

MARKLINE 101

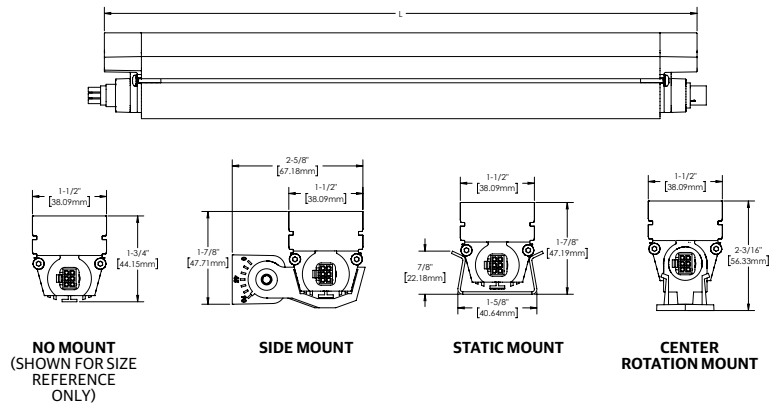
DYNAMIC COLOR

HIGHLIGHTS

- Small and versatile
- Extruded aluminum construction
- Dynamic RGBW Color
- Lumen outputs: 250, 400 lumens per foot
- 6 precise optical distributions: 9x9, 15x30, 10x60, 30x60, 40x60, 60x60 or Wall Wash
- Multi-color diode provides superior near-field color mixing
- DMX/Remote device management
- Flicker free dimming to DARK (0.01%)
- Shielding options: frosted lens, partially frosted lens, linear cross baffle, hex cell louver, glare visor
- Mounting: surface fixed, surface adjustable, cantilever, suspended

DIMENSIONS

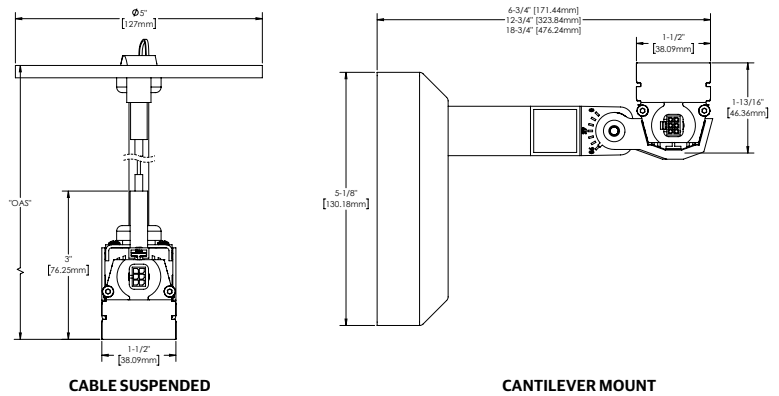
Types of Mount with Optic



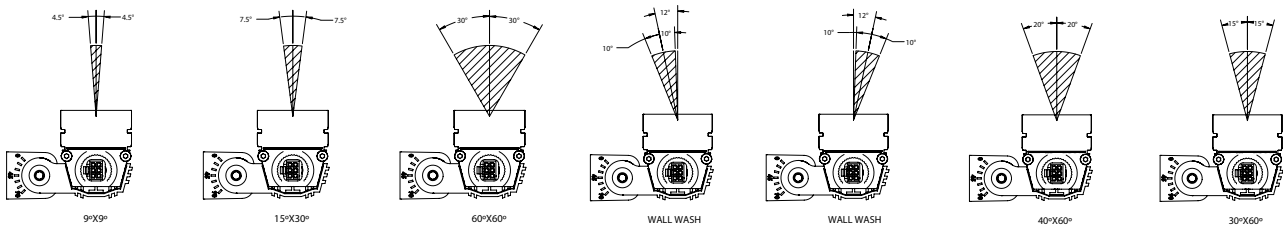
FIXTURE PERFORMANCE

Nominal Lumens/Foot	9x9	15x30	WW
Delivered Lumens/Foot	775	827	755
Input Watts/Foot	16.2	16.2	16.2
Lumens/Watt	48	51	47

Based on a 4FT, 400LMF



STANDARD DISTRIBUTION



ORDERING

Example: MKS101 LLP 24FT MSL4 M100ADJCI ARTC RGBW 110OLMF 30X60DEG DARK MVOLT WTP DMX MFCL10TL

--	--	--	--	--	--

Series	Linear Plan	Total Run Length	Max Section Length	Mounting	Mounting Option
MKS101 MARKLINE101	LLP Linear Longest Possible LSL Linear Same Length LCB Linear Center Balance	_FT Specify continuous linear feet in 1' increments starting at 1' (Example: 24FT)	MSL1 1' MSL4 4'	(blank) Cable Suspension Mount M100ADJCI Adjustable Mount Center Axis M100ADJHZ Adjustable Mount Side Hinge M100FMC Fixed Mount M100CVE* Cove Mount *MCVE Cove housing must be ordered separately.	(blank) No Cantilever option MCLB6 Cantilever Bracket 6" Projection MCLB12 Cantilever Bracket 12" Projection MCLB18 Cantilever Bracket 18" Projection

--	--	--	--	--

Dynamic Feature	Dynamic Range	LED Light Output	Distribution	Minimum Dimming Level
ARTC Architainment Color	RGBW Dynamic Color Red Green Blue White	250LMF 250 Nominal Lumens Per Foot 400LMF 400 Nominal Lumens Per Foot	9X9DEG 9 x 9 Degrees 10X60DEG 10 x 60 Degrees 15X30DEG 15 x 30 Degrees 30X60DEG 30 x 60 Degrees 40X60DEG 40 x 60 Degrees 60X60DEG 60 x 60 Degrees WW Wall Wash	DARK Constant Current, Dimming to <1% (Use with DALI OR DMX Control Input)

--	--	--	--	--

Optional Shielding	Voltage	Shielding	Finish	Control Input	Mounting
(blank) No Optional Shielding MBFB Baffle Linear Surface, Black MGVB Glare Visor Linear Surface, Black MHCB Hexagonal Cell Louver, Black MFCA Frosted Clear Acrylic	MVOLT 120 - 277 Volt Input 347* 347 Volt *347 comes with a remote driver kit.	(blank) Frosted Acrylic PFCA Partial Frosted Clear Acrylic	WTP White Textured Paint BKT Black Textured Paint SIT Silver Textured RALTBD RAL Color TBD RALTBD is for pricing only. Replace with applicable RAL number when placing order.	DMX DMX	(blank) No Cable Suspension Mount F1/ T-bar ceiling (universal mounting bracket) F1A/ T-bar ceiling (UMB with integrated j-box) F2/ Hard ceiling (horizontal j-box)

--	--	--	--	--

Overall Suspension	Power Feed	Canopy Form	Canopy Color	Options
(blank) No Cable Suspension Mount 96A 96" Adjustable 120A 120" Adjustable	MFCL10TL Left 10FT Feed Cable (Female) MFCL10TR Right 10FT Feed Cable (Male) MFCL25TL Left 25FT Feed Cable (Female) MFCL25TR Right 25FT Feed Cable (Male) MFCL50TL Left 50FT Feed Cable (Female) MFCL50TR Right 50FT Feed Cable (Male) MFCL100TL Left 100FT Feed Cable (Female) MFCL100TR Right 100FT Feed Cable (Male) NOFCL No Power Feed Cable M100BL* M100 Wire Splice Box Left M100BR* M100 Wire Splice Box Right M100W* M100 Whip Box *M100W is required for M100CVE Mounting. *If selecting CP, must select M100BL or M100BR	(blank) No Cable Suspension Mount RDCY Round canopy SQCY Square canopy	(blank) No Cable Suspension Mount BKTCY Black canopy SITCY Silver painted canopy WTPCY White canopy	(blank) No Options MCS* 5" Support Canopy to Match Feed Canopy CP Chicago Plenum *Only available with cable suspension mount.

MODEL	SECTION	LENGTH	WEIGHT
MKS101	U1	12" (305 mm)	1 lb.
	U4	48" (1219 mm)	3.05 lb.

PERFORMANCE DATA

Based on 4FT

Nominal Lumens/FT	Distribution	Delivered Lumens	Input Watts	Lumens/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
250	9x9	2518	50.8	49.57	630	12.7
	15x30	2778	50.8	54.69	695	12.7
	WW	2417	50.8	47.58	604	12.7
400	9x9	3147	64.76	48.59	787	16.19
	15x30	3471	64.76	53.60	868	16.19
	WW	3020	64.76	46.63	755	16.19

Lumen Values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configuration shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of en-user environment and application. Consult www.marklighting.com for performance data on any configurations not shown here.

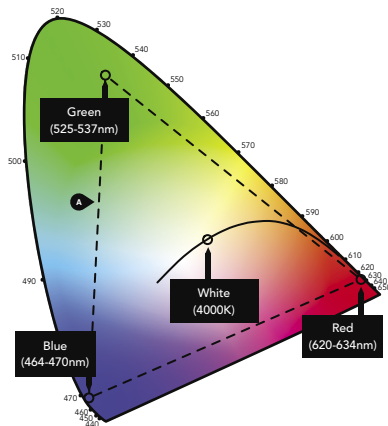
SCALING CHARTS

Shielding	Multiplier
MBFB	0.82
MHCB	0.42
MFCA	0.95
MGVB	0.88

These tables can be used to approximate the lumen values at different Kelvin temperatures and Color Rendering Index. Power consumption would stay the same.

MAINSTREAM DYNAMIC WITH NTUNE TECHNOLOGY

RGBW GAMUT AND RANGE



A RGBW Range within triangle formed by RGB

- 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:

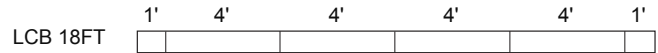
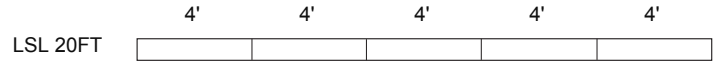
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 21FT row would have (5) 4FT segments and (1) 1FT segment located at one end.

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:

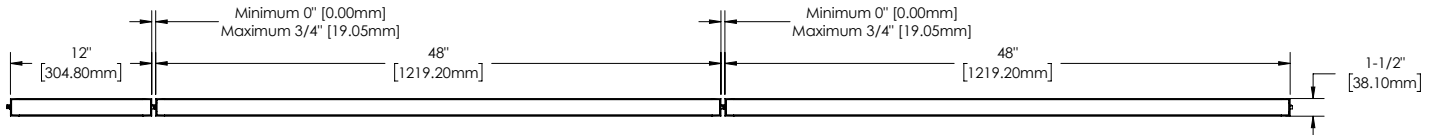
This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 18FT row would have (2) 1FT segments (one at each end) and (4) 4FT intermediate segments located in between.



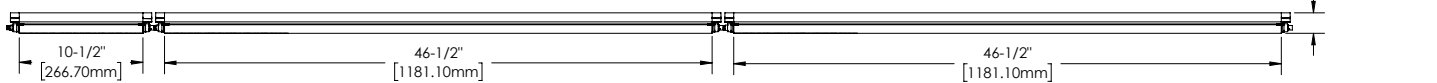
DRAWING DETAILS

MKS101 Series Typical End-To-End Run Configuration

TOP VIEW

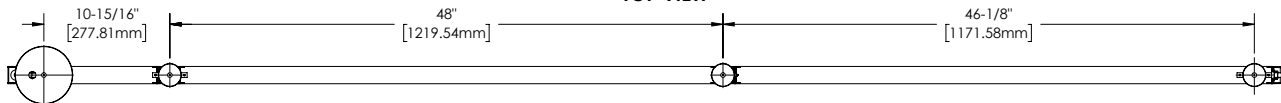


SIDE VIEW

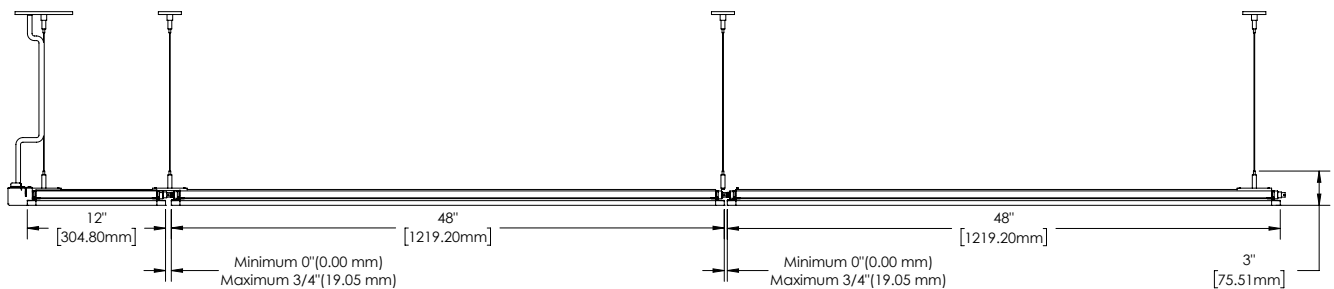


MKS101 Cable Suspension Typical End-To-End Run Configuration

TOP VIEW

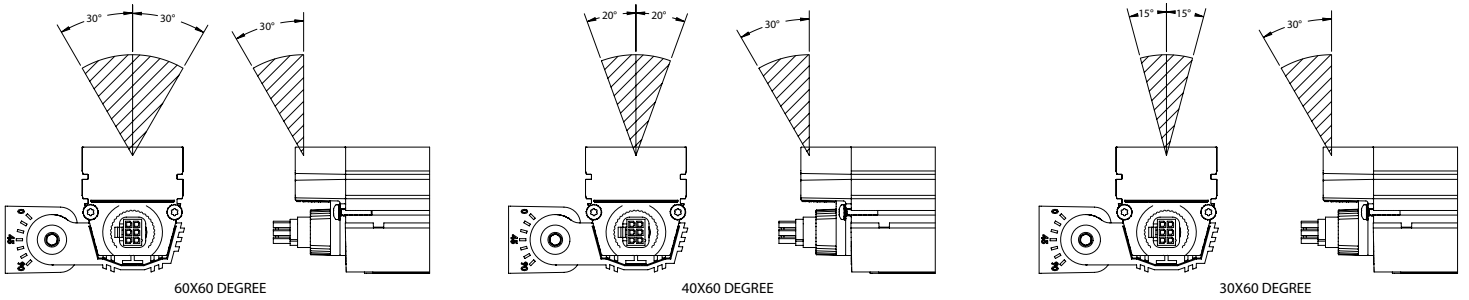
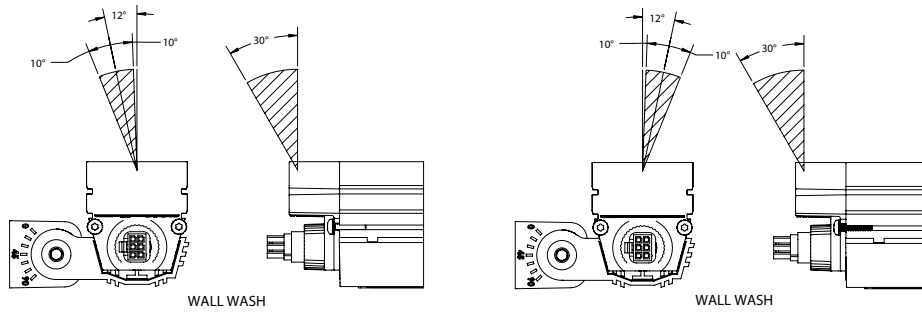
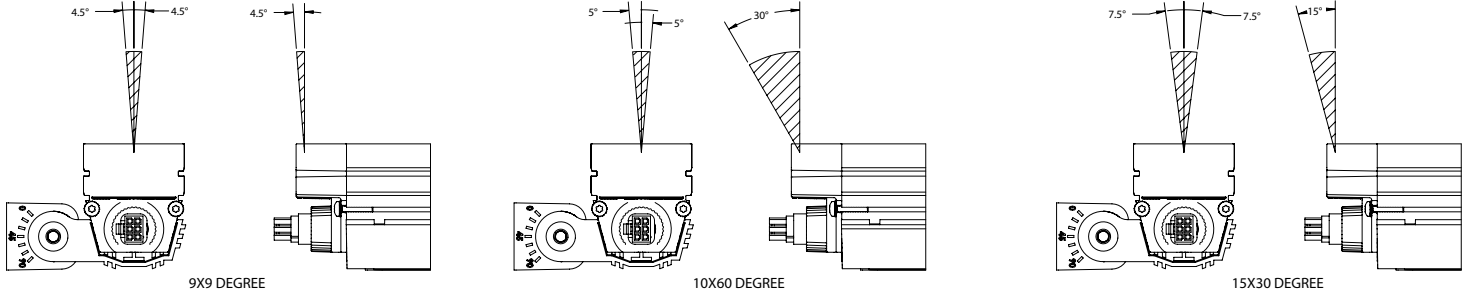


FRONT VIEW



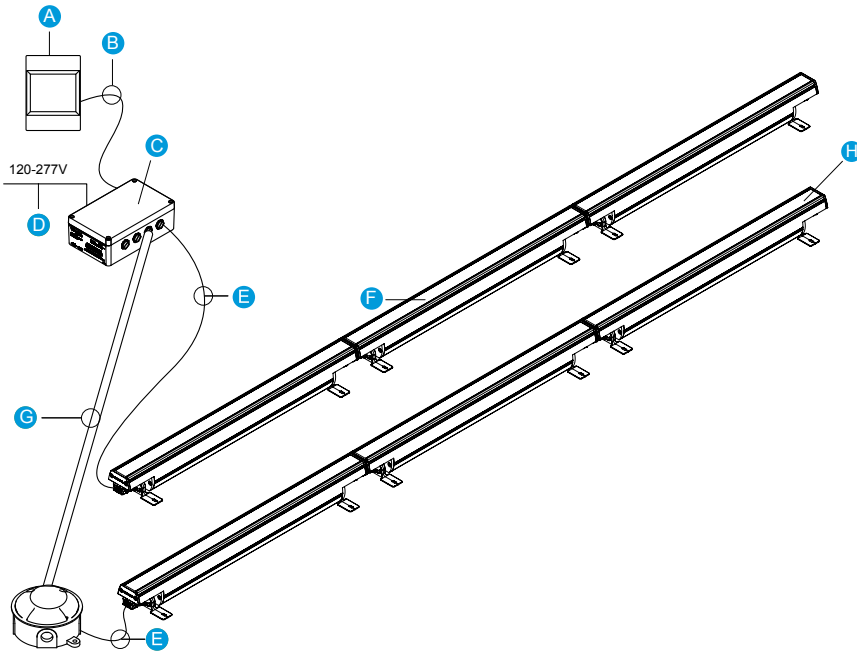
DISTRIBUTION

Note: All are shown with M100ADJH2 mount

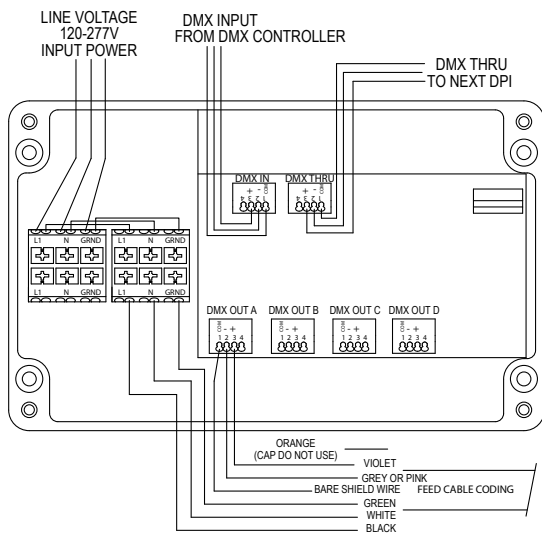


BASIC SYSTEM WIRING INFORMATION WITH DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MKS501 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.



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.

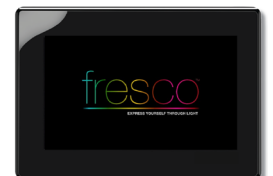
Note: No more than four DPI Boxes, in series, can be utilized between the DMX Controller and any luminaire.

- 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 MKS501 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** Consult Fixture Installation Instructions, for Luminaire Run Length Limits table.
- 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

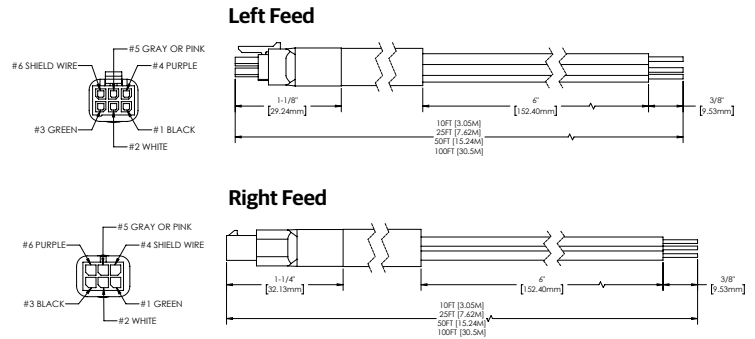
Feed Cables

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

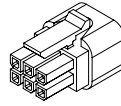
Model	Cord Color	DMX
MFCL10TL Left 10FT Feed Cable	WCRD White Cord BCRD Black Cord	DXP DMX Plug
MFCL25TL Left 25FT Feed Cable		NDXP Non-DMX Plug
MFCL50TL Left 50FT Feed Cable		
MFCL100TL Left 100FT Feed Cable		
MFCL10TR Right 10FT Feed Cable	WCRD White Cord BCRD Black Cord	DXP DMX Plug
MFCL25TR Right 25FT Feed Cable		NDXP Non-DMX Plug
MFCL50TR Right 50FT Feed Cable		
MFCL100TR Right 100FT Feed Cable		

Carries DMX or NON-DMX signal and 120-277 line voltage power to right end of first fixture in run.

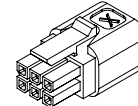
Supplied with termination/sealing cap.
Use one feed cable per run only.



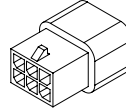
Left Dust Cap



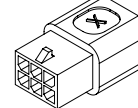
Left DMX Terminator Cap



Right Dust Cap



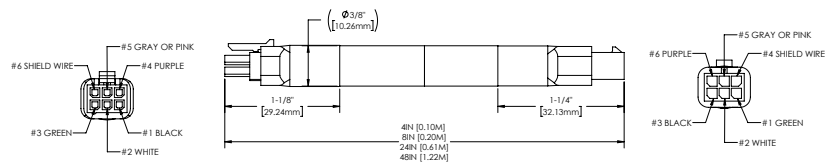
Right DMX Terminator Cap



Jumper Cable *Optional*

Model	Cord Color
MJCLM2 2FT Jumper Cable	WCRD White Cord
MJCLM4 4FT Jumper Cable	BCRD Black Cord
MJCLM4IN 4IN Jumper Cable	
MJCLM8IN 8IN Jumper Cable	

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



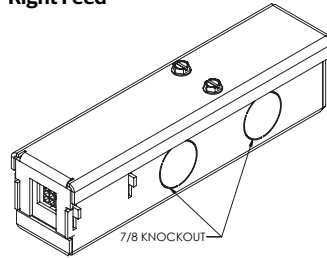
ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, *Optional*

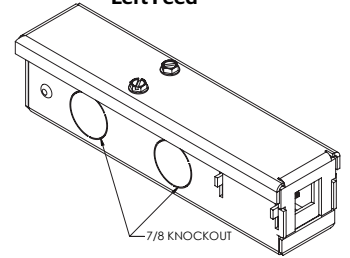
Model	Direct Distribution	Finish	DMX
M100BXL M100 Wire Splice Box Left	9X9DEG 9 x 9 Degrees	WTP White Textured	DXP DMX Plug
M100BXR M100 Wire Splice Box Right	10X60DEG 10 x 60 Degrees	BKT Black Textured	NDXP Non-DMX Plug
	15X30DEG 15 x 30 Degrees	SIT Silver Textured	
	30X60DEG 30 x 60 Degrees	RALTB RAL Color TBD	
	40X60DEG 40 x 60 Degrees		
	60X60DEG 60 x 60 Degrees		
	WW Wall Wash		

Replaces feed cable for areas where flexible cord cannot be used to bring input DMX or NON_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.*

Right Feed



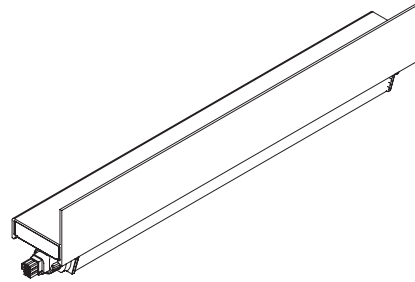
Left Feed



ACCESSORY OPTIONS (CONTINUED)

Glare Visor (Linear) *Optional*

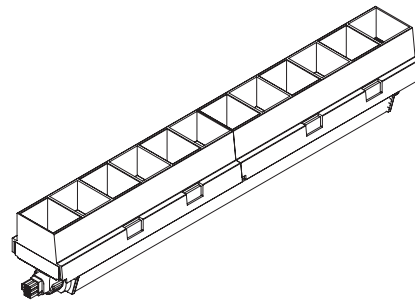
Model	Fixture Section
MGVB1 Glare Visor, Black	U1 1FT Length Unit U4 4FT Length Unit



Reference Accessory Details document for dimensions

Baffle (Linear) *Optional*

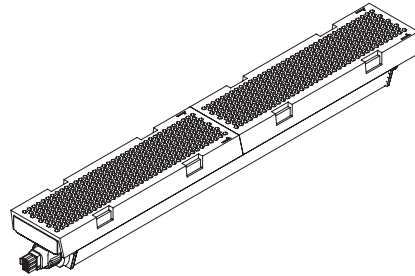
Model	Fixture Section
MBFB1 Baffle Linear Surface, Black	U1 1FT Length Unit U4 4FT Length Unit



Reference Accessory Details document for dimensions

Hexagonal Cell *Optional*

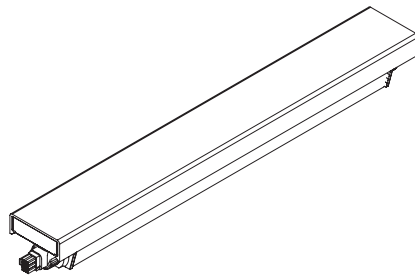
Model	Fixture Section
MHCB1 Hexagonal Cell Louver, Black	U1 1FT Length Unit U4 4FT Length Unit



Reference Accessory Details document for dimensions

Frosted Clear *Optional*

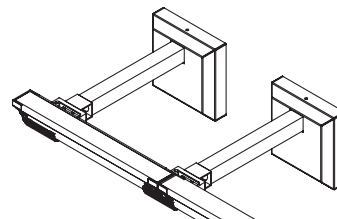
Model	Fixture Section
MFCA1 Frosted Clear Acrylic	U1 1FT Length Unit U4 4FT Length Unit



Reference Accessory Details document for dimensions

Cantilever Brackets *Optional*

Series	Finish
MCLB6 Cantilever Bracket 6" Projection	BKT Black Textured Paint
MCLB12 Cantilever Bracket 12" Projection	SIT Silver Textured Paint
MCLB18 Cantilever Bracket 18" Projection	WTP White Textured Paint
	RALTB RAL Paint Finish



Reference Accessory Details document for dimensions

SPECIFICATIONS

Voltage: 120 through 277v/60Hz

Distribution: 9° x 9°, 10° x 60°, 15° x 30°, 30° x 60°, 40° x 60°, 60° x 60°, Asymmetric

Size: 1.5 W x 1.75 H

Housing: Extruded aluminum snap together construction

Finish: Polyester powder coat painted finish. Natural stainless steel fasteners.

Lens Material: Extruded acrylic

Dominant Wavelengths: Red (623nm), Green (523nm), Blue (451nm)

LED Color Mix: 12 (4-in-1 LEDs) per 12 inches

Control System: Easyl or Fresco DMX512 controller

Ambient Temperature Ranges: -20° 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

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

Warranty: 5-year limited warranty. 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