Date:		Approved:
Type:		
Luminaire:		
Project:		

COLOURLINE LAZERLINE WET

Exterior RGBW & RGBA Luminaire

ColourLine LazerLine Wet (CLZWET) is the newest part of our LazerLine Series, featuring our new high-performance ColourFull technology, with superior optic long-casting grazer, wall wash, flood and spot flood capabilities in an IP66 exterior rated Linear form factor. ColourFull luminaires provide maximum output at all times – with all colors, so your application receives the maximum color saturation. It's based on our ColourLine RGBW/RGBA 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 a Slim Form Factor with 90° Adjustable Bracket(s) Standard. Typical applications include large buildings, arenas, towers, monuments, bridges, tunnels, and more.
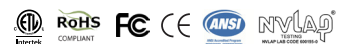
SPECIFICATIONS

color temperature	RGBW or RGBA

PHYSICAL

beam spread	9°, 30°, 60°, 80°, 10°x 30°, 10°x 60°, 15°x 25°, 30°x 60°, 50°x 80°
LEDs	8 - RGBW or RGBA Quad LEDs per foot
weight	1.3lbs per foot
housing	Extruded aluminum housing with injection molded end caps
lens	IK08 impact compliant, low-iron tempered glass
mounting	Adjustable Bracket (90°), other options available
ingress protection	dry, damp or wet locations IP66 rated: connectors IP68 (waterproof)
vibration resistance	compliant with 3G ANSI C136.31 for bridge and roadway applications
luminaire connections	daisy chain with male and female twist and lock 5-PIN, IP68 rated connectors

PERFORMANCE

lumen output [all on]	500 lm per foot (10W) MAX - All On
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)	advanced programming allows for maximum output at all times, regardless of color
ColourQuick (CQ)	provides uniform beam saturation instant color mix 0" from luminaire surface
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

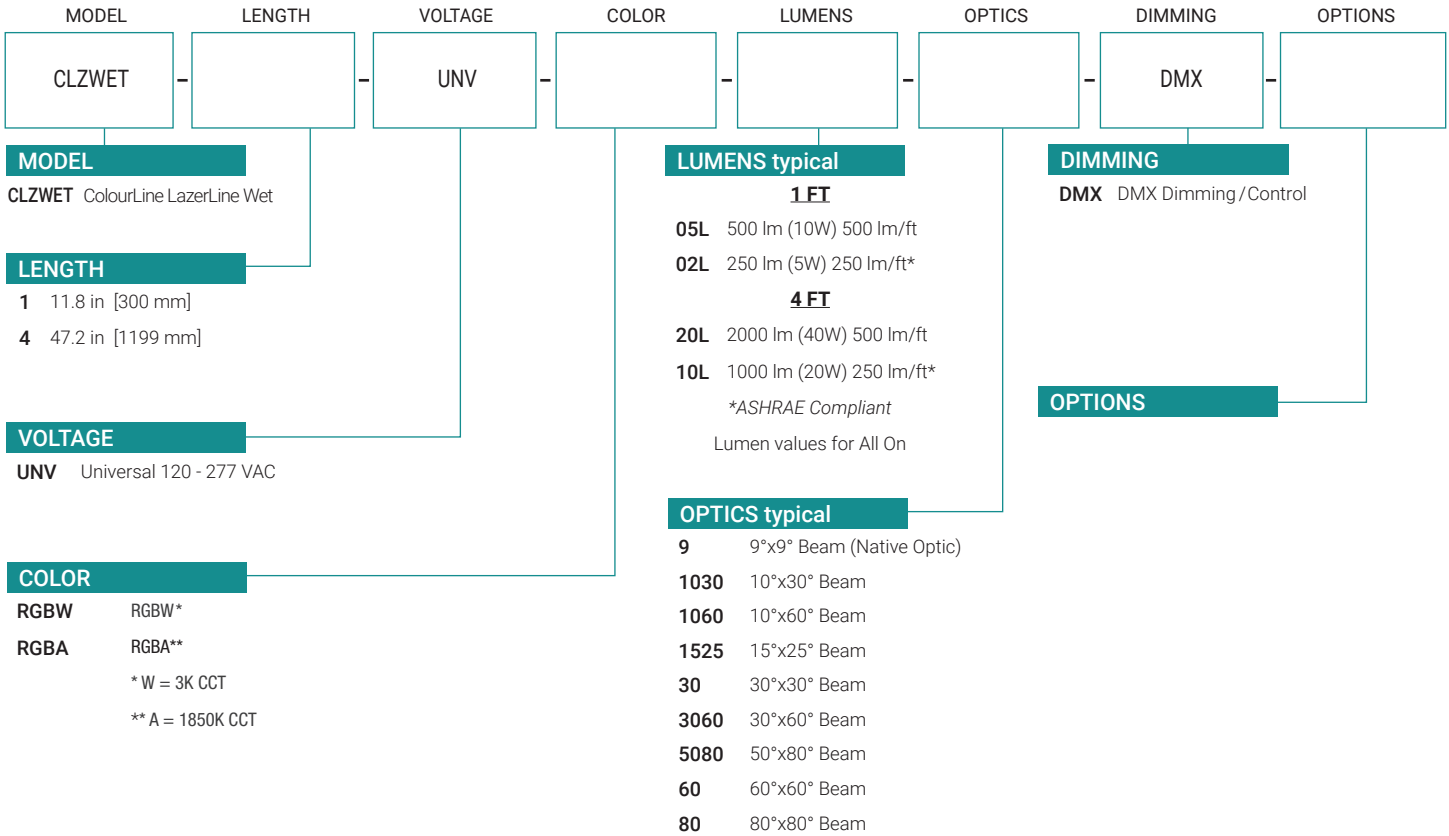|	
input voltage	Universal 120 - 277 VAC
power supply	Integral Class II, electronic high-power factor 99% @ 120V
controls	SSL ColourSelect, 3rd party DMX 512, RDM standard based control system
certification	ETL / cETL, FCC Part 15 Class A
standards	UL-Class I
power consumption	10W /1ft @ 120V (40W /4ft @ 120V), ASHRAE: 5W /1ft @ 120V (20W @ 120V / 4ft)

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TG-DM-040325

SSL
solid state luminaires

Date:	Approved:
Type:	
Fixture:	
Project:	

ColourLine LazerLine WET

PART NUMBERS

MODEL	LENGTH	VOLTAGE	COLOR	LUMENS	OPTICS	DIMMING	OPTIONS
CLZWET	–	UNV –	–	–	–	DMX	–

MODEL
CLZWET ColourLine LazerLine Wet

LENGTH
1 11.8 in [300 mm]
4 47.2 in [1199 mm]

VOLTAGE
UNV Universal 120 - 277 VAC

COLOR
RGBW RGBW*
RGBA RGBA**

* W = 3K CCT

** A = 1850K CCT

LUMENS typical

1 FT
05L 500 lm (10W) 500 lm/ft
02L 250 lm (5W) 250 lm/ft*

4 FT
20L 2000 lm (40W) 500 lm/ft
10L 1000 lm (20W) 250 lm/ft*

*ASHRAE Compliant

Lumen values for All On

OPTICS typical
9 9°x9° Beam (Native Optic)
1030 10°x30° Beam
1060 10°x60° Beam
1525 15°x25° Beam
30 30°x30° Beam
3060 30°x60° Beam
5080 50°x80° Beam
60 60°x60° Beam
80 80°x80° Beam

DIMMING
DMX DMX Dimming / Control

OPTIONS

ACCESSORIES

(Order separately. Indicate the quantity needed for each item.) (See Page 8 for Maximum Run Lengths)
REQUIRED: Starter Connection Cord (SC05/10/25/50LZWET) and Standard Terminator Cap (TCAPDCLZWET) for every run.
NOTE: 10°x60°, 30°x60°, 50°x80°, 60°x60° and 80°x80° optical options not recommended for louver options.

_____ SC05LZWET 5 ft. Starter Connection Cord
_____ SC10LZWET 10 ft. Starter Connection Cord
_____ SC25LZWET 25 ft. Starter Connection Cord
_____ SC50LZWET 50 ft. Starter Connection Cord

_____ EC12LZWET 12 in. Extension Cord
_____ EC24LZWET 24 in. Extension Cord
_____ EC60LZWET 60 in. Extension Cord
_____ EC120LZWET 10 ft. Extension Cord
_____ EC240LZWET 20 ft. Extension Cord

_____ TCAPDCLZWET Data Terminator Cap (120 Ohm)
_____ DB25LZWET 25 ft. Data Bridge Cable
_____ LCLZWL-1 LZWET Louver*
_____ LCLZWHS-1 LZWET Louver w/ House Shield*
*One Louver per linear foot (Either LCLZWL-1 or LCLZWHS-1)
 Each CLZWET-1 requires 1 louver, Each CLZWET-4 requires 4 louvers

MOUNTING ACCESSORIES

(Order separately.) (ADBW3 Bracket(s) Included with luminaire.) (Requirements vary for each luminaire ordered. See mounting pages for details.)

Fixture	CA3-X Requirement
1-foot	1
4-foot	2

_____ CA3-6 Cantilever Arm - 6"
_____ CA3-12 Cantilever Arm - 12"
_____ CA3-18 Cantilever Arm - 18"

_____ LS-6 Landscape Spike - 6"
_____ HLS Heavy Duty Landscape Spike
_____ CLWFA-KIT Tall Bracket Base*
*One CLWFA-KIT needed per CLZWET-1,
 Two needed per CLZWET-4

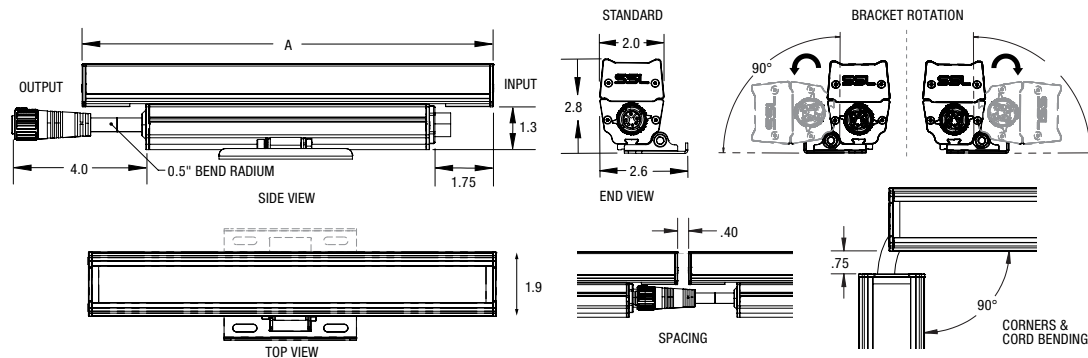US Commercial Lighting Manufacturer Since 1982

TG-DM-040325

Controls & Dimensions

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

_____ **PHAROS TPS-5-B** 5" Designer Touch Panel Station

_____ **PHAROS XPC1** Expert Controller; 512 channels of eDMX/DMX

_____ **PHAROS XPC2** Expert Controller; 1024 channels of eDMX/DMX

_____ **PHAROS XPT-5-B** Expert Touch Panel; 5" Display in Black

_____ **PHAROS TPC-BB** Touch Panel Controller - Black on Black *(512 Channels EDMX)*

_____ **PHAROS EXT** Extension for TPC Connectivity

_____ **PHAROS LPC1** Lighting Playback Controller 1 (512 channels DMX/eDMX)

_____ **PHAROS LPC2** Lighting Playback Controller 2 (1,024 channels DMX/eDMX)

_____ **PDX2** Power Data Wiring Box *(exterior rated)*

_____ **PDX-RDS2** Power Data Wiring Box w/2-port splitter

_____ **PDX-RDS4** Power Data Wiring Box w/4-port splitter

_____ **SCSC-2WH (2BK)** White or Black Wall Mount ColourSelect Controller *(2 universe)*

_____ **CSC-E** ColourSelect Controller *(2 universe)*

_____ **DE3BK(WH)** Nicolaudie STICK DE-3 Black or White Wall Mount Controller w/color dial

_____ **CW4-WH** Nicolaudie STICK White Touch Screen with Internal WiFi

_____ **GA2WH(BK)** Nicolaudie STICK-GA2 White or Black Wall Mount Controller

_____ **DXC-25** 25 foot DMX cable

_____ **DXC-50** 50 foot DMX cable

_____ **DXC-100** 100 foot DMX cable

_____ **CD-10** 10 foot controller data cable (for CSC only)

_____ **CD-25** 25 foot controller data cable (for CSC only)

_____ **CD-50** 50 foot controller data cable (for CSC only)

_____ **CD-100** 100 foot controller data cable (for CSC only)

_____ **MV 5900** Multiverse Show Baby DMX Wireless Bridge (Indoor)

_____ **7400-5707M** Show DMX Vero DMX Wireless Bridge (Exterior)

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

A = luminaire length 1' (12") or 4' (48")

Due to continuous development and improvements, specifications are subject to change without notice.
Product use certifies agreement to Solid State Luminaires terms and conditions.

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3

All These Features In A Single Luminaire

ColourFull RGBW

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.

ColourQuick

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.

ColourClone

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 add-ons or warranty replacements.

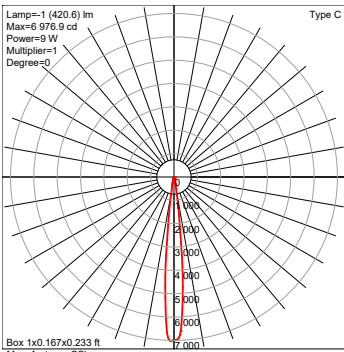**ColourSoft**

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.
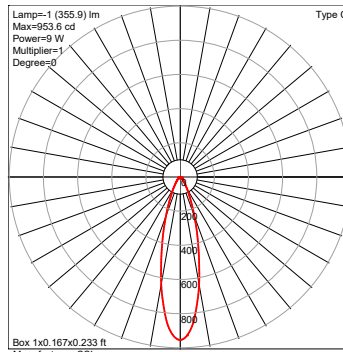
Scalable

- 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

- Multiple personality settings to enhance RGBW & Tunable White

- Control 1000's of DMX channels with multiple universes & zones

- Powerful luminaires with super optics for long-throw applications

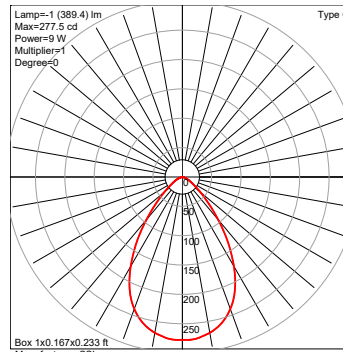- SSL provides turnkey design and technical integration support
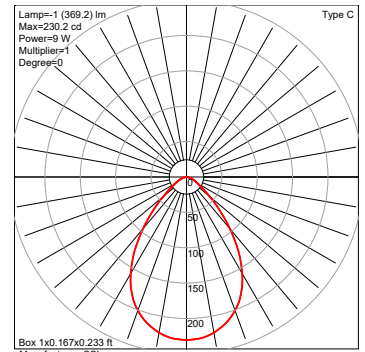
CLZWET   1FT / 4FT   RGBW

Lamp=-1 (420.6) lm
Max=6 976.9 cd
Power=9 W
Multiplier=1
Degree=0

Type C

Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-9-DMX (ALL ON)

Lamp=-1 (355.9) lm
Max=953.6 cd
Power=9 W
Multiplier=1
Degree=0

Type C

Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-30-DMX (ALL ON

Lamp=-1 (389.4) lm
Max=277.5 cd
Power=9 W
Multiplier=1
Degree=0

Type C

Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-60-DMX (ALL ON)

Lamp=-1 (369.2) lm
Max=230.2 cd
Power=9 W
Multiplier=1
Degree=0

Type C

Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-80-DMX (ALL ON)

Lamp=-1 (369.1) lm
Max=2 199 cd
Power=9 W
Multiplier=1
Degree=0

Type C
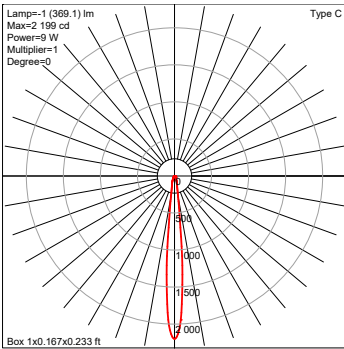
Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-1030-DMX (ALL ON)

Lamp=-1 (372.9) lm
Max=1 169.6 cd
Power=9 W
Multiplier=1
Degree=0

Type C
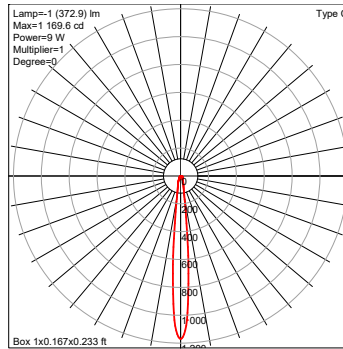
Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-1060-DMX (ALL ON)

Lamp=-1 (402.3) lm
Max=2 300.7 cd
Power=9 W
Multiplier=1
Degree=0

Type C
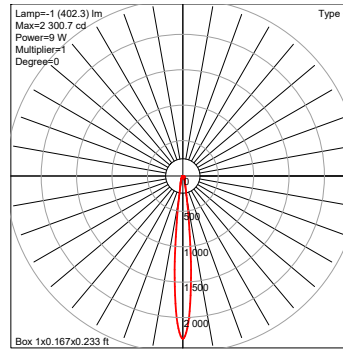
Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-1525-DMX (ALL ON)

Lamp=-1 (372.3) lm
Max=541.2 cd
Power=9 W
Multiplier=1
Degree=0

Type C
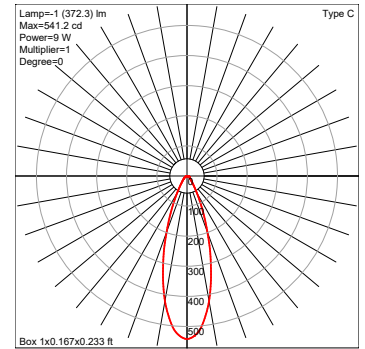
Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-3060-DMX (ALL ON)

Lamp=-1 (368.8) lm
Max=258.1 cd
Power=9 W
Multiplier=1
Degree=0

Type C
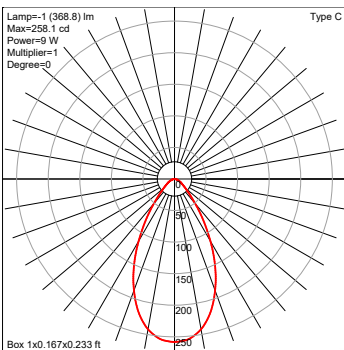
Box 1x0.167x0.233 ft
Manufacturer: SSL
Luminaire catalog: CLZWET
Luminaire: CLZWET-1-UNV-RGBW-05L-5080-DMX (ALL ON)

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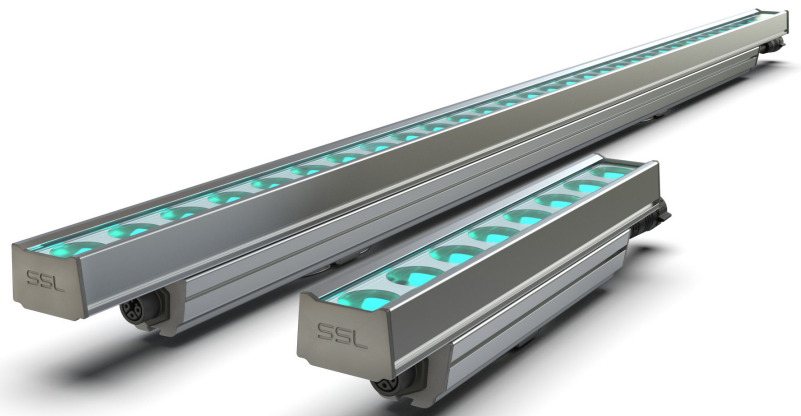
ADBW3 - 90° ADJUSTABLE BRACKET
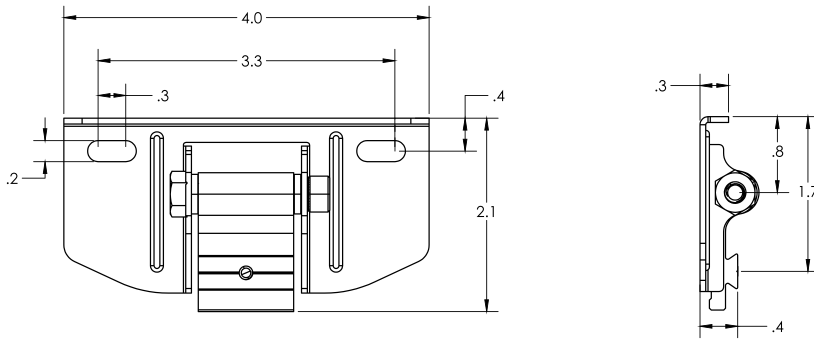
CLZWET	ADBW3 Requirement
1'	1
4'	2

CLWFA-KIT - TALL BRACKET BASE
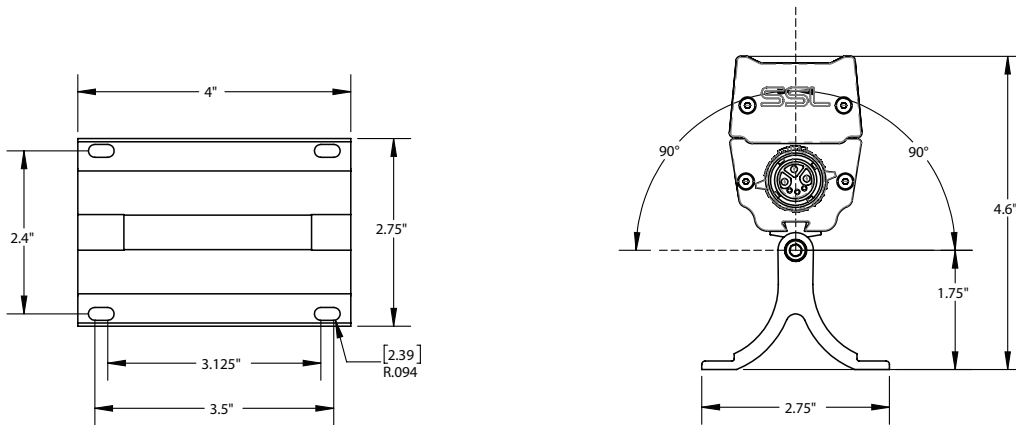
CLZWET	CLWFA-KIT Requirement
1'	1
4'	2

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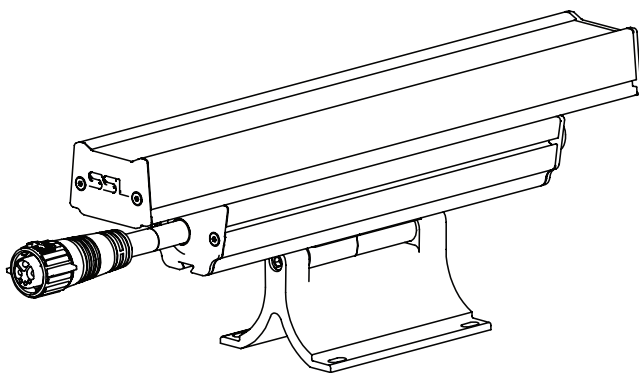
CANTILEVER ARM - CA2 (Available in 3 Lengths)

CA3	(A) Arm Length
CA3-6	6"
CA3-12	12"
CA3-18	18"

Luminaire	CA3 Requirement
1-foot	1
4-foot	2
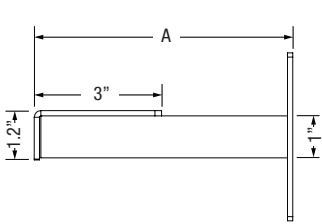
SIDE VIEW
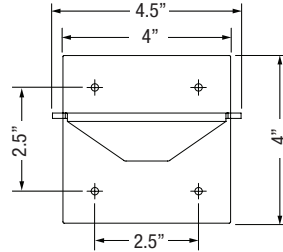
FRONT VIEW
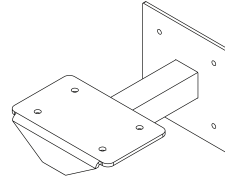
ISOMETRIC VIEW

HEAVY DUTY LANDSCAPE SPIKE - HLS

SIDE VIEW
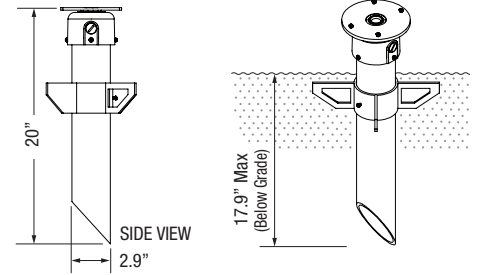
LOUVRE - LCLZWL-1

Luminaire	Part #	Stacked Length
1FT	1x LCLZWL-1	11.8 in
4FT	4x LCLZWL-1	47.2 in
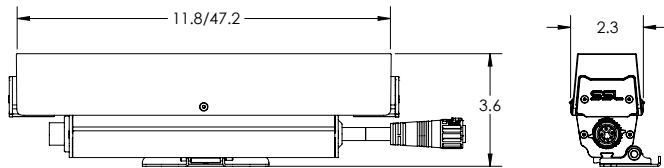
LOUVER HOUSE SHIELD - LCLZWHS-1

Luminaire	Part #	Stacked Length
1FT	1x LCLZWHS-1	11.8 in
4FT	4x LCLZWHS-1	47.2 in

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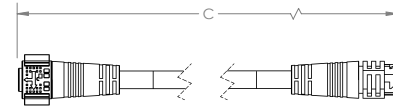
TG-DM-040325
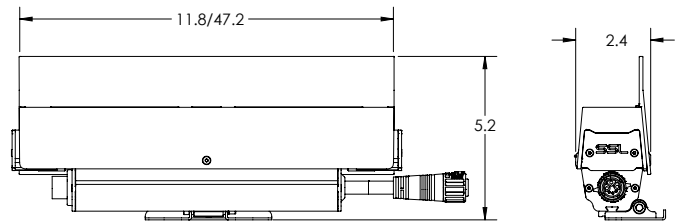
CONNECTIONS & CABLES

GAP BETWEEN CONNECTED FIXTURES
Luminaires connect closely together to ensure runs have an even linear light pattern.

.40

.75

90°

SPACING

CORNERS & CORD BENDING
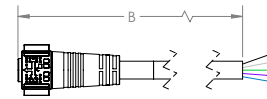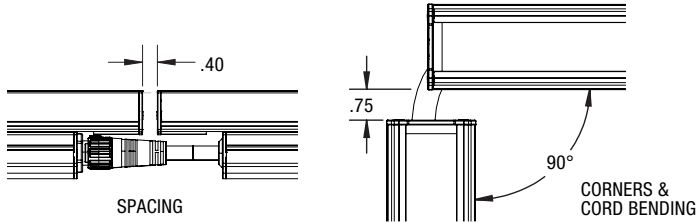
STARTER CABLE

MODEL	B
SC05LZWET	5'
SC10LZWET	10'
SC25LZWET	25'
SC50LZWET	50'

EXTENSION CABLE

| MODEL	C
EC12LZWET	12"
EC24LZWET	24"
EC60LZWET	60"
EC120LZWET	120"
EC240LZWET	240"

TERMINATOR CAP (TCAPDCLZWET)
Required Terminator Cap is used at the end of each linear lighting run.

(contains 120 ohm resister)
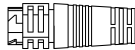
DATA BRIDGE CABLE (DBxxLZWET) *Coming Soon
Provides continuation of DMX Data only, from the end of one run to the PDX box of the next run. Luminaire connection at one end and lead wires at the other.
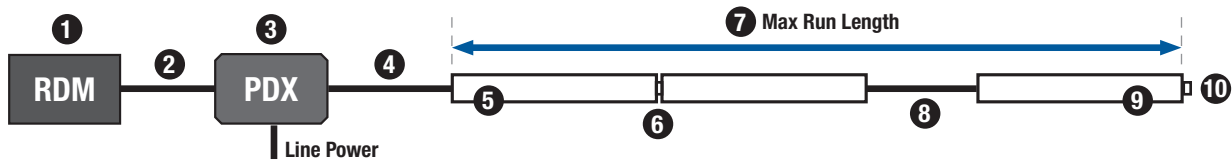
25'
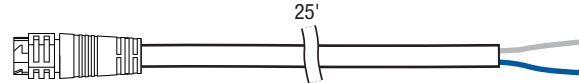
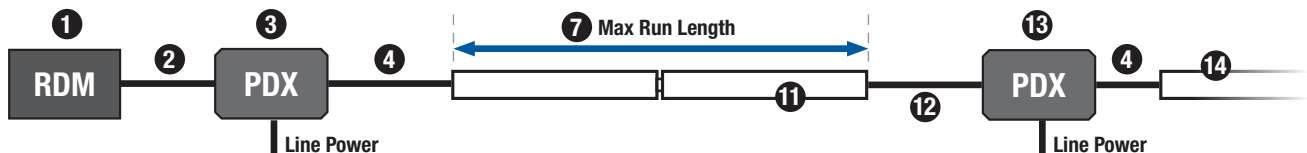## CLZWET - SINGLE SEGMENT CONFIGURATION EXAMPLE

Max run length	120V	277V
5W/FT	160'	360'
10W/FT	80'	180'

Component Identification
1) RDM DMX Controller (see pg. 9)
2) DMX Data Cable **DXC-xx** or **CD-xx** (CSC only)
3) PDX Power Data Wiring Box
4) Starter Cord **SCxxLZWET**
5) First luminaire begins Linear Run
6) Luminaires connect end to end
7) Distance from 1st to last luminaire in Linear Run

8) Extension Cord **ECxxLZWET**
   (Can add up to 50' more Extension Cord to Max Run Length)
9) Last luminaire in the Linear Run
10) Terminator Cap **TCAPDCLZWET** (required at end of run)
11) Last luminaire showing Data Bridge Cable Connection
12) Data Bridge Cable **DBxxLZWET** to continue DMX Data only
13) PDX Box to connect Data Bridge Cable
14) Continuation of controlled Luminaire Run

❼ Max Run Length

RDM ❶ ❷ PDX ❸ ❹ ❺ ❻ ❽ ❾ ❿

Line Power

Data Bridge Cable Connection

❼ Max Run Length

RDM ❶ ❷ PDX ❸ ❹ ⓫ ⓬ PDX ⓭ ❹ ⓮

Line Power

Line Power

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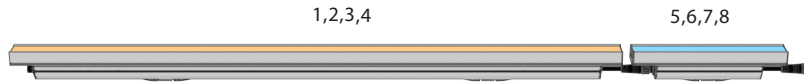
Control Components

ColourLine Lazer Wet

PERSONALITY - SET AT FACTORY FOR SPECIFIC CAPABILITIES

Consult factory when ordering to establish requirements for personality assignment and other addressing or feature programming to suit application specifics.
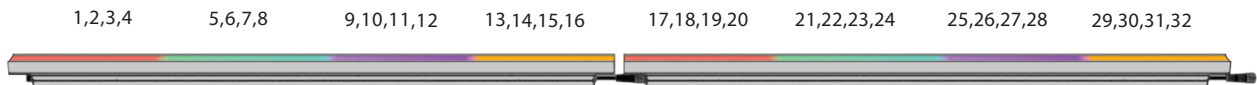
Personality 1 — 4 foot & 1 foot luminaires **configured 4 Channels per luminaire** (R,G,B,W)

1,2,3,4 5,6,7,8

Personality 2 — 4 foot luminaire (only) **configured in 2 foot increments** (4 Channels/2ft - R,G,B,W)
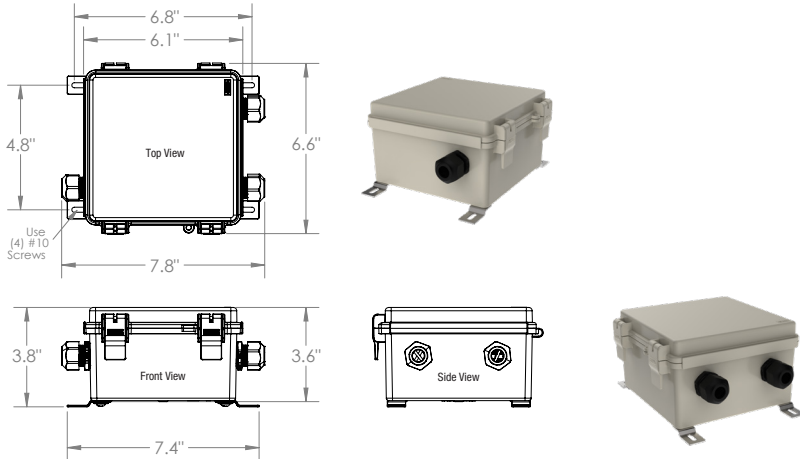
1,2,3,4 5,6,7,8 9,10,11,12 13,14,15,16
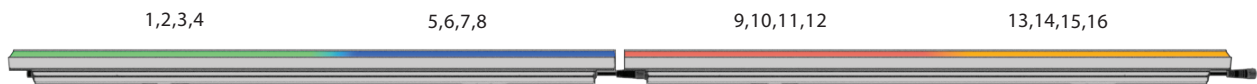
Personality 3 — 4 foot luminaire (only) **configured in 1 foot increments** (4 Channels/1ft - R,G,B,W)

1,2,3,4 5,6,7,8 9,10,11,12 13,14,15,16 17,18,19,20 21,22,23,24 25,26,27,28 29,30,31,32

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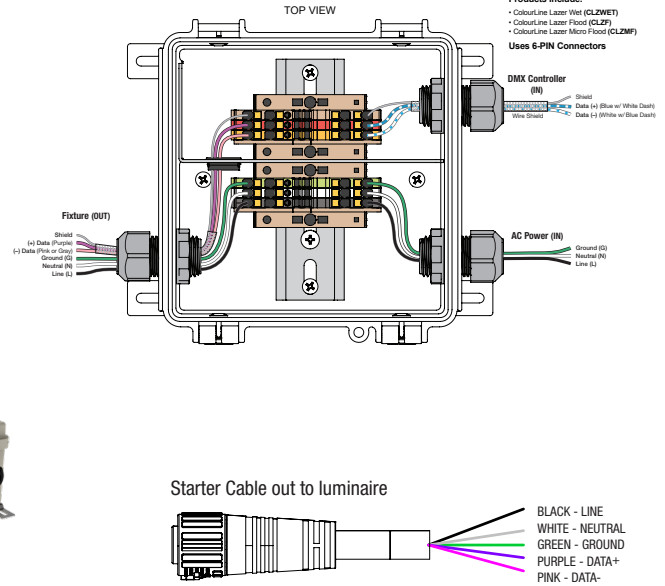
PDX2 - POWER DATA WIRING BOX (ONE PDX2 REQUIRED PER RUN)

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.


PDX2 Wiring for ColourLine Lazer Series

TOP VIEW

Products include:
• ColourLine Lazer Wet (CLZWET)
• ColourLine Lazer Flood (CLZF)
• ColourLine Lazer Micro Flood (CLZMF)
Uses 6-PIN Connectors

DMX Controller (IN)
Shield
Data (+) (Blue w/ White Dash)
Wire Shield
Data (–) (White w/ Blue Dash)

Fixture (OUT)
Shield
(+) Data (Purple)
(–) Data (Pink or Gray)
Ground (G)
Neutral (N)
Line (L)

AC Power (IN)
Ground (G)
Neutral (N)
Line (L)

Starter Cable out to luminaire

BLACK - LINE
WHITE - NEUTRAL
GREEN - GROUND
PURPLE - DATA+
PINK - DATA-

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.
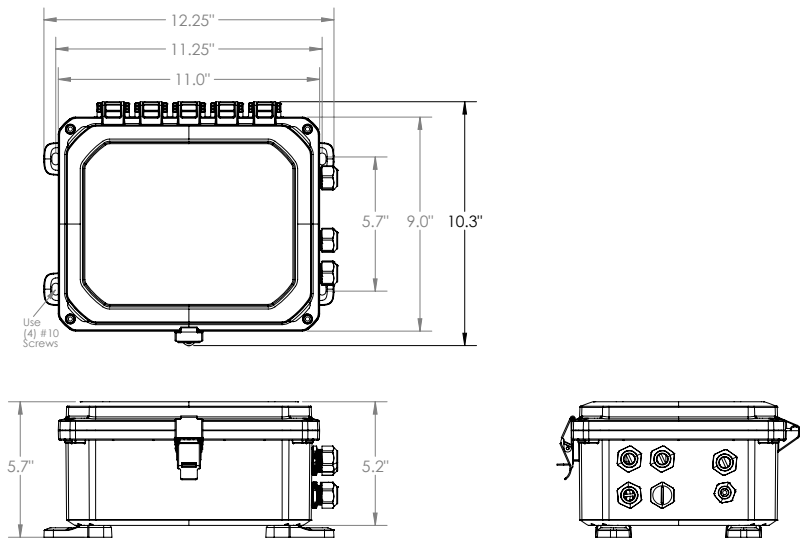
Connector Identification

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

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TG-DM-040325