



MARKCOVE

LINEAR COVE
DYNAMIC COLOR

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

LUMEN OUTPUT

MCV502 RGBW			
Nominal Lumens	650LMF	750LMF	
Delivered Lumens	624	744	
Input Watts	7.48	8.95	
Lumens/Watt	83	83	

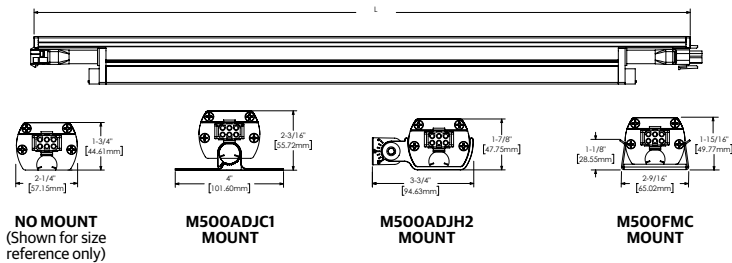


ARCHITAINMENT
COLOR

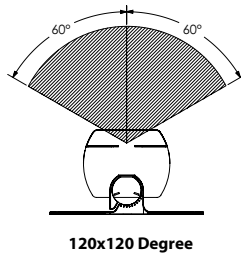


DIMENSIONS

Reference Drawing Detail section for additional information



STANDARD DISTRIBUTION



120x120 Degree

ORDERING

Example: MCV502 LLP 40FT MSL4 M500FMC ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX MFCL10TL

Series	Linear Plan	Total Run Length	Max Section Length	Mounting	Mounting Option
MCV502 MARKCOVE 502	LLP Linear Longest Possible LSL Linear Same Length LCB Linear Center Balance	_FT Specify continuous linear feet in 1' increments, with a minimum of 2'. (Example: 24FT)	MSL2 2' MSL3 3' MSL4 4'	M500ADJCI Adjustable Mount Center Axis M500ADJH2 Adjustable Mount Side Hinge M500FMC Fixed Mount	(blank) No Cantilever option MCBT12 Cantilever Bracket 12" Projection MCBT18 Cantilever Bracket 18" Projection MCBT6 Cantilever Bracket 6" Projection MCBTL12 Cantilever Bracket Large 12" projection MCBTL18 Cantilever Bracket Large 18" projection MCBTL6 Cantilever Bracket Large 6" projection Must have M500ADJH2 Mounting selected.
Dynamic Feature	Dynamic Range	Direct LED Light Output	Distribution	Minimum Dimming Level	Optional Shielding
ARTC Architainment Color	RGBW Dynamic Color Red Green Blue White	650LMF 650 Nominal Lumens per Foot 750LMF 750 Nominal Lumens per Foot	120X120DEG 120 x 120 degrees	DARK Constant Current, Dimming to <1%	(blank) No Shielding MBFC Baffle Linear Cove (Matte black finish) MGVC Glare Visor linear Cove (Finish to match housing)
Voltage	Finish	Control Input	Power Feed**		
MVOLT 120-277 Volt	WTP White Textured Paint SIT Silver Textured Paint BKT Black Textured Paint RALTBDS RAL Color TBD CPF Custom Paint Finish *RALTBD for pricing only. Replace TBD with applicable number when placing order.	DMX* DMX *Requires PWREP IP65 box, purchased separately, for run operation.	M500WBXL Wire Splice Box, Left Feed, Interior Location, for Conduit Termination M500WBXR Wire Splice Box, Right Feed, Interior Location, for Conduit Termination MFCL100TL 100FT Feed Cable Interior Location Left Feed MFCL100TR 100FT Feed Cable Interior Location Right Feed MFCL10TL 10FT Feed Cable Interior Location Left Feed MFCL10TR 10FT Feed Cable Interior Location Right Feed MFCL25TL 25FT Feed Cable Interior Location Left Feed MFCL25TR 25FT Feed Cable Interior Location Right Feed MFCL50TL 50FT Feed Cable Interior Location Left Feed MFCL50TR 50FT Feed Cable Interior Location Right Feed NOFCL* No Power Feed Cable *Requires a Wire Splice Box or Feed Cable, purchased separately, for run operation. (See Accessories section starting on page 6.) **Consult Fixture Installation Instructions or Basic System Wiring section for Maximum Run Length Limits table to calculate if additional Wire Splice Box or Feed Cables may be required for proper system operation.		

Accessories	
Controller (Fresco Control System)	See page 6
Controller (Easy™ Solo / Touch / Pro)	See page 6
DMX-RDM Repeater with Power in IP65 Enclosure	See page 5
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

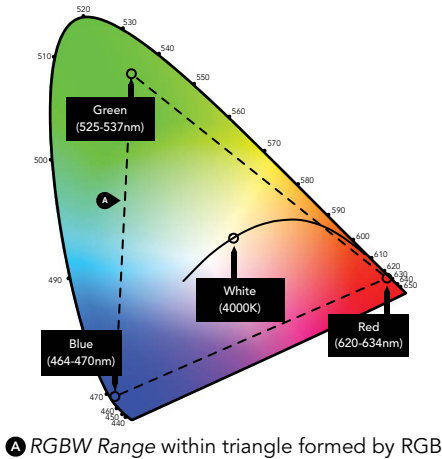
Model	Length	Weight
MCV502	24-1/4" (616 mm)	3.0 lbs (1.36 kg)
	36-1/8" (918 mm)	3.5 lbs (1.59 kg)
	48" (1219 mm)	4.5 lbs (2.04 kg)

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	1177	16.04	73	589	8.02
	3FT	120x120	1834	22.72	81	611	7.57
	4FT	120x120	2495	29.91	83	624	7.48
750	2FT	120x120	1404	19.19	73	702	9.60
	3FT	120x120	2188	27.18	81	729	9.06
	4FT	120x120	2976	35.78	83	744	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.

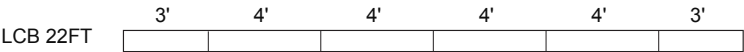
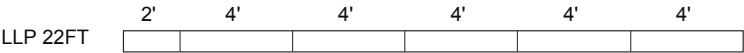
LINEAR PLAN

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

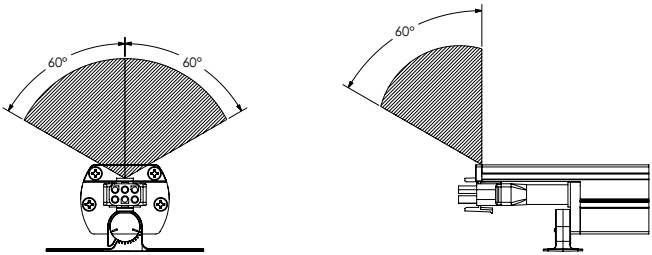
LLP Longest Length Possible:
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 22FT row would have (5) 4FT segments and (1) 2FT segment located at one end.

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.



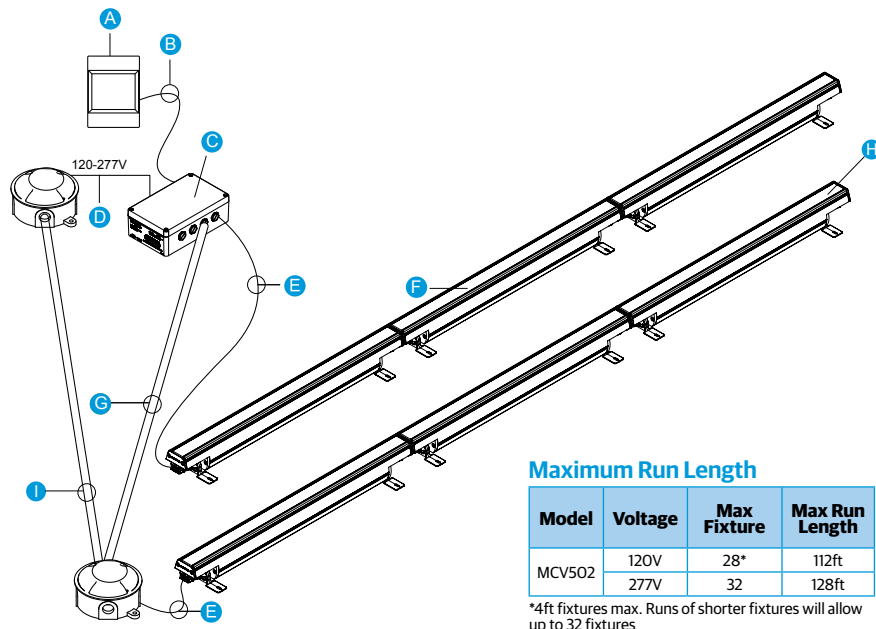
DISTRIBUTION



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.



PATHWAY CONNECTIVITY SOLUTIONS - DMX NETWORKING AND ADVANCED CONTROL

DMX512 networks create dynamic lighting. Dynamic lighting often brings a lot of color and movement to spaces. The DMX512 lighting protocol was created to serve the needs of performance lighting, such as in theaters or music venues. A DMX network is designed to support large amounts of data continually moving between controllers and luminaires, and at very high speeds. Many non-performance lighting applications also rely on DMX networks, to support RGB LED luminaires featured in applications such as building façades, hotel lobbies and corporate reception areas.

A DMX network always includes a controller and luminaires that are compatible with the DMX protocol. As well, DMX lighting systems must include network devices that route the DMX data to different locations between the controllers and luminaires.

Pathway Connectivity provides these network devices, creating robust and secure network backbones. Pathway devices create bridges between Ethernet and DMX, and DMX and other kinds of lighting control protocols, such as RDM, nLight® or 0-10v.

DMX / Power Integrator

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



PWREP IP65 REPEATER IP65 DMX/RDM OPTO-SPLITTER
P4 TERM RDM (Must be purchased separately)

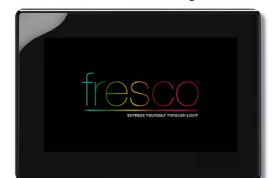
Refer to [PWREP IP65](#) spec sheet for additional details.

- 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 PWREP IP65. The total length of this cable must not exceed 1000 feet from the DMX controller to the PWREP IP65. No luminaires should be installed between DMX Controller and any PWREP IP65.
- C** PWREP IP65 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 PWREP IP65 also serves as a 4-channel splitter enabling up to 128 fixtures to be controlled from a single PWREP IP65. Refer to PWREP IP65 spec sheet for dimensions and mounting details.
- D** 120V-277V input to PWREP IP65. 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 PWREP IP65, 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 PWREP IP65. The maximum length of cord and luminaire run combined is 1000 feet per DMX/RDM specification.
- G** Data can be run to junction box locations in conduits. Use Belden 9829 for data.
- 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.
- I** Power can be run to junction box locations in conduits. Use copper wire per local code for power.

Easy! Controller



Fresco Control System



ACCESSORY OPTIONS

Fresco Control System

Series	Model	Options	Finish
FCS Fresco Control System	7TSN 7" touchscreen with nLight port	(blank) nlight only X DMX/RDM control	DBL Black DWH White DNA 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
EZSOLO Easy! Solo	MVOLT 120V-277V VAC, 50/60 Hz	BK Black
EZTOUCH Easy! Touch		WH White
EZPRO Easy! Pro		

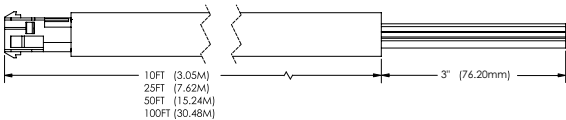
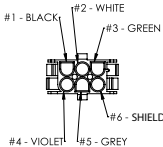


Refer to [EASYL](#) spec sheet for additional details and options.

Feed Cable, Right Feed (Female Plug)

*Minimum of one feed cable, left or right, required per installation

Model	
MFCL10TR BCRD DXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL25TR BCRD DXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL50TR BCRD DXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL100TR BCRD DXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL10TR WCRD DXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL25TR WCRD DXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL50TR WCRD DXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL100TR WCRD DXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)



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.

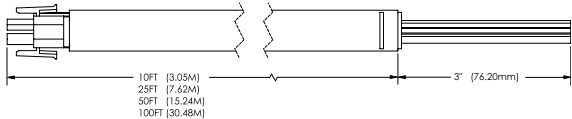
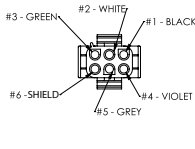
ACCESSORY OPTIONS (CONTINUED)

Feed Cable, Left Feed (Male Plug)

*Minimum of one feed cable, left or right, required per installation

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

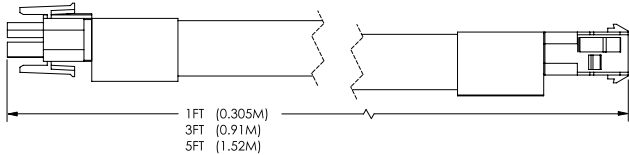
Model	
MFCL10TL BCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL25TL BCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL50TL BCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL100TL BCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL10TL WCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL25TL WCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL50TL WCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL100TL WCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)



Jumper Cable *Optional*

Carries DMX signal and 120-277 line voltage power between two units in a run when larger spacing between units is required.

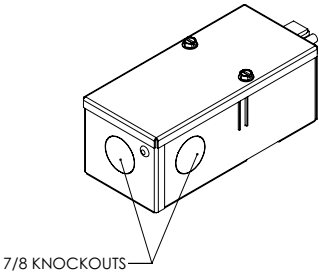
Model	
MJCLW1T BCRD	1FT Jumper Cable Interior Location (Black)
MJCLW3T BCRD	3FT Jumper Cable Interior Location (Black)
MJCLW5T BCRD	5FT Jumper Cable Interior Location (Black)
MJCLW1T WCRD	1FT Jumper Cable Interior Location (White)
MJCLW3T WCRD	3FT Jumper Cable Interior Location (White)
MJCLW5T WCRD	5FT Jumper Cable Interior Location (White)



ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, Right Feed (Female Plug), *Optional*
*Minimum of one wire splice box, left or right, required for installation

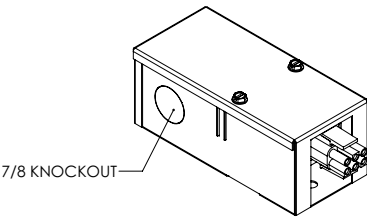
Model	
M500WBXR DXP	Wire Splice Box w/ Sealing Cap, Right Feed, Interior Location (Galvanized Steel)
M500WBXR WTPP DXP	Wire Splice Box, w/ Sealing Cap, Right Feed, Interior Location (White)



Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.
Use one wire splice box per run only.

Wire Splice Box, Left Feed (Male Plug), *Optional*
*Minimum of one wire splice box, left or right, required for installation

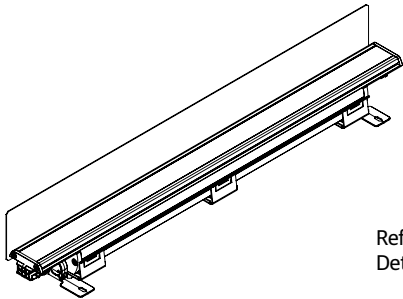
Model	
M500WBXL DXP	Wire Splice Box, w/ Sealing Cap, Left Feed, Interior Location (Galvanized Steel)
M500WBXL WTPP DXP	Wire Splice Box, w/ Sealing Cap, Left Feed, Interior Location (White)



Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.
Use one wire splice box per run only.

Glare Visor (Linear) *Optional*

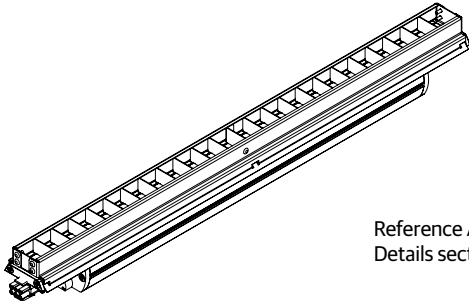
Model		Fixture Section		Finish	
MGVCS	Glare Visor Linear Cove	U2	2FT Length Unit	BKT	Black Textured Paint
		U3	3FT Length Unit	SIT	Silver Textured Paint
		U4	4FT Length Unit	WTP	White Textured Paint
				RALTBD	RAL Paint Finish
				CPF	Custom Painted Finish



Reference Additional Accessory Details section for dimensions

Baffle (Linear) *Optional*

Model		Fixture Section	
MBFC5	Baffle Linear Cove (Available in matte black finish only)	U2	2FT Length Unit
		U3	3FT Length Unit
		U4	4FT Length Unit

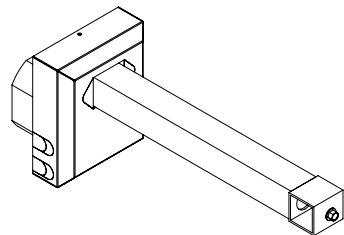


Reference Additional Accessory Details section for dimensions

ACCESSORY OPTIONS (CONTINUED)

Brackets *Optional*

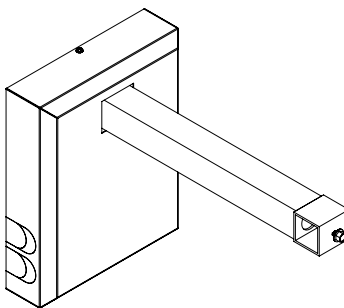
Series		Finish	
MCBT6	Cantilever Bracket 6" Projection	BKT	Black Textured Paint
MCBT12	Cantilever Bracket 12" Projection	SIT	Silver Textured Paint
MCBT18	Cantilever Bracket 18" Projection	WTP	White Textured Paint
		RALTBD	RAL Paint Finish
		CPF	Custom Painted Finish



Reference Additional Accessory
Details section for dimensions

Brackets *Optional*

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

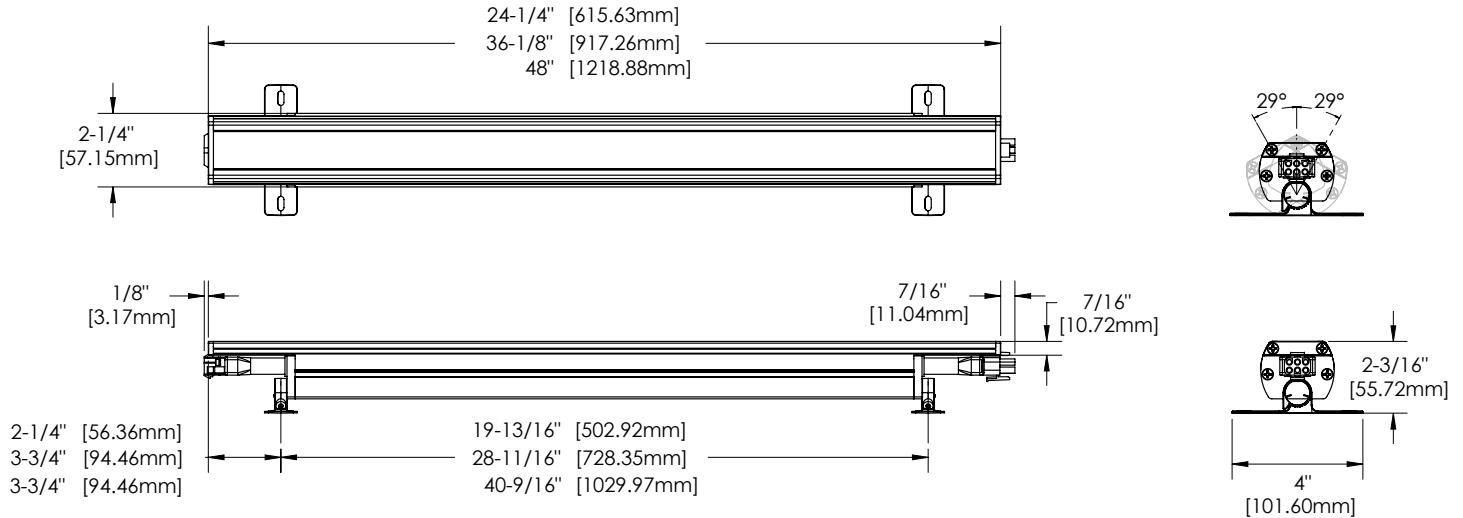


For use with surface mount
junction box (by others) and
surface mounted conduit (by
others).

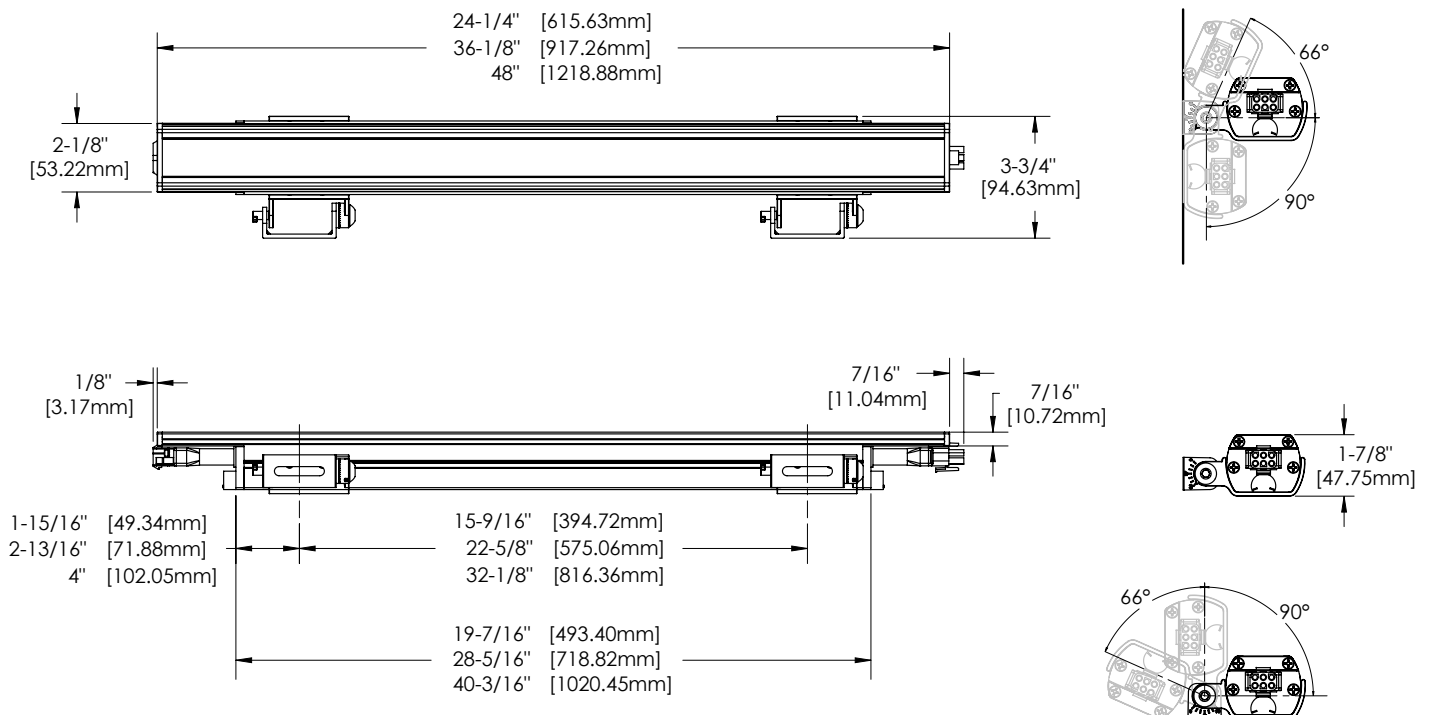
Reference Additional Accessory
Details section for dimensions

DRAWING DETAILS

M500ADJC1 - Adjustable Mount Center Axis

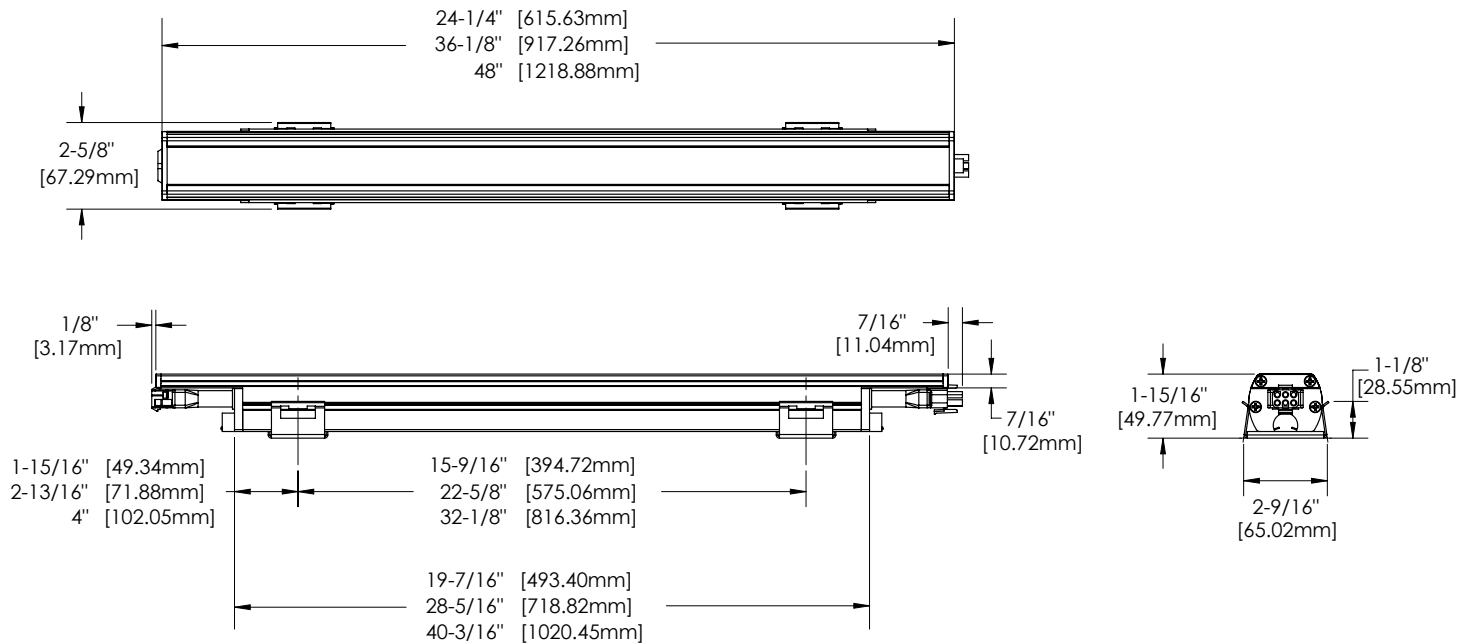


M500ADJH2 - Adjustable Mount Side Hinge



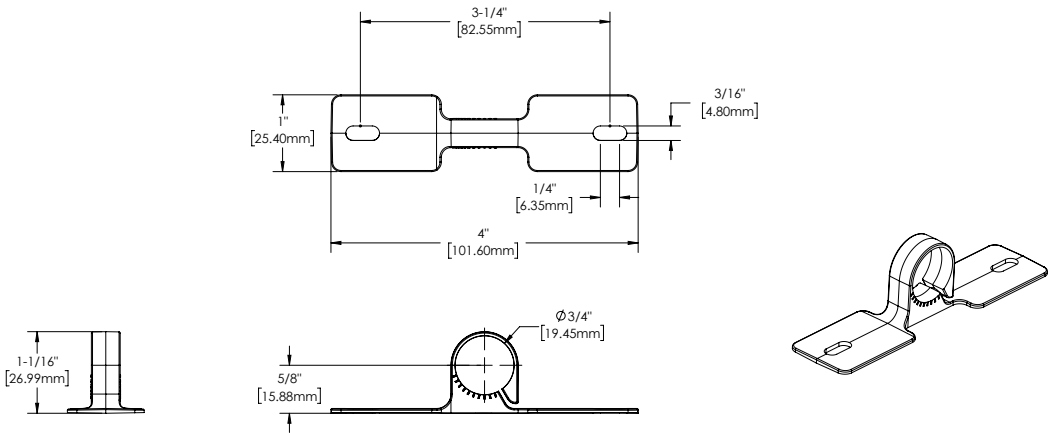
DRAWING DETAILS (CONTINUED)

M500FMC - Fixed Mount

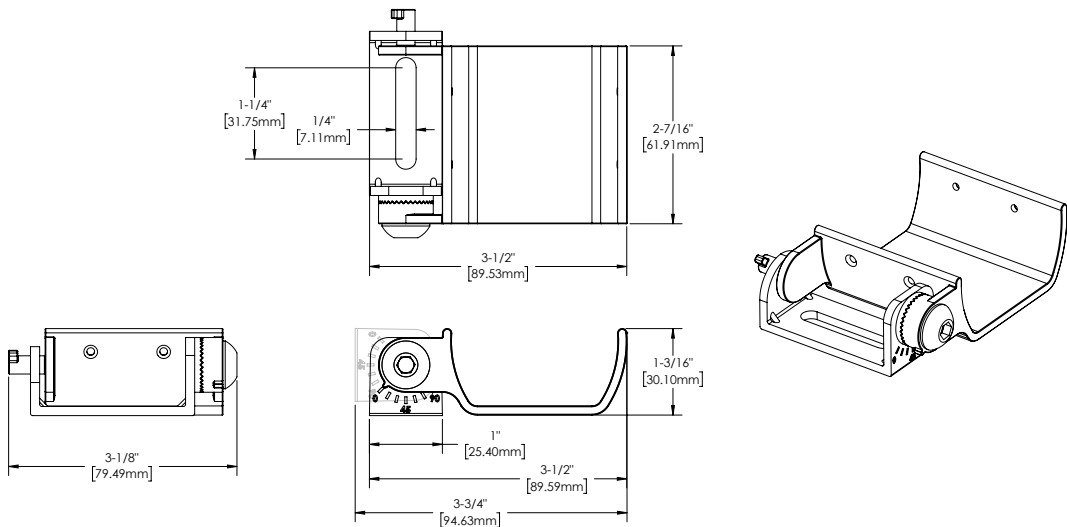


DRAWING DETAILS (CONTINUED)

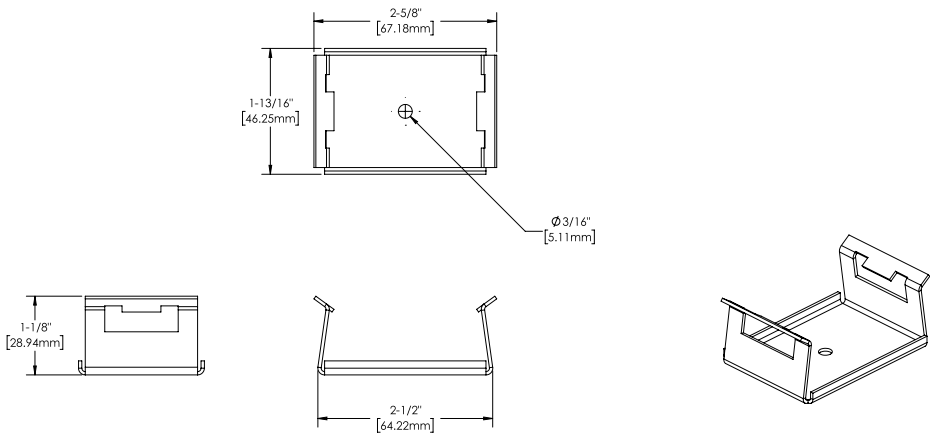
M500ADJC1 - Adjustable Mount Center Axis Detail



M500ADJH2 - Adjustable Mount Side Hinge Detail

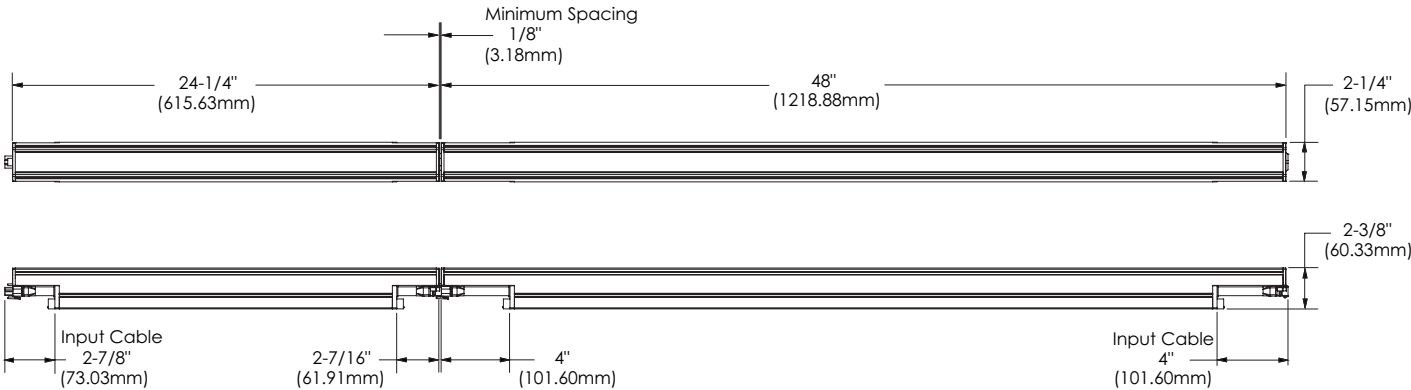


M500FMC - Fixed Mount Detail



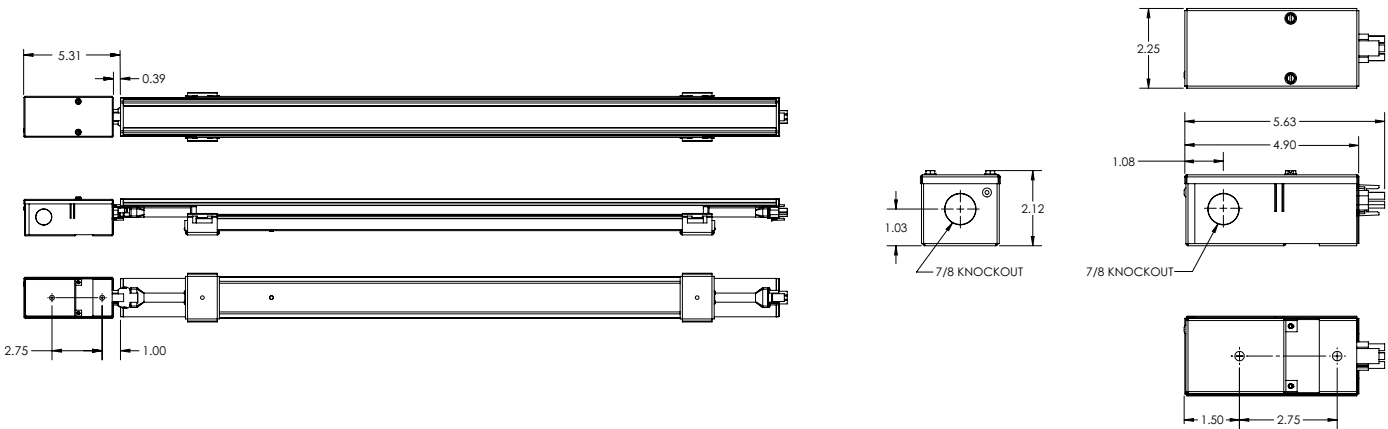
DRAWING DETAILS (CONTINUED)

MCV502 Series Typical End-To-End Run Configuration

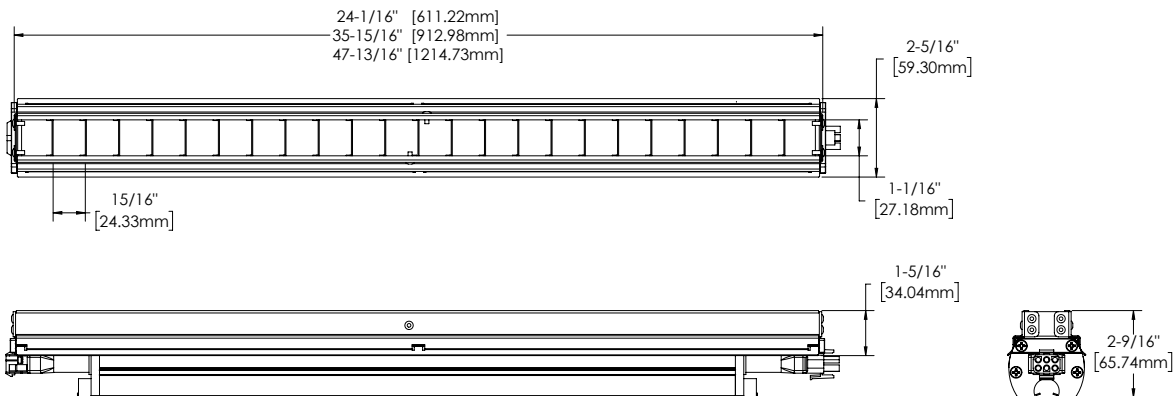


ADDITIONAL ACCESSORY DETAILS

M500WBX Details
(Same dimensions apply for Left or Right Feed)

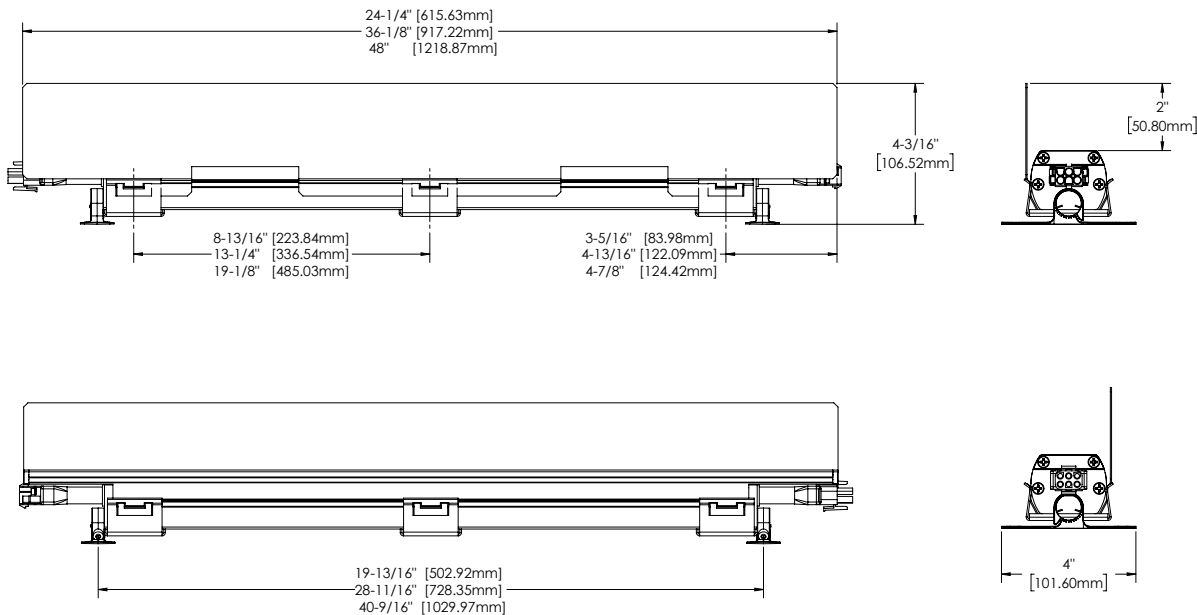


Baffle Linear Cove

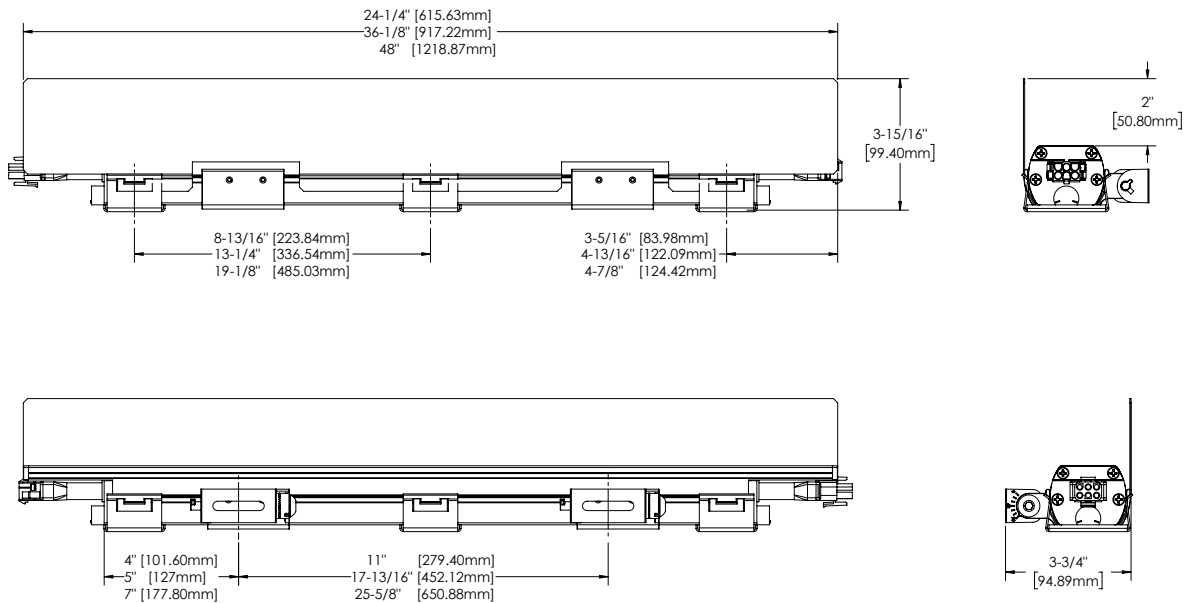


ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Glare Visor with M500ADJC1 Mount

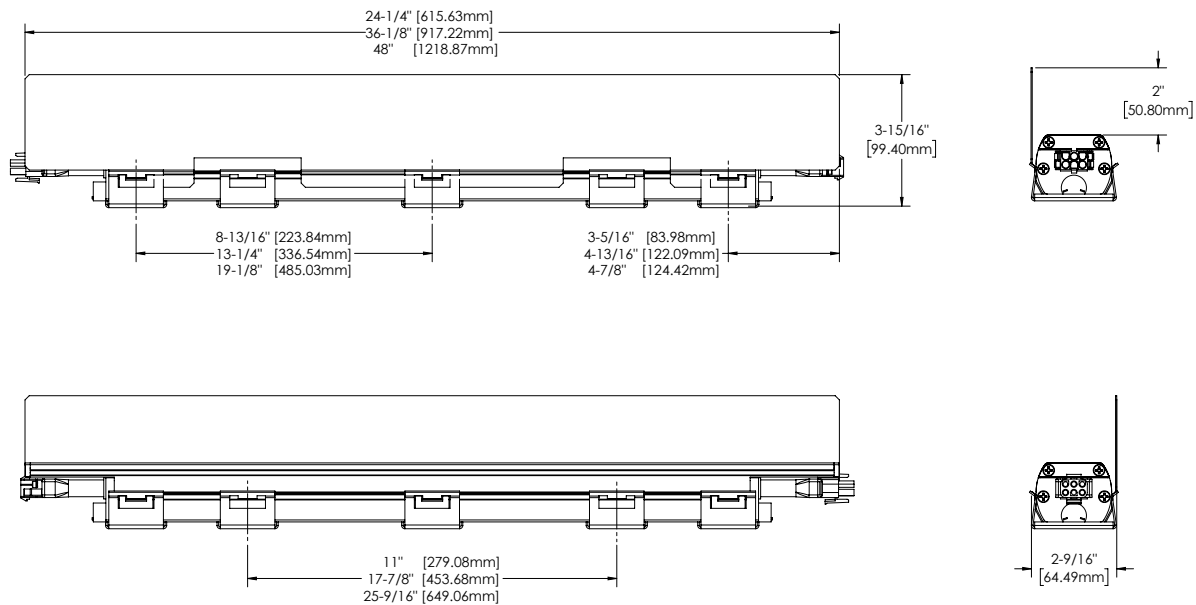


Glare Visor with M500ADJH2 Mount

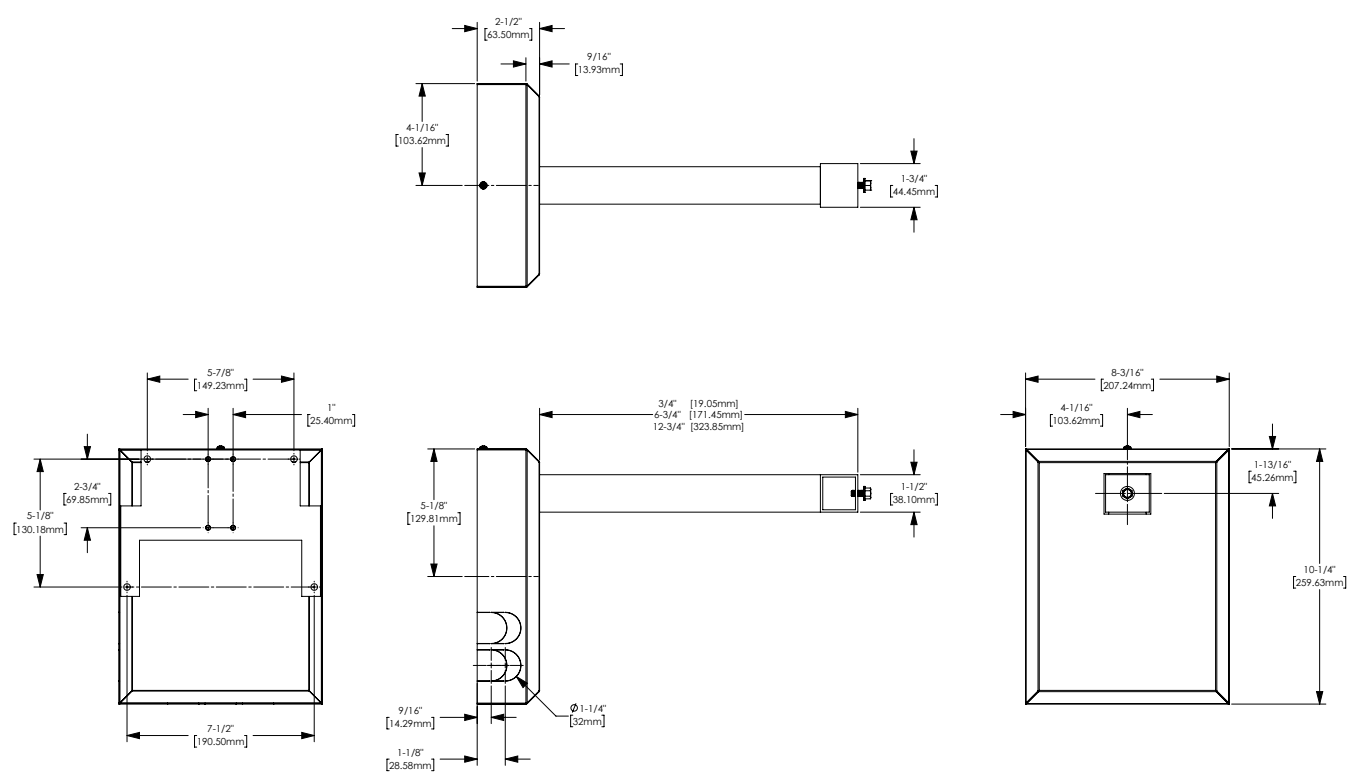


ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Glare Visor with M500FMC Mount

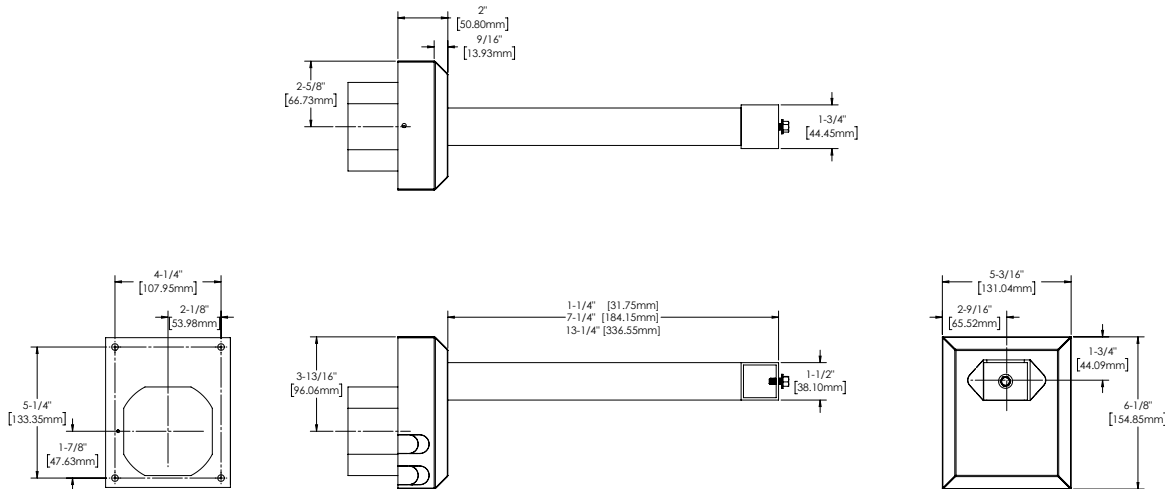


Cantilever Bracket Large Detail

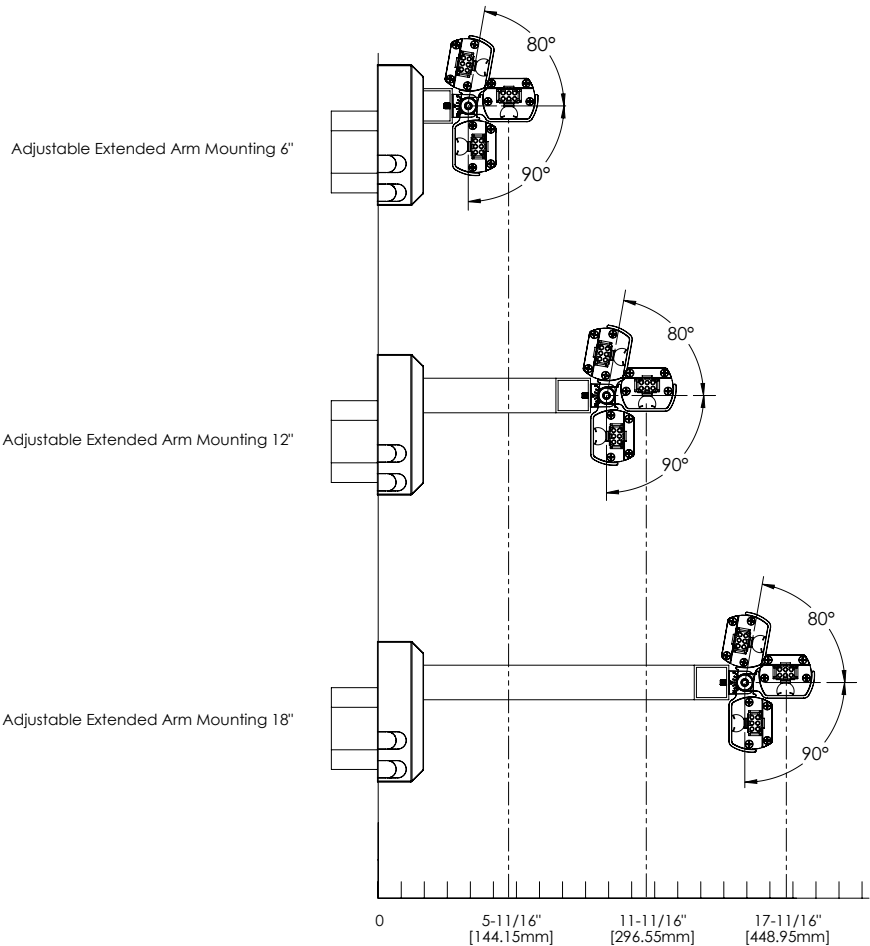


ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Cantilever Bracket Detail

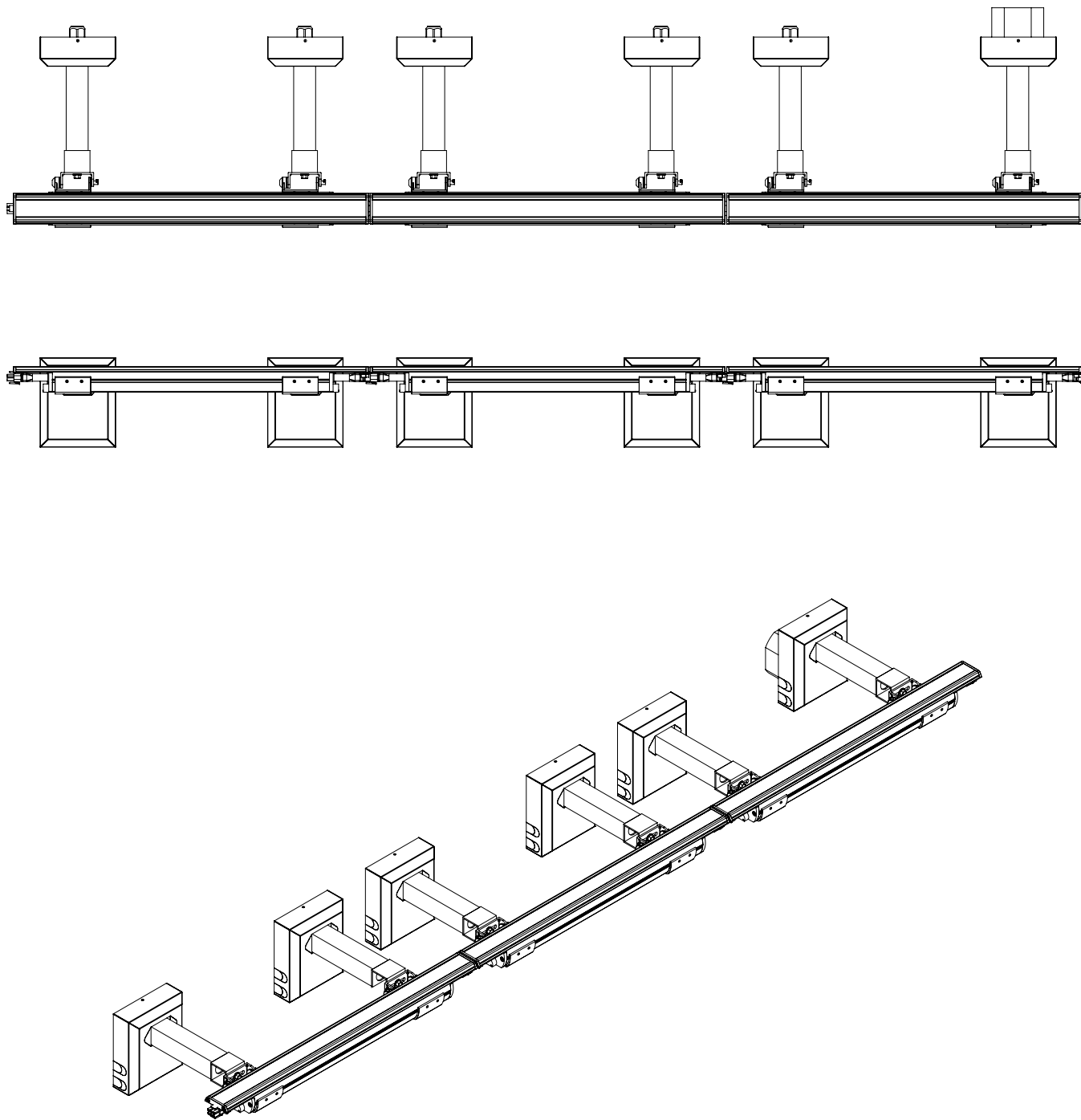


Cantilever Bracket Detail with M500ADJH2 and Fixture



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/60Hz

Distribution: 120° x 120°

Size: 2.25W x 1.75H

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: EasyL or Fresco DMX512 controller

Resolution(DMX/RDM): Resolution is set per fixture and addressed independently.

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

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp 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" - 3.0 lbs (1.36 kg) / 36" - 3.5 lbs (1.59 kg) / 48" - 4.5 lbs (2.04 kg)

Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: 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