ColourLine™ Wet (CLWET) - INSTALLATION and OPERATION INSTRUCTIONS

CAUTION: BEFORE CONNECTING THE FIXTURE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

DETAILED ILLUSTRATION

GENERAL:

1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

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3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

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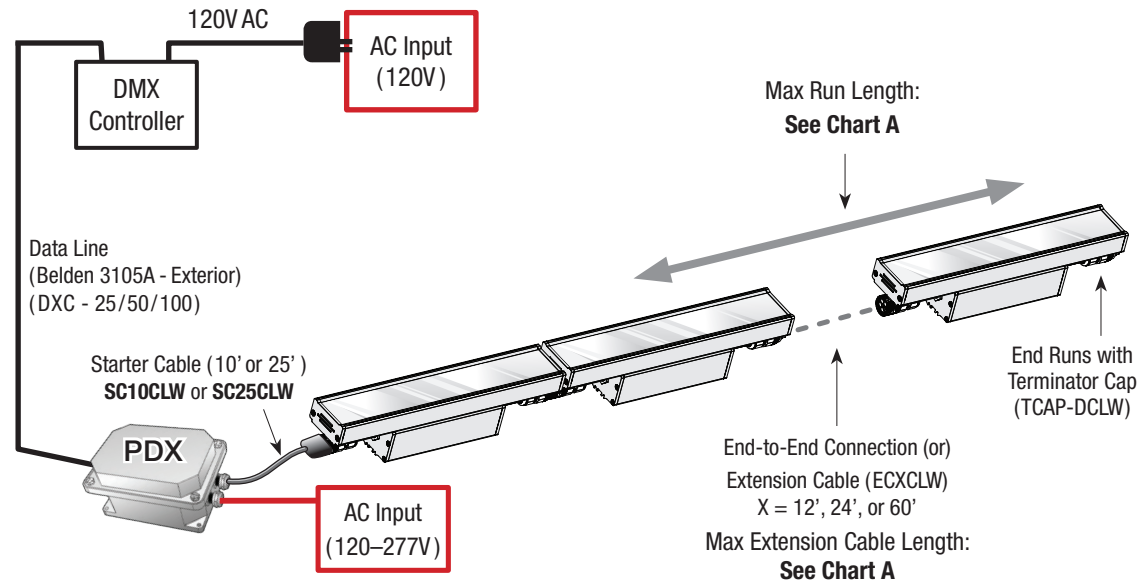
INSTALLATION:

1) Verify Physical Layout Plan

   a) Ensure all hardware is present.

   b) Ensure all electrical feeds are correctly positioned with all hardware and any other active components.

   c) Confirm DMX Addressing Plan
      i. SSL recommends pre-addressing fixtures before mounting installation.
      ii. Ensure that addressing is documented for future upgrading, configuring or troubleshooting.
      iii. Create an addressing table to document all fixture IDs and their physical location.

3-1677980

The bottom of each fixture has a unique factory ID number and barcode.

HARDWARE: May include RDM Controller, Exterior Rated Data Line, AC Power Feed, PDX/S box, PDX box, Starter Cords, Terminator Caps, Extension Cables and fixtures.

NOTE: Use Extension Cable when necessary, for corners and extending fixture runs.

IMPORTANT: Max Run Length: See **Chart A**

REQUIRED: Starter Cable (SC10CLW or SC50CLW) and Terminator Cap (TCAP DCLW) are required for every run.

CLWET RGBW - Single Segment Configuration

120V AC

AC Input (120V)

DMX Controller

Max Run Length:
See Chart A

Data Line
(Belden 3105A - Exterior)
(DXC - 25/50/100)

Starter Cable (10' or 25')
SC10CLW or **SC25CLW**

PDX

AC Input (120–277V)

End Runs with Terminator Cap (TCAP-DCLW)

End-to-End Connection (or)
Extension Cable (ECXCLW)
X = 12', 24', or 60'
Max Extension Cable Length:
See Chart A

Chart A

Max run length	120V	240V	277V	Extension Cables
15W	85'	169'	196'	Up to 20' (optional)
8W	131'	262'	304'	Up to 20' (optional)
5W	237'	475'	550'	Up to 20' (optional)

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ColourLine™ Wet (CLWET) - INSTALLATION and OPERATION INSTRUCTIONS

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DETAILED ILLUSTRATION

SSL
solid state luminaires

corporate
t (877) SSL-GREEN
f (630) 889-8106
3609 Swenson Ave.
St. Charles, IL 60174

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      i. SSL recommends pre-addressing fixtures before mounting installation.
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3-1677980

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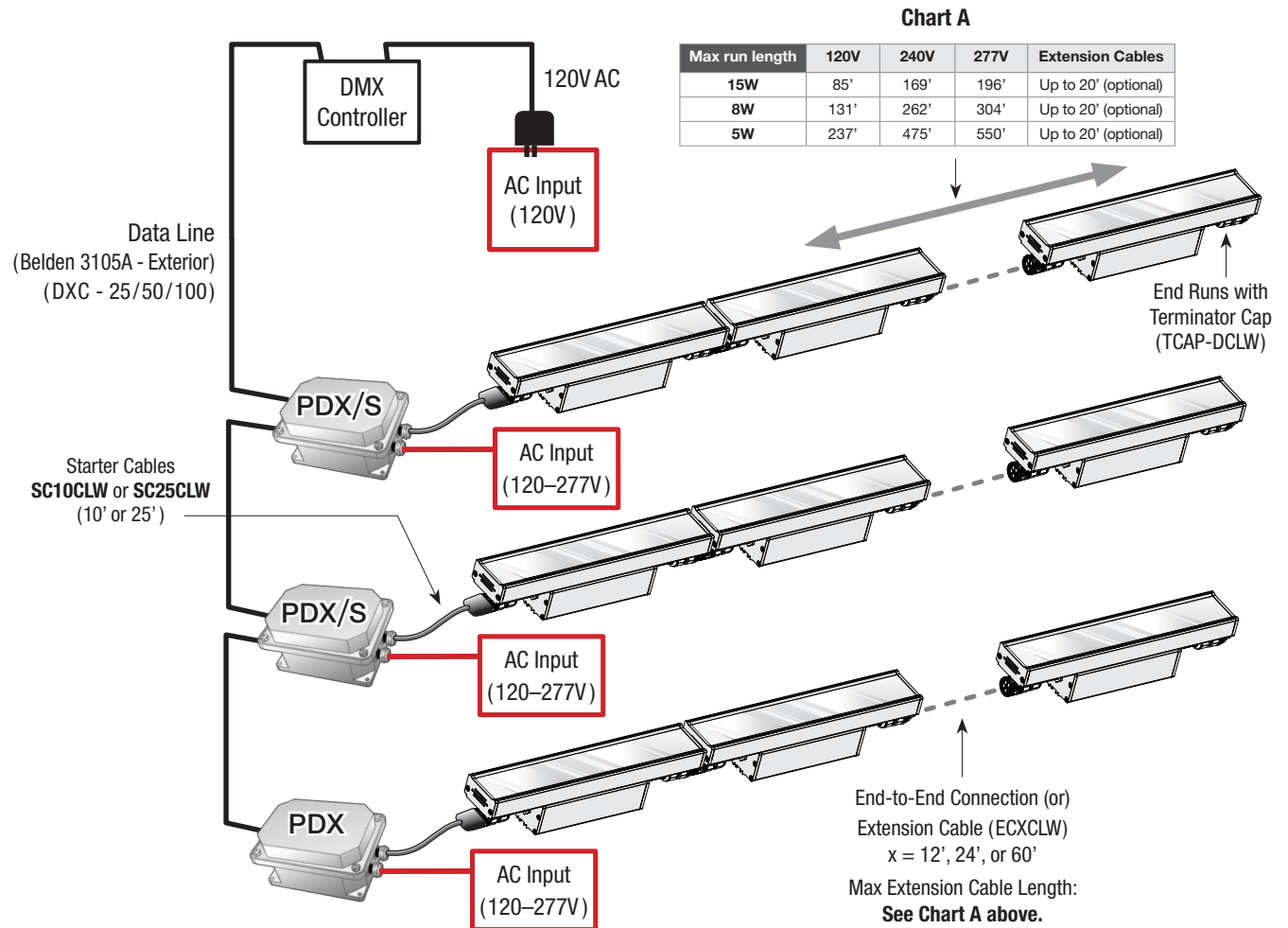
HARDWARE: May include RDM Controller, Exterior Rated Data Line, AC Power Feed, PDX/S box, PDX box, Starter Cords, Terminator Caps, Extension Cables and fixtures.

NOTE: Use Extension Cable when necessary, for corners and extending fixture runs.

IMPORTANT: Max Run Length: See **Chart A**

REQUIRED: Starter Cable (SC10CLW or SC50CLW) and Terminator Cap (TCAP DCLW) are required for every run.

CLWET RGBW - Multiple Segment Configuration

DMX Controller

120V AC

AC Input (120V)

Data Line
(Belden 3105A - Exterior)
(DXC - 25/50/100)

Chart A

Max run length	120V	240V	277V	Extension Cables
15W	85'	169'	196'	Up to 20' (optional)
8W	131'	262'	304'	Up to 20' (optional)
5W	237'	475'	550'	Up to 20' (optional)

End Runs with Terminator Cap (TCAP-DCLW)

PDX/S

AC Input (120–277V)

Starter Cables
SC10CLW or **SC25CLW**
(10' or 25')

PDX/S

AC Input (120–277V)

PDX

AC Input (120–277V)

End-to-End Connection (or)
Extension Cable (ECXCLW)
x = 12', 24', or 60'

Max Extension Cable Length:
See Chart A above.

Rev 119

ColourLine™ Wet (CLWET) - INSTALLATION and OPERATION INSTRUCTIONS

CAUTION: BEFORE CONNECTING THE FIXTURE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

DETAILED ILLUSTRATION

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   a) Ensure all hardware is present.
   b) Ensure all electrical feeds are correctly positioned with all hardware and any other active components.
   c) Confirm DMX Addressing Plan
      i. SSL recommends pre-addressing fixtures before mounting installation.
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      iii. Create an addressing table to document all fixture IDs and their physical location.

The bottom of each fixture has a unique factory ID number and barcode.

3-1677980

HARDWARE: May include RDM Controller, Exterior Rated Data Line, AC Power Feed, PDX/S box, PDX box, Starter Cords, Terminator Caps, Extension Cords and fixtures.

NOTE: Use Extension Cable when necessary, for corners and extending fixture runs.
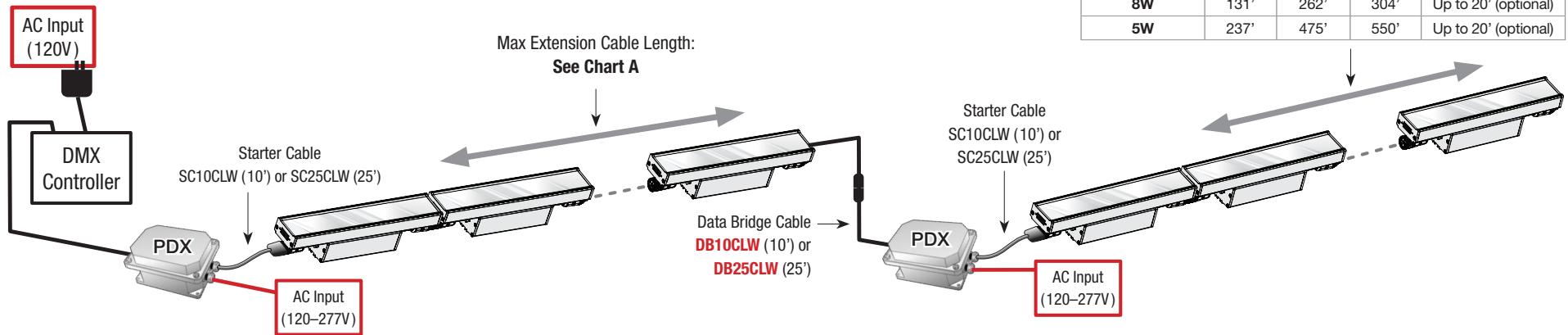**IMPORTANT**: Max Run Length: **See Chart A**

REQUIRED: Starter Cable (SC10CLW or SC50CLW) and Terminator Cap (TCAP DCLW) are required for every run.

REQUIRED: Data Extender Cable (**ED10CLW** 10ft or **ED50CLW** 50ft) for extending each Max Run Length segment.

Chart A

Max run length	120V	240V	277V	Extension Cables
15W	85'	169'	196'	Up to 20' (optional)
8W	131'	262'	304'	Up to 20' (optional)
5W	237'	475'	550'	Up to 20' (optional)

CLWET RGBW - Extended Segment Configuration

AC Input (120V)

DMX Controller

Starter Cable SC10CLW (10') or SC25CLW (25')

Max Extension Cable Length: **See Chart A**

PDX

AC Input (120–277V)

Data Bridge Cable **DB10CLW** (10') or **DB25CLW** (25')

PDX

AC Input (120–277V)

Starter Cable SC10CLW (10') or SC25CLW (25')

3 Max Run Length Extended Segments

Three Max Run Length Segments can be connected before requiring a Repeater.

| PDX | Segment 1 | PDX | Segment 2 | PDX | Segment 3 | Repeater | PDX | Segment 4 | PDX | Segment 5 |

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ColourLine™ Wet (CLWET) - INSTALLATION and OPERATION INSTRUCTIONS

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DETAILED ILLUSTRATION

SSL
solid state luminaires

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INSTALLATION:

2) Personality Configuration
   a) The CLWET "Personality" is the resolution increments that can be configured via software.

NOTE: Personality configuration must be set before setting the DMX addresses.

NOTE: Each increment shows the number of DMX addresses that are used in each fixture for the corresponding personality.

NOTE: Personality 4 shows 6 DMX addresses (channels) representing R, G, B , W, Brightness and Tuneable White.

ColourMode RGBW & TUNEABLE WHITE IN ONE

SSL uses Digital Dual Mode (DDM) technology to provide RGBW and Tuneable White in one fixture! SSL firmware is designed to use 6 DMX channels in the DDM Personality Mode. Maximum Mood Enhancement is available to use for any type of environment. Channels 1-4 are reserved for RGBW. Channels 5-6 are used for Tuneable White. Channel 5 controls intensity while channel 6 controls White color temperature.
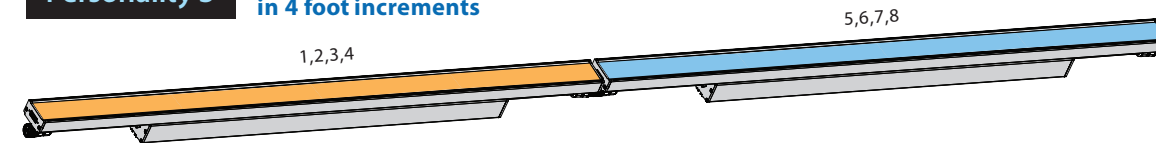
CLWET - RGBW Personality Options

**Personality 1** | 4 foot fixture **configured in 1 foot increments**

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
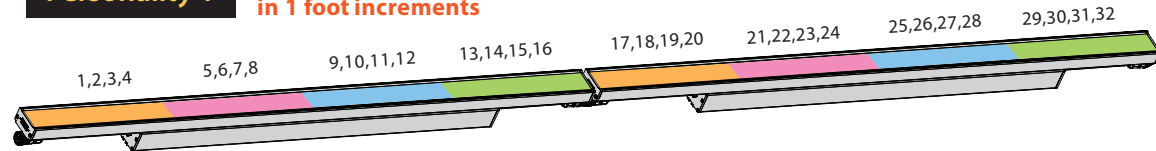
Personality 2 | 4 foot fixture **configured in 2 foot increments**

1,2,3,4   5,6,7,8   9,10,11,12   13,14,15,16
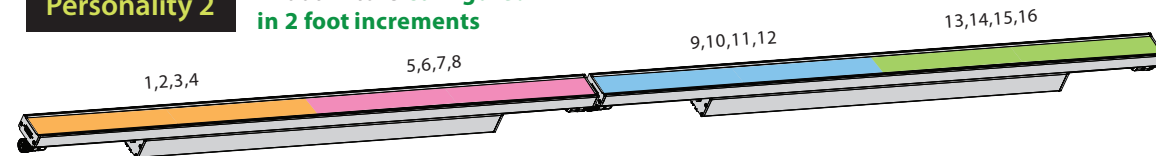
Personality 3 | 4 foot fixture **configured in 4 foot increments**

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

Personality 4 | 4 foot fixture **configured in 4 foot increments** to support **Digital Dual Mode 6-Channel DMX - Channel 5-6 for Tuneable White CCT**

1,2,3,4,5,6   1,2,3,4,5,6
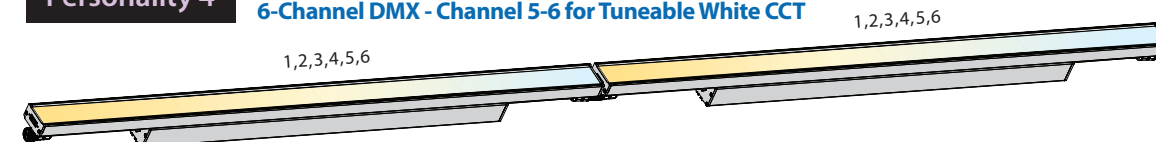
Each increment above shows 6 DMX addresses representing R, G, B, W, Brightness & Tuneable White CCT.

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ColourLine™ Wet (CLWET) - INSTALLATION and OPERATION INSTRUCTIONS

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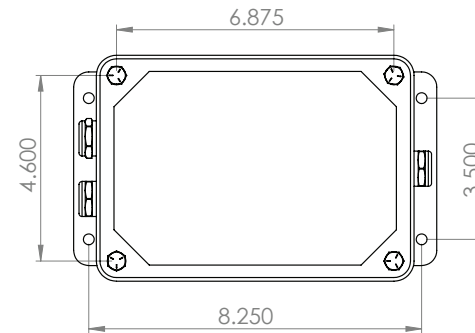
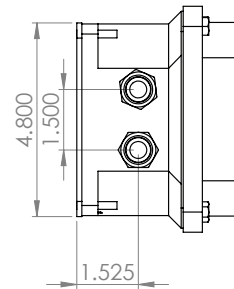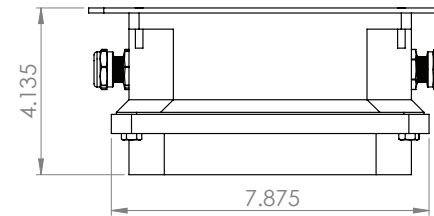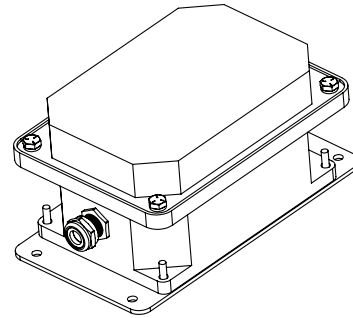## DETAILED ILLUSTRATION

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INSTALLATION:

3) PDX (Power/Data Box)
   a) Mount PDX (PDX is exterior-rated).

NOTE: Use appropriate fasteners for mounting to surface type.

Enlarged View
(Pinout Detail)

COLOR KEY	
1	Black (+ Positive)
2	White (− Neutral)
3	Green (⏚ Ground)
4	Red (<+ Data [+])
5	Orange (<- Data [-])

Rev 119

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DETAILED ILLUSTRATION

SSL
solid state luminaires

corporate
t (877) SSL-GREEN
f (630) 889-8106
3609 Swenson Ave.
St. Charles, IL 60174

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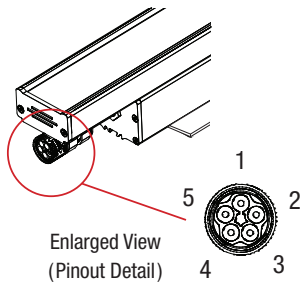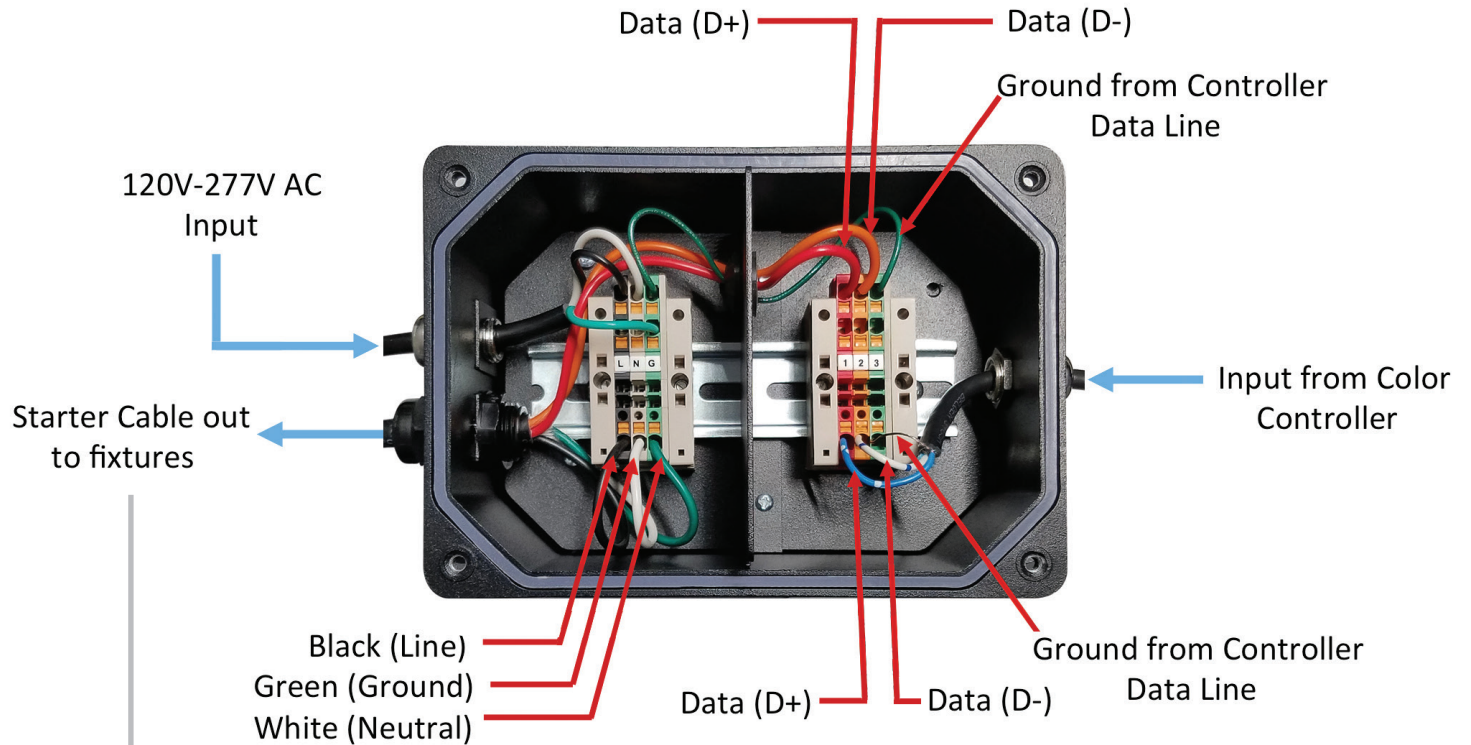
NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION:

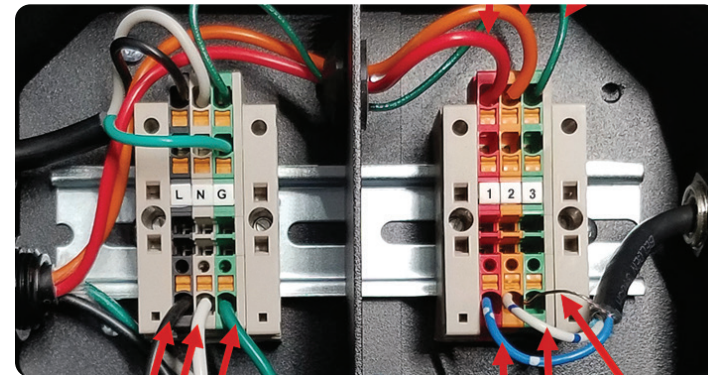3) PDX (Power/Data Box)

   a) Mount PDX (PDX is exterior-rated).

NOTE: Use appropriate fasteners for mounting to surface type.

   b) PDX Wiring Diagram

120V-277V AC Input

Data (D+) — Data (D-)

Ground from Controller Data Line

Input from Color Controller

Starter Cable out to fixtures

Black (Line)
Green (Ground)
White (Neutral)

Data (D+) — Data (D-)

Ground from Controller Data Line

Enlarged View (Pinout Detail)

COLOR KEY		
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2	White (– Neutral)	
3	Green (⏚ Ground)	
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CONNECTION DETAIL

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INSTALLATION:

4) Rotate the fixture to one side to expose the screw holes on the Adjustable Mounting Bracket. (**Fig-1**)

5) Correctly align the 5-Pin Connectors using the black arrows on the blue colored rings. Push the two ends together, then rotate the middle ring clockwise to lock ends together. (**Fig-2**) Do NOT over-tighten.

NOTE: Reverse this sequence to disconnect the two ends.

6) When fastening the fixtures in place with the Adjustable Mounting Bracket, be sure to maintain alignment for straight runs to achieve an even linear lighting pattern. (**Fig-3**)

NOTE: The Adjustable Bracket and the optics used will allow for fine tuning the lighting application.

7) Turn on power to the RDM Controller first.

IMPORTANT: This will ensure proper function for capturing data addressing.

8) Now turn on power to fixtures.
   a) Run Solid Color Program to ensure data is working.

NOTE: Light fixtures will illuminate briefly then turn off. Then they're ready for programming.
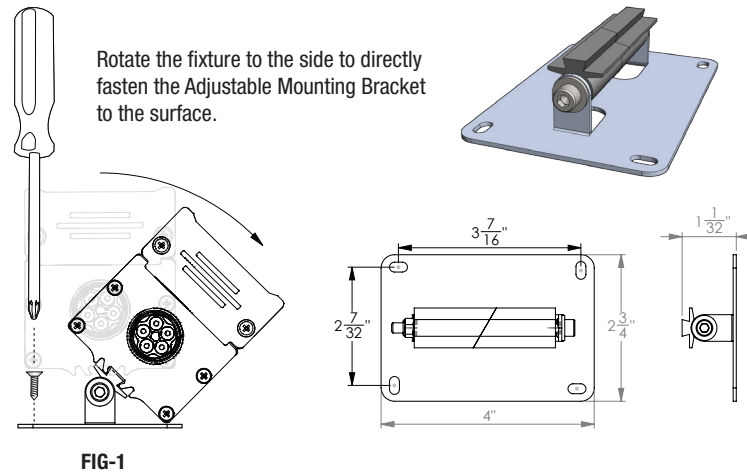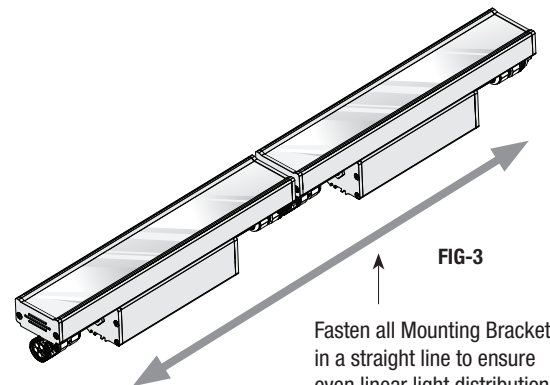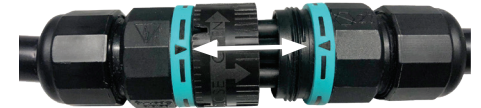
Adjustable Mounting Bracket

Rotate the fixture to the side to directly fasten the Adjustable Mounting Bracket to the surface.

$3\frac{7}{16}$"

$2\frac{7}{32}$"

$2\frac{3}{4}$"

$1\frac{1}{32}$"

4"

FIG-1

FIG-3

Fasten all Mounting Brackets in a straight line to ensure even linear light distribution.

5-Pin Connectors

Locking Connector (15/16" Dia)
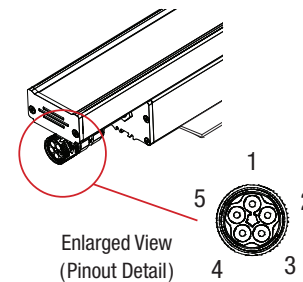
Align Arrows to Connect

Push together and Twist to Lock

FIG-2

Enlarged View (Pinout Detail)

COLOR KEY	
1	Black (+Positive)
2	White (− Neutral)
3	Green (⏚ Ground)
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Rev 119