



# MARKCOVE

LINEAR COVE  
DYNAMIC COLOR  
WET LOCATION

## HIGHLIGHTS

- Small, versatile and impactful
- Extruded aluminum construction
- RGBW - Red, Green, Blue, White produces saturated color and pastels
- Wide 120 x 120 distribution
- Powerful Range 600 or 750 lumens per foot
- Efficient with up to 90 lumens per watt
- DMX with Remote Device Management
- Full compliment of mounting and shielding accessories
- Manufactured in USA
- IP66 rated per IEC60598
- 3G vibration rated per ANSI C136.31

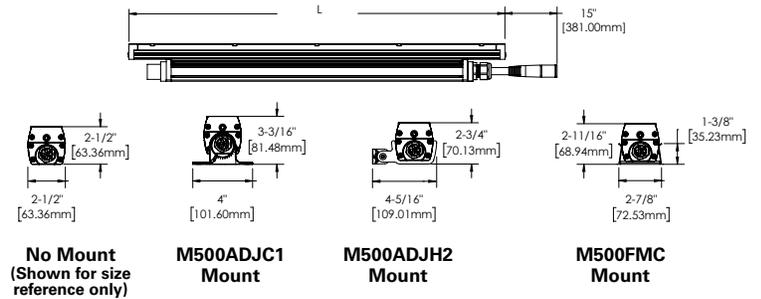
## LUMEN PACKAGES

	2FT	3FT	4FT
Delivered Lumens	1130	1761	2395
Watts	16.04	22.72	29.91
LPW	70	78	80

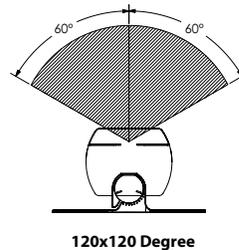
Information based on 120x120DEG, 650 LMF

## DIMENSIONS

Reference Drawing Detail section for additional information



## STANDARD DISTRIBUTION



ARCHITAINMENT  
COLOR



66  
IP RATED



Buy American

**ORDERING**

Example: MCV502 LLP 40FT MSL4 M500FMC ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX MFCLW10LR WL

<b>Series</b> MCV502 MARKCOVE502		<b>Linear Plan</b> LLP Linear Longest Possible LSL Linear Same Length LCB Linear Center Balance		<b>Total Run Length</b> _FT Specify continuous linear feet in 1' increments, with a minimum of 2'. (Example: 24FT)		<b>Max Section Length</b> MSL2 2' MSL3 3' MSL4 4'		<b>Mounting</b> M500ADJCI Adjustable Mount Center Axis M500ADJH2 Adjustable Mount Side Hinge M500FMC Fixed Mount		<b>Mounting Option</b> (blank) No Cantilever option MCBT12 Cantilever Bracket 12" Projection MCBT18 Cantilever Bracket 18" Projection MCBT6 Cantilever Bracket 6" Projection MCBTL2 Cantilever Bracket Large 12" projection MCBTL18 Cantilever Bracket Large 18" projection MCBTL6 Cantilever Bracket Large 6" projection Must have M500ADJH2 Mounting selected.	
<b>Dynamic Feature</b> ARTC Architainment Color		<b>Dynamic Range</b> RGBW Dynamic Color Red Green Blue White		<b>Direct LED Light Output</b> 650LMF 650 Nominal Lumens per Foot 750LMF 750 Nominal Lumens per Foot		<b>Distribution</b> 120X120DEG 120 x 120 degrees		<b>Minimum Dimming Level</b> DARK Constant Current, Dimming to <1%		<b>Optional Shielding</b> (blank) No Shielding MBFC Baffle Linear Cove (Matte black finish) MGVC Glare Visor linear Cove (Finish to match housing)	
<b>Voltage</b> MVOLT 120-277 Volt		<b>Finish</b> WTP White Textured Paint SIT Silver Textured Paint BKT Black Textured Paint RALTBDB* RAL Color TBD CPF Custom Paint Finish *RALTBDB for pricing only. Replace TBD with applicable number when placing order.		<b>Control Input</b> DMX DMX		<b>Power Feed</b> NOFCL No Feed Cable (order separate) MFCLW10LR 10FT Feed Cable, Right Feed, Exterior Location MFCLW25LR 25FT Feed Cable, Right Feed, Exterior Location MFCLW50LR 50FT Feed Cable, Right Feed, Exterior Location MFCLW100LR 100FT Feed Cable, Right Feed, Exterior Location				<b>Option</b> WL Wet Location	

Accessories	
Controller (Fresco Control System)	See page 6
Controller (Easy!™ Solo / Touch / Pro)	See page 6
DMX-Power Integrator (required for installation)	See page 6
Feed Cable (required for installation)	See page 6-7
Jumper Cable	See page 7
Wire Splice Box	See page 8
Liquid-Tight Cord Grip	See page 9
Glare Visor	See page 8
Baffle	See page 8
Brackets	See page 9

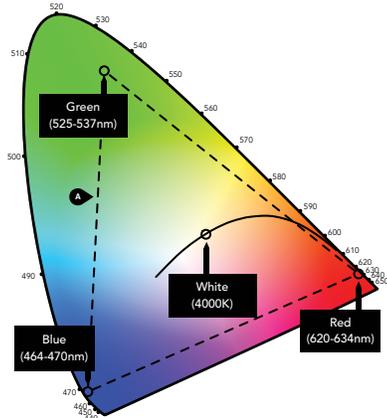
Model	Length	Weight
MCV502	25 - 1/8" (639mm)	3.5 lbs. (1.59kg)
	37" (941mm)	4.0 lbs (1.81kg)
	48 - 7/8" (1242mm)	5.0lbs. (2.27kg)

**PERFORMANCE DATA**

Lumens Per Foot	Fixture Length	Distribution	Delivered Lumens	Input Watts	Lumen/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
650	2FT	120x120	1130	16.04	70	565	8.02
	3FT	120x120	1761	22.72	78	587	7.57
	4FT	120x120	2395	29.91	80	599	7.48
750	2FT	120x120	1348	19.19	70	674	9.60
	3FT	120x120	2100	27.18	77	700	9.06
	4FT	120x120	2857	35.78	80	714	8.95

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

**RGBW GAMUT AND RANGE**



- The Gamut of a luminaire determines the potential color range, specifically the dominant wavelength of each primary color.
- The Path determines the range of colors the user can select for the luminaire.

**ARCHITAINMENT COLOR GPHD**

- **Gamut** Triangular
- **Path** Full RGB gamut
- **Handle** Four Handles: Red, Green, Blue, White
- **Data** DMX512/RDM

The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.

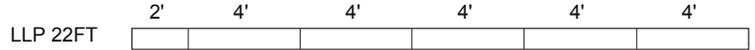
**A** RGBW Range within triangle formed by RGB

**LINEAR PLAN**

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

**LLP** Longest Length Possible:

In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 22FT row would have (5) 4FT segments and (1) 2FT segment located at one end.



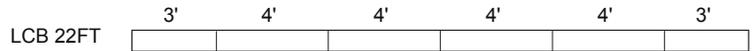
**LSL** Longest Same Length:

In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

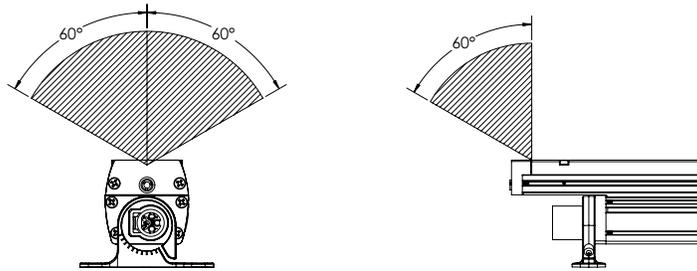


**LCB** Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 22FT row would have (2) 3FT segments (one at each end) and (4) 4FT intermediate segments located in between.



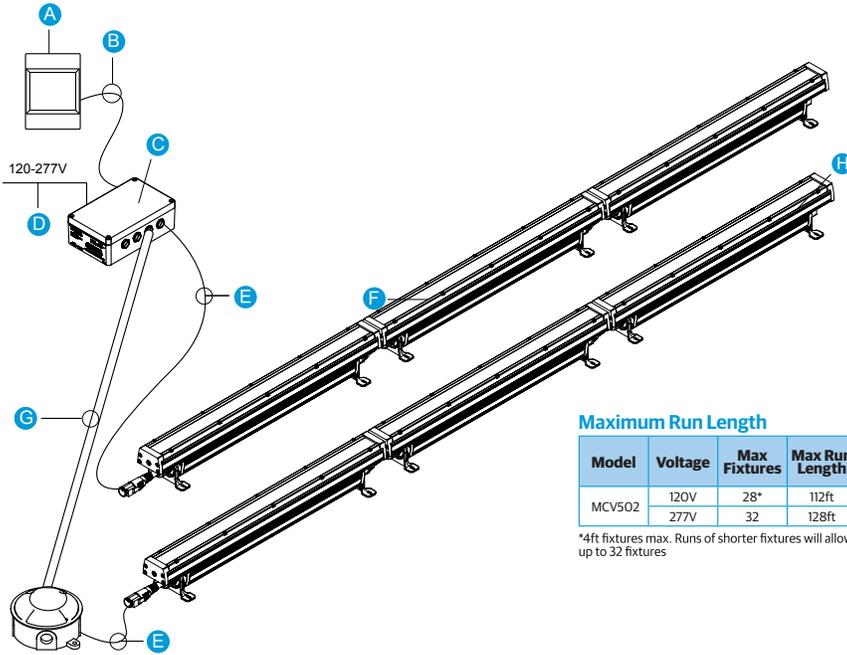
**DISTRIBUTION**



120x120 Degree

**BASIC SYSTEM WIRING INFORMATION WITH DMX**

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MCV502 luminaires controlled by a DMX controller. These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.

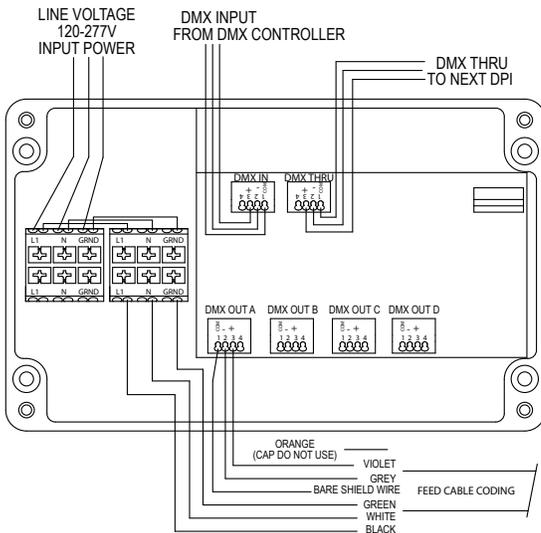


Maximum Run Length

Model	Voltage	Max Fixtures	Max Run Length
MCV502	120V	28*	112ft
	277V	32	128ft

\*4ft fixtures max. Runs of shorter fixtures will allow up to 32 fixtures

**Power & DMX Connection in DPI Box**



A dynamic luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

Note: For multiple runs and multiple DPI boxes, consult factory.

Note: No more than four DPI Boxes, in series, can be utilized between the DMX Controller and any luminaire.

- A** DMX controller providing one universe of DMX-512 control.  
To supply a complete system RDM set-up and playback control solution, use:  
**Easy!**
  - Three versions available from entry-level to show creation using computer software
  - Full color LCD touchscreen
  - Recall colors, shows, and effects with one touch**Fresco**
  - Manage multiple light sources in multiple lighting zones, all from one controller
  - On screen lighting design and set-up, no computer required or Ethernet connection for remote configuration and advanced control
  - All device settings are stored on-board in non-volatile memory
- B** Belden 9829 cable is the preferred communication/ data cable used to carry the DMX signal to and from the DPI Box. The total length of this cable must not exceed 1000 feet from the DMX controller to the DPI Box. No luminaires should be installed between DMX Controller and any DPI Box.
- C** DPI box (Data Power Integration) is used to bundle DMX to line voltage and deliver them to the luminaire. This box provides necessary isolation between the DMX control and line voltage and is required for all MCV502 installations. The DPI box also serves as a 4-channel splitter enabling up to 128 fixtures to be controlled from a single DPI box. Refer to DPI Installation Sheet for dimensions and mounting details.
- D** 120V-277V input to DPI box. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.
- E** Feed cable connects junction box with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the Junction or DPI box, output end includes a male or female plug for fixture connection. Also included with each feed cable is a termination/sealing cap for the end of each run. Contact factory for availability of custom feed cable lengths.
- F** A maximum of 32 luminaires can be connected to a single output channel of the DPI box. The maximum length of cord and luminaire run combined is 1000 feet per DMX/RDM specification.
- G** Power and Data can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.
- H** To ensure data integrity, a termination/sealing cap with 120 Ohm resistor is required at the last luminaire in each run. See installation instructions.

**Easy! Controller**



**Fresco Control System**



**ACCESSORY OPTIONS**

**Fresco Control System**

Series	Model	Options	Finish
<b>FCS</b> Fresco Control System	<b>7TSN</b> 7" touchscreen with nLight port	<b>(blank)</b> nLight only <b>X</b> DMX/RDM control	<b>DBL</b> Black <b>DWH</b> White <b>DNA</b> Natural Aluminum



Refer to [FRESKO](#) spec sheet for additional details and options

**Easy!™ LED Show Controller with LCD touchscreen (integral power supply)**

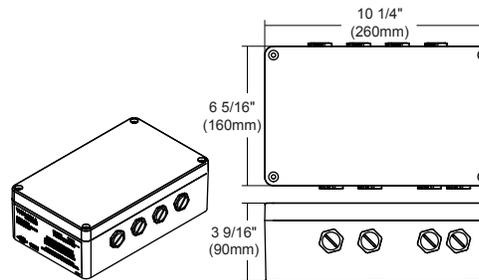
Series	Voltage	Finish
<b>EZSOLO</b> Easy! Solo	<b>MVOLT</b> 120V-277V VAC, 50/60 Hz	<b>BK</b> Black
<b>EZTOUCH</b> Easy! Touch		<b>WH</b> White
<b>EZPRO</b> Easy! Pro		



Refer to [EASYL](#) spec sheet for additional details and options

**DMX / Power Integrator**

Model
<b>MDPI4W</b> DPI4W- DMX/POWER INTEGRATOR BOX



Integrates DMX signal & 120-277 line voltage onto a single cable. Exterior rated, up to 4 output feeds, Silver Textured Finish.

**Environmental Information**

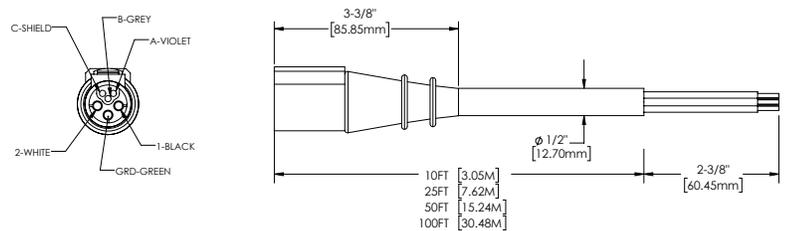
Storage Temperature	40° F - 185° F
Start-up Temperature	13° F - 122° F
Operating Temperature	13° F - 122° F
Ingress Protection Rating	IP65
Environment	Suitable for indoor and outdoor applications

**Feed Cable, Right Feed (Female Plug) EXTERIOR (Linear)**

\*Minimum of one feed cable, right, required per installation

Model
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- MFCLW10LR BCRD DXP** 10FT Feed Cable w/ Sealing Cap, Right Feed, Exterior Location (Black)
- MFCLW25LR BCRD DXP** 25FT Feed Cable w/ Sealing Cap, Right Feed, Exterior Location (Black)
- MFCLW50LR BCRD DXP** 50FT Feed Cable w/ Sealing Cap, Right Feed, Exterior Location (Black)
- MFCLW100LR BCRD DXP** 100FT Feed Cable w/ Sealing Cap, Right Feed, Exterior Location (Black)



Carries DMX signal and 120-277 line voltage power to right end of first fixture in run. Supplied with termination/sealing cap. \*Use one feed cable per run only.\*

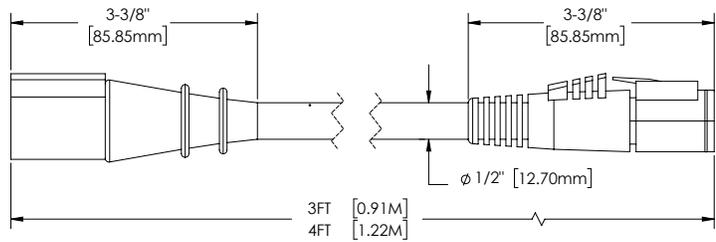
**ACCESSORY OPTIONS (CONTINUED)**

**Jumper Cable \*Optional\***

Model	
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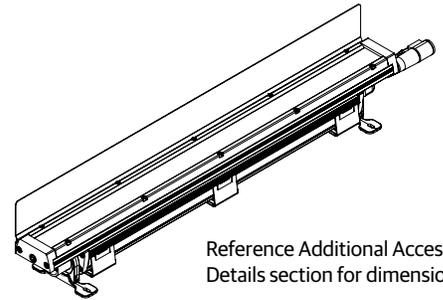
- MJCLW3L BCRD** 3FT Jumper Cable Exterior Location (Black)
- MJCLW4L BCRD** 4FT Jumper Cable Exterior Location (Black)

Standard fixture is supplied with 15" cable to connect from one fixture to the next in a continuous run application. If a larger gap between fixtures is required, an optional jumper cable can be ordered separately. Cable carries DMX or NONDMX signal and 120-277 line voltage power between two units in a run.



**Glare Visor (Linear) \*Optional\***

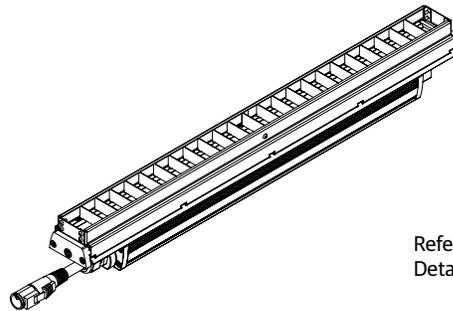
Model	Fixture Section	Finish	Option
<b>MGVCS</b> Glare Visor Linear Cove	<b>U2</b> 2FT Length Unit	<b>BKT</b> Black Textured Paint	<b>WL</b> Wet Location
	<b>U3</b> 3FT Length Unit	<b>SIT</b> Silver Textured Paint	
	<b>U4</b> 4FT Length Unit	<b>WTP</b> White Textured Paint	
		<b>RALTBD</b> RAL Paint Finish	
		<b>CPF</b> Custom Painted Finish	



Reference Additional Accessory Details section for dimensions

**Baffle (Linear) \*Optional\***

Model	Fixture Section	Option
<b>MBFCS</b> Baffle Linear Cove (Available in matte black finish only)	<b>U2</b> 2FT Length Unit	<b>WL</b> Wet Location
	<b>U3</b> 3FT Length Unit	
	<b>U4</b> 4FT Length Unit	



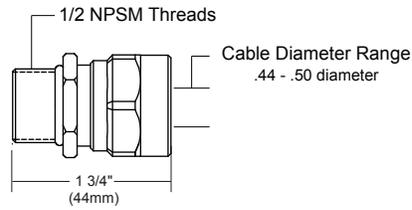
Reference Additional Accessory Details section for dimensions

**ACCESSORY OPTIONS (CONTINUED)**

**Liquid-Tight Cord Grip \*Optional\***

Model
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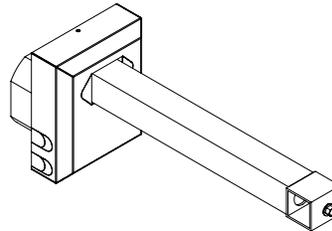
**MCORDGP2** Liquid-Tight Cord Grip  
(Use to secure and seal feed cord to DPI Box)



Connector to secures and seal feed cord.

**Brackets \*Optional\***

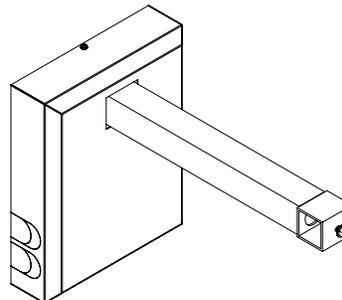
Series	Finish
<b>MCBT6</b> Cantilever Bracket 6" Projection	<b>BKT</b> Black Textured Paint
<b>MCBT12</b> Cantilever Bracket 12" Projection	<b>SIT</b> Silver Textured Paint
<b>MCBT18</b> Cantilever Bracket 18" Projection	<b>WTP</b> White Textured Paint
	<b>RALTBD</b> RAL Paint Finish
	<b>CPF</b> Custom Painted Finish



Reference Additional Accessory Details section for dimensions

**Brackets \*Optional\***

Series	Finish
<b>MCBTL6</b> Cantilever Bracket Large 6" Projection	<b>BKT</b> Black Textured Paint
<b>MCBTL12</b> Cantilever Bracket Large 12" Projection	<b>SIT</b> Silver Textured Paint
<b>MCBTL18</b> Cantilever Bracket Large 18" Projection	<b>WTP</b> White Textured Paint
	<b>RALTBD</b> RAL Paint Finish
	<b>CPF</b> Custom Painted Finish

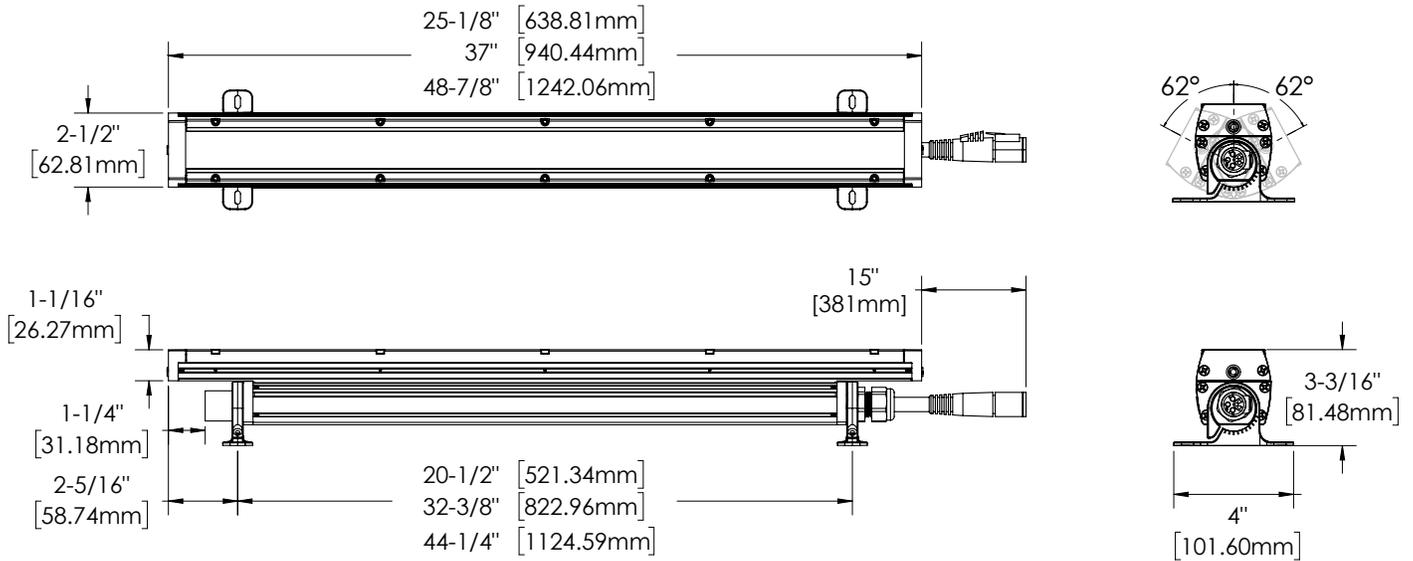


For use with surface mount junction box (by others) and surface mounted conduit (by others).

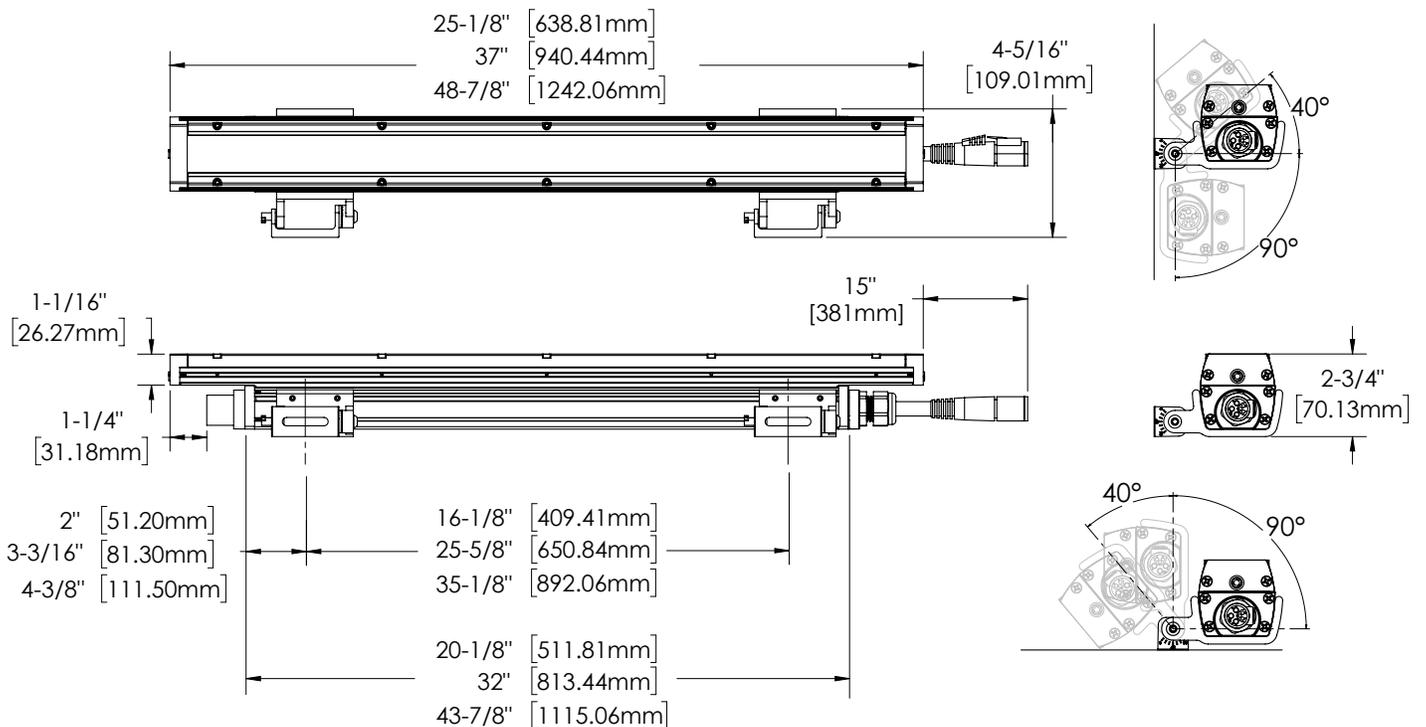
Reference Additional Accessory Details section for dimensions

**DRAWING DETAILS**

**M500ADJC1 - Adjustable Mount Center Axis**

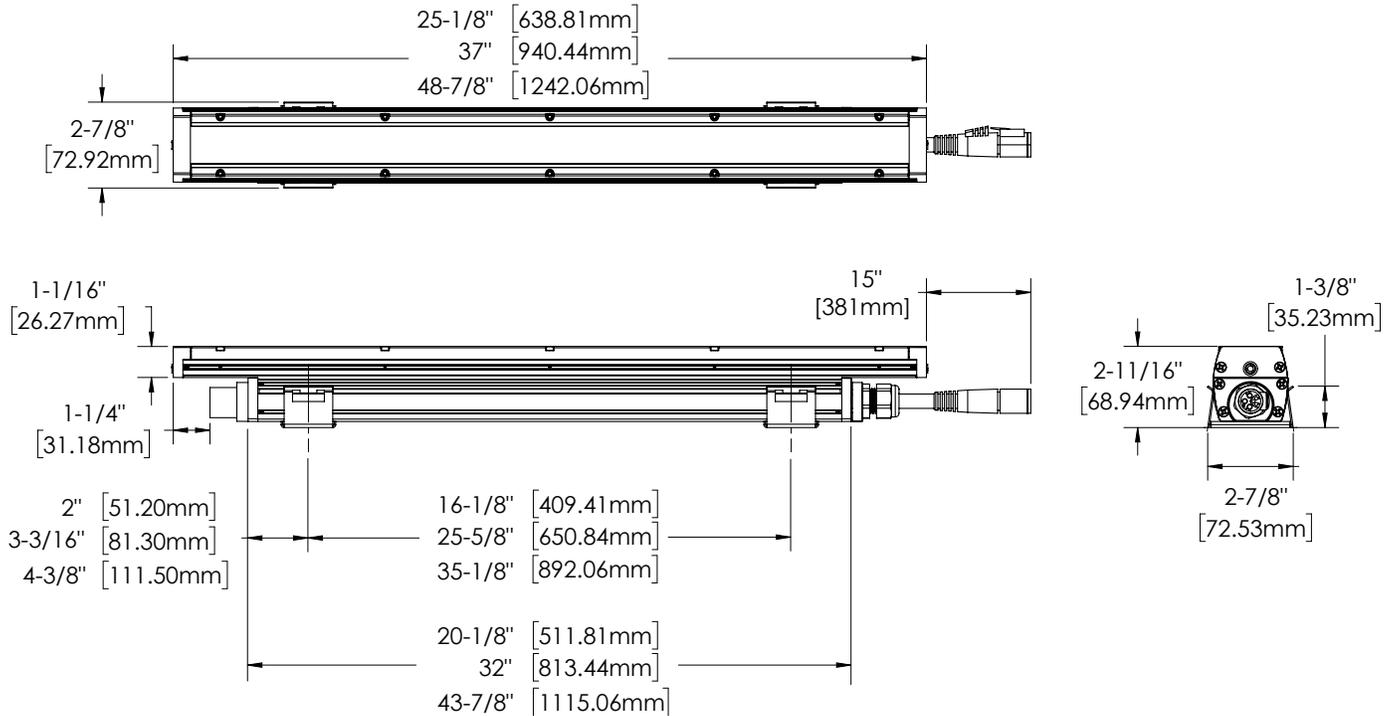


**M500ADJH2 - Adjustable Mount Side Hinge**



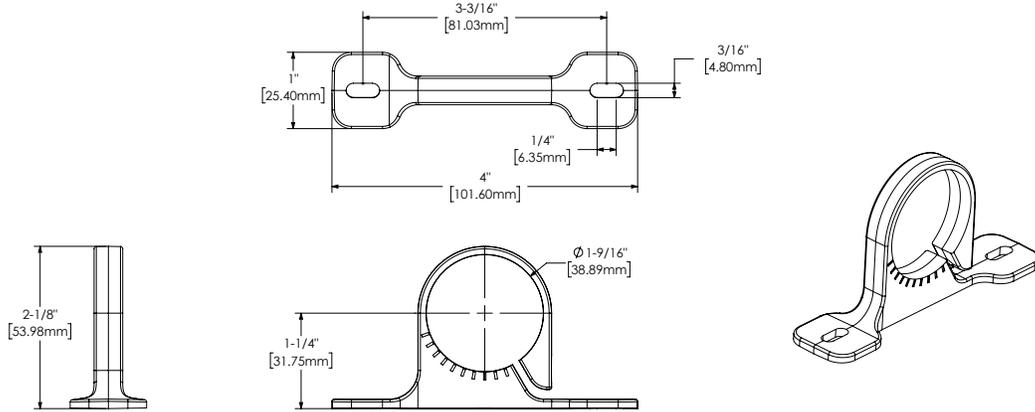
**DRAWING DETAILS (CONTINUED)**

**M500FMC - Fixed Mount**

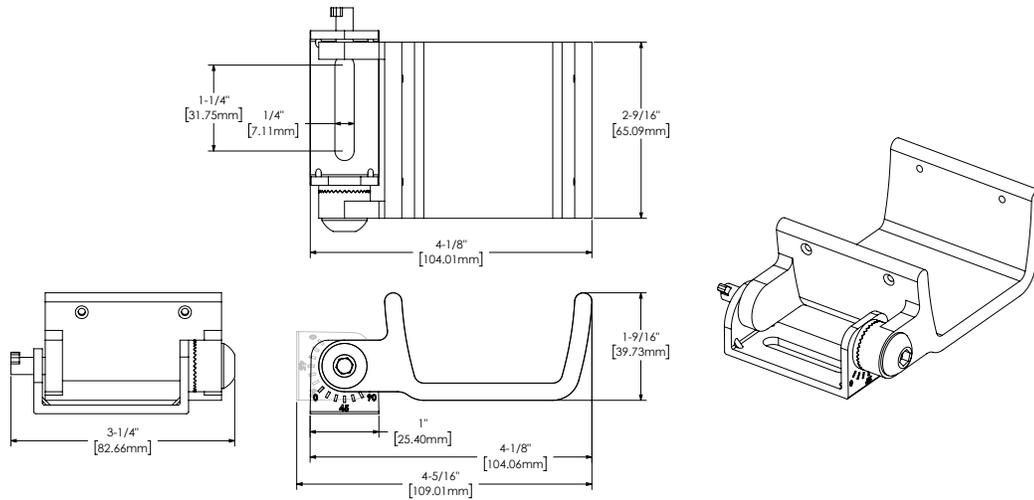


**DRAWING DETAILS (CONTINUED)**

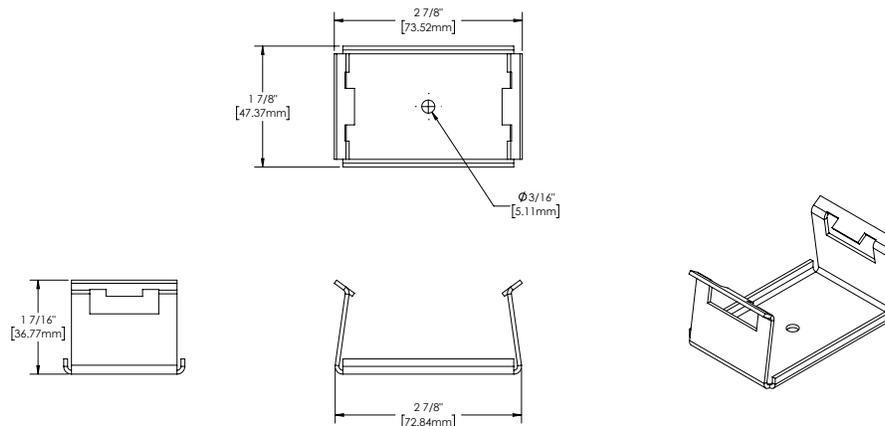
**M500ADJC1 - Adjustable Mount Center Axis Detail**



**M500ADJH2 - Adjustable Mount Side Hinge Detail**

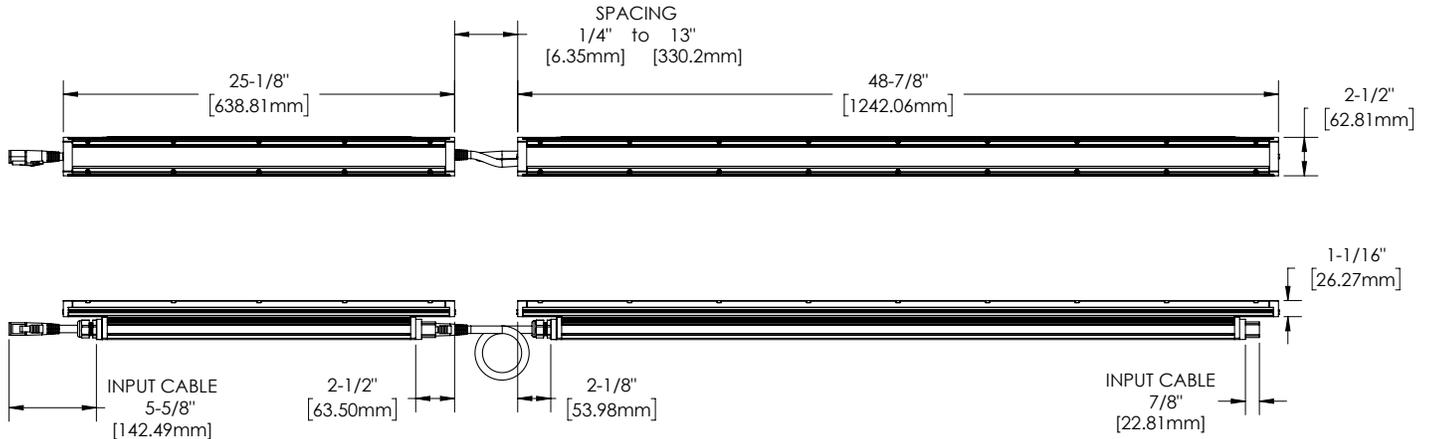


**M500FMC - Fixed Mount Detail**



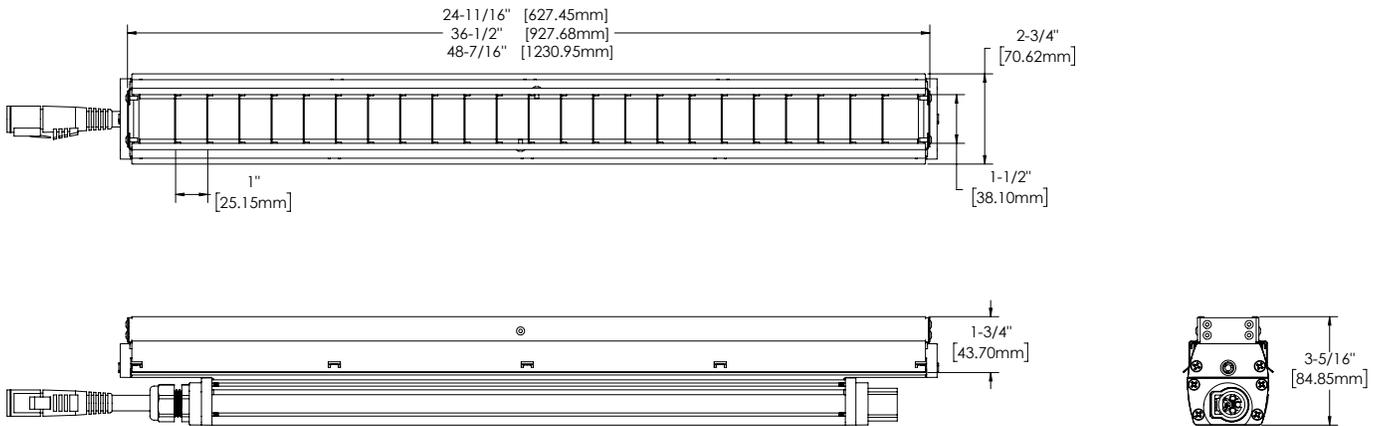
**DRAWING DETAILS (CONTINUED)**

**MCV502 Series Typical End-To-End Run Configuration**



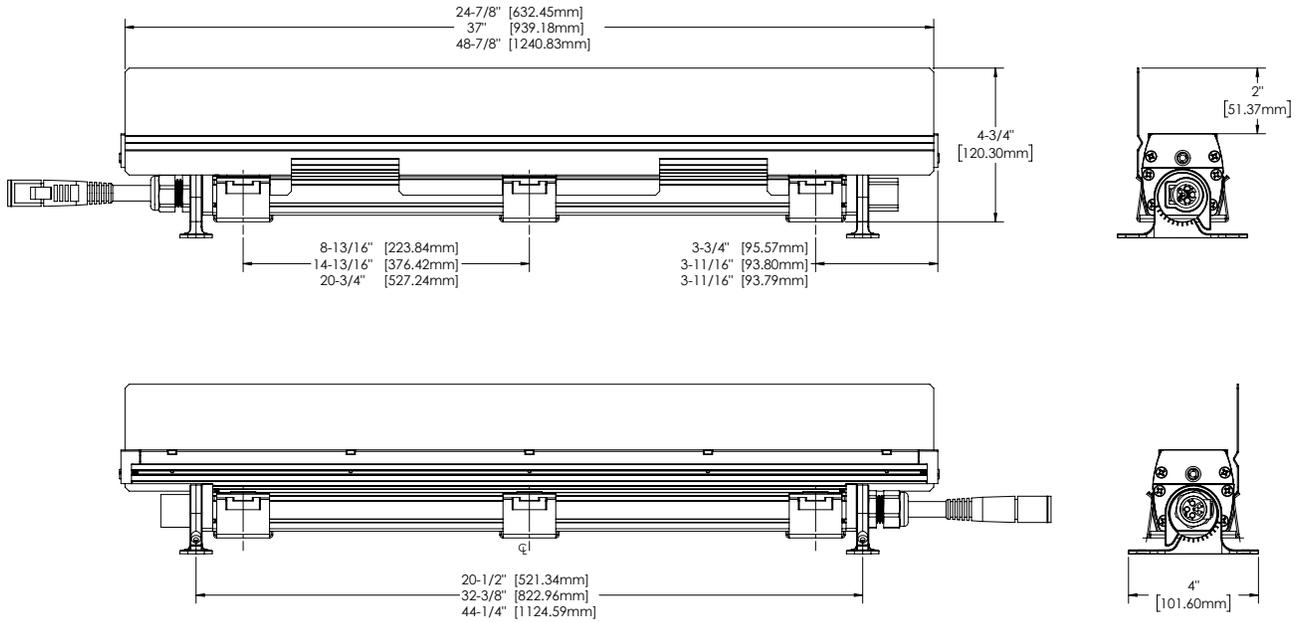
**ADDITIONAL ACCESSORY DETAILS**

**Baffle Linear Cove**

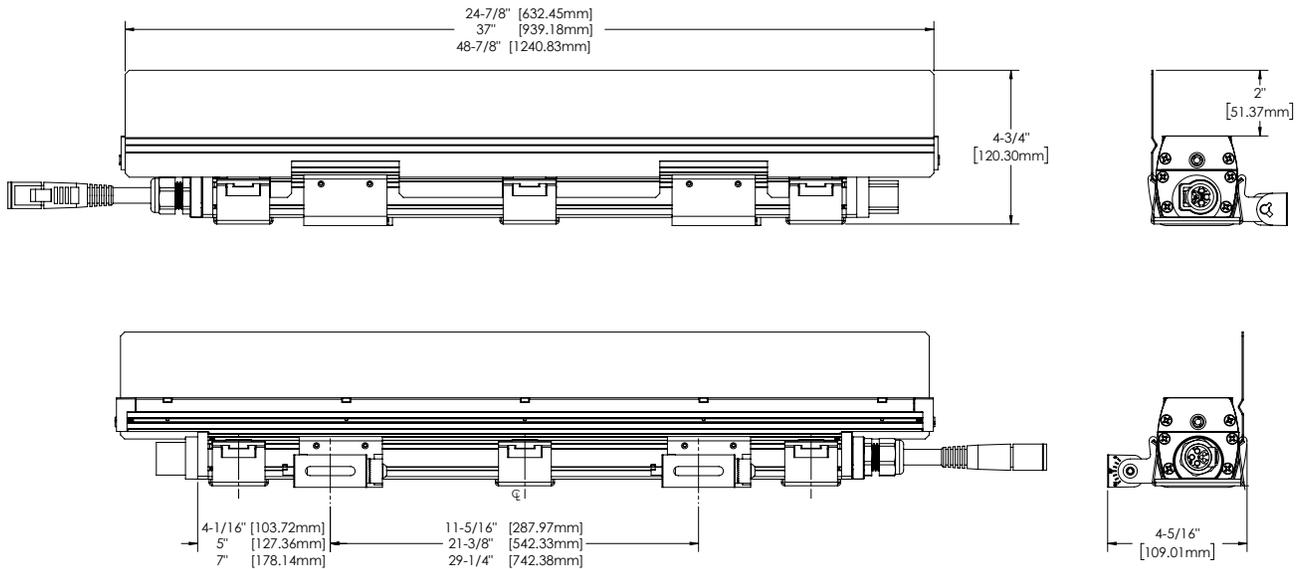


**ADDITIONAL ACCESSORY DETAILS (CONTINUED)**

**Glare Visor with M500ADJC1 Mount**

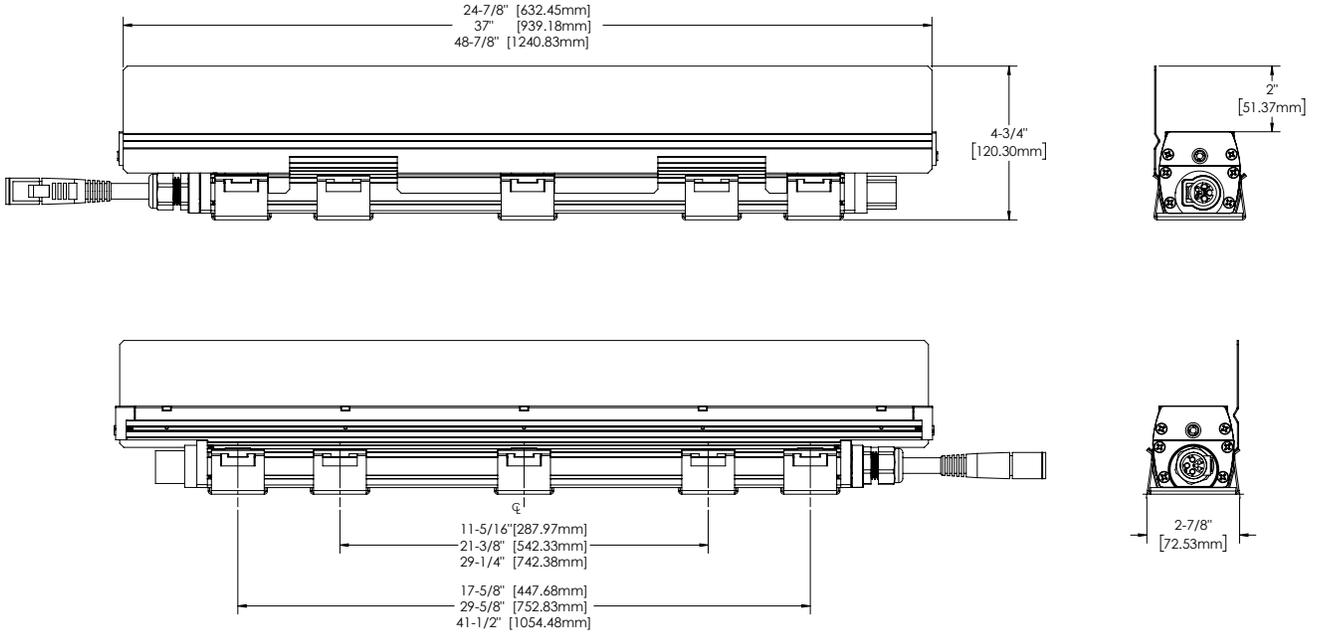


**Glare Visor with M500ADJH2 Mount**

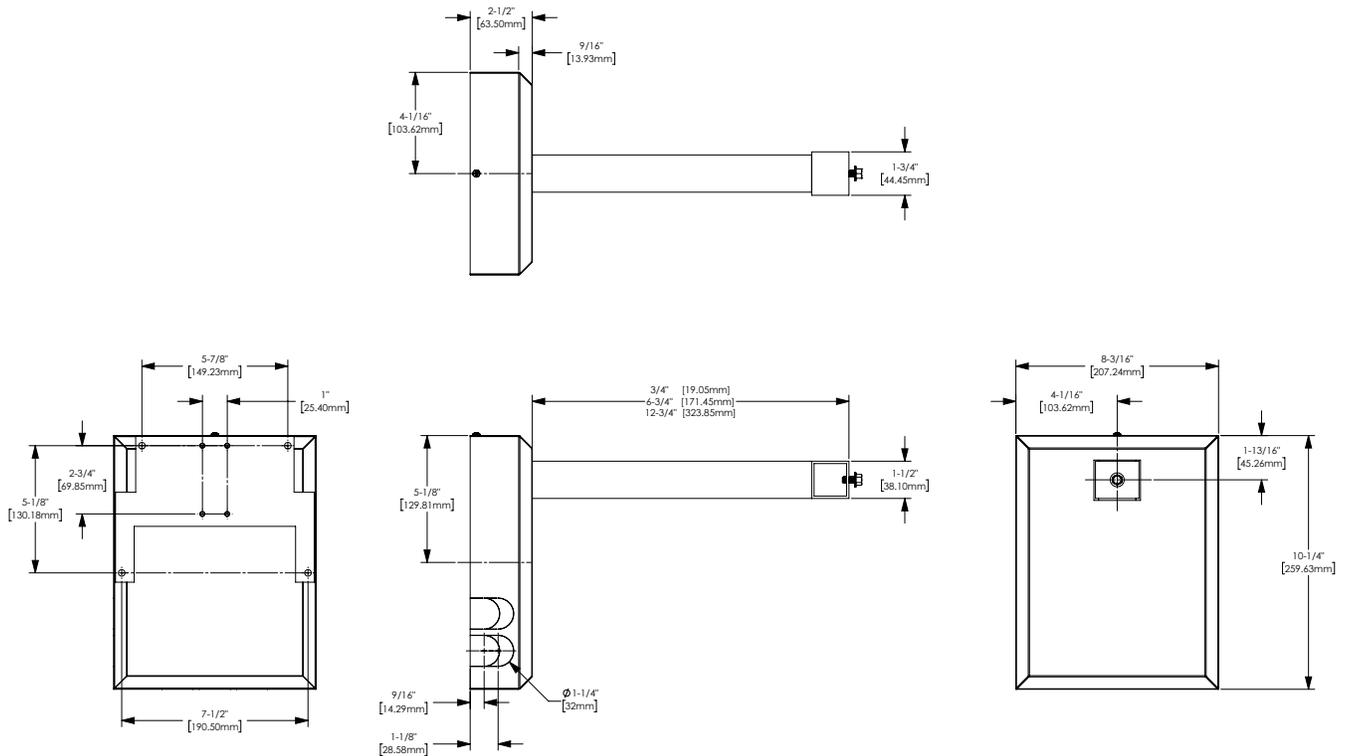


**ADDITIONAL ACCESSORY DETAILS (CONTINUED)**

**Glare Visor with M500FMC Mount**

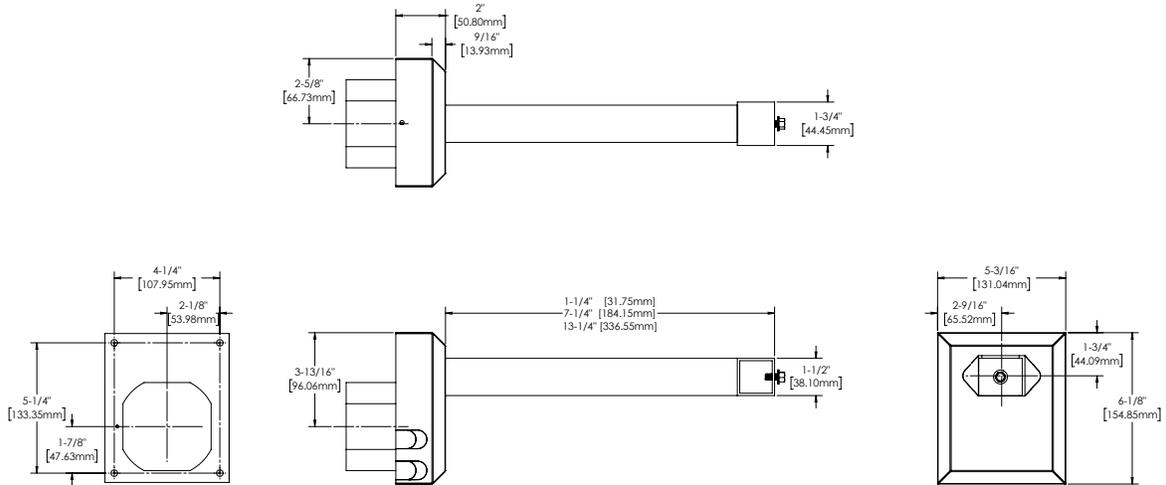


**Cantilever Bracket Large Detail**

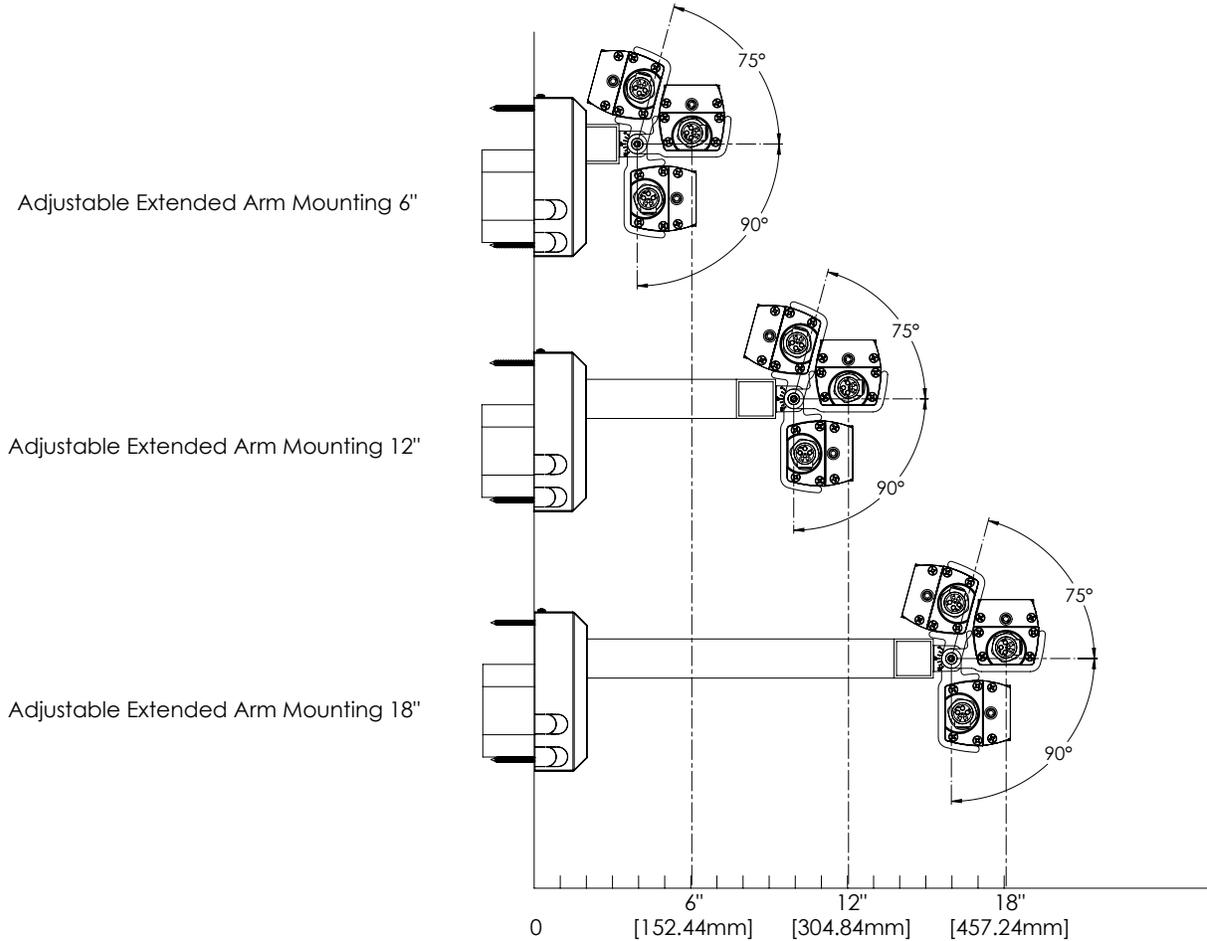


**ADDITIONAL ACCESSORY DETAILS (CONTINUED)**

**Cantilever Bracket Detail**

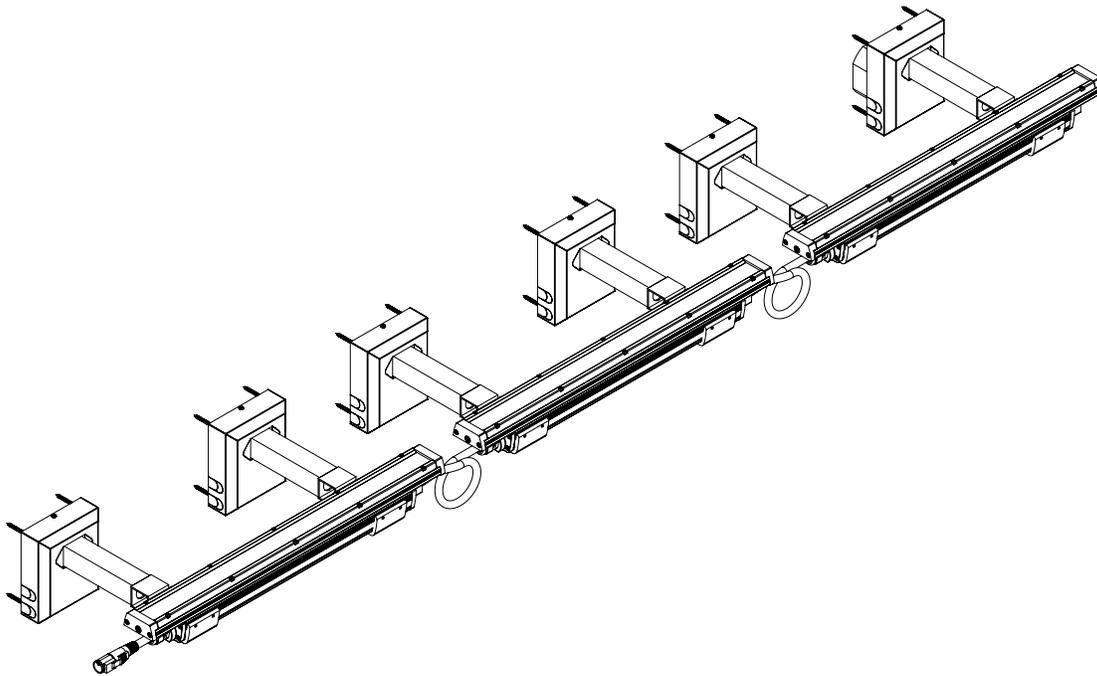
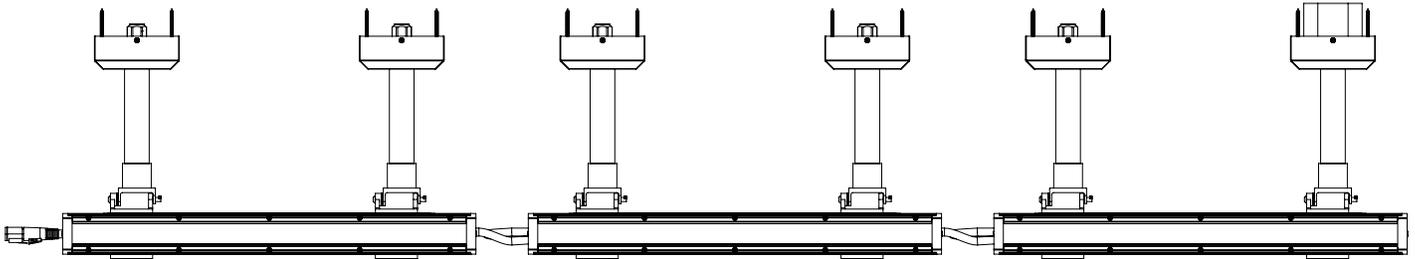


**Cantilever Bracket Detail with M500ADJH2 and Fixture**



**ADDITIONAL ACCESSORY DETAILS (CONTINUED)**

**MCV502 Series Typical End-To-End Run Configuration with Cantilever Brackets  
(Showing 6-foot run of (3) 2-foot units with MCBT12 bracket accessory)**



## SPECIFICATIONS

**Voltage:** 120 through 277v/50-60HZ

**Distribution:** 120° x 120°

**Size:** 2.50 W x 2.50 H

**Housing:** Extruded aluminum snap together construction

**Finish:** Polyester powder coat painted finish. Black oxide fastener color with BKT finish and natural stainless steel fastener color with WTP & SIT finishes

**Lens Material:** Extruded acrylic with frosted surface

**Lumen Maintenance:** 120,000 hours L70 @ +55deg C

**LED Color Mix:** 12 LEDs per 12 inches in a 1:1 ratio (1xRed, 1xGreen, 1xBlue, 1xWhite)

**Osram Color Wavelengths:** RED (620-634nm), GREEN (525-537nm), BLUE (464-470nm), WHITE (4000K)

**Control System:** Easy1 or Fresco DMX512 controller

**Ambient Temperature Ranges:** -40° to +45°C

**Ingress Protection Rating:** IP66 rated per IEC60598

**Vibration:** 3G vibration rated per ANSI 136.31

**Mounting:** Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for outdoor wet location applications.

**Certification/Compliance:** CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

**Weight:** 24" - 3.5 lbs (1.59 kg) / 36" - 4.0 lbs (1.81 kg) / 48" - 5.0 lbs (2.27 kg)

**Buy American:** This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to [www.acuitybrands.com/resources/buy-american](http://www.acuitybrands.com/resources/buy-american) for additional information.

**Warranty:** 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

**Assembled in America:** Buy American Act Compliant