SSL
solid state luminaires

Date:		Approved:
Type:		
Luminaire:		
Project:		

COLOURLINE COVE
Interior RGBW Luminaire

SPECIFICATIONS	
color temperature	RGBW / Tunable white

PHYSICAL	
beam spread	110° x 110°
LEDs per foot	(RGBW 4 in 1 multichip) - 10 per foot
weight	1 foot (.9 lbs) / 4 foot (3.6 lbs)
housing	anodized extruded aluminum housing with injection molded polycarbonate end caps
lens	diffuse polycarbonate
mounting	standard surface mount bracket with full 180° rotation (+/- 90° from center)
ingress protection	dry or damp locations IP43 rated
luminaire connections	daisy chain with male and female, 5-PIN connectors

PERFORMANCE	
lumen output [all on]	550 lm per foot (14 W/ft) / 381 lm per foot (9W/ft) / 212 lm per foot (5W/ft) @ 100% all colors
lumen maintenance	L70 > 70,000 hours
CCT Modes	dynamic white (2000K–6500K) color tuning range can be custom set at factory
operating temperature	-4°F to 104°F (-20°C to 40°C)
protocols	DMX 512, RDM (ANSI E1.20)
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.
ColourMode (CM)	RGBW and Tunable White in one luminaire using 6 DMX channels. Channels 1-4 - RGBW : Channels 5-6* - Tunable White (channel 5 = intensity and channel 6 = CCT) *Tunable White mode must use the entire luminaire as one unit.
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 color controller, 3rd party DMX 512, RDM standard based control systems
certification	ETL / cETL, FCC-Part 15
standards	UL-Class I
power consumption	1 ft @ full power (14W / 9W / 5W), 4 ft @ full power (56W / 36W / 20W)

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RF-DM-041525

Ordering Information

PART NUMBER

				110
CLCV				

MODEL	LENGTH	COLOR	OUTPUT	OPTICS
CLCV COLOURLINE COVE	**1** 12 in. [305 mm]	**RGBW** RGBW	**14W** 14W/ft	**110** 110° beam
	4 48 in. [1219 mm]	**RGBW-TW** RGBW & Tunable White	**9W** 9W/ft	
		TW Tunable White	**5W** 5W/ft	

Cable Accessories (order seperately)

REQUIRED: *Each linear run requires a Starter Cable and Terminator Cap. See page 5 for maximum run length.*

_____	**SCM10CL** 10 ft. Starter Cord	_____	**TCAPDCL** Data Terminator Cap (w/ 120 ohm resister)	_____	**EC12-10V** 12 in. Extension Cord	
_____	**SCM25CL** 25 ft. Starter Cord	_____	**DB10CL** 10 ft. Data Bridge Cable	_____	**EC24-10V** 24 in. Extension Cord	
		_____	**DB25CL** 25 ft. Data Bridge Cable	_____	**EC60-10V** 60 in. Extension Cord	
				_____	**EC120CL** 10 ft. Extension Cord	

Mounting Options (order seperately)

_____	**CA2-6** Cantilever Arm - 6"			
_____	**CA2-12** Cantilever Arm - 12"			
_____	**CA2-18** Cantilever Arm - 18"			

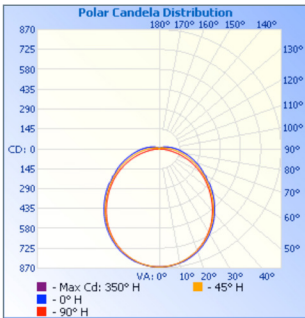| Fixture	CA2 Requirement per fixture
1-foot	1
4-foot	2

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

_____ **PHAROS XPT-5-W** Expert Touch Panel; 5" Display in White

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

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

_____ **PHAROS XPR** Expert Repeat (DMX Splitter with 1 in 4 out, 24V DC)

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

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

_____ **PHAROS TPC-FBB** Flush Mount Back Box for drywall installation

_____ **PHAROS TPC-SBB** Surface Mount Back Box for drywall installation

_____ **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)

_____ **EDN 10** 10 Ethernet Data Node (1+1 Ethernet, 10 DMX/RDM)

_____ **EDN 20** 20 Ethernet Data Node (1+1 Ethernet, 20 DMX/RDM)

_____ **DMXCat** DMX/RDM configuration tool

_____ **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** White or Black Slim ColourSelect Wall Controller *(2 universe)*

_____ **PS-SCSC** Power Supply for SCSC *(Slim ColourSelect)*

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

_____ **PS-CSC** Power Supply AC Adapter for CSC-E *(replacement)*

_____ **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

_____ **DINA-DR1** 3072 Channel (DMX, eDMX), DIN Rail

_____ **DINA-DR1 LITE** 1024 Channel (DMX), DIN Rail - upgradeable to DR-1

_____ **DINA-DR2** 1024 Channel (DMX), DIN Rail

_____ **DINA-DR2-LITE** 512 Channel (DMX), DIN Rail - upgradeable to DR-2

_____ **DINA PS** DINA Power Supply (by Nicolaudie)

_____ **NATOUCH-1** Wall mounted touch screen for remote control

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

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

_____ **DXC-100** 100 foot Exterior rated 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.*

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CLCV | 1FT | RGBW | 110°x110°

Polar Candela Distribution

870 725 580 435 290 145 CD: 0 145 290 435 580 725 870

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50°

VA: 0° 10° 20° 30° 40°

- Max Cd: 350° H
- 0° H
- 90° H
- 0° H
- -45° H

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	298 fc	4.8 ft	4.3 ft
3.3ft	79.0 fc	9.4 ft	8.4 ft
5.0ft	34.4 fc	14.2 ft	12.7 ft
6.7ft	19.2 fc	19.0 ft	17.1 ft
8.3ft	12.5 fc	23.6 ft	21.2 ft
10.0ft	8.60 fc	28.4 ft	25.5 ft

- Vert. Spread: 109.7°
- Horiz. Spread: 103.8°

CLCV-1-RGBW-RED ONLY

Spectroradiometric Parameters

Spectral Distribution

Nominal CCT:IEC_P2700
x0=0.4580 y0=0.4100
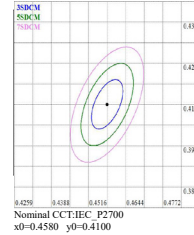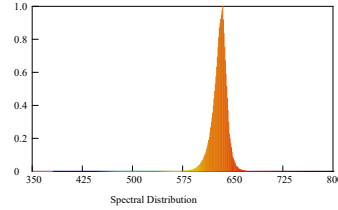
Dominant Wavelength: 622.0 nm(E)
Luminous Flux: 48.67 lm
Chromaticity Difference: -0.08736Duv
Bandwidth: 20.4nm
Purity: 1.0035
Peak Wavelength: 635.0 nm
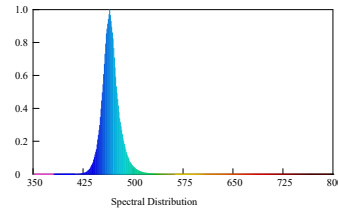Radiant Flux: 0.261 W

CLCV-1-RGBW-GREEN ONLY

Spectroradiometric Parameters

Spectral Distribution

Nominal CCT:IEC_F4000
x0=0.3800 y0=0.3800
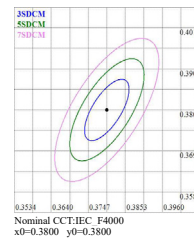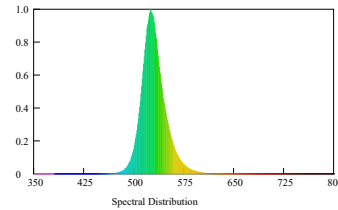
Dominant Wavelength: 532.0 nm(E)
Luminous Flux: 95.24 lm
Chromaticity Difference: +0.1522Duv
Bandwidth: 30.1nm
Purity: 0.8711
Peak Wavelength: 525.0 nm
Radiant Flux: 0.174 W

CLCV-1-RGBW-BLUE ONLY

Spectroradiometric Parameters

Spectral Distribution

Nominal CCT:IEC_F4000
x0=0.3800 y0=0.3800
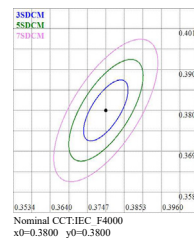
Dominant Wavelength: 468.0 nm(E)
Luminous Flux: 21.32 lm
Chromaticity Difference: -0.1744Duv
Bandwidth: 25.1nm
Purity: 0.8711
Peak Wavelength: 465.0 nm
Radiant Flux: 0.35 W

CLCV-1-RGBW-WHITE ONLY

Spectroradiometric Parameters

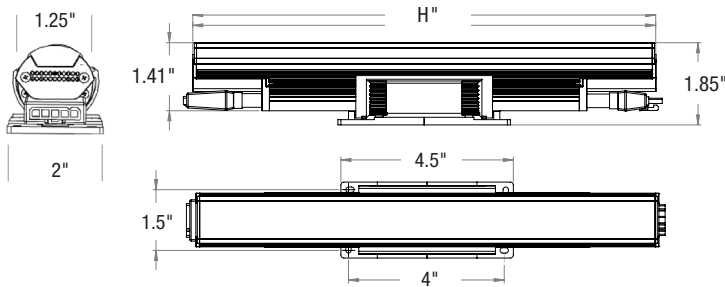Spectral Distribution

Nominal CCT:IEC_F3000
x0=0.4400 y0=0.4030
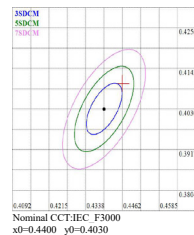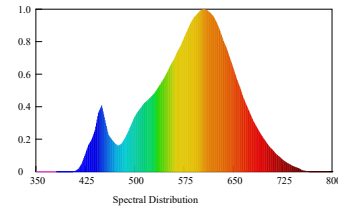
Correlated Color Temperature: 2898 K
Colour Fidelity Index: Rf=83
Luminous Flux: 102.14 lm
Chromaticity Difference: +0.00118Duv
Bandwidth: 130.2nm
Rendering Index: Ra=82.8

Dominant Wavelength: 581.0 nm(E)
Gamut Index: Rg=96
Purity: 0.5737
Peak Wavelength: 605.0 nm
Radiant Flux: 0.299 W

| R1=81 | R2=90 | R3=97 | R4=81 | R5=81 | R6=88 | R7=84 | R8=60 |
| R9=11 | R10=78 | R11=80 | R12=75 | R13=83 | R14=99 | R15=74 | Re=77 |

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RF-DM-041525

DIMENSIONS WITH STANDARD BRACKET

fixture length 1' and 4'
H = 12" (1') and 48" (4')

1.25"
1.41"
H "
1.85"
2"
4.5"
1.5"
4"

Standard 180° Adjustable Bracket

180°
Full Rotation
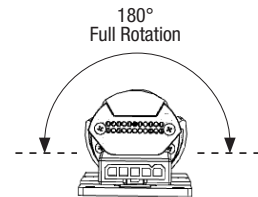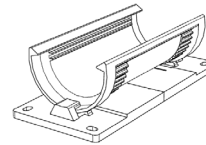
Mounting & Accessory Options

CANTILEVER ARM (CA2) - Available in 3 Lengths

CA2	arm length
CA2-6	6"
CA2-12	12"
CA2-18	18"

Luminaire	CA2 Requirement
1-foot	1
4-foot	2

6", 12", 18" Options
3"
1.2"
1"

SIDE VIEW

4.5"
4"
2.5"
4"
2.5"
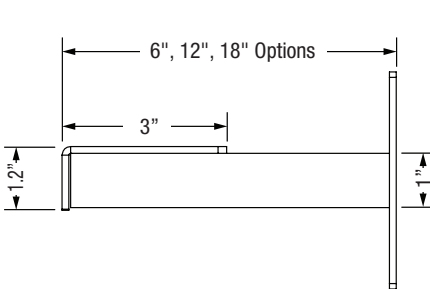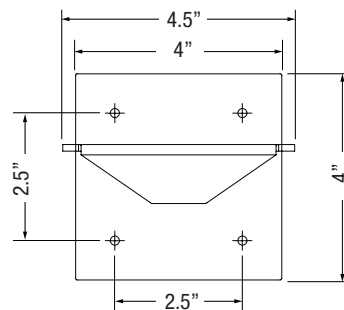
FRONT VIEW

ISOMETRIC VIEW

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RF-DM-041525
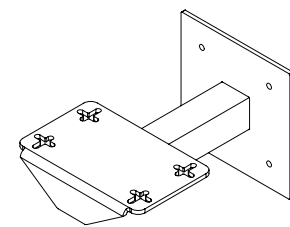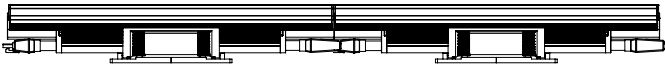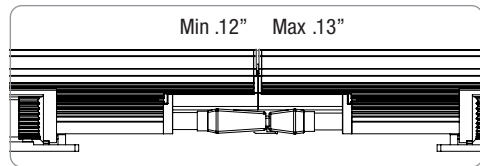
CONNECTIONS & CABLES

LINEAR LIGHTING RUN

Male / Female connectors on luminaires are used to make linear lighting runs by being connected End-to End, to create an even linear light pattern.
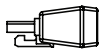
GAP BETWEEN CONNECTED LUMINAIRES

Luminaires connect closely together to ensure runs have an even linear light pattern.

Min .12"   Max .13"

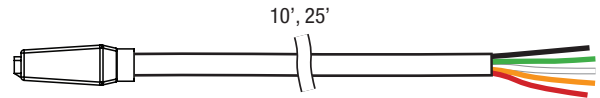### TERMINATOR CAP (TCAPDCL)

Required Terminator Cap is used at the end of each linear lighting run.

Data Terminator Cap
(w/ 120 ohm resister)

STARTER CORD (SCM10/25 CL)

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.

10', 25'

EXTENSION CORD (ECxx-10V) or (EC120CL)

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.

12", 24", 60", (120" EC120CL)
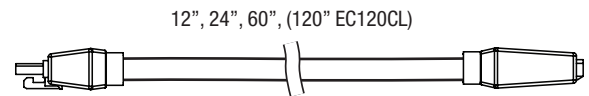
DATA BRIDGE CABLE (DBxxCL)

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.

10', 25'
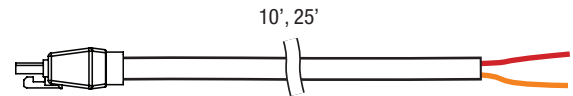
CLCV - SINGLE SEGMENT CONFIGURATION EXAMPLE

Max Run Lengths	120V	240V	277V
14W luminaire	48'	94'	108'
9W luminaire	72'	146'	169'
5W luminaire	132'	264'	305'

May add up to 50 feet of Extension or Starter Cord to above.

Component Identification

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

8) Extension Cord **ECxx-10V** or **EC120CL**
   (Can add up to 50' more Extension Cord to Max Run Length)
9) Last luminaire in the linear run
10) Terminator Cap **TCAPDCL** (required at end of run)
11) Last luminaire showing Data Bridge Cable connection
12) Data Bridge Cable **DBxxCL** to continue DMX Data only
13) PDX Box to connect Data Bridge Cable
14) Continuation of controlled luminaire run

7 Max Run Length

DMX Color Controller

PDX Line Power

Data Bridge Cable Connection

7 Max Run Length

DMX Color Controller

PDX Line Power

PDX Line Power
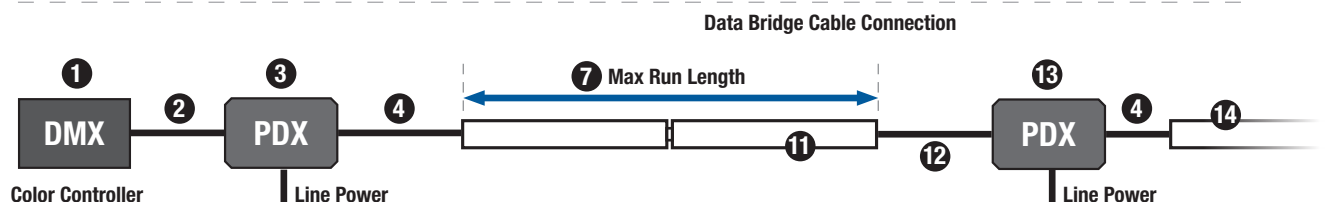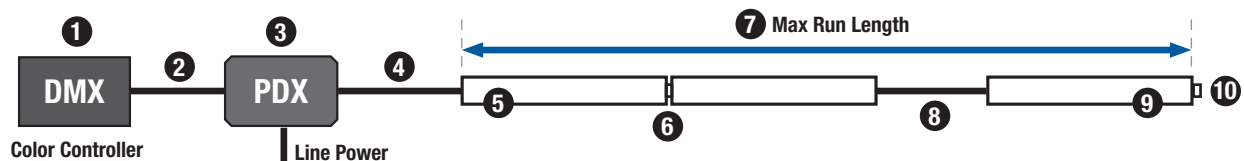
PERSONALITY - SET AT FACTORY FOR SPECIFIC CAPABILITIES

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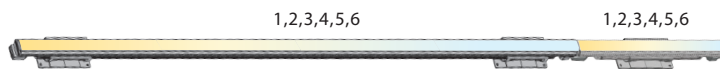
Personality 1   4 foot & 1 foot luminaires **configured 4 Channels per luminaire** (R,G,B,W)

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

Personality 2   4 foot & 1 foot luminaires **configured 2 channels per luminaire** (Color Tuning / Dynamic White) (No RGBW)

1, 2   3, 4

Personality 3   4 foot & 1 foot luminaires **configured 6 Channels per luminaire** to support
Digital Dual Mode 6-Channel DMX (Channel 1-4 RGBW, 5-Brightness, 6-Tunable White CCT)

1,2,3,4,5,6   1,2,3,4,5,6

Personality 4   4 foot luminaire (only) **configured in 2 foot increments** (4 Channels / 2 ft - R,G,B,W)

1,2,3,4   5,6,7,8   9,10,11,12   13,14,15,16

Personality 5   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

ColourLine Cove

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 CLCV 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.
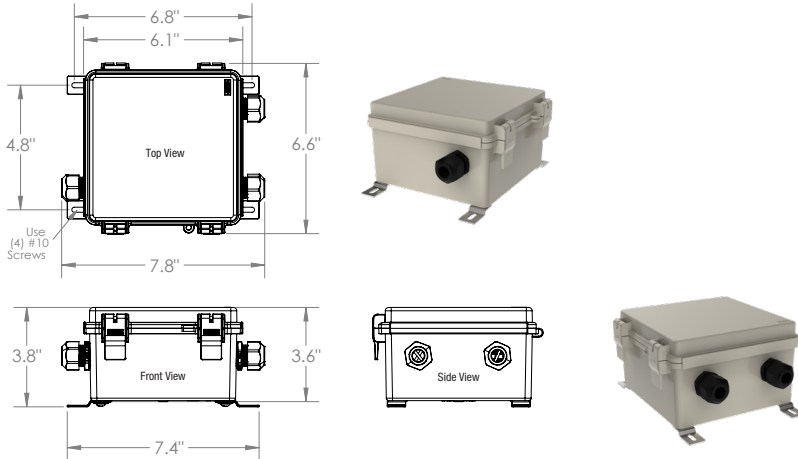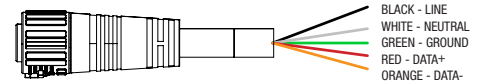
PDX2 Wiring for ColourLine Series

TOP VIEW
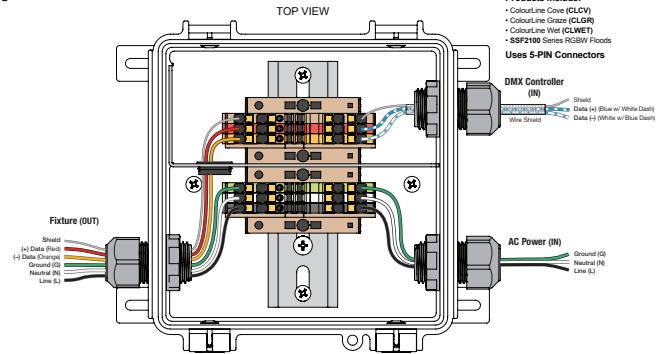
Products include:
• ColourLine Cove **(CLCV)**
• ColourLine Graze **(CLGR)**
• ColourLine Wet **(CLWET)**
• **SSF2100** Series RGBW Floods
Uses 5-PIN Connectors

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

Fixture (OUT)
Shield
(+) Data (Red)
(-) Data (Orange)
Ground (G)
Neutral (N)
Line (L)

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

6.8"
6.1"
Top View
4.8"
6.6"
Use (4) #10 Screws
7.8"

3.8"
Front View
3.6"
Side View
7.4"

Starter Cable out to luminaire

BLACK - LINE
WHITE - NEUTRAL
GREEN - GROUND
RED - DATA+
ORANGE - 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.
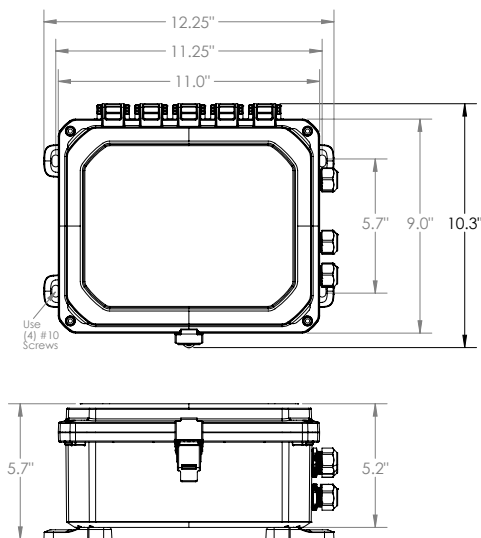
Connector Identification
1) AC Input (Line power)
2) DMX Data Cable **DXC-xx** or **CD-xx** (CSC only)
3) Starter Cord **SCxxLZWET** one
4) Starter Cord **SCxxLZWET** two
5) Auxiliary Ground

12.25"
11.25"
11.0"
5.7" 9.0" 10.3"
Use (4) #10 Screws

5.7"
5.2"

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