



## HLC502

### Linear Cove

### Dynamic Color RGBW

#### HIGHLIGHTS

- Designed as low profile units to wash walls and ceilings with theatrical lighting
- One-piece extruded aluminum housing lending both high quality and longevity.
- IP66 rated per IEC60598
- Available in 2ft, 3ft, or 4ft lengths with wide open distribution, placing the light where it is required.
- DMX controllable with Remote Device Management (RDM) capability
- 3G vibration rated per ANSI C136.31



ARCHITAINMENT  
COLOR

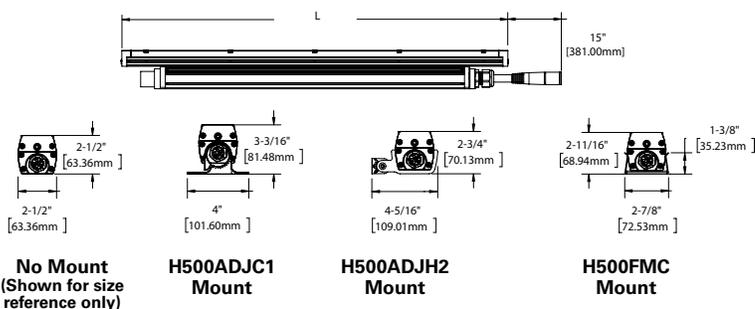


Buy American

#### Specifications

Model	Length	Weight
HLC502	25 - 1.8" (639mm)	3.5 lbs (1.59kg)
	37" (941mm)	4.0 lbs (1.81kg)
	48 - 7/8" (1242mm)	5.0 lbs (2.27kg)

#### DIMENSIONS



#### 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



**ORDERING INFORMATION** EXAMPLE: HLC502 LCB 2FT MSL2 650LMF ARTC RGBW MVOLT 120X120DEG H500ADJH2 CWM6 HVSR DARK FCCSL100D DMX BKT

Series*	Linear Plan*	Total Run Length*	Maximum Fixture Length*	LED Output*	Dynamic Feature*
HLC502 Hydrel Linear Cove 502	LCB Linear Center Balance	#FT <i>Total Run Length offered in 1FT increments starting at 2FT. See page 5 for maximum run lengths</i>	MSL2 2FT Section Length	650LMF 650 Nominal Lumens Per Foot	ARTC Architainment Color
	LLP Linear Longest Possible		MSL3 3FT Section Length		
	LSL Linear Same Length		MSL4 4FT Section Length	750LMF 750 Nominal Lumens Per Foot	
Color Temperature*	Voltage*	Distribution*	Mounting*	Mounting Accessories <b>Optional</b>	
RGBW Dynamic Color Red Green Blue White	MVOLT 120V-277V	120X120DEG 120x120 Degrees	H500ADJ1 Adjustable Mount Center Axis H500ADJ2 Adjustable Mount Side Hinge H500FMC Fixed Mount	CWM6 Cantilever Wall Mount 6" Projection CWM12 Cantilever Wall Mount 12" Projection CWM18 Cantilever Wall Mount 18" Projection CWML6 Cantilever Wall Mount Large 6" Projection CWML12 Cantilever Wall Mount Large 12" Projection CWML18 Cantilever Wall Mount Large 18" Projection	Note: Must have H500ADJH2 mounting selected
Extra Shielding <b>Optional</b>	Dimming*	Cord Set Length*	Control Input*	Finish*	
HBFC Baffle Linear Cove (Matte Black Finish) HVSR Glare Visor Linear Cove (Finish to match housing)	DARK Constant Current, Dimming to <1%	FCCSL100D 100FT Feed Cable Wet Location with DMX Plug FCCSL10D 10FT Feed Cable Wet Location with DMX Plug FCCSL25D 25FT Feed Cable Wet Location DMX Plug FCCSL50D 50FT Feed Cable Wet Location DMX Plug NOFCL No Power Feed Cable	DMX DMX	BKT Black Textured Paint SIT Silver Textured Paint WHT White Textured Paint CF Custom Painted Finish RALTB RAL Paint Finish RALTB for pricing only, replace with applicable RAL call out when ready to order. See the Architectural RAL Color brochure for available options.	

Note: \* is a required field

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
Jumper Cable	See page 7
Liquid-Tight Cord Grip	See page 8
Glare Visor	See page 7
Baffle	See page 7
Brackets	See page 8





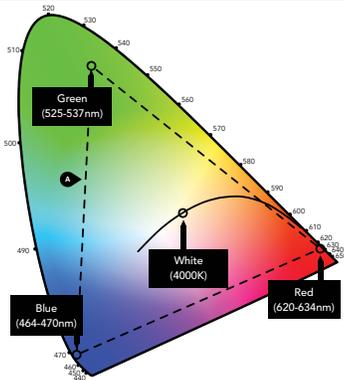
**PERFORMANCE DATA**

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.

IES data is available at [www.winonlighting.com](http://www.winonlighting.com). Refer to website for the latest IES file updates.

**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.

Expected Life: L70 @ 120,000 hours



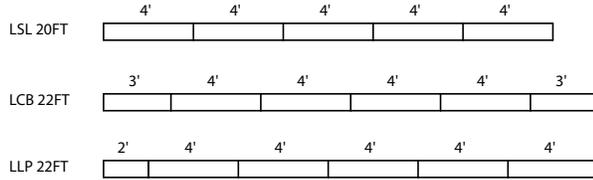


### Linear Plan

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

#### LSL Linear 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).



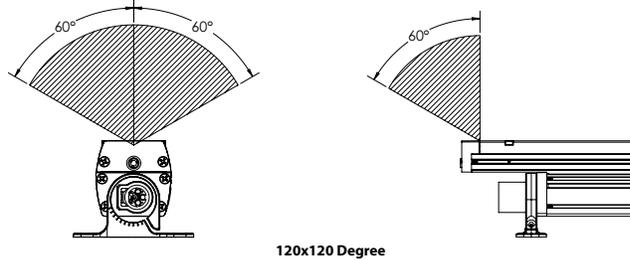
#### LCB Linear Center Balanced:

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.

#### LLP Linear Longest 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.

### DISTRIBUTION

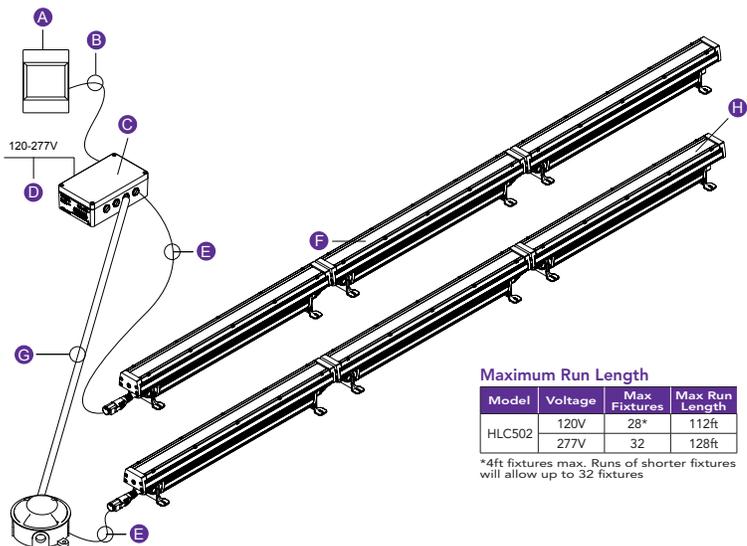


120x120 Degree



### 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 HLC502 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.

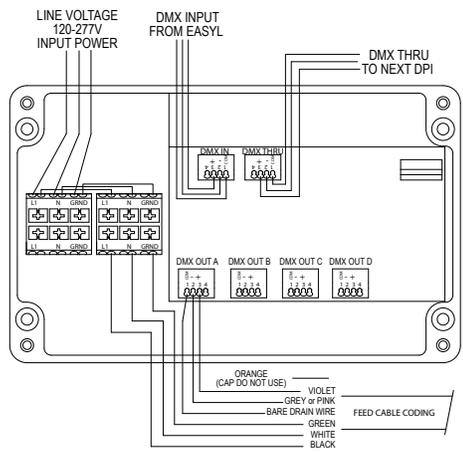


**Maximum Run Length**

Model	Voltage	Max Fixtures	Max Run Length
HLC502	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:
  - EasyL
    - 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 HLC502 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.

#### EasyL Controller    Fresco Control System





**ACCESSORY OPTIONS**

**Fresco Control System**

Series	Model	Options	Finish
FCS Fresco Control System	7TSN 7" touchscreen with nLight port	(blank) X nlight only 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)**

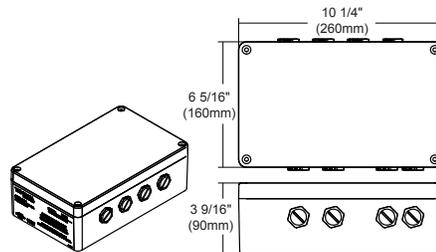
Series	Voltage	Finish
EZSOLO Easy! Solo	MVOLT 120V-277V VAC, 50/60 Hz	BK Black
EZTOUCH Easy! Touch		WH White
EZPRO Easy! Pro		



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

**DMX / Power Integrator**

Model
DPI4WHYD DPI4WHYD- 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)**

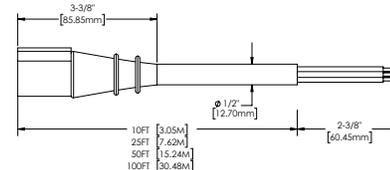
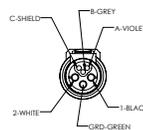
**\*Minimum of one feed cable, left or right, required per installation**

Model	Description
FCCSL100D	100FT Feed Cable Wet Location with DMX Plug
FCCSL10D	10FT Feed Cable Wet Location with DMX Plug
FCCSL25D	25FT Feed Cable Wet Location DMX Plug
FCCSL50D	50FT Feed Cable Wet Location DMX Plug
NOFCL	No Power Feed Cable
FCCSL100N	100FT Feed Cable Wet Location Non DMX Plug
FCCSL10N	10FT Feed Cable Wet Location Non DMX Plug
FCCSL25N	25FT Feed Cable Wet Location Non DMX Plug
FCCSL50N	50FT Feed Cable Wet Location Non DMX Plug

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.\*

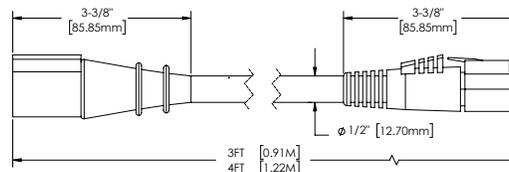




**ACCESSORY OPTIONS (CONTINUED)**

**Jumper Cable EXTERIOR (Linear) \*Optional\***

Standard fixture is supplied with 15" cable to connect from one fixture to the other 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 NON-DMX signal and 120- 277 line voltage power between two units in a run.

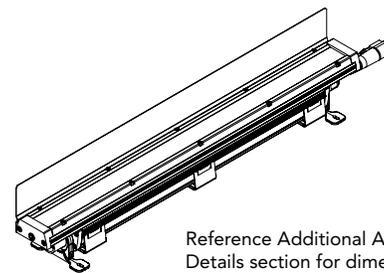


**Model**

- HJCLW3L 3FT Jumper Cable Exterior Location (Black)
- HJCLW4L 4FT Jumper Cable Exterior Location (Black)

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

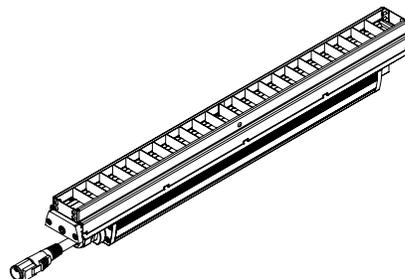
Model	Fixture Section	Finish
HVSRC5 Glare Visor Linear Cove	U2 2FT Length Unit	BKT Black Textured Paint
	U3 3FT Length Unit	SIT Silver Textured Paint
	U4 4FT Length Unit	WHT White Textured Paint
		RALTB0 RAL Paint Finish
		CF Custom Painted Finish



Reference Additional Accessory Details section for dimensions

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

Model	Fixture Section
HBFC5 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

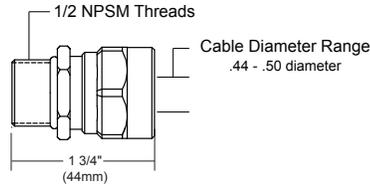


**ACCESSORY OPTIONS (CONTINUED)**

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

**Model**

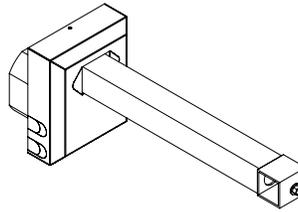
HCORDGP2 Liquid-Tight Cord Grip  
(Use to secure and seal feed cord to DPI Box)



Connector to secures and seal feed cord to DPI Box.

**Brackets \*Optional\***

Series	Finish
CWM12 Cantilever Wall Mount 12" Projection	BKT Black Textured Paint SIT Silver Textured Paint
CWM18 Cantilever Wall Mount 18" Projection	WHT White Textured Paint RAL TBD RAL Paint Finish
CWM6 Cantilever Wall Mount 6" Projection	CF Custom Painted Finish

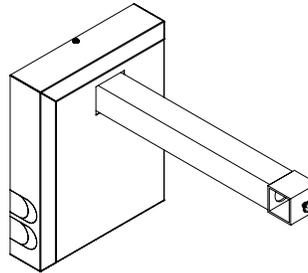


For use with recessed or remote junction box locations. Junction box (by others).

Reference Additional Accessory Details section for dimensions

**Brackets \*Optional\***

Series	Finish
CWML12 Cantilever Wall Mount Large 12" projection	BKT Black Textured Paint SIT Silver Textured Paint
CWML18 Cantilever Wall Mount Large 18" projection	WHT White Textured Paint RAL TBD RAL Paint Finish
CWML6 Cantilever Wall Mount Large 6" projection	CF Custom Painted Finish



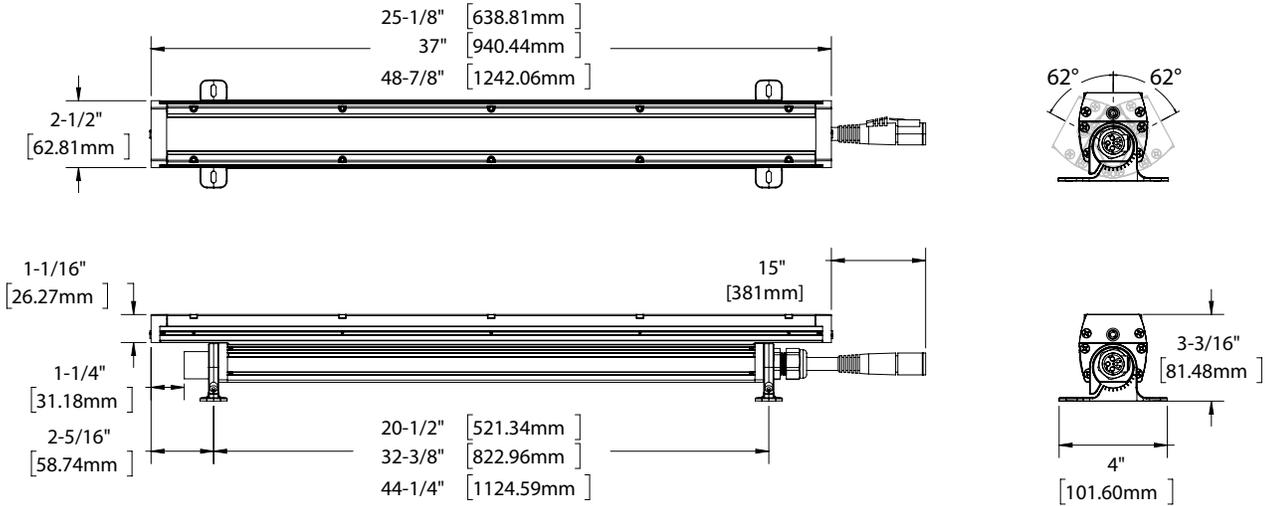
For use with surface mount junction box (by others) and surface mounted conduit (by others).

Reference Additional Accessory Details section for dimensions

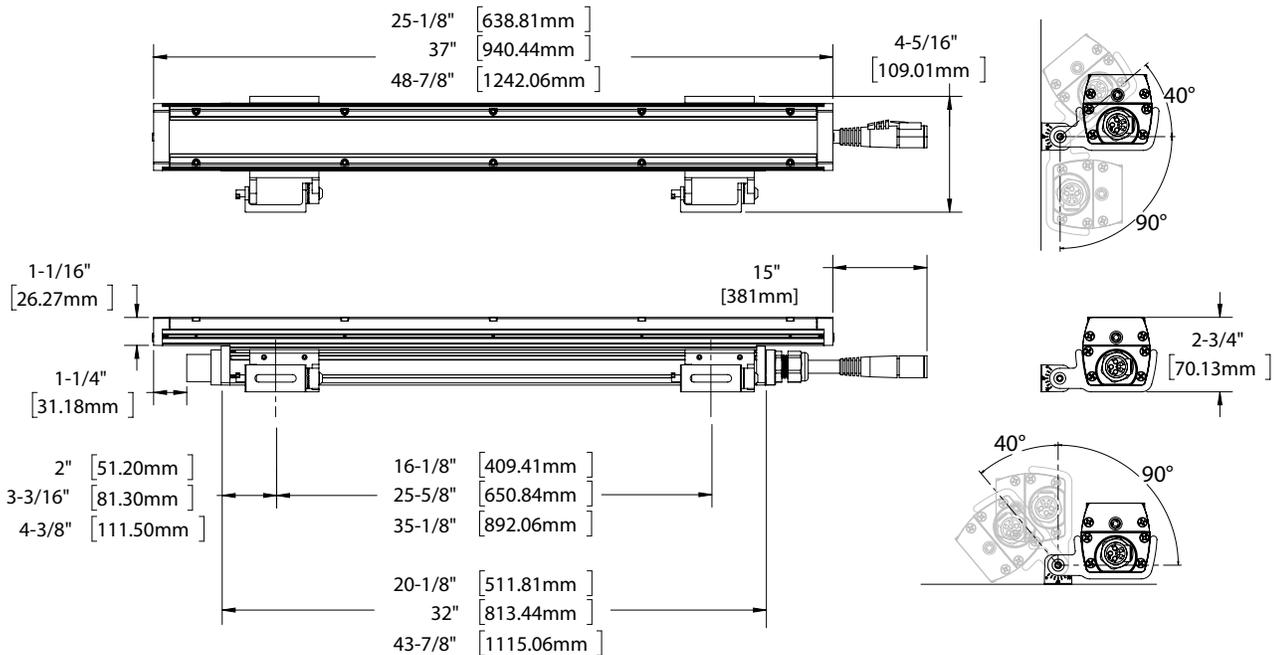


**DIMENSIONS & MOUNTING**

**H500ADJC1 - Adjustable Mount Center Axis**



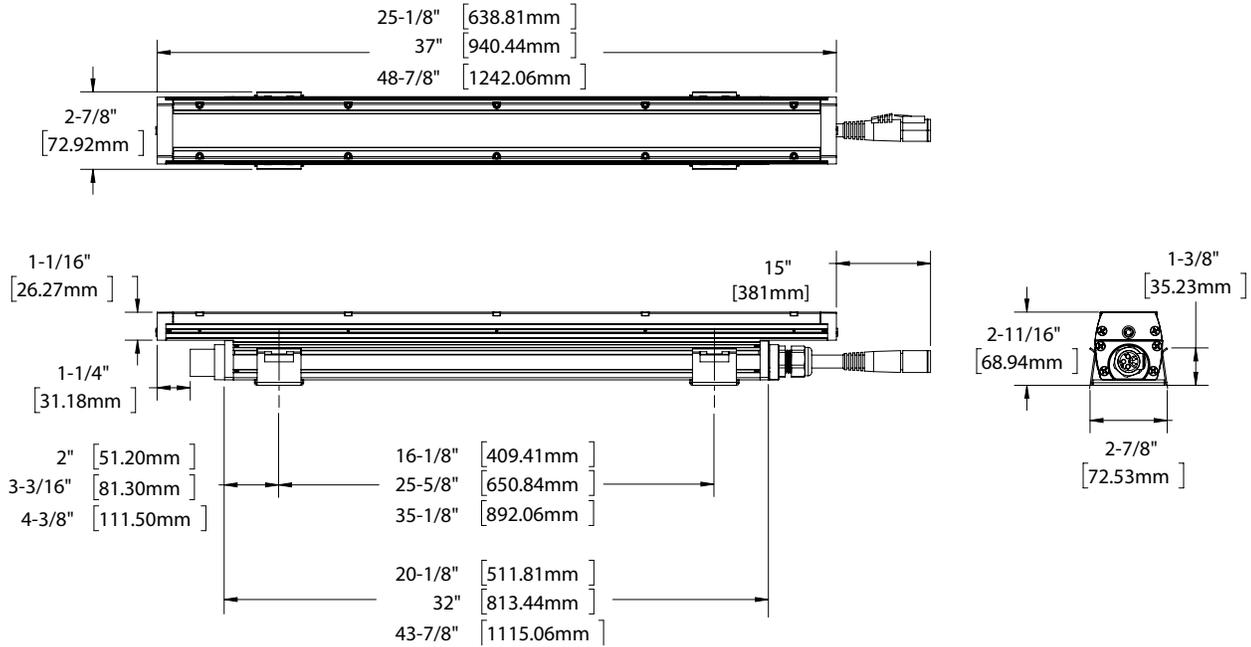
**H500ADJH2 - Adjustable Mount Side Hinge**





**DIMENSIONS & MOUNTING**

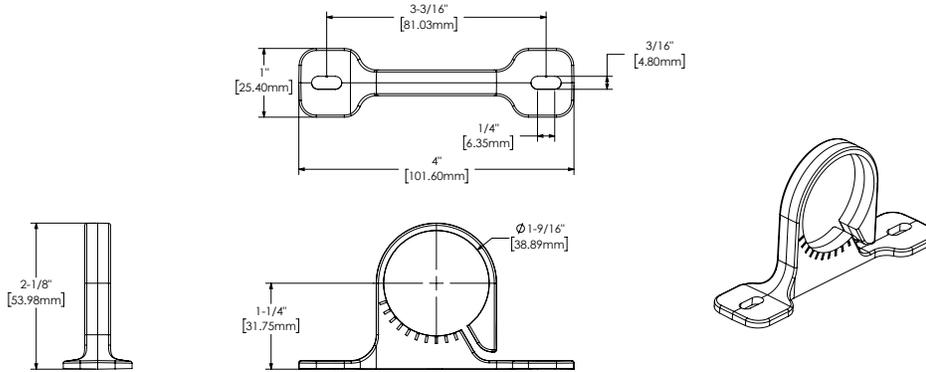
**HM500FMC - Fixed Mount**



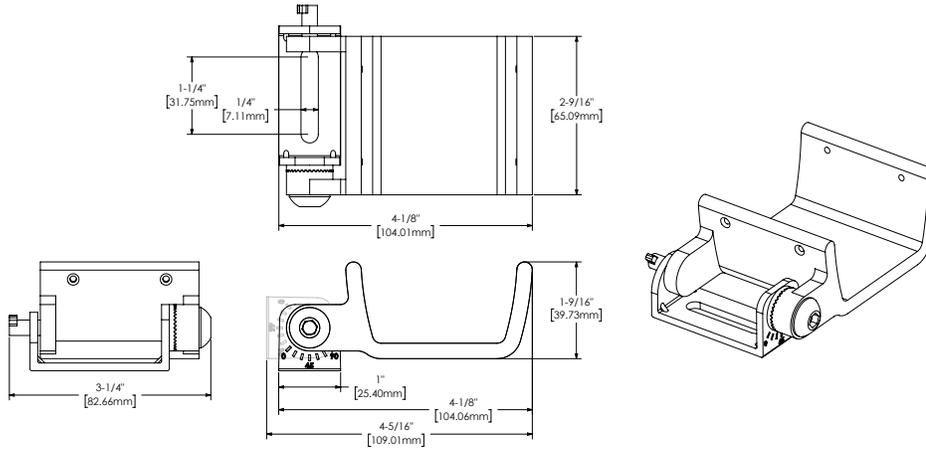


**DIMENSIONS & MOUNTING (CONTINUED)**

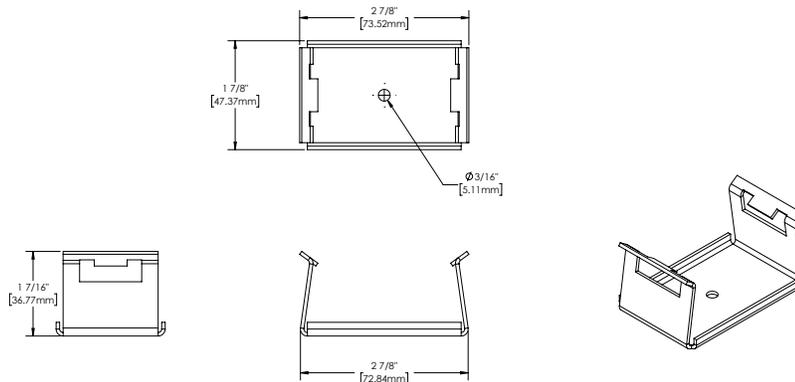
**H500ADJC1 - Adjustable Mount Center Axis Detail**



**H500ADJH2 - Adjustable Mount Side Hinge Detail**



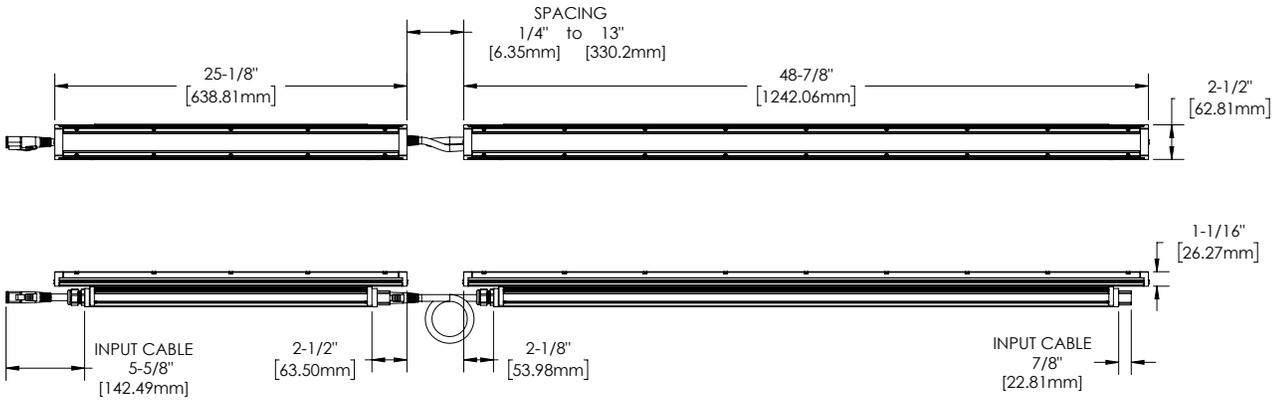
**H500FMC - Fixed Mount Detail**





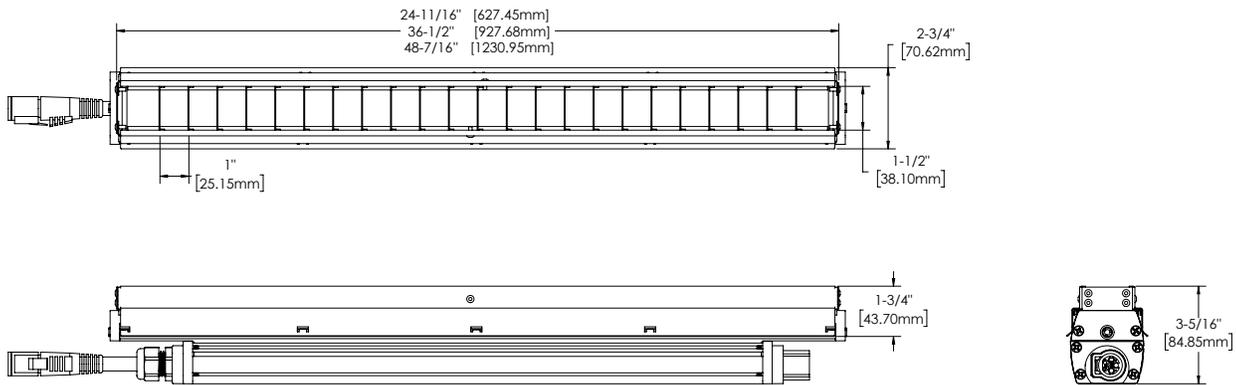
**DIMENSIONS & MOUNTING (CONTINUED)**

**HLC502 Series Typical End-To-End Run Configuration**



**ADDITIONAL ACCESSORY DETAILS**

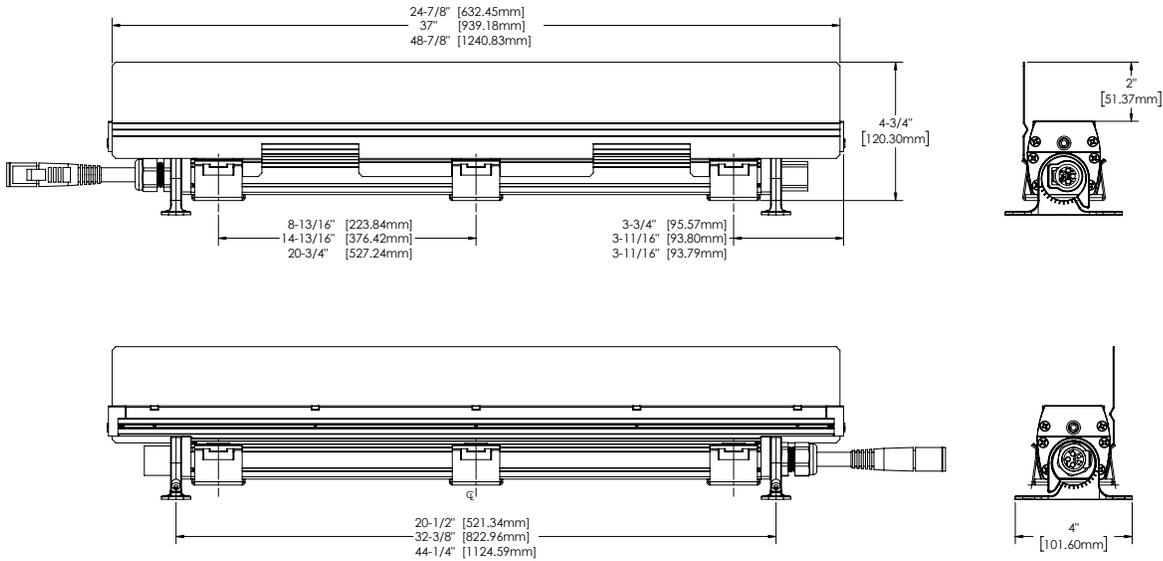
**Baffle Linear Cove**



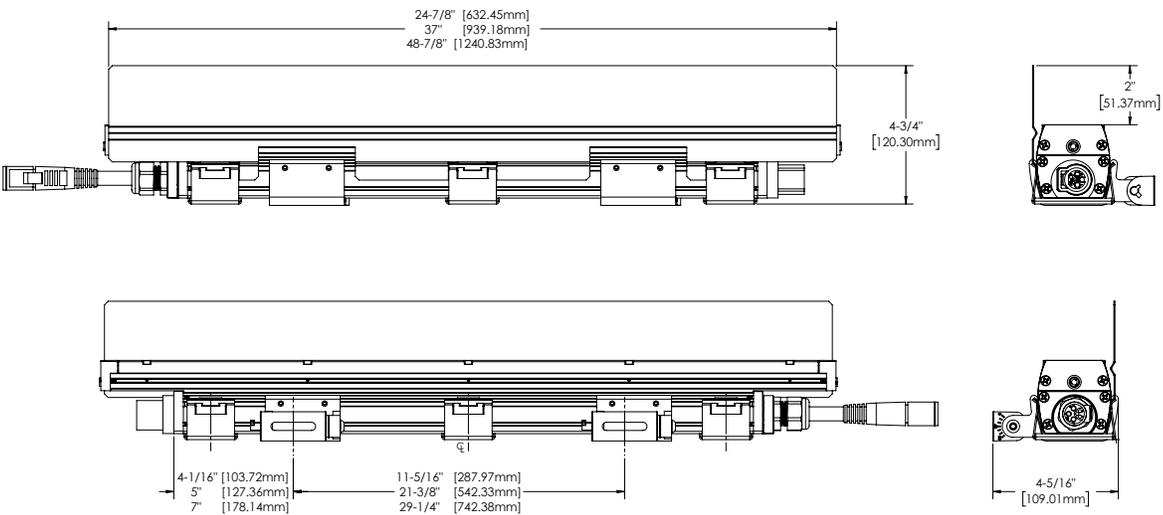


**ADDITIONAL ACCESSORY DETAILS (CONTINUED)**

**Glare Visor with H500ADJC1 Mount**



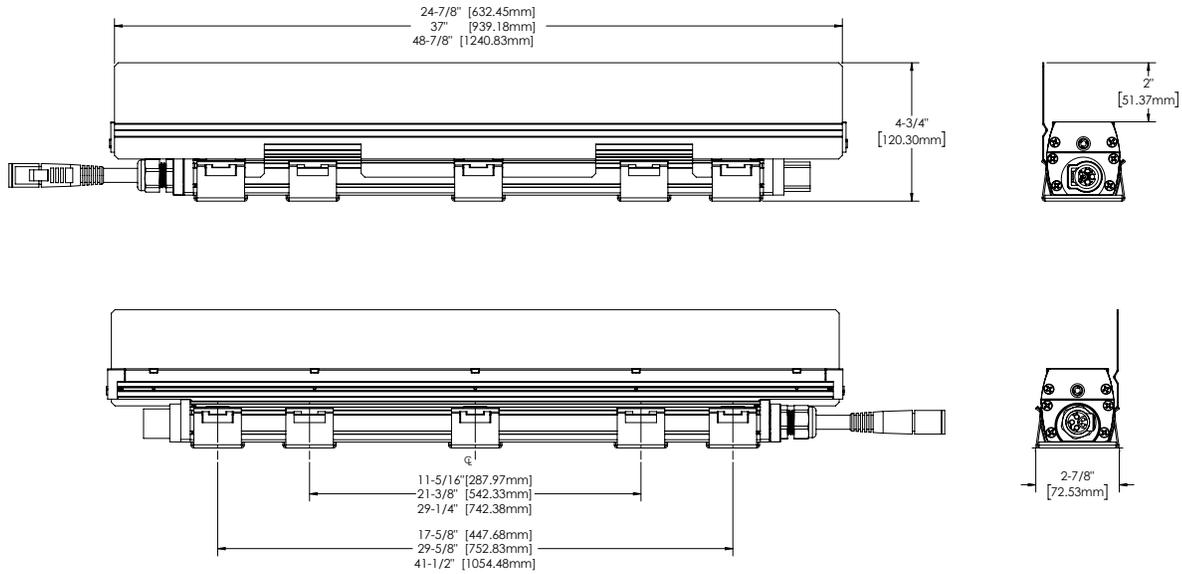
**Glare Visor with H500ADJH2 Mount**



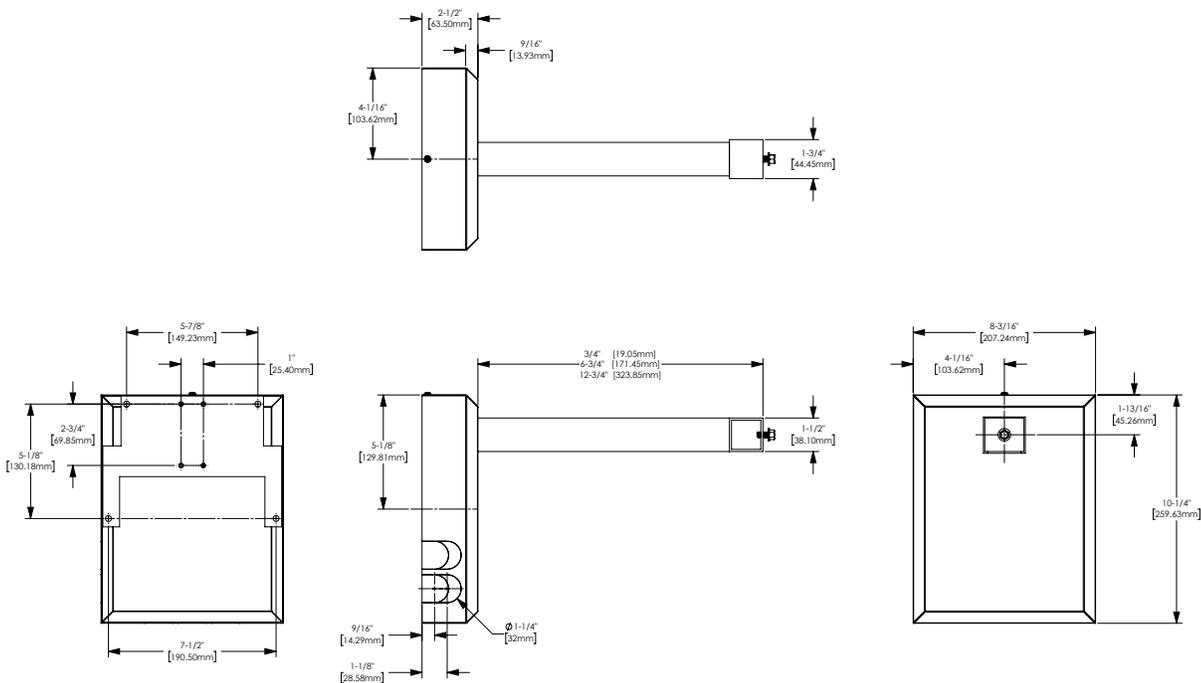


ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Glare Visor with H500FMC Mount



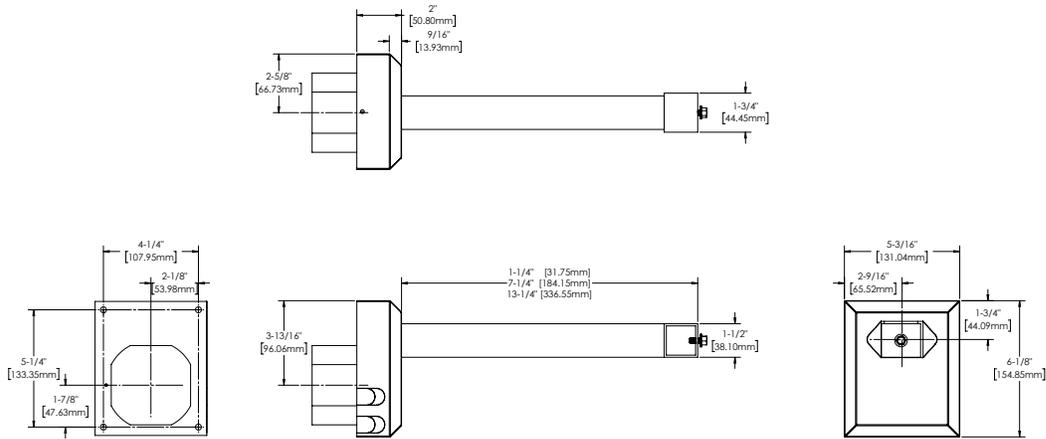
Cantilever Wall Mount Bracket Large Detail



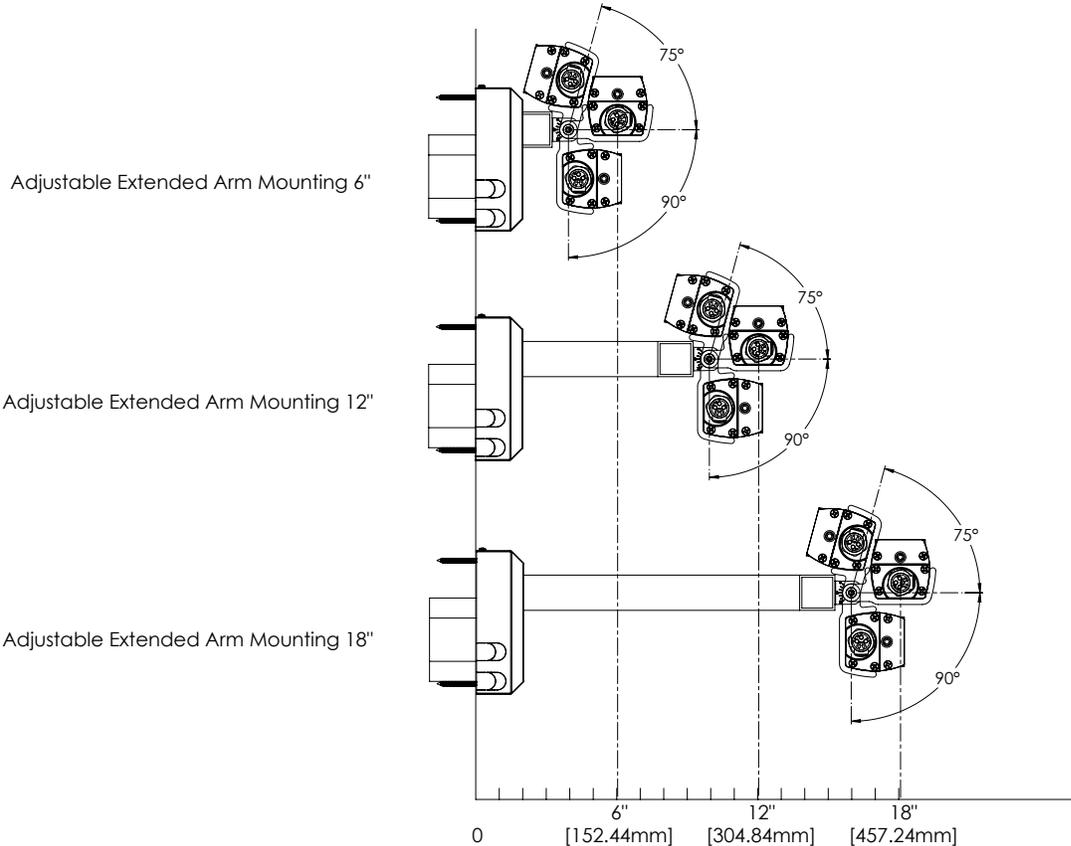


**ADDITIONAL ACCESSORY DETAILS (CONTINUED)**

**Cantilever Wall Mount Bracket Detail**



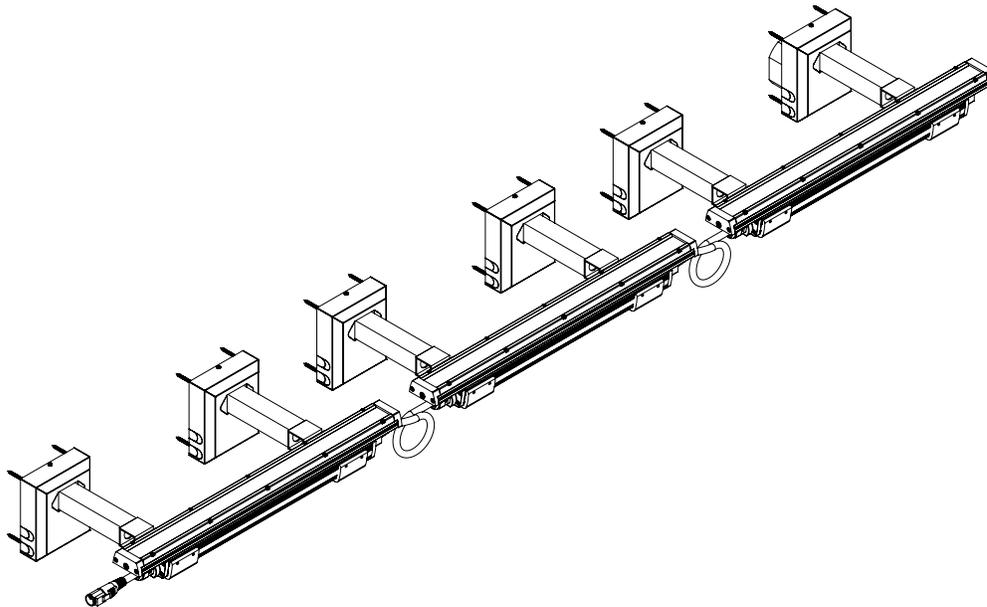
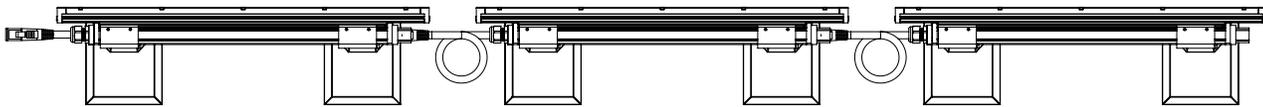
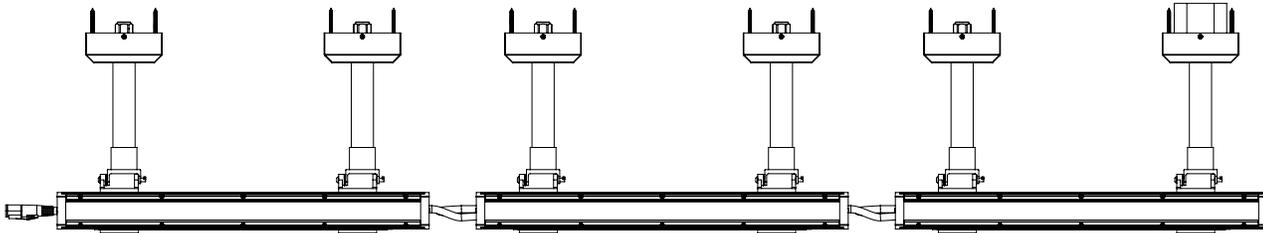
**Cantilever Wall Mount Bracket Detail with H500ADJH2 and Fixture**





**ADDITIONAL ACCESSORY DETAILS (CONTINUED)**

**HLC502 Series Typical End-To-End Run Configuration with Cantilever Wall Mount  
(Showing 6-foot run of (3) 2-foot units with CWM12 wall mount accessory)**





**SPECIFICATIONS & FEATURES**

**Voltage:** 120 through 277v 50/60Hz

**Distribution:** 120° x 120°

**Size:** 2.50 W x 2.50 H

**Housing:** Extruded aluminum one-piece construction with fasteners

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

**Ambient Temperature Ranges:** -40° to +50°C

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

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

**Vibration:** 3G vibration rated per ANSI C136.31

**Buy American:** Hydrel products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT. Please refer to [www.acuitybrands.com/buy-america](http://www.acuitybrands.com/buy-america)

**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 (1.59kg) / 36" - 4.0 lbs (1.81kg) / 48" - 5.0 lbs (2.27kg)

**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.