

# ColourLine Lazer

Part of our **LAZER series**



1 Module (1M)  
(36 LEDs)  
shown w/ SPH and optical lens

<b>Date:</b>	<b>Approved:</b>
<b>Type:</b>	
<b>Luminaire:</b>	
<b>Project:</b>	

**ColourLine Lazer** (CLZF) is part of our Lazer Series, featuring high-performance, super optic luminaires with long-casting grazer, wall wash, flood and spot flood capabilities. It's based on our ColourLine RGBW technology that utilizes advanced RDM-DMX protocols combined with a unique optical system to offer one of the most impressive long-throw RGBW lighting solutions in the market. Lazer is equipped with an integrated yoke mount and 180° incremental adjustment setting to direct luminaire lighting. The yoke mount system supports a 1, 2 or 3-module unit. Typical applications include large buildings, arenas, towers, monuments, bridges, tunnels, and more.

## SPECIFICATIONS

<b>color temperature</b>	<b>RGBW / RGBA / TUNABLE WHITE (using RGBW LEDs)</b>
<b>PHYSICAL</b>	
<b>beam spread</b>	3°, 5°x 50°, 10°, 10°x 40°, 30°, 60° (full beam angle)
<b>LEDs</b>	36 LEDs per module
<b>lengths/dimensions</b>	26"W x 9.63"H x 7.25"D
<b>weight</b>	24 lbs (1M), 49 lbs (2M), 70 lbs (3M)
<b>housing</b>	marine grade, corrosion resistant, low copper, solid die-cast aluminum, extruded 6061 body with captive stainless steel fasteners
<b>lens</b>	anti-reflective-clear, tempered glass w/silicone gasketing
<b>mounting</b>	standard mounting is an integrated steel yoke system, 3 yoke sizes to support the 1, 2 and 3 Module units
<b>ingress protection</b>	IP66 rated for dry, damp or wet locations
<b>impact resistance</b>	IK08 lens impact rating, IK10 w/ Rock Guard (RG)
<b>luminaire connections</b>	daisy chain fixtures with male/female twist & lock, 6-pin, IP68 rated connector cables

## PERFORMANCE

<b>lumen output [ all on ]</b>	4650 lm (RGBW - full on)
<b>maximum delivered intensity</b>	777,764 cd @ 3 degrees* (RGBW Full On) *native optical beam
<b>lumen maintenance</b>	L70 > 70,000 hours
<b>operating temperature</b>	-40°F to 122°F (-40°C to 50°C)
<b>protocols</b>	DMX 512, RDM (ANSI E1.20)
<b>ColorClone</b>	<i>ColourClone</i> manufacturing process uses robotic systems to provide step-1 like consistency by calibrating every luminaire to the same exact X, Y, chromaticity coordinates
<b>ColourSoft</b>	<i>Colour Soft</i> embedded firmware enables 16-bit resolution using only 8-bits of data to enhance the low trim curve for no-flicker at the slowest transition speeds.
<b>ColourMode</b>	<i>ColourMode (CM)</i> RGBW and tunable white in one luminaire using 6 DMX channels. Channels 1-4 - RGBW : Channels 5-6** - CCT tuning (channel 5 = intensity and channel 6 = CCT) **Tunable White mode must use the entire luminaire as one unit.
<b>warranty</b>	5-year limited warranty

## ELECTRICAL

<b>input voltage</b>	Universal 120 - 277 VAC
<b>power supply</b>	integral Class II, electronic high-power factor 99% @ 120V
<b>controls</b>	SSL ColourSelect Controller, 3rd party DMX 512, RDM standard based control system (ANSI E1.20)
<b>certification</b>	ETL / cETL, FCC Part 15
<b>standards</b>	UL-Class I
<b>power consumption</b>	100W @ 120V (per module)

# ColourLine Lazer



## PART NUMBER

CLZF		UNV		BK		
MODEL	MODULE	VOLTAGE	MODE	FINISH	OPTICS	INSTALLED ACCESSORIES
<b>CLZF</b> ColourLine Lazer	<b>1M</b> Single Module <b>2M</b> Dual Module <sup>†</sup> <b>3M</b> Three Module <sup>†</sup>	<b>UNV</b> 120V–277V	<b>RGBW</b> RGBW <b>RGBA</b> RGBA (Amber) <b>RGBW-TW</b> RGBW-TW (Tuneable White) CCT 2200K–6000K Uses RGBW LEDs	<b>BK</b> Black	<b>3</b> 3° Extra Narrow Spot <b>550*</b> 5°x 50° Narrow Spot <b>10*</b> 10° Narrow Flood <b>1040*</b> 10°x 40° Mid Flood <b>30*</b> 30° Wide Flood <b>60*</b> 60° Full Flood	<b>SPH</b> Spread Lens Holder <b>FV</b> Full Visor <b>HV</b> Half Visor <b>LVR</b> Louver <b>RG</b> Rock Guard
					* Requires SPH accessory	

<sup>†</sup> Includes wiring and connections, ready to install as a working unit.

## Cable Accessories (order separately)

**REQUIRED:** Each run requires a Starter Cable and Terminator Cap.

_____ <b>SC10CLZ</b> 10 ft. Starter Connection Cord	_____ <b>TCAPDCLZ</b> Data Terminator Cap	_____ <b>EC120CLZ</b> 120 in. Extension Cord
_____ <b>SC25CLZ</b> 25 ft. Starter Connection Cord	_____ <b>EC24CLZ</b> 24 in. Extension Cord	_____ <b>EC240CLZ</b> 240 in. Extension Cord
_____ <b>SC50CLZ</b> 50 ft. Starter Connection Cord	_____ <b>EC60CLZ</b> 60 in. Extension Cord	

## Control Components (Indicate the quantity needed for each item.)

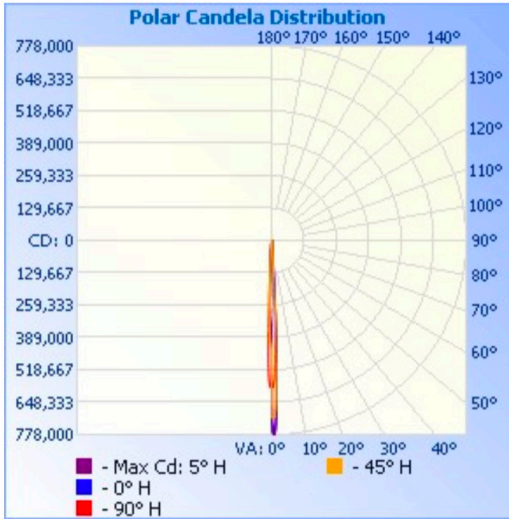
Controller Data Cables/DMX listed are exterior rated.  
(Belden 3105A or equivalent) CD cables have male XLR at one end.

_____ <b>PHAROS TPS-5-B</b> 5" Designer Touch Panel Station	_____ <b>DE3BK(WH)</b> Nicolaudie STICK DE-3 Black or White Wall Mount Controller w/color dial
_____ <b>PHAROS XPC1</b> Expert Controller; 512 channels of eDMX/DMX	_____ <b>CW4-WH</b> Nicolaudie STICK White Touch Screen with Internal WiFi
_____ <b>PHAROS XPC2</b> Expert Controller; 1024 channels of eDMX/DMX	_____ <b>GA2WH(BK)</b> Nicolaudie STICK-GA2 White or Black Wall Mount Controller
_____ <b>PHAROS XPT-5-B</b> Expert Touch Panel; 5" Display in Black	_____ <b>DXC-25</b> 25 foot DMX cable
_____ <b>PHAROS TPC-BB</b> Touch Panel Controller - Black on Black (512 Channels EDMX)	_____ <b>DXC-50</b> 50 foot DMX cable
_____ <b>PHAROS EXT</b> Extension for TPC Connectivity	_____ <b>DXC-100</b> 100 foot DMX cable
_____ <b>PHAROS LPC1</b> Lighting Playback Controller 1 (512 channels DMX/eDMX)	_____ <b>CD-10</b> 10 foot controller data cable (for CSC only)
_____ <b>PHAROS LPC2</b> Lighting Playback Controller 2 (1,024 channels DMX/eDMX)	_____ <b>CD-25</b> 25 foot controller data cable (for CSC only)
_____ <b>PDX2</b> Power Data Wiring Box (exterior rated)	_____ <b>CD-50</b> 50 foot controller data cable (for CSC only)
_____ <b>PDX-RDS2</b> Power Data Wiring Box w/2-port splitter	_____ <b>CD-100</b> 100 foot controller data cable (for CSC only)
_____ <b>PDX-RDS4</b> Power Data Wiring Box w/4-port splitter	_____ <b>MV 5900</b> Multiverse Show Baby DMX Wireless Bridge (Indoor)
_____ <b>SCSC-2WH (2BK)</b> White or Black Wall Mount ColourSelect Controller (2 universe)	_____ <b>7400-5707M</b> Show DMX Vero DMX Wireless Bridge (Exterior)
_____ <b>CSC-E</b> ColourSelect Controller (2 universe)	

Controller Data Cables/DMX Cables listed are exterior rated cables.  
(Belden 3105A or equivalent) CD-XX cables have male XLR at one end.



## PHOTOMETRIC DATA



Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	65.8%	3,059.9	6.4	6.7
Beam (50%):	36.8%	1,709.3	3.7	3.4
Total:	99.7%	4,638.8		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	4,123.0	88.7%
0-40	4,279.6	92%
0-60	4,528.7	97.4%
60-90	122.0	2.6%
70-100	50.2	1.1%
90-120	0	0%
0-90	4,650.8	100%
90-180	0	0%
0-180	4,650.8	100%

Illuminance at a Distance			
	Center Beam fc	Beam Width	
125.0ft	<b>36.5 fc</b>	<b>7.3 ft</b>	<b>8.0 ft</b>
250.0ft	<b>9.13 fc</b>	<b>14.6 ft</b>	<b>16.0 ft</b>
375.0ft	<b>4.06 fc</b>	<b>21.9 ft</b>	<b>24.0 ft</b>
500.0ft	<b>2.28 fc</b>	<b>29.3 ft</b>	<b>32.0 ft</b>
625.0ft	<b>1.46 fc</b>	<b>36.6 ft</b>	<b>40.0 ft</b>
750.0ft	<b>1.01 fc</b>	<b>43.9 ft</b>	<b>48.0 ft</b>

■ Vert. Spread: 3.4°  
■ Horiz. Spread: 3.7°



RGBW supports up to 4.6 billion colors available to use with ColourLine Lazer.

Like all ColourLine products any controllers that support the latest ESTA RDM and ACN standards will allow optimal control of the huge RGBW color spectrum. Regardless of the surface color you're casting light across, you'll be able to adjust color to capture your specific brand colors or add unique settings for subtle or intense color-changing hues.



Amber is used in place of white in the RGBA color gamut. Adjusting to the lighter color spectrum adds warm tones of amber.

As subjective as color selection is, using amber for a more chromatically warmer color palette allows for a broader yellow color spectrum. The warm rich colors create a more inviting setting for night lighting applications. RGB alone will produce white and yellow but in a smaller color spectrum.



The addition of Tuneable White with RGBW-TW makes up a robust all-in-one luminaire.

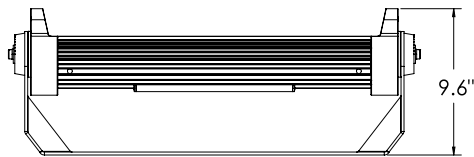
Having an all-in-one fixture means full-color lighting control. The white Correlated Color Temperature (CCT) ranges from 2200K- 6000K. The RGBW still offers 4.6 billion colors. You can switch between full color and white CCT with any controllers that support the latest ESTA RDM and ACN standards.

# Dimensions

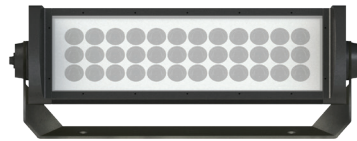
## ColourLine Lazer

### SINGLE MODULE FIXTURE (1M)

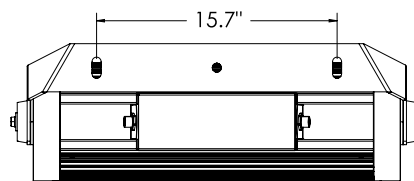
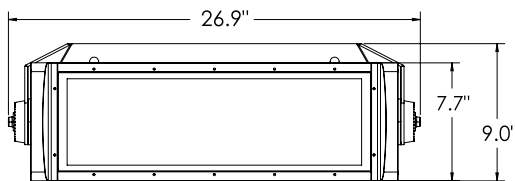
overall length	26" L
overall height	9.63" H
overall depth (1M)	7.25" D



Single Module  
24 lbs (1M)



Shown with  
Spread Lens Holder **SPH**  
Required for: 5°x50°, 10°, 10°x40°, 30°, 60°

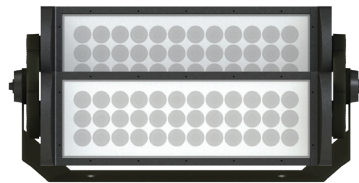


### MULTIPLE MODULE FIXTURES

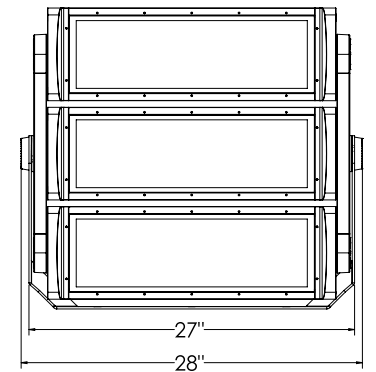
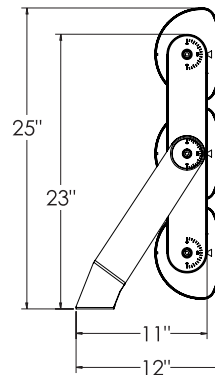
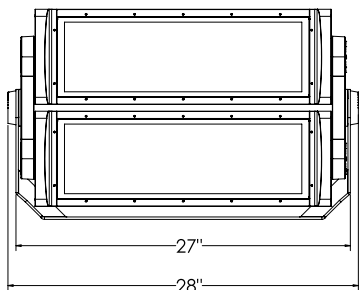
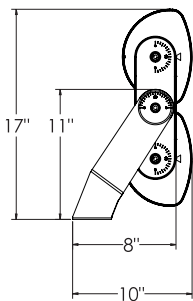
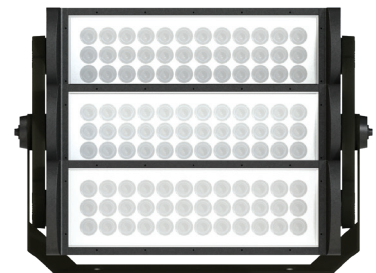
Single Module	1M
Dual Module	2M
Three Module	3M

CAUTION: Multiple module fixtures are much heavier than a single unit, requiring two or more people for lifting and installation.

Dual Module  
49 lbs (2M)

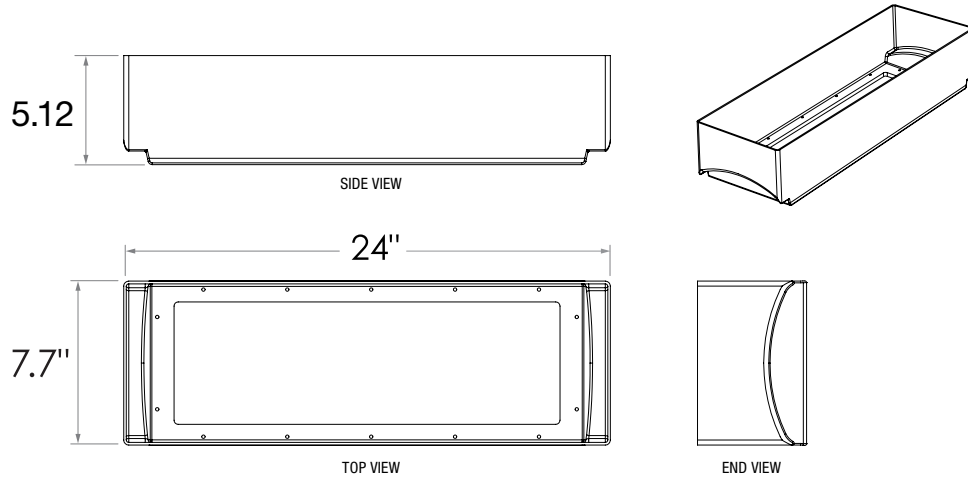


Three Module  
70 lbs (3M)



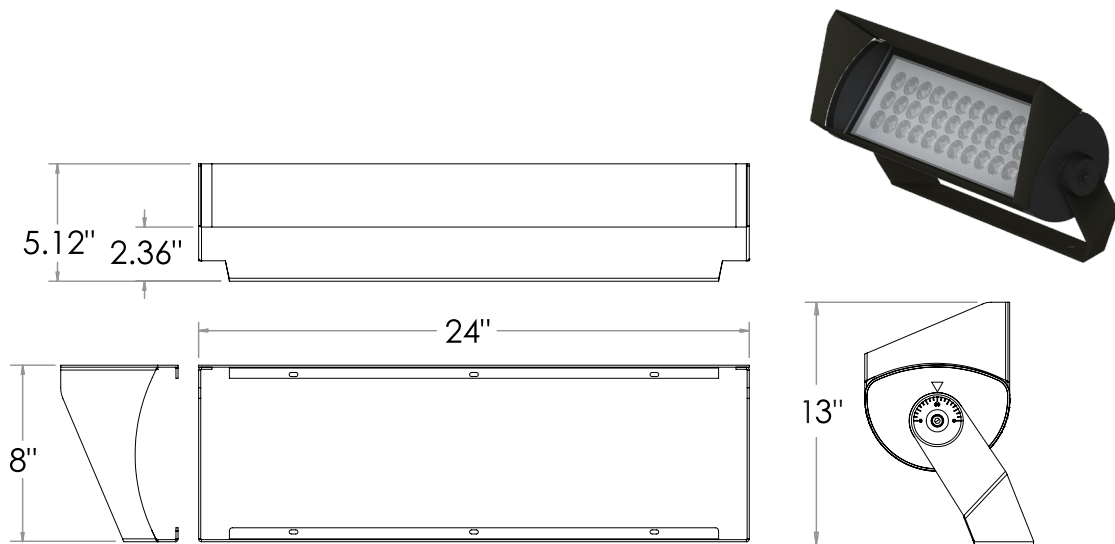
### FULL VISOR

Part #	FV
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### HALF VISOR

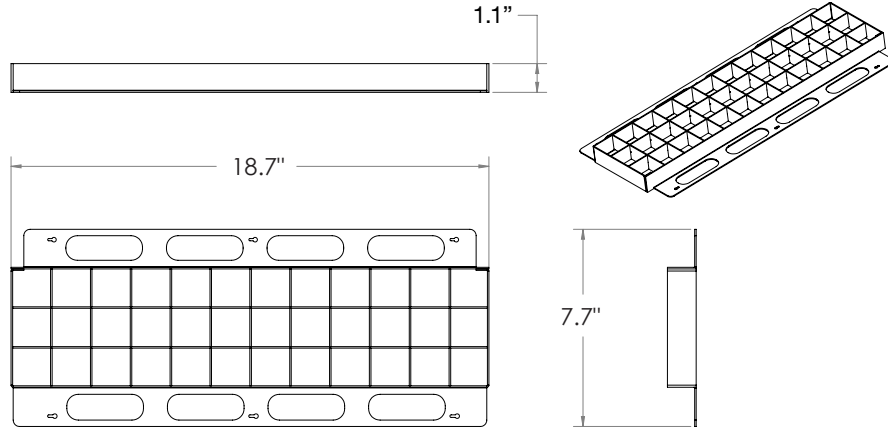
Part #	HV
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### LOUVER

Louwer

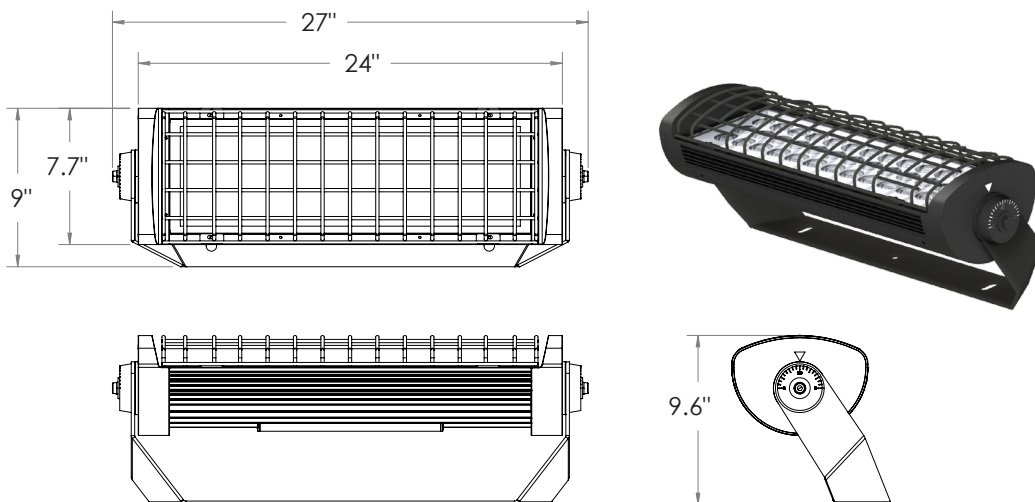
LVR



### ROCK GUARD

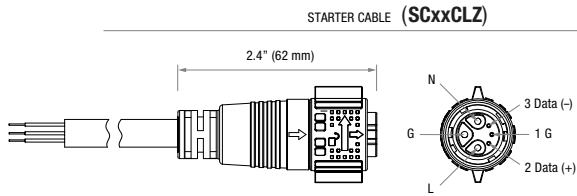
Rock Guard

RG

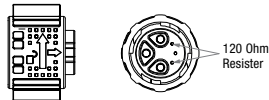


### CONNECTIONS & CABLES

#### 6-PIN CONNECTORS

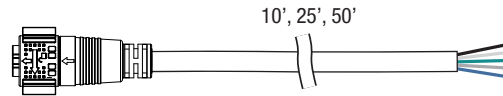


#### TERMINATOR CAP (TCAPDCLZ)



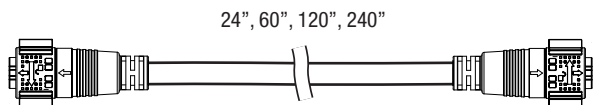
#### STARTER CORD (SCxxCLZ)

Required Starter Cord comes in multiple lengths with a luminaire connector at one end and lead wires at the other end for connecting power & data.



#### EXTENSION CORD (ECxxCLZ)

The Extension Cord comes in multiple lengths with a luminaire connection at each end for power & data and adding space between luminaires in a linear run.

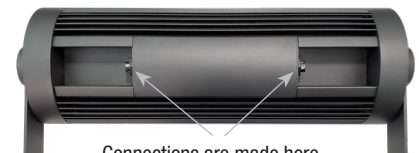


### CLZF - LAZER CONFIGURATION EXAMPLES

#### Component Identification

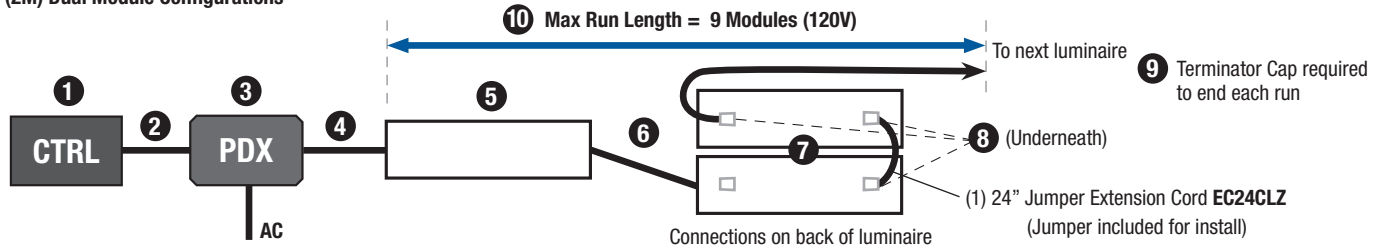
- 1) DMX Color Controller (see last page)
- 2) DMX Data Cable **DXC-xx** or **CD-xx** (CSC only)
- 3) PDX Power Data Wiring Box
- 4) Starter Cord **SCxxCLZ**
- 5) ColourLine Lazer (CLZF)
- 6) Extension Cord **ECxxCLZ** (connect at back of luminaire)
- 7) Multi Module ColourLine Lazer (CLZF-XM)
- 8) Extension Cords connect luminaires **ECxxCLZ**
- 9) Terminator Cap **TCAPDCLZ** (required at end of run)
- 10) Max Run Length = 9 Modules (120V), 18 Mods (277V)

Fig. 1 Back of Luminaire Connections

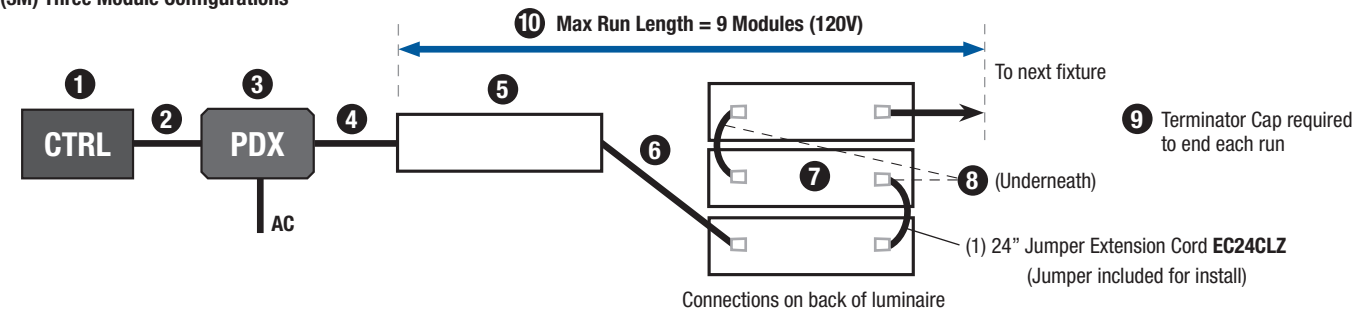


Connections are made here. Connect to either side, both connectors are the same.

#### (2M) Dual Module Configurations

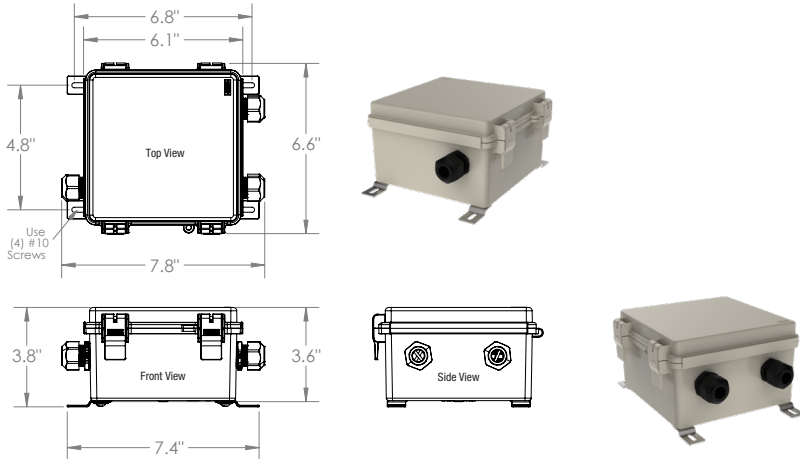


#### (3M) Three Module Configurations

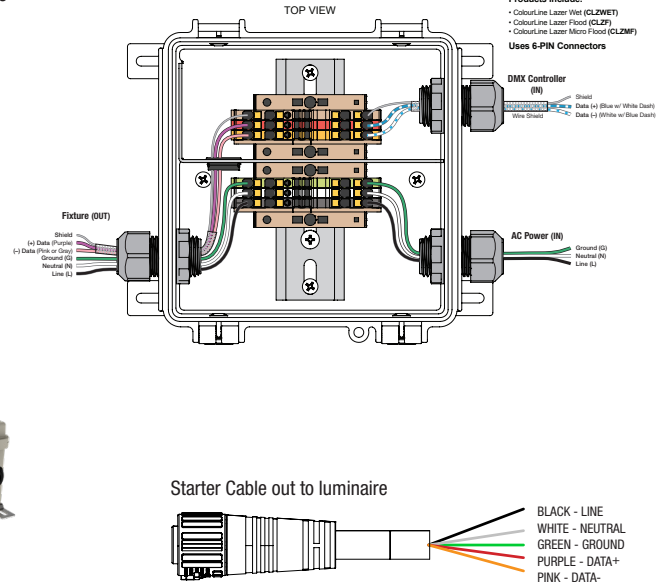


### PDX2 - POWER DATA WIRING BOX (ONE PDX2 REQUIRED PER RUN)

The PDX2 is an exterior-rated enclosure that consolidates multiple input sources into one output to the CLZF luminaires. Data input from the RDM Color controller and AC input combine to provide one output to a Starter Cord. One PDX2 box is required per each luminaire run.

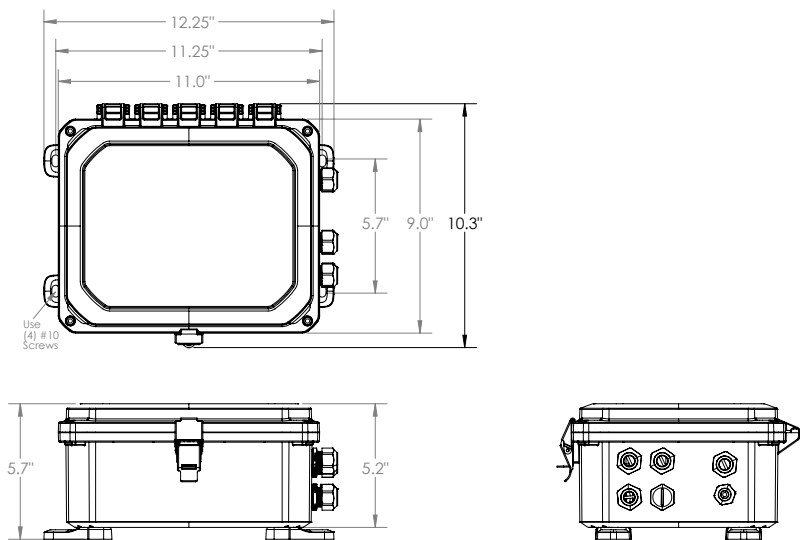


PDX2 Wiring for ColourLine Lazer Series



### PDX-RDS2 - POWER DATA WIRING BOX - WITH 2-PORT SPLITTER

The PDX-RDS2 is an exterior-rated enclosure with a transparent, hinged cover that latches and seals using a formed in place PUR gasket and a stainless steel hinge pin. The PDX-RDS2 houses a DMX/RDM 2 port splitter/repeater that takes in one DMX input and provides two regenerated DMX outputs that can be any combination of starter cords or straight DMX outputs. The repeater allows you to daisy-chain PDX2 or PDX-RDS2 boxes by providing two maximum DMX run length outputs.



#### Connector Identification

- 1) AC Input (Line power)
- 2) DMX Data Cable **DXG-xx** or **CD-xx** (CSC only)
- 3) Starter Cord **SCxxLZWET** one
- 4) Starter Cord **SCxxLZWET** two
- 5) Auxiliary Ground

