

ColourLine Lazer Micro



luminaire connections



Date:	Approved:
Туре:	
Luminaire:	
Project:	

ColourLine Lazer Micro (CLZMF) is the newest part of our Lazer Series, featuring high-performance Zero Lumens Compromised, superior optics with long-casting grazer, wall wash, flood and spot flood capabilities in a compact form factor. 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. Typical applications include large buildings, arenas, towers, monuments, bridges, tunnels, and more.

SPECIFICATIONS	
color temperature	RGBW / RGBA
PHYSICAL	
beam spread	9°, 10° x 30°, 10° x 60°, 15° x 25°, 30°, 30° x 60°, 50° x 80°, 80°
LEDs	12 LEDs per module
dimensions	7.3"W x 7.3"H x 6.6"D
weight	11 lbs
housing	marine grade, corrosion resistant, low copper, solid die-cast aluminum, extruded 6061 body with captive stainless steel fasteners
lens	anti-reflective-clear, tempered glass w/RTV silicone gasketing
mounting	3G Vibration rated, standard mounting is an integrated steel yoke system, optional accessories available
ingress protection	IP66 rated for dry, damp or wet locations
impact resistance	IK08 lens impact rating, IK10 w/ Rock Guard (RG)

daisy chain luminaires with male/female twist & lock, 6-pin, IP68 rated connector cables

PERFORMANCE	
lumen output [all on]	2500 lm (RGBW - full on)
maximum delivered intensity	52,000 cd @ 8 degrees* (RGBW Full On) *native optical beam
lumen maintenance	L70 > 70,000 hours
operating temperature	-40°F to 122°F (-40°C to 50°C)
protocols	DMX 512, RDM (ANSI E1.20)
ColourFull (CF)	Custom Tooled Native Optic with a collimating color mixing chamber that mixes at the phosphor level enabling unique color combinations
ColourQuick (CQ)	provides uniform beam saturation, instantaneously without scalloping
ColourClone (CC)	manufacturing process uses robotic systems to provide 1 SDCM like consistency between luminaires by calibrating every luminaire to the same exact X, Y, chromaticity coordinates
ColourSoft (CS)	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
warranty	5-year limited warranty

ELECTRICAL	
input voltage	Universal 120 - 277 VAC
power supply	integral Class II, electronic high-power factor 99% @ 120V
controls	SSL ColourSelect Controller, 3rd party DMX 512, RDM standard based control system (ANSI E1.20)
certification	ETL / cETL, FCC Part 15
standards	UL-Class I
power consumption	85W @ 120V (per module)



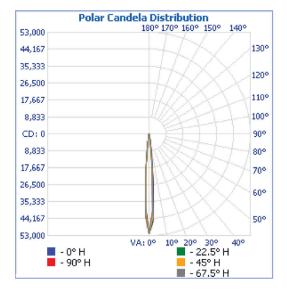
ColourLine Lazer Micro



CLZMF	UNV		BK			
GLZIVIF	UNV		DN			
MODEL	VOLTAGE	MODE	FINISH		OPTICS typical	ACCESSORIES
CLZMF ColourLine Lazer Micro	UNV 120 - 277 VAC	RGBW RGBW*	BK Black		$9^{\circ}~x~9^{\circ}~Beam^{\dagger}$ (native optic)	MFV Full Visor
		RGBA (Amber)			10° x 30° Beam†	MHV Half Visor
		*W = 3K			10° x 60° Beam 15° x 25° Beam [†]	MRG Rock Guard†
					30° x 30° Beam†	[†] MRG recommended only with nar beam optics: 9°, 30°, 1030°, 152
				3060	30° x 60° Beam	
				5080	50° x 80° Beam	
				80	80° x 80° Beam	
No Accessories (adams)						
ole Accessories (order sepa		May Run Length — 9 Modul	es (120V) 18 Mods (27	7\/)		
SC10CLZ 10 ft. Starter Conne	·	TCAPDCLZ Data Ter	, ,,	, •,	EC120CLZ 120 in. Exte	ension Cord
SC25CLZ 25 ft. Starter Conne	ection Cord	EC24CLZ 24 in. Exte	ension Cord		EC240CLZ 240 in. Exte	ension Cord
SC50CLZ 50 ft. Starter Conne	ection Cord	EC60CLZ 60 in. Exte	ension Cord			
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RF-DM-041525

PHOTOMTERIC DATA



Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	52.5%	1,292.7	16.3	17.7
Beam (50%):	26.8%	660.5	8.5	9.2
Total:	100.8%	2,482.0		

	Illuminance at a ll Center Beam fc	Distance Beam Wid	th	
1.78	18,007 fc	0.3 ft	0.3 ft	
3.3A -	4,779 fc	0.5 ft	0.5 ft	
5.0ft -	2,082 fc	0.8 ft	0.7 ft	
6.7ft -	1,159 fc	1.1 ft	1.0 ft	
8.3ft -	755 fc	1.3 ft	1.2 ft	
10.0R	520 fc	1.6 ft	1.5 ft	
	■ Vert. Spread: 9.2° ■ Horiz. Spread: 8.5°			

Zonal Lumen Summary			
Zone	Lumens %	Luminaire	
0-30	2,063.6	83.8%	
0-40	2,245.9	91.2%	
0-60	2,398.0	97.4%	
60-90	51.7	2.1%	
70-100	19.2	0.8%	
90-120	3.1	0.1%	
0-90	2,449.7	99.5%	
90-180	12.0	0.5%	
0-180	2,461.7	100%	





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

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.

© Solid State Luminaires



All These Features In A Single Luminaire



Colour Full

FULL LUMEN COLOR CHANGING

- Full Power LED with any color transition
- . Consistent rich color acoss the light spectrum
- Full output power with any color

ColourFull luminaires provide maximum output at all times - with all colors, so your application receives the maximum color saturation. Using a Custom Tooled Native Optic with a collimating color mixing chamber that mixes at the phosphor level enabling unique color combinations.



RAPID-MIX COLOR

- Instantaneous Color Mixing Within 1 inch
- . Shortest Distance in Industry for Blending Colors
- 4-in-1 RGBW LED designed to SSL Specifications

ColourLine RGBW luminaires provide the quickest color mixing in the industry. The SSL ColourQuick technology enables our ColourLine Linear Indoor Cove and Graze, as well as, our Outdoor Floods to color-mix almost instantly, within one inch.

Scalable

- Full DMX, RDM control capability with latest industry standards
- . A wide variety of DMX protocol controls and system accessories
- SSL has many RGBW products utilizing the ColourLine Technology
- Control 1000's of DMX channels with multiple universes & zones
- Powerful luminaires with super optics for long-throw applications
- · SSL provides turnkey design and technical integration support



SMOOTH LOW-TRIM DIMMING

- Flicker-Free Color Transitions and Dimming
- 16-bit performance (65,536 steps) using only 8-bit addressing
- SSL Engineered Custom Software and Firmware

Standard dimming technology uses 8-bit resolution for 256 individual steps. Our 32-bit on-board MCU uses SSL developed software to provide 16-bit resolution that allows 65,536 steps of resolution and only use 8-bits of addressing space! We also use a logarithmic delineation of the resolution to concentrate in the lower third of the dimming curve so the low-end dimming and color transitions have zero flicker.

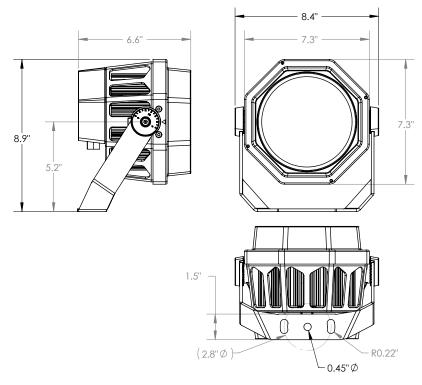


TRU-COLOR RGBW MATCHING

- Robotic Calibration of every luminaire provides 1-Step consistency
- Every luminaire has same X, Y color coordinates
- Perfect match for add-ons and replacements

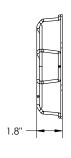
As part of our manufacturing process, SSL Automated Manufacturing Robots calibrate every luminaire to the exact same X,Y color coordinates to provide Step-1 like consistency. This process enables every luminaire to be an exact clone. At the end of the process, a bar code is generated for every board. This allows for exact matching for job addons or warranty replacements.

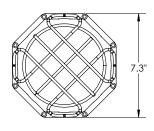
SINGLE MODULE FIXTURE (1M)		
overall length	7.3" L	
overall height	7.3" H	
overall depth (1M)	6.6" D	



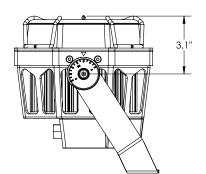
Accessories

ROCK GUARD[†] Part # MRG





†Recommended only with narrow beam optics: 9°, 30°, 1030°, 1525°

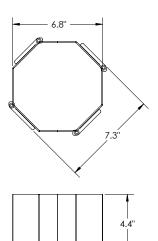


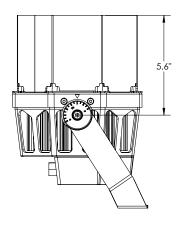


FULL VISOR

Part #

MFV



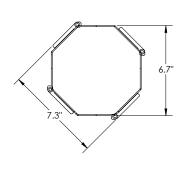


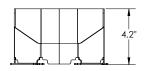


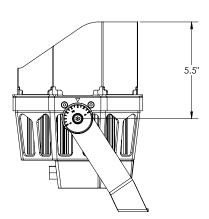
HALF VISOR

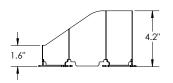
Part #

MHV







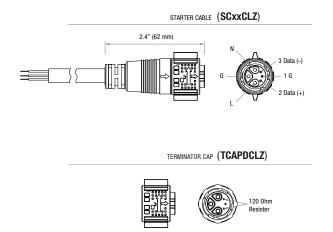




ColourLine Lazer Micro

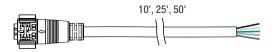
CONNECTIONS & CABLES

6-PIN CONNECTORS



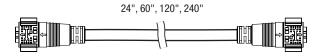
STARTER CORD (SCxxCLZ)

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.



CLZMF - LAZER CONFIGURATION EXAMPLE

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 (CLZMF)

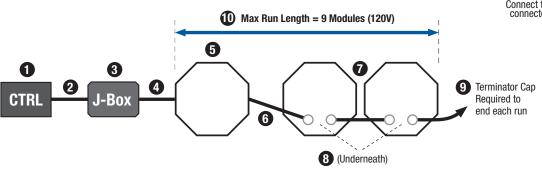
- 6) Extension Cord ECxxCLZ (connect at back of luminaire)
- 7) Connected ColourLine Lazer Micro (CLZMF)
- 8) Extension Cords connect luminaires ECxxCLZ
- 9) Terminator Cap TCAPDCLZ (required at end of run)
- 10) Max Run Length (before adding more power): 9 Modules (120V), 18 Modules (277V)

Back of Luminaire Connections



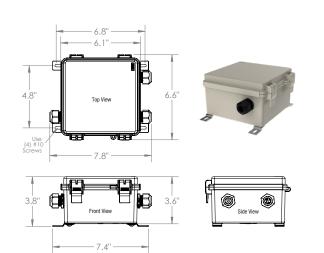
Connect to either side, both connectors are the same.

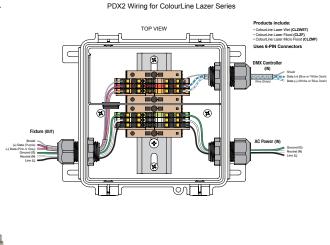
Back of Luminaire Connections

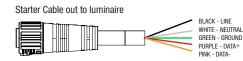


PDX2 - POWER DATA WIRING BOX (ONE PDX2 REQUIRED PER RUN)

The PDX2 is an exterior-rated enclosure that consolidates multiple input sources into one output to the CLWET 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.

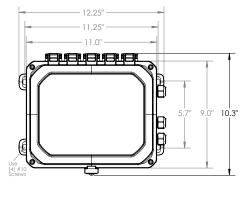




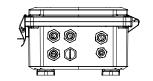


PDX-RDS2 - POWER DATA WIRING BOX - WITH 2-PORT SPLITTER

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 DXC-xx or CD-xx (CSC only)
- 3) Starter Cord SCxxLZWET one
- 4) Starter Cord **SCxxLZWET** two
- 5) Auxiliary Ground

