

**COLOURLINE GRAZE**

Interior RGBW fixture



**SPECIFICATIONS**

<b>color temperature</b>	<b>RGBW / Tuneable white</b>
<b>PHYSICAL</b>	
<b>beam spread</b>	12° x 12°   15° x 40°   20° x 10°   20° x 40°   25° x 25°   30° x 60°   40° x 15°   40° x 40°
<b>LEDs per foot</b>	(RGBW 4 in 1 multichip) - 10 per foot
<b>weight</b>	1 foot (.9 lbs) / 4 foot (3.6 lbs)
<b>housing</b>	anodized extruded aluminum housing with injection molded polycarbonate end caps
<b>lens</b>	clear polycarbonate
<b>mounting</b>	standard surface mount bracket with full 180° rotation (+/- 90° from center)
<b>ingress protection</b>	dry or damp locations IP43 rated
<b>fixture connections</b>	daisy chain with male and female, 5-PIN connectors

**PERFORMANCE**

<b>lumen output [ all on ]</b>	550 lm per foot (14 W/ft) / 381 lm per foot (9W/ft) / 212 lm per foot (5W/ft) @ 100% all colors
<b>lumen maintenance</b>	≥ 70,000 hours / L70
<b>CCT Modes</b>	dynamic white (2000K–6500K) color tuning range can be custom set at factory
<b>operating temperature</b>	-4°F to 104°F (-20°C to 40°C)
<b>protocols</b>	DMX 512, RDM (ANSI E1.20)
<b>ColourQuick (CQ)</b>	provides uniform beam saturation, instantaneously without scalloping
<b>ColourClone (CC)</b>	manufacturing process uses robotic systems to provide 1 SDCM like consistency between luminaires by calibrating every fixture to the same exact X, Y, chromaticity coordinates
<b>ColourSoft (CS)</b>	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 (CM)</b>	RGBW and Tuneable White in one fixture using 6 DMX channels. Channels 1-4 - RGBW : Channels 5-6* - Tuneable White (channel 5 = intensity and channel 6 = CCT) *Tuneable White mode must use the entire fixture as one unit.
<b>warranty</b>	5-Year limited warranty (refer to website for details)

**ELECTRICAL**

<b>input voltage</b>	Universal 120–277V AC
<b>power supply</b>	integral Class II, electronic high-power factor 99% @ 120V
<b>controls</b>	SSL color controller   3rd party DMX 512, RDM standard based control systems
<b>certification</b>	ETL / cETL, FCC-Part 15
<b>standards</b>	UL-Class I
<b>power consumption</b>	1 ft @ full power (14W / 9W / 5W)   4 ft @ full power (56W / 36W / 20W)

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# Ordering Information

## PART NUMBER

CLGR	MODEL	LENGTH	COLOR	OUTPUT	OPTICS	OPTIONS (CHOOSE 1)
CLGR	COLOURLINE GRAZE	1 12 in. [305 mm]	RGBW RGBW	14W 14W/ft	12 12° x 12° beam	CGL-1 ColourLine Graze Louver- 1ft
		4 48 in. [1219 mm]	RGBW-TW RGBW & Tuneable White	9W 9W/ft	1530 15° x 40° beam	CGL-4 ColourLine Graze Louver- 4ft
		TW Tuneable White	5W 5W/ft	2010 20° x 10° beam	CGHS-1 Louver w/House Shield -1ft	
				2040 20° x 40° beam	CGHS-4 Louver w/House Shield -4ft	
				25 25° x 25° beam		
				3060 30° x 60° beam		
			4015 40° x 15° beam			
			40 40° x 40° beam			

## Cable Accessories (order separately)

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

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

## Mounting Options (order separately)

	Fixture	CA2 Requirement per fixture
_____ <b>CA2-6</b> Cantilever Arm - 6"	1-foot	1
_____ <b>CA2-12</b> Cantilever Arm - 12"	4-foot	2
_____ <b>CA2-18</b> Cantilever Arm - 18"		

_____ <b>PHAROS TPS-5-B</b> 5" Designer Touch Panel Station	_____ <b>CSC-E</b> ColourSelect Controller (2 universe)
_____ <b>PHAROS XPC1</b> Expert Controller; 512 channels of eDMX/DMX	_____ <b>DE3BK(WH)</b> Nicolaudie STICK DE-3 Black or White Wall Mount Controller w/color dial
_____ <b>PHAROS XPC2</b> Expert Controller; 1024 channels of eDMX/DMX	_____ <b>CW4-WH</b> Nicolaudie STICK White Touch Screen with Internal WiFi
_____ <b>PHAROS XPT-5-B</b> Expert Touch Panel; 5" Display in Black	_____ <b>GA2WH(BK)</b> Nicolaudie STICK-GA2 White or Black Wall Mount Controller
_____ <b>PHAROS TPC-BB</b> Touch Panel Controller - Black on Black (512 Channels EDMX)	_____ <b>DXC-25</b> 25 foot DMX cable
_____ <b>PHAROS EXT</b> Extension for TPC Connectivity	_____ <b>DXC-50</b> 50 foot DMX cable
_____ <b>PHAROS LPC1</b> Lighting Playback Controller 1 (512 channels DMX/eDMX)	_____ <b>DXC-100</b> 100 foot DMX cable
_____ <b>PHAROS LPC2</b> Lighting Playback Controller 2 (1,024 channels DMX/eDMX)	_____ <b>CD-10</b> 10 foot controller data cable (for CSC only)
_____ <b>PDX</b> Power Data Wiring Box (exterior rated)	_____ <b>CD-25</b> 25 foot controller data cable (for CSC only)
_____ <b>PDX-S</b> Power Data Wiring Box w/2-port splitter	_____ <b>CD-50</b> 50 foot controller data cable (for CSC only)
_____ <b>PDX-RS4</b> Power Data Wiring Box w/4-port splitter	_____ <b>CD-100</b> 100 foot controller data cable (for CSC only)
_____ <b>CL-RS4</b> 4 Port RDM splitter w/120V power supply	_____ <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)

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

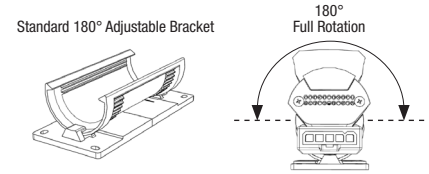
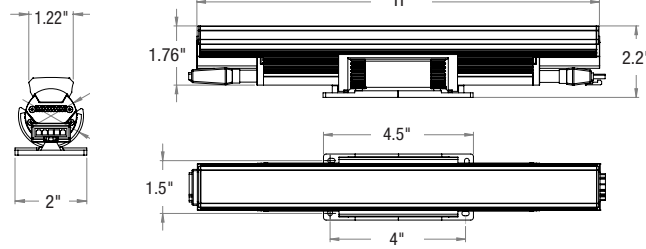
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# Dimensions

# ColourLine Graze

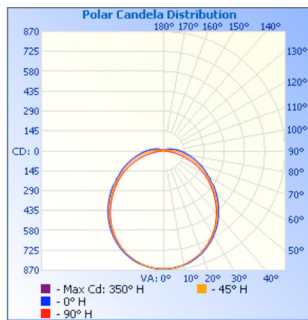
## DIMENSIONS WITH STANDARD BRACKET

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



# Photometry

## CLGR 1FT RGBW

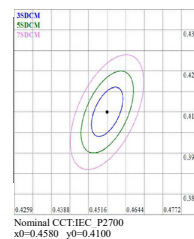
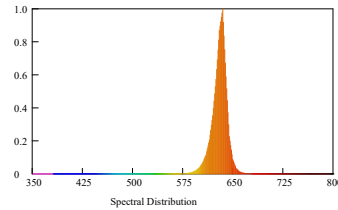


Center Beam Fc	Beam Width
1.7ft	298 fc 4.8 ft 4.3 ft
3.3ft	79.0 fc 9.4 ft 8.4 ft
5.0ft	34.4 fc 14.2 ft 12.7 ft
6.7ft	19.2 fc 19.0 ft 17.1 ft
8.3ft	12.5 fc 23.6 ft 21.2 ft
10.0ft	8.60 fc 28.4 ft 25.5 ft

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

### CLGR-1-RGBW-RED ONLY

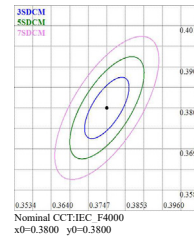
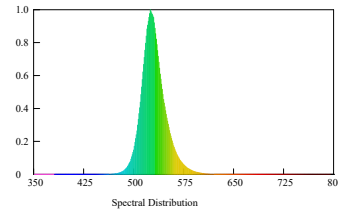
#### Spectroradiometric Parameters



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

### CLGR-1-RGBW-GREEN ONLY

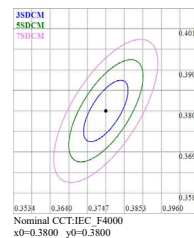
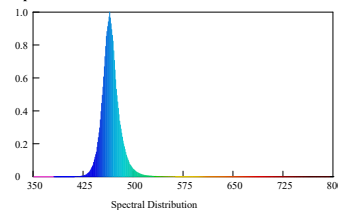
#### Spectroradiometric Parameters



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

### CLGR-1-RGBW-BLUE ONLY

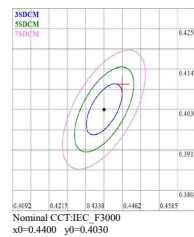
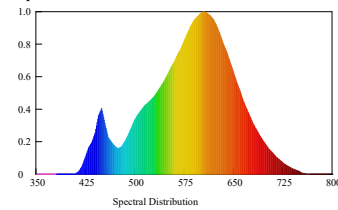
#### Spectroradiometric Parameters



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

### CLGR-1-RGBW-WHITE ONLY

#### Spectroradiometric Parameters

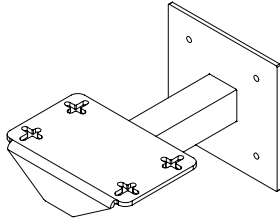


Correlated Color Temperature: 2898 K  
Colour Fidelity Index: Rf=83  
Luminous Flux: 102.14 lm  
Chromaticity Difference: +0.00118Duv  
Bandwidth: 130.2nm  
Rendering Index: Ra=82.8  
Dominant Wavelength: 581.0 nm(E)  
Gamut Index: Rg=96  
Purity: 0.5737  
Peak Wavelength: 605.0 nm  
Radiant Flux: 0.299 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

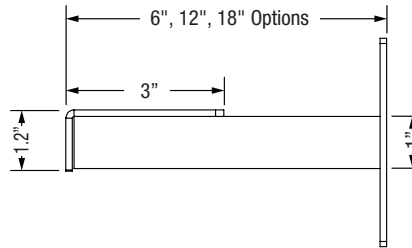
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### CANTILEVER ARM (CA2) - Available in 3 Lengths

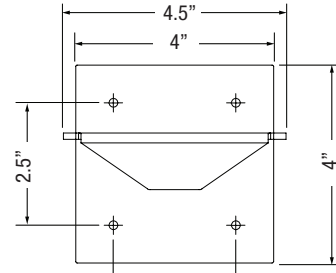
CA2	arm length	Fixture	CA2 Requirement
CA2-6	6"	1-foot	1
CA2-12	12"	4-foot	2
CA2-18	18"		



ISOMETRIC VIEW



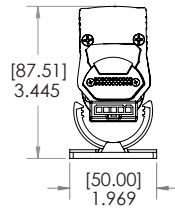
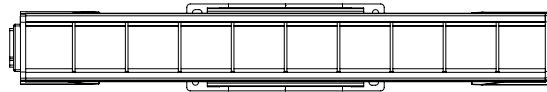
SIDE VIEW



FRONT VIEW

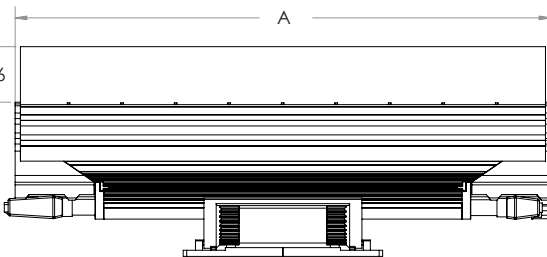
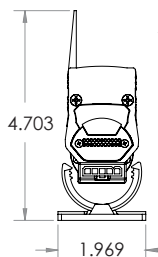
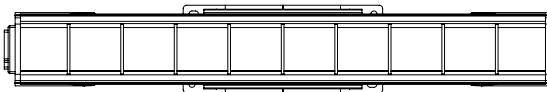
### LOUVER (CGL)

	(A) louver length
CGL-1	12"
CGL-4	48"



### LOUVER with HOUSE SHIELD (CGHS)

	(A) louver length
CGHS-1	12"
CGHS-4	48"

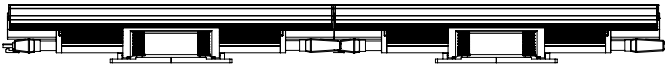


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### CONNECTIONS & CABLES

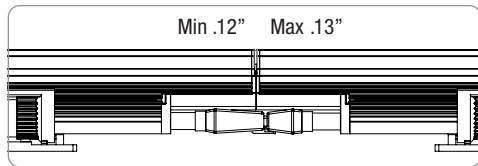
#### LINEAR LIGHTING RUN

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



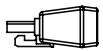
#### GAP BETWEEN CONNECTED FIXTURES

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



#### TERMINATOR CAP (TCAPDCL)

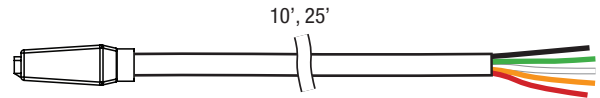
Required Terminator Cap is used at the end of each linear lighting run.



Data Terminator Cap  
(w/ 120 ohm resistor)

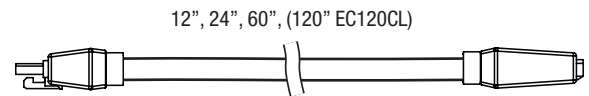
#### STARTER CORD (SCM10/25CL)

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



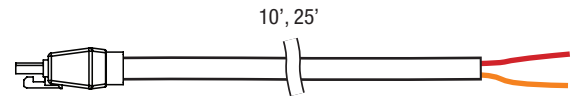
#### EXTENSION CORD (ECxx-10V) or (EC120CL)

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



#### DATA BRIDGE CABLE (DBxxCL)

Provides continuation of DMX Data only, from the end of one run to the PDX box of the next run. Fixture connection at one end and lead wires at the other.



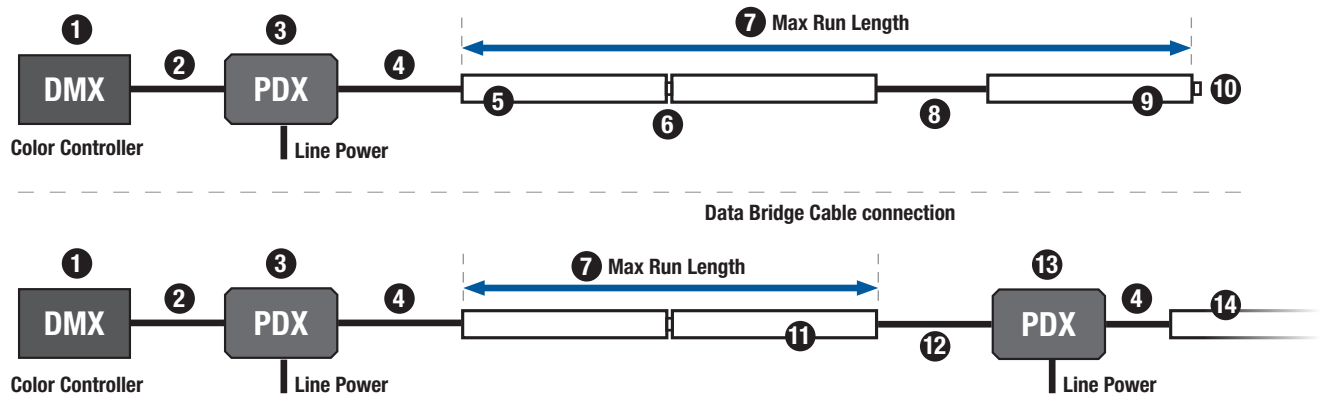
### CLCV - SINGLE SEGMENT CONFIGURATION EXAMPLE

Max Run Lengths	120V	240V	277V
14W fixture	48'	94'	108'
9W fixture	72'	146'	169'
5W fixture	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 fixture begins Linear Run
- 6) Fixtures connect end to end
- 7) Distance from 1st to last fixture in linear run
- 8) Extension Cord **ECxx-10V** or **EC120CL**  
(Can add up to 50' more Extension Cord to Max Run Length)
- 9) Last fixture in the linear run
- 10) Terminator Cap **TCAPDCL** (required at end of run)
- 11) Last fixture 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 fixture run



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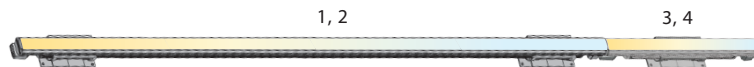
### PERSONALITY - SET AT FACTORY FOR SPECIFIC CAPABILITIES

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 fixtures **configured 4 Channels per fixture** (R,G,B,W)



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



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



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



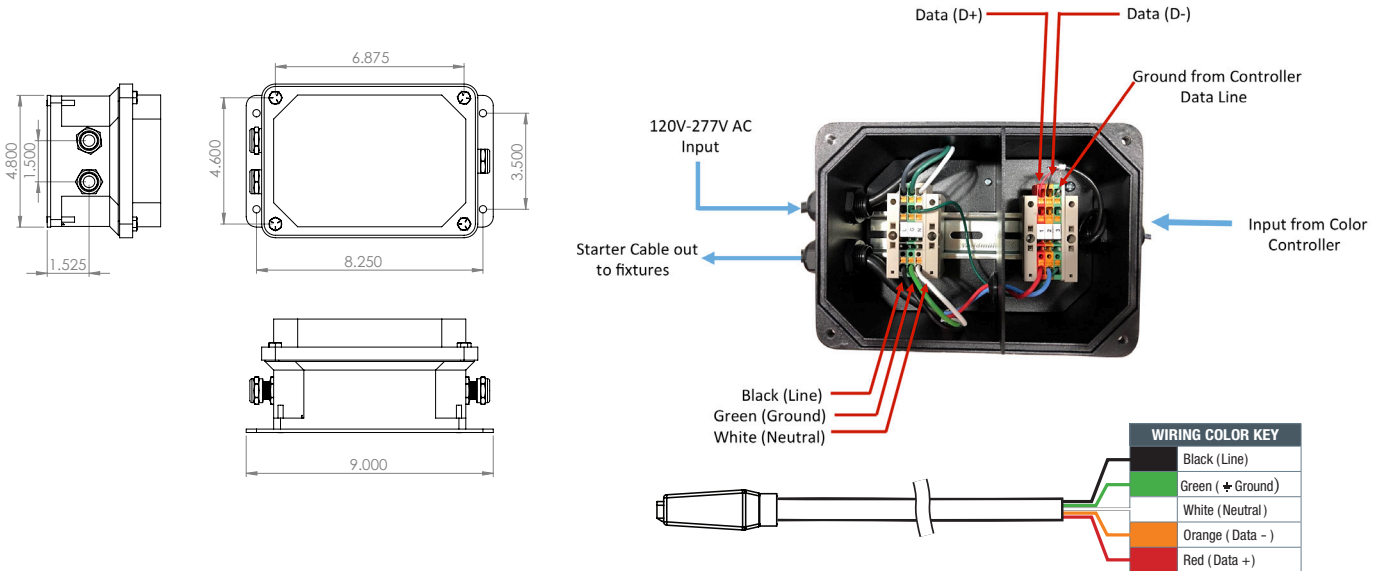
**Personality 5** 4 foot fixture (only) **configured in 1 foot increments** (4 Channels/1ft - R,G,B,W)



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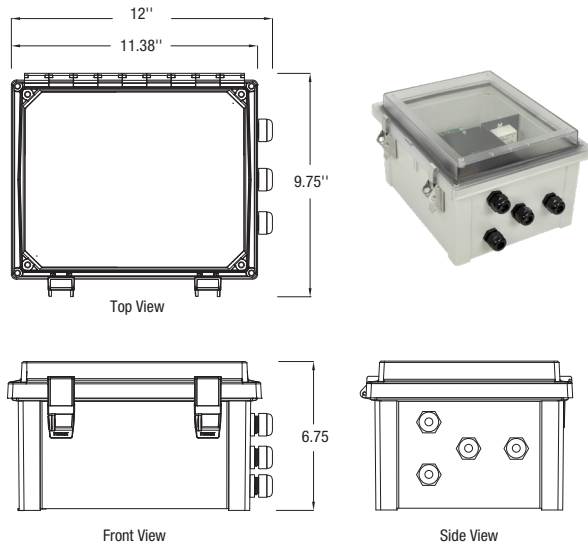
### PDX - POWER DATA WIRING BOX (ONE PDX REQUIRED PER RUN)

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



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

The PDX-S 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. It consolidates multiple input sources into two outputs to the CLWET fixtures. Data input from the RDM Color controller and AC input combine to provide output to two Starter Cords.



#### Connector Identification

- 1) AC Input (Line power)
- 2) DMX Data Cable **DXC-xx** or **CD-xx** (CSC only)
- 3) Starter Cord **SCMxxCL** one
- 4) Starter Cord **SCMxxCL** two



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# Color Controls

## DMX / RDM PROTOCOL CONTROLLERS



### PHAROS TPC-BB - Pharos Touch Panel Controller - Black on Black finish

TPC Touch Panel Controller is an elegant lighting controller with a customizable 4.3" touch screen, 512 channels of eDMX output and flexible interfacing potential. The TPC must work in conjunction with the EXT or LPC. Pharos Backbox is available for mounting.



### PHAROS EXT - Extension Device for TPC Connectivity

The Pharos EXT is an extension for the Pharos TPC for making the physical DMX or eDMX output connections. It also provides a PoE connection for the TPC. It's DIN rail mounted. This device supports electrical input of 120-240V AC power.



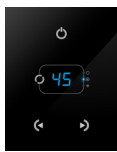
### PHAROS LPC - Lighting Playback Controller

Pharos offers two playback controllers, LPC1 (512 channels DMX/eDMX) and LPC2 (1024 channels DMX/eDMX) Pharos LPC (Lighting Playback Controller) is a versatile control solution. The LPC family features individually controllable and independently running timelines and scenes, letting you build dynamic, precise, fully customizable lighting effects. The LPC can be ordered with 1 to 100 Universe capability. It requires a TPC or PC to interface and is powered via 9V to 48V DC or PoE (IEEE802.3af, Class 2), 4W typical.



### DE3BK(WH) - Nicolaudie STICK-DE3 Black or White Wall Mount Controller with color dial

STICK DE3 provides an elegant solution to controlling your DMX fixtures. The glass, touch-sensitive panel can be used in multiple ways to select a programmed scene, change a color attribute or directly select a color from the color wheel. Scenes are displayed on the graphical color display. The DE3 provides 1024 DMX Channels with up to 500 scenes and 10 separate zones can be created and controlled separately. 120V AC is required for operation. The DE3 is programmed via Nicolaudie's ESA2 or ESA PRO software. Programs are stored on the internal MicroSD card.



**CW4-WH - Nicolaudie STICK CW4 White Touch Screen with Internal WiFi** CW4 touch controller provides 1024 channels of control. 36 scenes can be created in 1 zone. An internal access point provides remote control via any WiFi device using the Lightpad app from Nicolaudie.

### GA2BK(WH) - Nicolaudie STICK-GA2 Black or White Wall Mount Controller

GA2 is an economical controller with glass, touch-sensitive screen for basic control of up to 99 scenes and 1 available zone. It can control 512 DMX Channels. An LED display makes it easy to determine which scene number is playing.



### CSC-E - SSL ColourSelect Controller

ColourSelect Controller 2 Universe provides (1024 Channels) of output data capable of controlling 5 zones independently. CSC-E has two 3-pin female XLR connectors to connect to your DMX network and is defaulted in splitter mode, so two separate runs can be connected and controlled. It can store a total of 80 programmable presets. Additionally buttons control speed, dimming, scenes and static colors. The CSC can be powered via a PC USB port or with the PS-CSC external 120V AC power supply included.



**SCSC-2WH (or 2BK) - SLIM White ColourSelect Controller** Wall mount versions of the CSC-E, includes power supply.

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