

Product Warranty is void if product is not installed as per installation instructions and in compliance with all local and provincial codes.



NO POWER TOOLS



KEEP AWAY FROM FLAMMABLE MATERIAL



DO NOT USE SILICONE ON OUTSIDE SURFACE



KEEP ELECTRONICS FREE FROM DIRECT AND MOISTURE



DO NOT HOSE OR PRESSURE CLEAN



DO NOT USE CHEMICALS OR ABRASIVES

READ ALL SAFETY INSTRUCTIONS FIRST

- › Follow all safety instructions carefully. Failure to do so will void warranty.
- › Ensure installation complies with local electrical rules and regulations.
- › Input voltage range 30-48 Vdc.
- › Only use Lumascape power supply, control equipment and leader cables.
- › Ensure mains input power is surge protected.
- › Never make connections while the power is connected.
- › Do not make modifications or alter the product.
- › Keep luminaire clean and free of debris.
- › Only clean with warm water.
- › Do not use chemicals or abrasives to clean luminaire as this may void the product warranty.
- › Connectors are to be kept clean and dry at all times.
- › Once installed, all connectors are to be mated and a terminating plug is required on the last fitting of run.

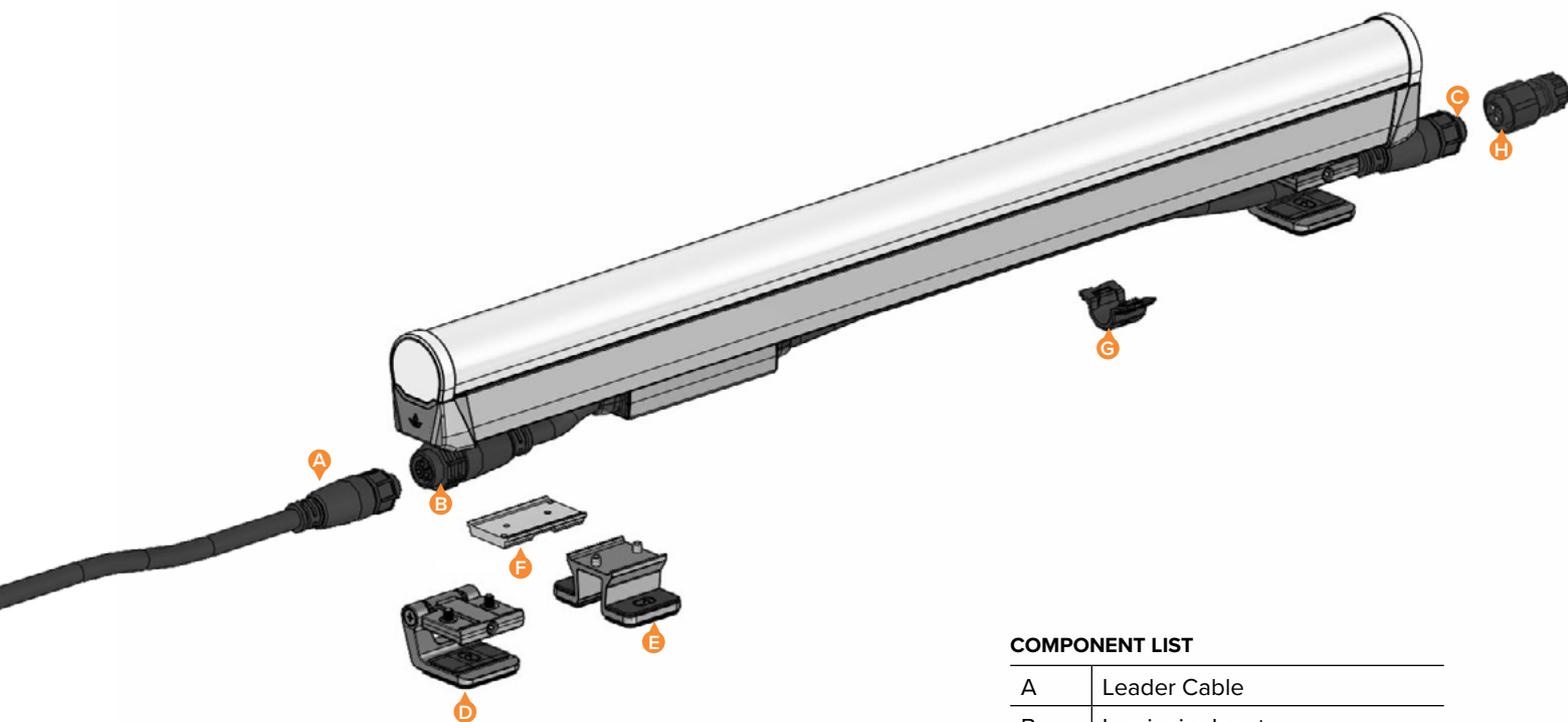
Products and specifications are subject to change without notice.

Product Overview

Below is a general overview of a typical LS9016 setup. The Leader Cable (A) connects to the LS6550 DIN Rail PowerSync™ Supply. For details on setting-up LS6550 refer to the supply specific installation instructions.

The Leader Cable (A) connects to the first Luminaire Input (B) via an IP68 quick connector. The LS9016 is designed for loop-in, loop-out. The output (C) of the previous luminaire will connect to the input (B) of the next luminaire. At the end of the run the luminaire chain has to be terminated with a Terminator (H).

Luminaires come with Mounting Brackets: Fixed (E) or Adjustable (D) and Cable Holders (G). Luminaires come in 1 ft, 2 ft, 3 ft, 4 ft and 5 ft lengths. Mounting Brackets: Fixed (E) or Adjustable (D) and Cable Holders (G) need to be attached to the luminaires before mounting. It is recommended installers use SS316 screws per Mounting Bracket type: 2 x Fixed (E) or 1 x Adjustable (D) to secure the luminaire to the substrate.



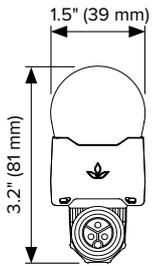
COMPONENT LIST

A	Leader Cable
B	Luminaire Input
C	Luminaire Output
D	Adjustable Mounting Bracket
E	Fixed Mounting Bracket
F	Mounting Board
G	Cable Holder
H	Terminator

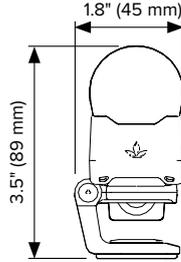
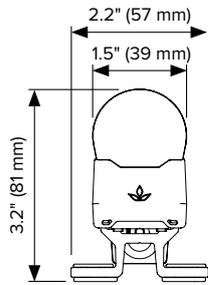
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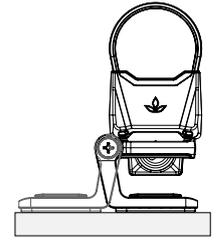
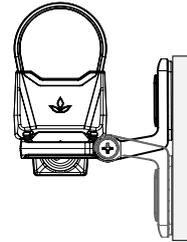
End View



Mounting Bracket



Mounting Orientations



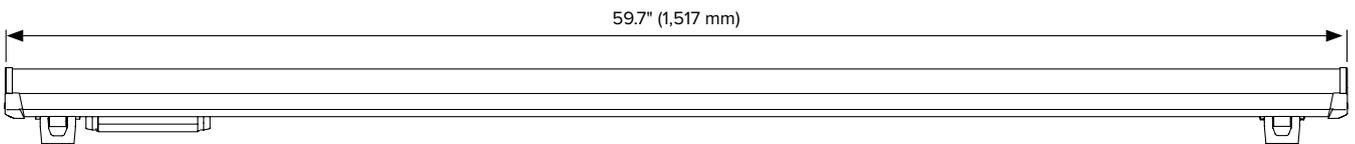
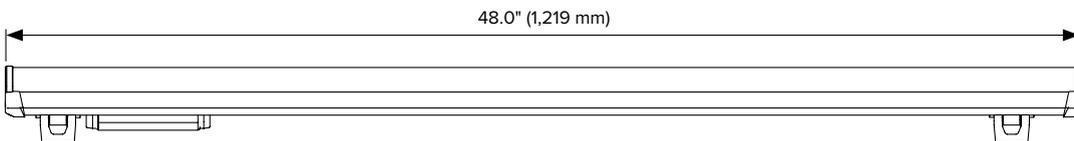
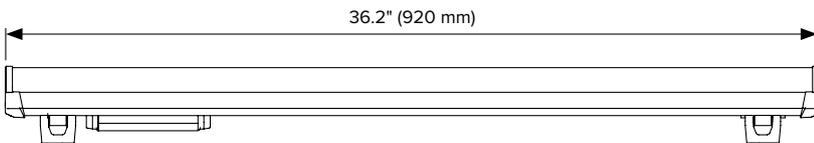
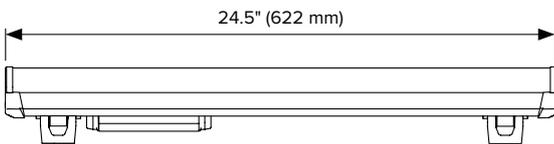
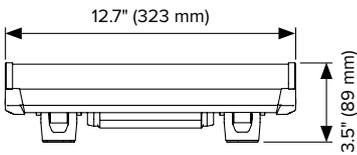
Fixed

Adjustable

Vertical Mounting

Horizontal Mounting

Side View



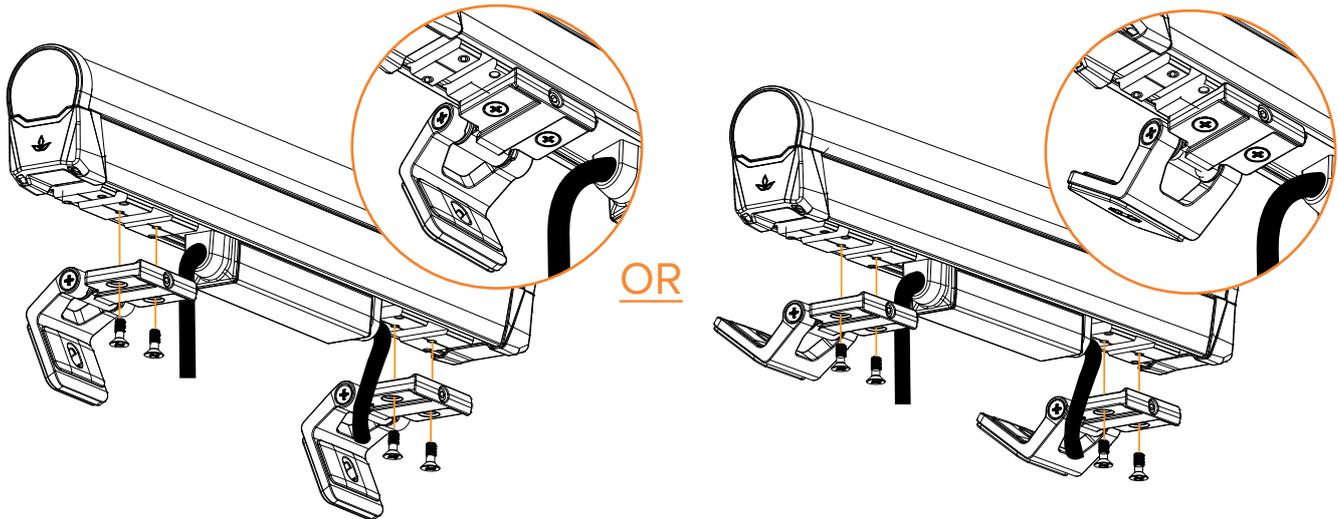
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Attaching Adjustable Bracket

Step 1

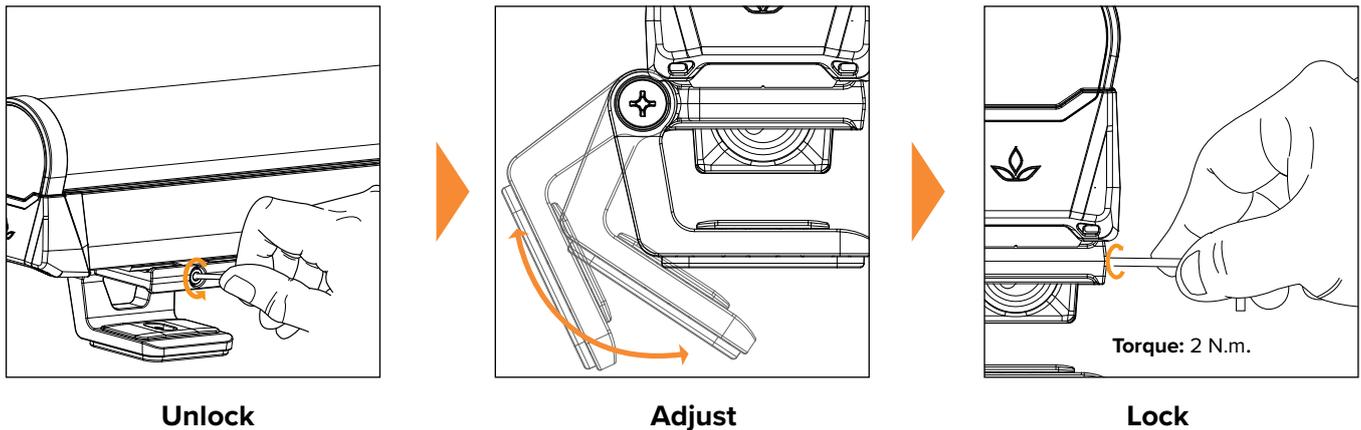
Screw adjustable bracketry to mounting board on underside of luminaire and screw bracket in place. Repeat until all four screws are firmly in place. NOTE: The adjustable mounting bracket is reversible.

Torque: 2 N.m.



Step 2

Use allen key to loosen bracket's tilt mechanism and adjust the tilt of the mounting bracket. Tighten to lock bracketry in place.



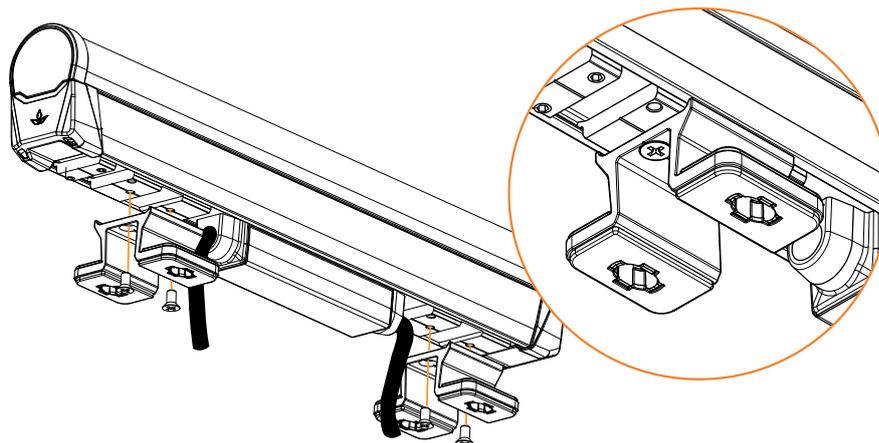
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Attaching Fixed Bracket

Step 1

Screw fixed bracketry to mounting board on underside of luminaire and screw bracket in place. Repeat until all four screws are firmly in place.

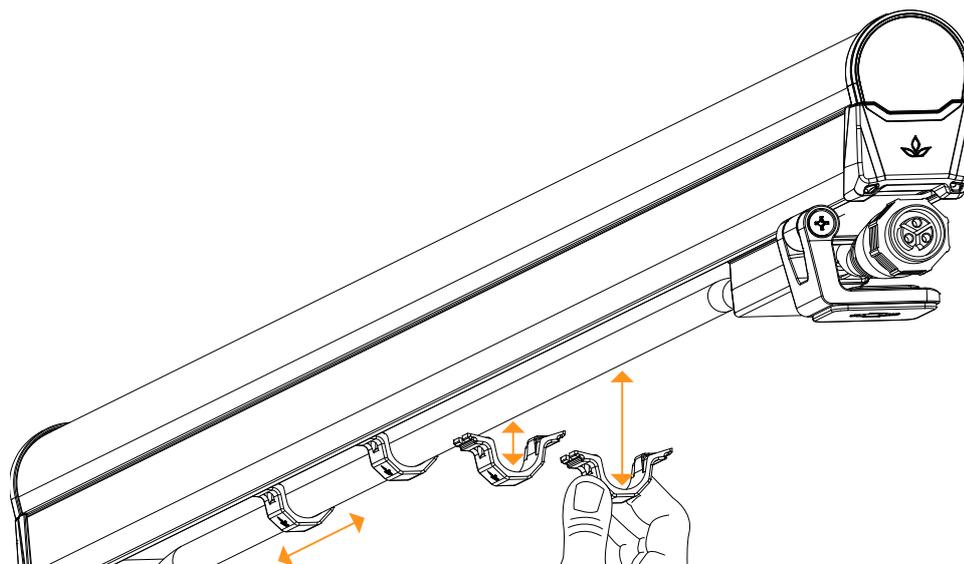
Torque: 2.0 N.m.



Attaching Cable Holder

Step 1

Clip the cable under the cable holder. Pinch firmly to remove and re-attach cable holders. Repeat these steps for each cable holder on each luminaire. NOTE: This is not applicable for 1 ft luminaires.

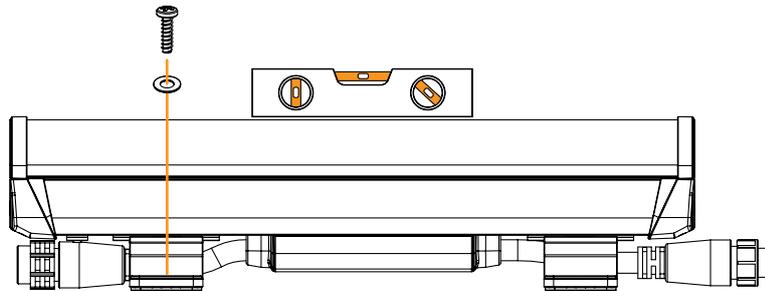


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Mounting the Luminaire

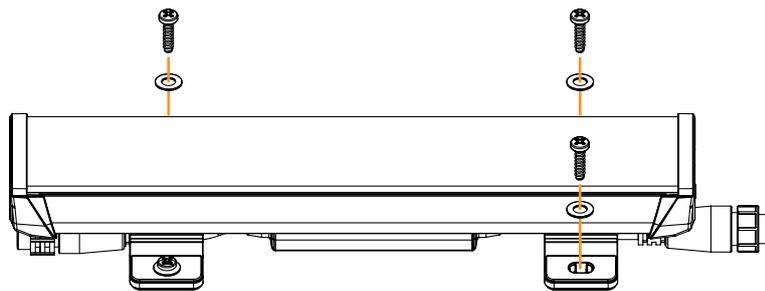
Step 1

It is recommended to mount the luminaire with 316 stainless steel screws. To start, put a single screw into one bracket. Use a spirit level or digital inclinometer to make sure the luminaire is level. Once the luminaire is level secure with a second screw on the opposing side.



Step 2

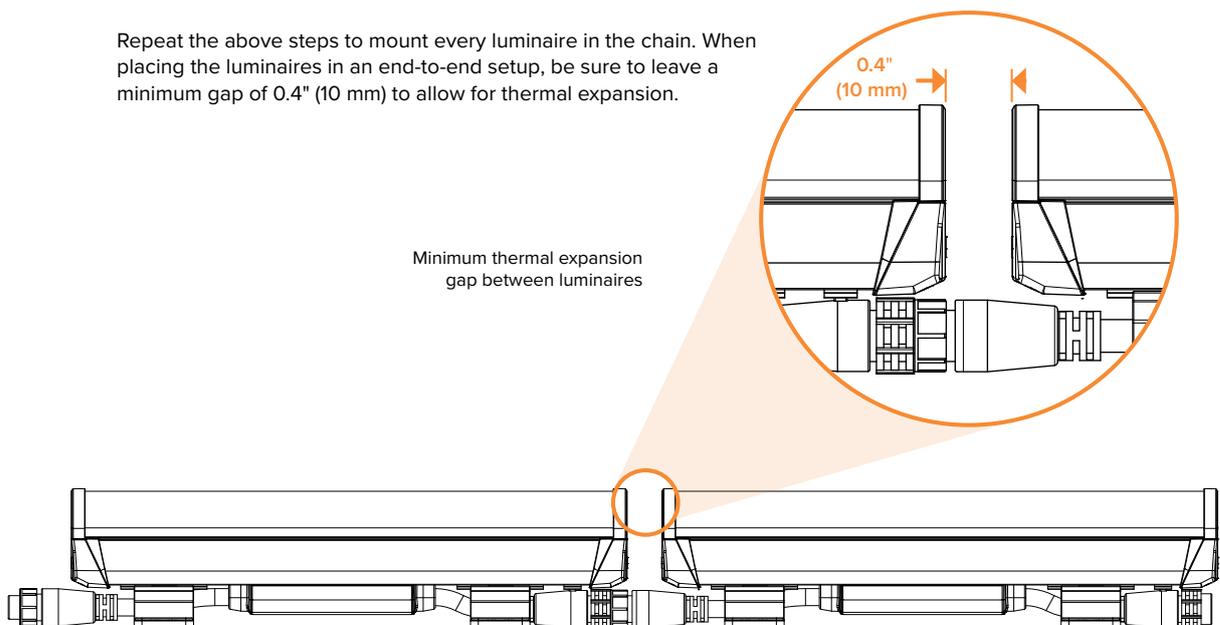
Insert the remaining screws required. Each adjustable mounting bracket should be secured with one 316 stainless steel screw. Each fixed mounting bracket should be secured with two 316 stainless steel screws.



Step 4

Repeat the above steps to mount every luminaire in the chain. When placing the luminaires in an end-to-end setup, be sure to leave a minimum gap of 0.4" (10 mm) to allow for thermal expansion.

Minimum thermal expansion gap between luminaires

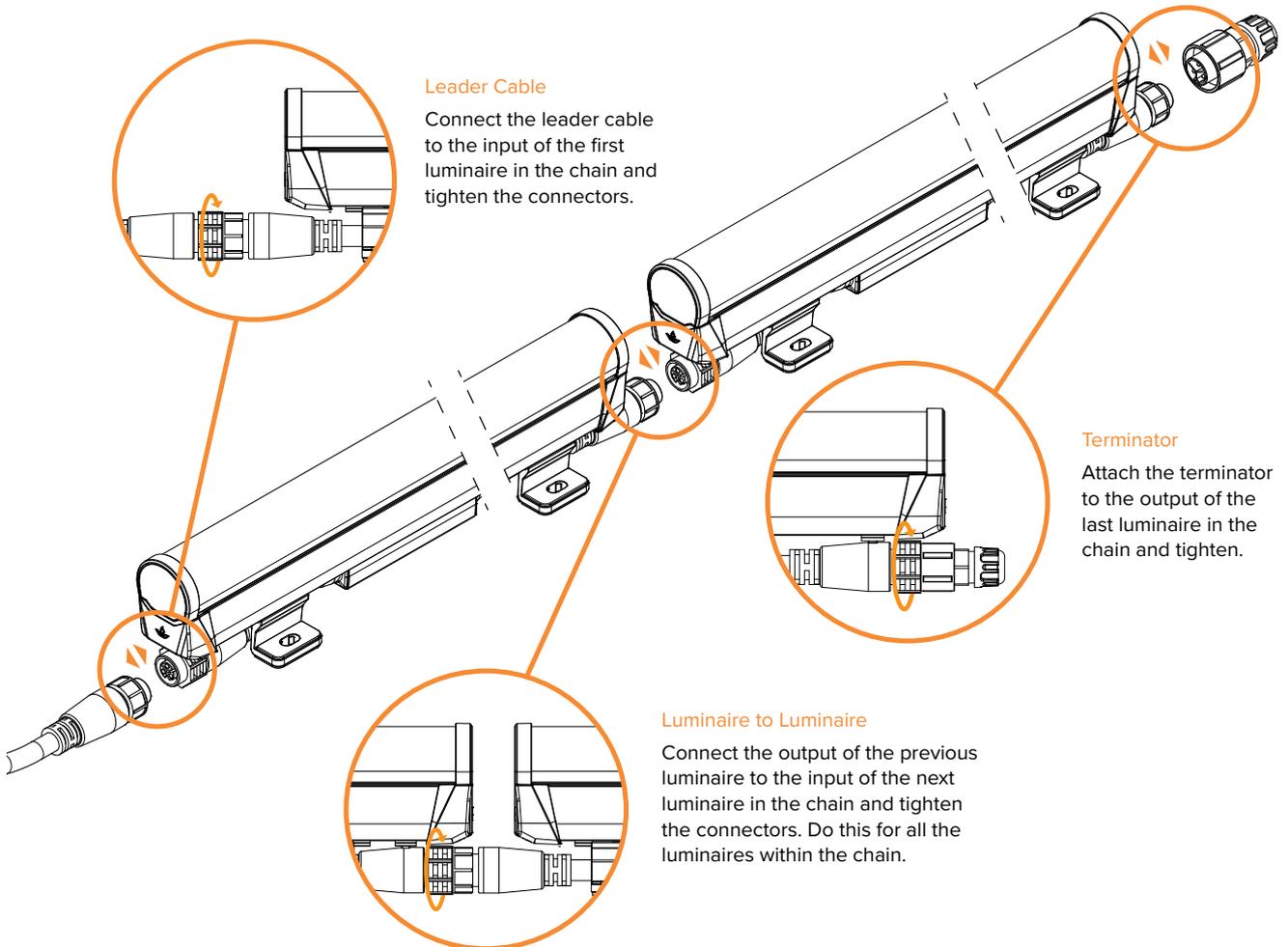


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Electrical Connection

Step 1

Once the physical components have been installed it is time to complete the electrical installation.

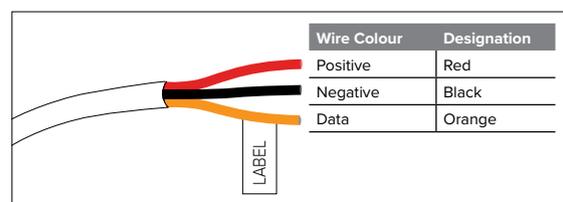


Step 2

Power up the circuit to test the installation.



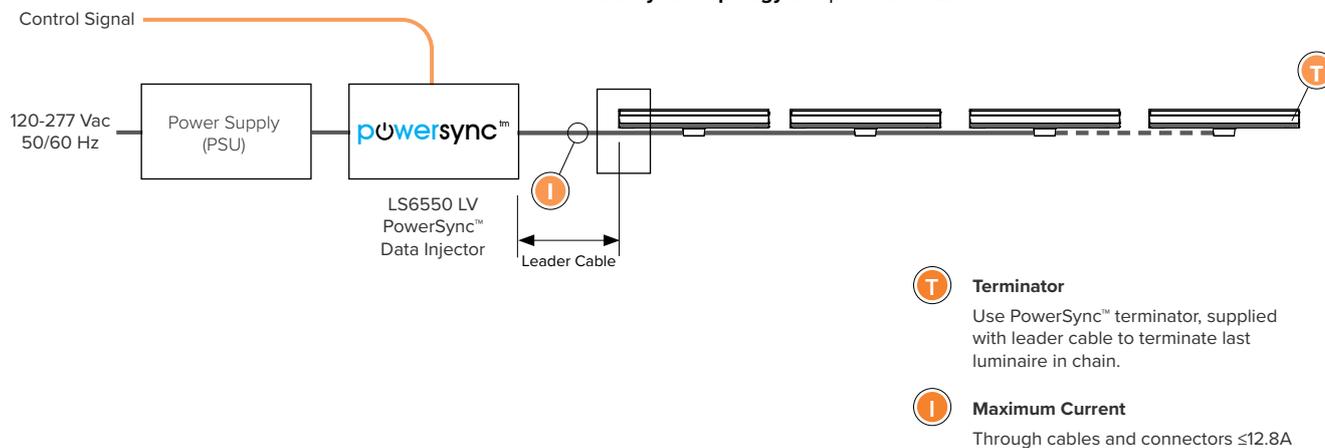
Low Voltage



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Network Topology – Low Voltage PowerSync™

PowerSync™ Topology 1 - Split Trunk Cable



- T Terminator**
Use PowerSync™ terminator, supplied with leader cable to terminate last luminaire in chain.
- I Maximum Current**
Through cables and connectors ≤12.8A

Up to 24 luminaires per 48V PowerSync™ circuit / LS6550 Low Voltage PowerSync™ Data Injector

Maximum Circuit Loading - Single Run						
LED Power	Max Leader Cable Length from LS6550 to first fitting	Feet of Linear luminaire per 48 V Power Supply				
		120 W	240 W	320 W	480 W	600 W
4 W/ft	50 ft / 15 m	20	44	56	80	96
	98 ft / 30 m	20	44	56	76	88
	164 ft / 50 m	20	40	52	64	72
6 W/ft	50 ft / 15 m	14	28	36	56	64
	98 ft / 30 m	14	28	36	48	56
	164 ft / 50 m	14	26	34	44	48

Values in the above table show the maximum circuit loading per 48V circuit. Values are based on end to end spacing (ETE). Extended fixture cables, inclusion of jumper cables, or longer leader cable will effect loading. Circuits can be made up of up to 24 fixtures in any length, up to the maximum circuit loading in the table above. Circuits are limited to maximum 12.8A. For non-continuous runs, contact Lumascape for details. To calculate the maximum number of interconnected luminaires per run / circuit, see example below.

Circuit Calculation Example

4 W/ft	50 m / 164 ft	20	20 ft of linear fixture = 5 x 4 ft luminaires
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For assistance, contact Lumascape. Always observe electrical codes.

Control Resolution

Pixel Size	DMX Channel Allocation														
	RGBA / RGBW					Single Colour					Tunable White				
	1 ft	2 ft	3 ft	4 ft	5 ft	1 ft	2 ft	3 ft	4 ft	5 ft	1 ft	2 ft	3 ft	4 ft	5 ft
Full Fixture	4	4	4	4	4	1	1	1	1	1	2	2	2	2	2
12.0" / 300 mm	4	8	12	16	20	1	2	3	4	5	2	4	6	8	10
6.0" / 150 mm	8	16	24	32	40	2	4	6	8	10	4	8	12	16	20
3.0" / 75 mm	16	32	48	64	80	4	8	12	16	20	8	16	24	32	40
1.0" / 19 mm	64	128	192	256	320	16	32	48	64	80	32	64	96	128	160

Extra channels required when enabling optional Advanced Control Modes.
 • Variable Dimming Smoothness Mode - requires 1 extra channel per luminaire
 • Variable Dimming Smoothness + Strobe Mode - requires 3 extra channels per luminaire

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