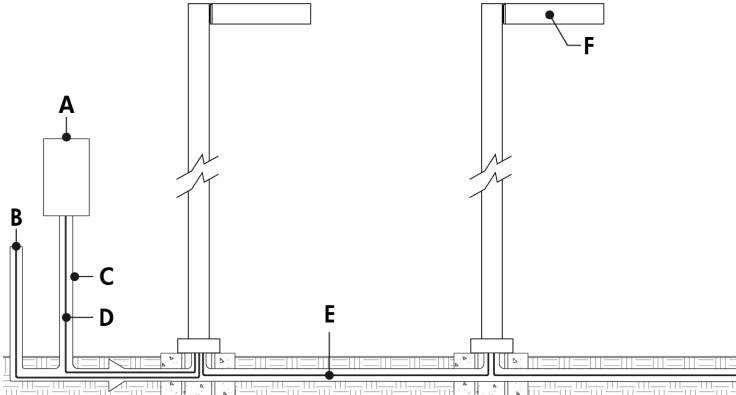
On/Off Control (NO) - Terminal Connector Wiring Detail



- A - To driver
- B - Power input or from previous fixture
- C - Terminal connector
- D - Line
- E - Line/Neutral
- F - Ground
- G - 0-10V -
- H - 0-10V +
- I - Not required

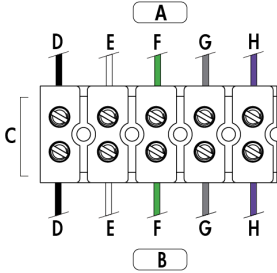
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



- A - Dimmer (by others)
- B - Power input (120-480V, wiring by others)
- C - Conduit (by others)
- D - Data wiring (by others)
- E - Power and data wiring (by others)
- F - Lumenblade

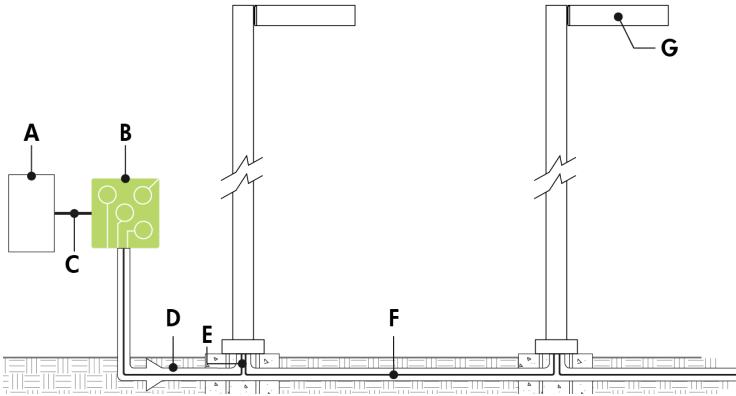
0-10V Dimming (DIM) - Terminal Connector Wiring Detail



- A - To driver
- B - Power input or from previous fixture
- C - Terminal connector
- D - Line
- E - Line/Neutral
- F - Ground
- G - 0-10V -
- H - 0-10V +

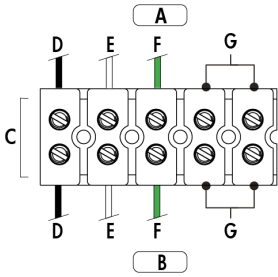
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.

Lumentalk (LT)



- A - Third party dimmer/controller
- B - Lumentranslator (LTL-010)
- C - Data wiring (by others)
- D - Power line (120-277V, wiring by others)
- E - Conduit (by others)
- F - Power wiring (by others)
- G - Lumenblade

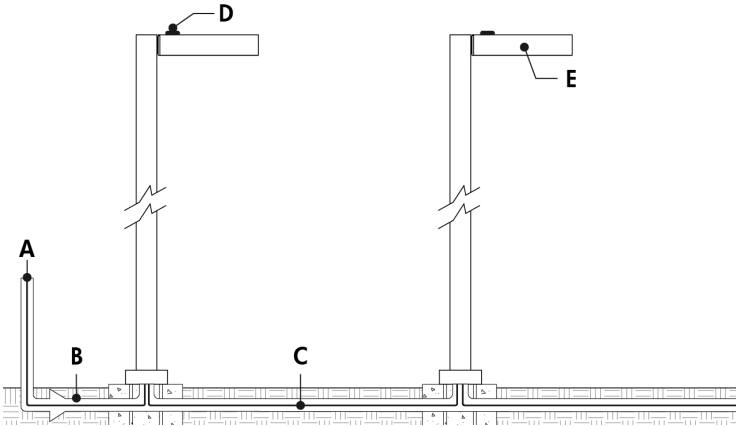
Lumentalk (LT) - Terminal Connector Wiring Detail



- A - To driver
- B - Power input or from previous fixture
- C - Terminal connector
- D - Line
- E - Line/Neutral
- F - Ground
- G - Not required

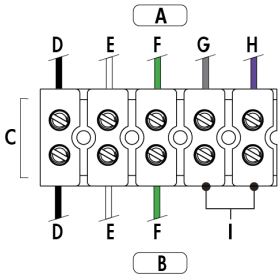
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.

3-Pin, 5-Pin and 7-Pin Receptacle Control (SPR3, SPR3 SC, SPR5, SPR5 SC, SPR7, SPR7 SC)



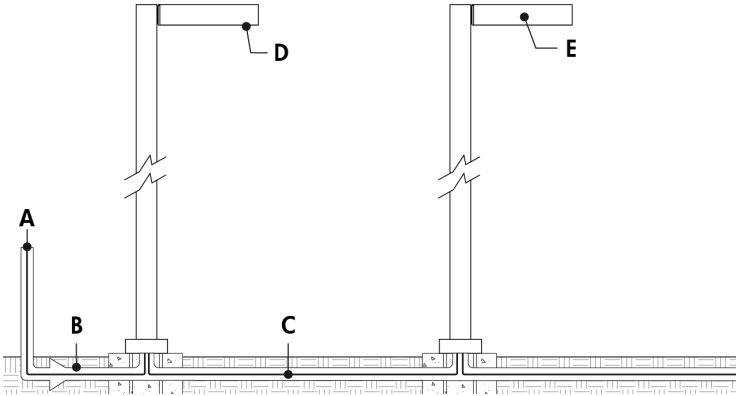
- A - Power input (120-480V, wiring by others)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Photoelectric control
- E - Lumenblade

3 Pins, 5 Pins And 7Pins Receptacle Control (SPR3, SPR3 SC, SPR5, SPR5 SC, SPR7, SPR7 SC) - Terminal Connector Wiring Detail



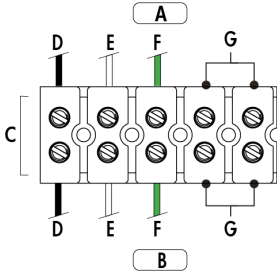
- A - To driver
- B - Power input or from previous fixture
- C - Terminal connector
- D - Line
- E - Line/Neutral
- F - Ground
- G - 0-10V -
- H - 0-10V +
- I - SPR3: Not required. SPR5/SPR7: From photocell receptacle

Motion Detector Control (MDxx)



- A - Power input (120-480V, wiring by others)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Motion detector
- E - Lumenblade

Motion Detector (MDxx) - Terminal Connector Wiring Detail



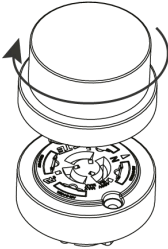
- A - To driver
- B - Power input or from previous fixture
- C - Terminal connector
- D - Line
- E - Line/Neutral
- F - Ground
- G - Not required

Options

SPR3, SPR5 And SPR7 - 3-Pin, 5-Pin And 7-Pin Receptacles



SPR3 SC, SPR5 SC And SPR7 SC - 3-Pin, 5-Pin And 7-Pin Receptacles With Shorting Cap



- Dimming receptacle meets ANSI C136.41 Standard.

Motion Detector Options

Programming								
	MD10N - Narrow lens, 10% dimming level		MD30N - Narrow lens, 30% dimming level		MD50N - Narrow lens, 50% dimming level		MDPN - Narrow lens, programmable	
	100% (10V)	10% (1V)	100% (10V)	30% (3V)	100% (10V)	50% (5V)		How to provide code:
High mode ¹	10V		10V		10V		• 5V - 10V (Increment: 0.2V)	10V
Low mode ²	1V		3V		5V		• Off • 0V - 9.8V (Increment: 0.2V)	2.6V
Time delay ³	5 min		5 min		5 min		• 1 min - 30min (Increment: 30 seconds)	10 min
Cut off ⁴	1 hr		1 hr		1 hr		• Disable • 1 min - 59min (Increment: 30 seconds) • 1 hr - 5hr (Increment: 1 hour)	3 hr
Set point ⁵	Dis		Dis		Dis		• Disable • Auto • 1fc - 250fc (Increment: 1fc)	Auto
Sensitivity ⁶	Max		Max		Max		• On-Fix • Off-Fix • Low • Med • Max	Med
Ramp up ⁷ time	3 sec		3 sec		3 sec		• Disable • 1 sec - 60sec (Increment: 1 second)	10 sec
Fade down ⁸ time	3 sec		3 sec		3 sec		• Disable • 1 sec - 60sec (Increment: 1 second)	10 sec
Photocell ⁹ On/Off	Dis		Dis		Dis		• Disable • 1fc - 250fc (Increment: 1fc)	Dis

¹ When the sensor detects motion, the dimming control output ramps up to the selected HIGH light level.

² After the sensor stops detecting motion and the time delay expires, the dimming control output fades down to the selected LOW light level.

³ The selected time period that must elapse after the last time the sensor detects motion for the electric lights to fade to LOW mode.

⁴ The time period that must elapse after the lights fade to LOW mode, and the sensor detects no motion for the electric lights to turn OFF.

⁵ When enabled, the selectable ambient light level threshold that will hold the electric lights off or at LOW level when the sensor detects motion.

⁶ The response of the PIR detector to motion within the sensor's coverage area.

⁷ Time period for light level to increase from LOW to HIGH.

⁸ Time period for light level to decrease from HIGH to LOW.

⁹ When enabled, the sensor will force the load OFF after the light level has exceeded the selected photocell setpoint PRIOR SAVE SEND for at least a minute. It will also force the load ON when the light level goes below the setpoint, even if no motion is detected.

¹⁰ The motion detector programming can be modified on site. A remote is required, order separately. See Remote section in the specification sheet for details.

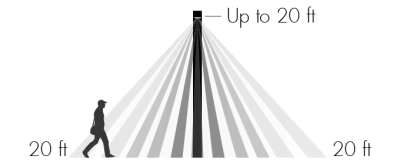
Dimming: When motion is detected within the sensor's coverage area, the sensor sends a signal to ramp the load up to the selectable High Mode level unless the ambient light level is higher than the selected setpoint. When no motion is detected for the duration of the time delay setting, the lights will go to the selectable Low Mode level based on the signal from the sensor. If desired, a cut off time delay will trigger to eventually turn the lights OFF.

Non dimming: When motion is detected within the sensor's coverage area, the sensor sends a signal to turn the load ON unless the ambient light level is higher than the selected setpoint. When no motion is detected for the duration of the time delay setting, the lights will go OFF based on the signal from the sensor.

Dusk to dawn control: When photocell on/off is enabled, and the ambient light falls below the photocell setpoint, the sensor ramps the load up to the selectable High Mode level. If no motion is detected for the duration of the time delay setting, the lights will go to the selectable Low Mode level. If the cut off time delay is disabled, the load will remain on, at High or Low level, based on motion detection, until the ambient light increases above the photocell setpoint.

Coverage Area

Narrow Lens (MD10N, MD30N, MD50N and MDPN)*

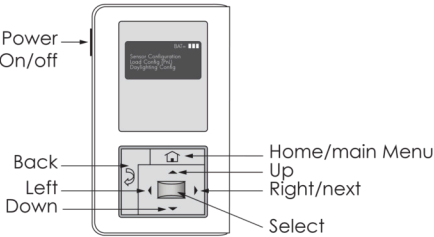


* Maximum 20 ft height, 40 ft diameter coverage area

High temperatures at the covered area (above 88 °F - 91 °F) reduce the detection zone of the sensor. Consider adding more sensors if the ambient temperatures are expected to be high. Additionally, high floor level temperature may require larger movement for detection. Coverages shown in the diagrams are maximum, measured in linear feet. They represent coverage for walking motion, with no obstacles.

Remote (Order Separately)

MDRC001 - Remote to Program Motion Detector on Site



- Compatible with all motion detector options.

How to Order

Housing	Mounting	Voltage	Lens ⁽³⁾	Output (Nominal Lumens)	Color and Color Temperature	Color Rendering	Distributions	Finish	Control	Option	Pole Mounting Adapter ⁽²⁵⁾
BLDS Lumenblade Small ⁽¹⁾	SD Side Mounting	120 120 Volts	CSL Clearsite Lens	S40 4000lm (1 board, 18 3/4 in) ⁽²⁾ ⁽⁴⁾ ⁽⁵⁾	22K 2200K ⁽⁶⁾	CRI 70 CRI 70+ ⁽¹⁰⁾	2 Type II	BK Black Sandtex®	DIM 0-10V Dimming ⁽¹⁴⁾	3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications ⁽¹⁷⁾	RPA4S Round Pole Adapter for Ø4 in Pole
		208 208 Volts		27K 2700K ⁽⁷⁾	CRI 80 CRI 80+ ⁽¹¹⁾	2BLS Type II Backlight Shield	BRZ Bronze Sandtex®	LT Lumentalk ⁽¹⁷⁾	CRC Corrosion-Resistant Coating ⁽¹⁸⁾ ⁽¹⁹⁾	RPA5S Round Pole Adapter for Ø5 in Pole	
		240 240 Volts		S60 6000lm (1 board, 18 3/4 in) ⁽²⁾ ⁽⁴⁾	30K 3000K	CRI 90 CRI 90+ ⁽¹²⁾	3 Type III	SI Silver Sandtex®	SP Surge Protector ⁽²⁰⁾	RPA6S Round Pole Adapter for Ø6 in Pole	
		277 277 Volts		M80 8000lm (2 boards, 28 in) ⁽⁴⁾	40K 4000K ⁽⁸⁾	3BLS Type III Backlight Shield	BKTX Textured Black	SPR3 3-Pin Receptacle ⁽²¹⁾	SPA4 Square Pole Adapter for Ø4 in Pole		
		347 347 Volts ⁽²⁾		M100 10000lm (2 boards, 28 in) ⁽⁴⁾	57K 5700K ⁽⁸⁾ ⁽⁹⁾	4 Type IV	BRZTX Textured Bronze Non- Metallic	SPR3 SC 3-Pin Receptacle with Shorting Cap ⁽²¹⁾	SPA5 Square Pole Adapter for Ø5 in Pole		
		480 480 Volts ⁽²⁾		L120 12000lm (3 boards, 40 in) ⁽⁴⁾		4BLS Type IV Backlight Shield	GRATX Textured Medium Gray	SPR5 5-Pin Receptacle ⁽²¹⁾	SPA6 Square Pole Adapter for Ø6 in Pole		
				L140 14000lm (3 boards, 40 in) ⁽⁴⁾		5S Type V Square	GRNTX Textured Green	SPR5 SC 5-Pin Receptacle with Shorting Cap ⁽²¹⁾	RPA5TS Round Pole Adapter for Lumentech Ø5 in Pole		
							WHTX Textured White	SPR7 7-Pin Receptacle ⁽²¹⁾	RPA6TS Round Pole Adapter for Lumentech Ø6 in Pole		
							CC Custom Color & Finish ⁽¹³⁾ ⁽¹⁴⁾ ⁽¹⁵⁾	SPR7 SC 7-Pin Receptacle with Shorting Cap ⁽²¹⁾	SPA6T Square Pole Adapter for Lumentech Ø6 in Pole		

Notes:

1. Product code is for a single fixture only (S1E configuration). For double configuration (S2E), a second product code must be completed.

2. Not available with LT control option.

3. Consult factory for SoftSite Lens option. Available for 3000lm (1 board), 5000lm (2 boards) and 7000lm (3 boards) outputs.

4. Motion detector options add 5 1/8 in to total length of fixture.

5. Available up to 277V.

6. Available for CRI 80 only.

7. Available for CRI 80 and CRI 90 only.

8. Not DarkSky Approved.

9. Available for CRI 70 and CRI 80 only.

10. Binning within a 3-step MacAdam ellipse, with the exception of 5700K.

11. Binning within a 2-step MacAdam ellipse, with the exception of 2200K and 5700K.

12. Binning within a 2-step MacAdam ellipse.

13. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
14. Setup charges apply for RAL colors. Consult factory for details.

15. Longer lead times can be expected for custom RAL color finishes.

16. DIM control can be used as NO (On/Off control) if no data is required.

17. Not available with SPR3, SPR3 SC, SPR5, SPR5 SC, SPR7 and SPR7 SC 3-Pin, 5-Pin, and 7-Pin receptacles options and MD10N, MD30N, MD50N and MDPN motion detector options.

18. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

19. Setup charges apply. Consult factory for details.

20. Not available with 347V and 480V voltage options when combined with lumen output S40.

21. Only one receptacle can be specified per fixture, cannot be combined with motion detector option.

22. The motion detector programming can be modified on site. A remote is required, order separately. See Remote section in the specification sheet for details.

23. Only one motion detector can be specified per fixture, cannot be combined with a receptacle.

24. The motion detector is programmed in the factory, as per the settings requested at the time of the order.

25. Consult Pole Mounting Adaptor section for standard available configurations.