



The Vestalux V2 is a high-performance exterior grade architectural outliner featuring a UV-protected polymer tube diffuser. Designed for direct view, this luminaire has excellent light blending properties ensuring uniformity when it comes to color brightness and blending. Control, addressing and monitoring is via full DMX/RDM using PowerSync®. RDM addressing means that fixtures can be installed in any order and swapped in and out at will. Addressing can be done prior to or after installation. Perfect for simple outlining or highly dynamic effects.

Performance

Static White & Color <sup>1</sup>	Lumen Output (lm)		Efficacy (lm/W)	
	Low Voltage	Line Voltage	Low Voltage	Line Voltage
■ 2,700 K (80 CRI)	1,970	1,960	79	71
■ 3,000 K (80 CRI)	2,110	2,110	85	76
□ 3,500 K (80 CRI)	2,110	2,110	85	76
■ 4,000 K (80 CRI)	2,350	2,350	95	85
■ 5,000 K (80 CRI)	2,240	2,240	90	81

<sup>1</sup> Lumen output values are based on 7 W/ft, 4 ft luminaire

Dynamic Color <sup>2</sup>	Lumen Output (lm)		Efficacy (lm/W)	
	Low Voltage	Line Voltage	Low Voltage	Line Voltage
■ RGBA	1,110	1,110	47	44
■ RGBW (4,000 K) with Royal Blue	1,150	1,160	48	43

<sup>2</sup> Lumen output values are based on 7 W/ft, 4 ft luminaire

Tunable White <sup>3</sup>	Lumen Output (lm)		Efficacy (lm/W)	
	Low Voltage	Line Voltage	Low Voltage	Line Voltage
● 2,700 K - 6,500 K	2,100	2,100	85	76

<sup>3</sup> Lumen output values are based on 7 W/ft, 4 ft luminaire

\* Note:

Features Lumascope's new 4BW color engine option. Rich, saturated colors, really stand out with the addition of Royal Blue.



Products and specifications are subject to change without notice. LS9016-230605

### Electrical

<b>Power Consumption</b>	7 W/ft, 5 W/ft
<b>Lifetime</b>	>60,000 hrs (B10, L70, TM21)
<b>Earth Leakage</b>	0.2 mA @ 120 V, 0.22 mA @ 240 V, 0.24 mA @ 277 V
<b>Input Voltage</b>	Low Voltage 30-48 Vdc Line Voltage 220-240Vac, 50 Hz (International) 120/277 Vac, 60 Hz (North America)
<b>Thermal Management</b>	<b>CoolDrive™</b> onboard thermal monitoring and control

### Control

<b>Interface</b>	Lumascap <b>PowerSync™</b>
<b>Protocols<sup>1</sup></b>	DMX / RDM, Artnet <sup>1</sup> , PWM <sup>2</sup> , 0-10 V (sink or source) <sup>2</sup>
<b>PWM Frequency</b>	10 kHz flicker-free dimming to 0.1%
<b>Control Resolution</b>	¾" (19 mm), 3.0" (75 mm), 6.0" (150 mm), 12.0" (300 mm) and full luminaire Configurable via RDM
<b>RDM Functionality</b>	PowerSync-enabled Lumascap luminaires are factory set and shipped with a default RDM personality which provides smooth dimming and full luminaire control resolution. For finer resolutions, different dimming characteristics or to enable other special functionalities, the default personality can be changed through industry standard DMX/RDM.

<sup>1</sup> Some protocols require additional hardware, contact Lumascap for more information.

<sup>2</sup> Not available for color-changing

### Physical

<b>Housing</b>	Marine-grade extruded aluminium with UVShield™ and stabilized polycarbonate tube
<b>Finish</b>	Superior 9-step powder-coating process, including marine-grade anodized protection undercoat and polyester top coat
<b>Installation</b>	Surface-mounted
<b>Ambient Operating Temperature</b>	-40 °F to 122 °F (-40 °C to 50 °C)
<b>Surface Temperature</b>	≤ 95 °F (35 °C)
<b>Weight</b>	Low Voltage 3.3 lbs (1.5 kg) for 4 ft section Line Voltage 5.0 lbs (2.3 kg) for 4 ft section
<b>Effective Projected Area</b>	0.7 ft <sup>2</sup> (0.07 m <sup>2</sup> ) for 4 ft section

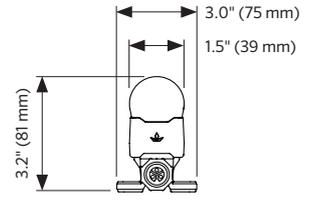
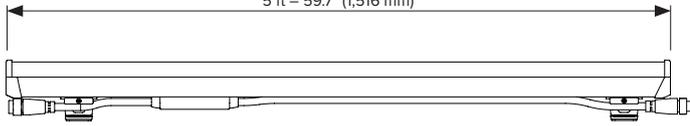
### Certification & Compliance

<b>IP Rating</b>	IP66 / IP67 (Passes IP68 Test)
<b>IK Rating</b>	IK10
<b>Vibration Resistance</b>	3G Rating (ANSI C136.31)
<b>Environment</b>	Dry, Damp, Wet locations
<b>Certifications</b>	ETL, CE, UKCA, RCM, FCC

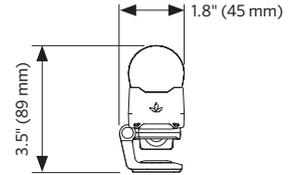
Dimensions - Low Voltage 30-48 Vdc Option

Opal Cylinder

1 ft - 12.7" (323 mm)  
 2 ft - 24.5" (622 mm)  
 3 ft - 36.2" (920 mm)  
 4 ft - 48.0" (1,219 mm)  
 5 ft - 59.7" (1,516 mm)



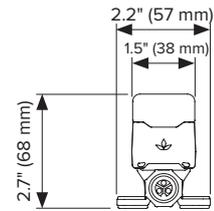
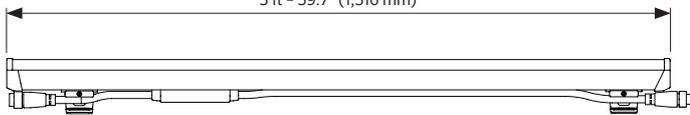
Fixed Bracket



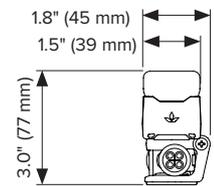
Adjustable Bracket

Opal Square

1 ft - 12.7" (323 mm)  
 2 ft - 24.5" (622 mm)  
 3 ft - 36.2" (920 mm)  
 4 ft - 48.0" (1,219 mm)  
 5 ft - 59.7" (1,516 mm)

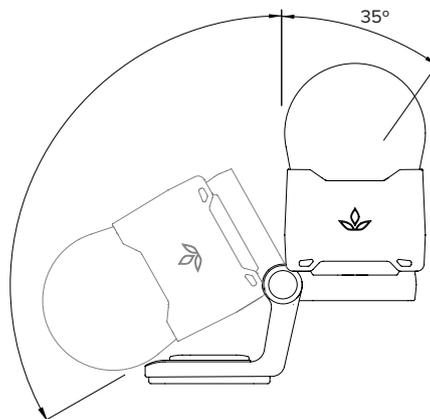
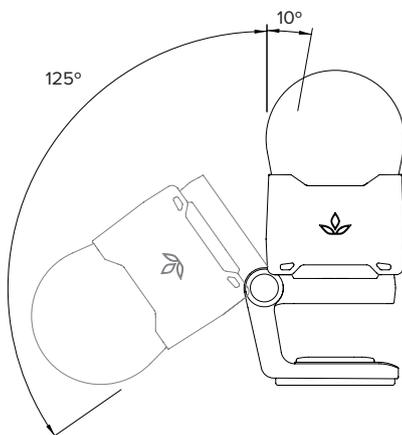


Fixed Bracket



Adjustable Bracket

Luminaire Rotation

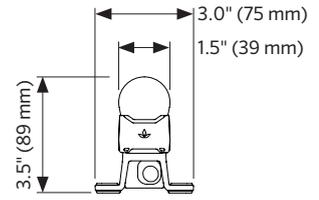
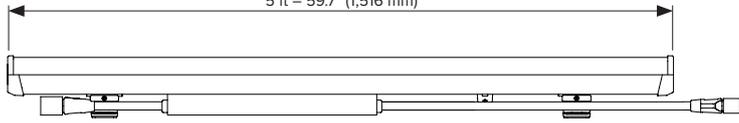


Please Note: Adjustable bracket used as example

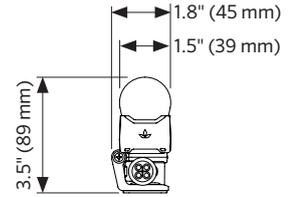
Dimensions - Line Voltage 220-240 Vac, 120/277 Vac Option

Opal Cylinder

- 1 ft - 12.7" (323 mm)
- 2 ft - 24.5" (622 mm)
- 3 ft - 36.2" (920 mm)
- 4 ft - 48.0" (1,219 mm)
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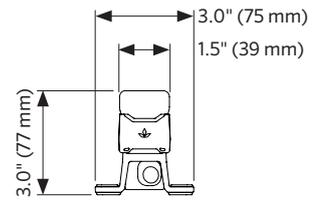
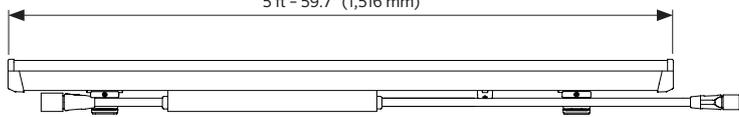
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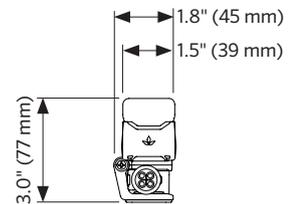
Adjustable Bracket

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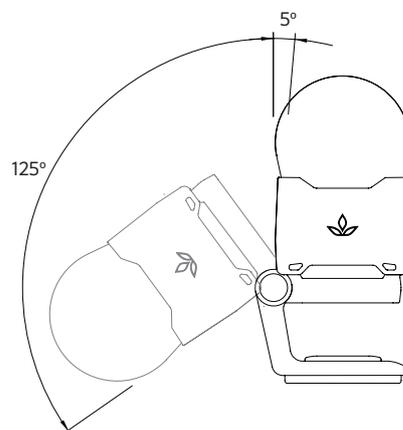
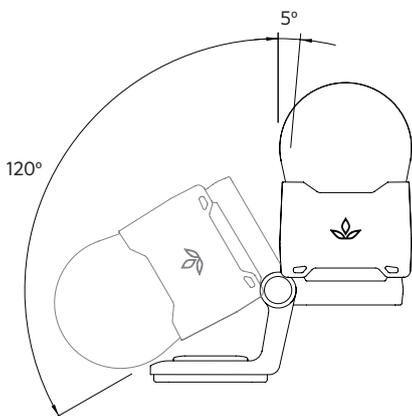


Fixed Bracket



Adjustable Bracket

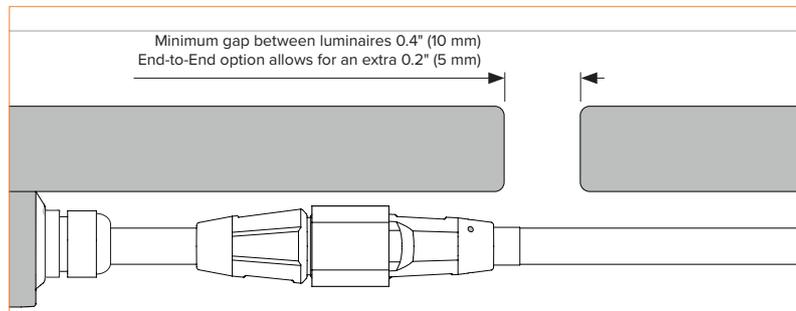
Luminaire Rotation



Please Note: Adjustable bracket used as example

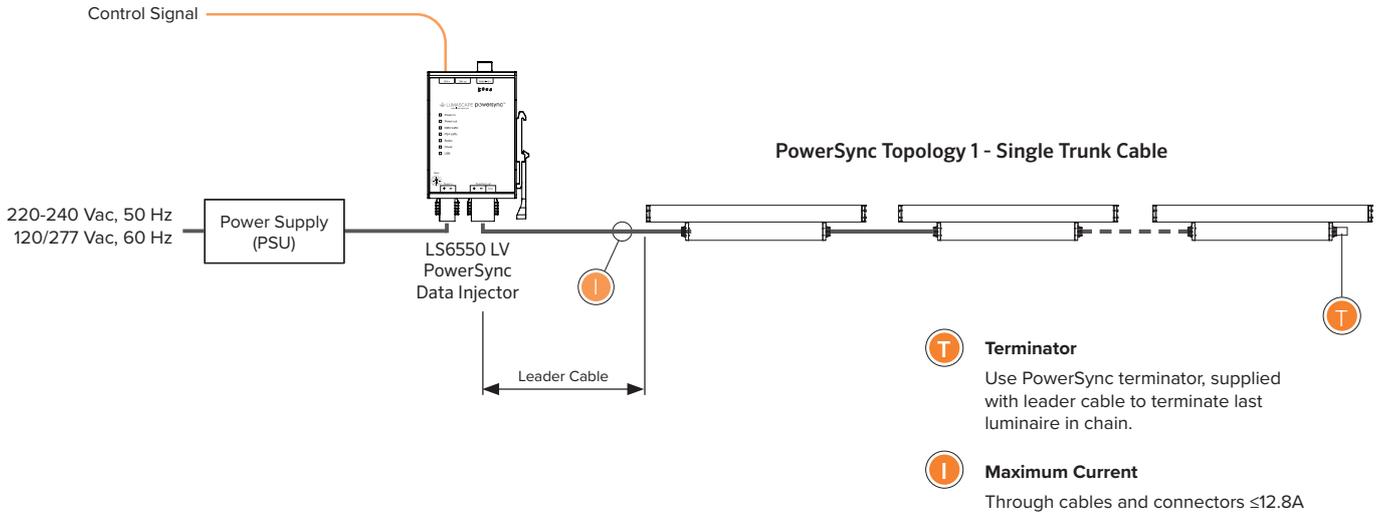
### Luminaire Gap

We define the Gap being where the luminaire ends to where the start of the next luminaire. To be able to create the gap, cable length is added to the input connector side. A minimum gap of 0.4" (10 mm) must be applied to cope with thermal expansion.





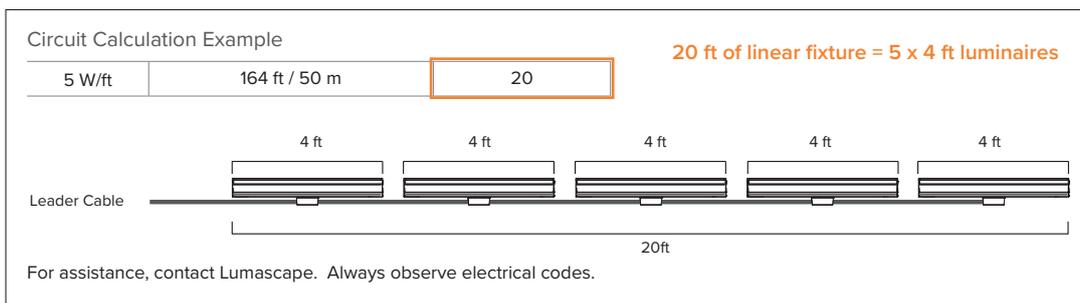
Network Topology - Low Voltage 30-48 Vdc via PowerSync® 4



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

Maximum Circuit Loading - Single Run						
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
5 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
7 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 48 V 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 Lumascope for details. To calculate the maximum number of interconnected luminaires per run / circuit, see example below.



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
<b>Full Fixture</b>	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
¾" / 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

Connectorized Accessories - Low Voltage 30-48 Vdc

**Leader Cables - PowerSync Extra Low Voltage (For Connection Type 63)**

3-core 16 AWG / 1.5mm<sup>2</sup> for use in CE/CCC and UL installations. Compatible with all luminaires with Type 63 connectorized supply cable option. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync™4, Low Voltage circuit. Comes complete with a matching End of Circuit, Powersync™4, extra low voltage terminator plug.

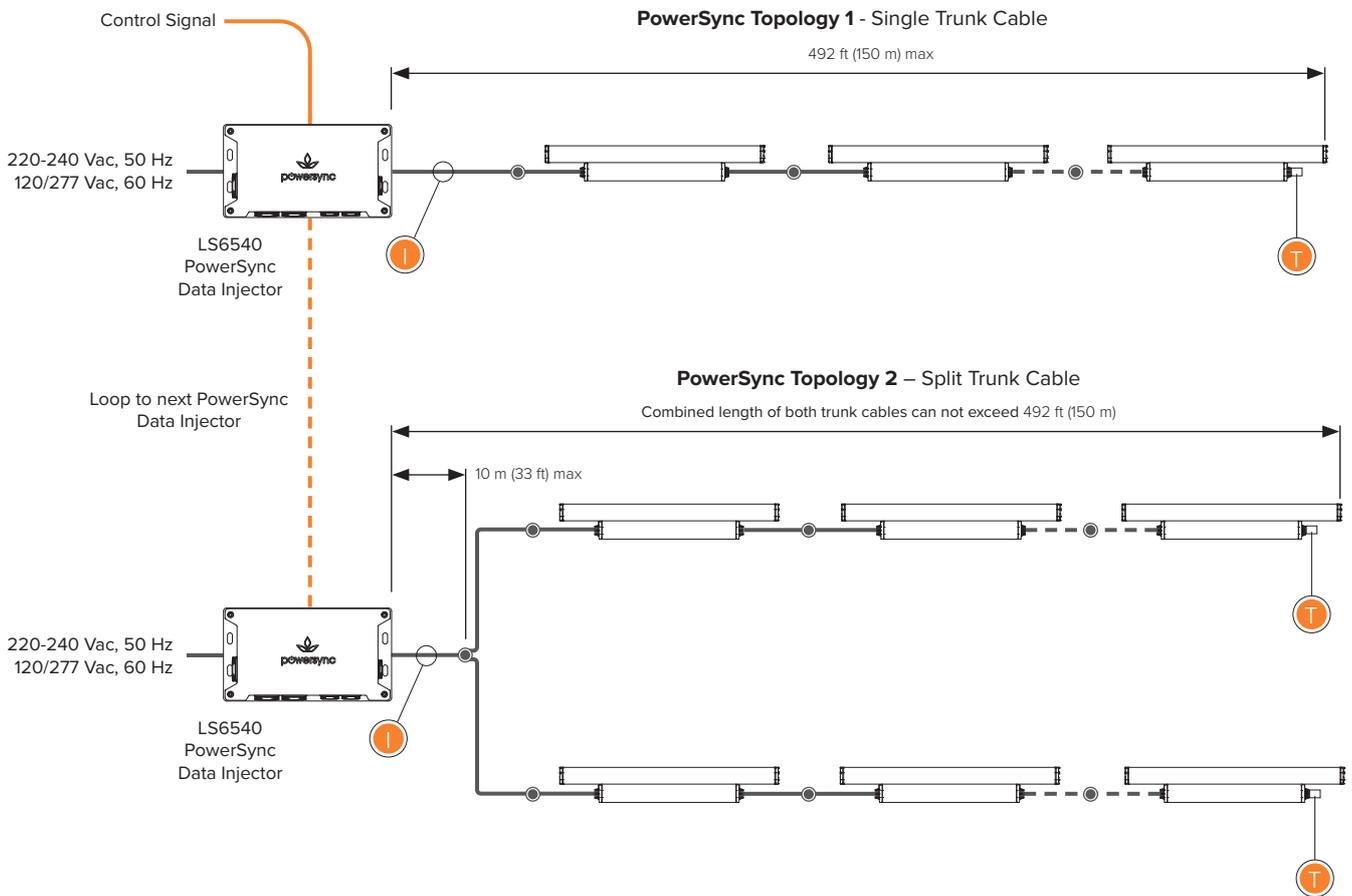
LS6426		-	[ ]		[ ]	
↑			↑		↑	
Cable Type	Code	Cable Type	Code	Length	Code	
1.5 mm <sup>2</sup>	LS6426	Non-Dimmable	ND	10' (3 m)	010	
		PowerSync	PS	16' (5 m)	016	
				50' (15 m)	050	
				66' (20 m)	066	
				98' (30 m)	098	

**Jumper Cables - PowerSync Extra Low Voltage (For Connection Type 63)**

3-core 16 AWG / 1.5 mm<sup>2</sup> for use in CE/CCC and UL installations. Compatible with all Luminaires with Type 63 connectorized supply cable option. Supplied fitted with IP68 connectors for joining between connectorized luminaires in a Powersync™4, extra low voltage circuit.

LS6427		-	[ ]		[ ]	
↑			↑		↑	
Cable Size	Code	Cable Type	Code	Length	Code	
1.5 mm <sup>2</sup>	LS6427	Non-Dimmable	ND	1' (0.3 m)	001	
		PowerSync	PS	2' (0.6 m)	002	
				3' (1 m)	003	
				6' (2 m)	006	
				16' (5 m)	016	
				32' (10 m)	032	
				50' (15 m)	050	
				66' (20 m)	066	
				98' (30 m)	098	

Network Topology – Line Voltage 220-240 Vac, 120/277 Vac Dimmable and Color-Changing via PowerSync™4



Up to 45 luminaires per run under the following conditions:

- Max total cable run length 492 ft (150 m) in up to two trunk cables.
- For run lengths in excess of 100 ft (30 m), the data wire gauge cannot exceed 14 AWG (2.5 mm<sup>2</sup>).
- For run lengths up to 100 ft (30 m), the data wire gauge is not governed.
- Refer to 'Maximum Circuit Load' table for circuit limitations.
- Always observe local electrical codes for branch circuit current limitations.

- T Terminator**  
Use PowerSync™ terminator, supplied with leader cable to terminate last luminaire in chain.
- I Maximum Current**  
Maximum current through cables and connectors supplied by Lumascope:  
≤12.8 A – Installations in North American Market (UL, ETL)  
≤16 A – Installations in International Market (CE, CCC)
- C Connection Type**  
Circuits can be configured as either connectorized or hardwired. For details refer to installation instructions and comply with local electrical codes.

Maximum Circuit Load

Maximum Number of Luminaires per Circuit					
Luminaire Length	Power Consumption	277 V	120 V	240 V	
		Maximum Current			
		12.8 A	12.8 A	12.8 A	16 A
1 ft (312 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	45	45	45
2 ft (610 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	45	45	45
3 ft (908 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	45	45	45
4 ft (1,206 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	45	45	45
5 ft (1,516 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	35	40	45

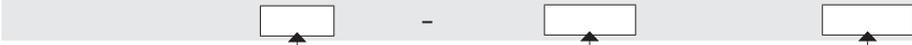
Refer to PowerSync installation instructions for maximum distance information and topology options.  
All connectorized options in North America are limited to 12.8A branch circuit load.  
Above circuit loading limits are based on maximum circuit current capacity and PowerSync™ control capacity. Cumulative earth leakage and voltage drop may need to be calculated.  
For non-continuous runs contact factory for details.  
Local wiring rules and requirements may limit circuit loadings refer to relevant electrical parameters to calculate.

Connectorized Accessories – Line Voltage 220-240 Vac

**Leader Cables – PowerSync Line Voltage 220-240 Vac (For Connection Type 73 Only)**

4-core 1.5 mm<sup>2</sup> or 2.5mm<sup>2</sup> for use in CE/CCC installations. Compatible with all luminaires with Type 73 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit. Comes complete with a matching End of Circuit, Powersync4, Line Voltage, Terminator Plug.

*Not suitable for use in North America*

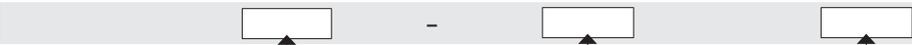


Cable Type	Code	Cable Type	Code	Length	Code
1.5 mm <sup>2</sup>	LS6402C	Non-Dimmable	ND	10' (3 m)	010
2.5 mm <sup>2</sup>	LS6402C-2.5	PowerSync	PS	33' (10 m)	032
				50' (15 m)	050

**Jumper Cables – PowerSync Line Voltage 220-240 Vac (For Connection Type 73 Only)**

4-core 1.5 mm<sup>2</sup> or 2.5mm<sup>2</sup> for use in CE/CCC installations. Compatible with all luminaires with Type 73 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit.

*Not suitable for use in North America*



Cable Type	Code	Cable Type	Code	Length	Code
1.5 mm <sup>2</sup>	LS6404C	Non-Dimmable	ND	1' (0.3 m)	001
2.5 mm <sup>2</sup>	LS6404C-2.5	PowerSync	PS	2' (0.6 m)	002
				3' (1 m)	003
				6' (2 m)	006
				16' (5 m)	016
				33' (10 m)	033
				66' (20 m)	066
				98' (30 m)	098

Connectorized Accessories - Line Voltage 120/277 Vac

**Leader Cables - PowerSync Line Voltage Hook-Up Wire 120/277 Vac (For Connection Type 73 Only)**

4 conductors 14 AWG Hook-Up wires for use in UL installations. Compatible with Type 73 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit. Comes complete with a matching End of Circuit, Powersync4, Line Voltage, Terminator Plug.

For use in North America ONLY

LS6402U		-		
<b>Cable Type</b>	<b>Code</b>	<b>Cable Type</b>	<b>Code</b>	<b>Length</b>
14 AWG 1.5 mm <sup>2</sup>	LS6402U	Non-Dimmable	ND	6' (2 m)
		PowerSync	PS	10' (3 m)
				32' (10 m)
				50' (15 m)

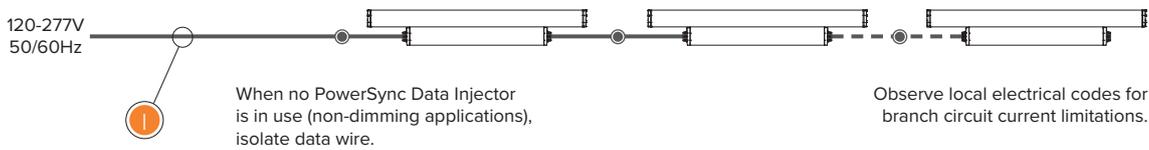
**Jumper Cables - PowerSync Line Voltage 120/277 Vac (For Connection Type 73 Only)**

4-core 16 AWG for use in UL installations. Compatible with all Luminaires with Type 73 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit.

For use in North America ONLY

LS6404U		-		
<b>Cable Type</b>	<b>Code</b>	<b>Cable Type</b>	<b>Code</b>	<b>Length</b>
16 AWG	LS6404U	Non-Dimmable	ND	1' (0.3 m)
		PowerSync	PS	2' (0.6 m)
				3' (1 m)
				4' (1.2 m)
				6' (2 m)
				10' (3 m)
				16' (5 m)
				26' (26 m)
				33' (10 m)
				50' (15 m)

Network Topology – Non-Dimmable



Up to 45 luminaires per run under the following conditions:

- Refer to 'Maximum Circuit Load' table for circuit limitations.
- Always observe local electrical codes for branch circuit current limitations.

Maximum Circuit Load

Maximum Number of Luminaires per Circuit					
Luminaire Length	Power Consumption	277 V	120 V	240 V	
		Maximum Current			
		12.8 A	12.8 A	12.8 A	16 A
1 ft (312 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	45	45	45
2 ft (610 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	45	45	45
3 ft (908 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	45	45	45
4 ft (1,206 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	45	45	45
5 ft (1,516 mm)	5 W/ft	45	45	45	45
	7 W/ft	45	35	40	45

Refer to PowerSync installation instructions for maximum distance information and topology options.  
 All connectorized options in North America are limited to 12.8A branch circuit load.  
 Above circuit loading limits are based on maximum circuit current capacity and PowerSync control capacity. Cumulative earth leakage and voltage drop may need to be calculated.  
 For non-continuous runs contact factory for details.  
 Local wiring rules and requirements may limit circuit loadings refer to relevant electrical parameters to calculate.

**Maximum Current**  
 Maximum current through cables and connectors supplied by Lumascape:  
 ≤12.8 A – Installations in North American Market (UL, ETL)  
 ≤16 A – Installations in International Market (CE, CCC)

**Connection Type**  
 Circuits can be configured as either connectorized or hardwired. For details refer to installation instructions and comply with local electrical codes.

Connectorized Accessories

Terminator (Hardwired Installation)

Used in hardwired PowerSync® installations.

Terminator	Code
DMX Terminator Hardwired (CCC, CE, UL)	LS6407
Terminator Hardwired, Line Voltage 220-240 Vac, 120/277 Vac, Low Voltage 30-48 Vdc (CCC, CE)	LS6406-01
Terminator Hardwired, Line Voltage 20-240 Vac, 120/277 Vac, Low Voltage 30-48 Vdc (UL)	LS6406-09
Terminator Connectorized, Line Voltage 220-240 Vac, 120/277 Vac (CCC, CE, UL)	LS6417

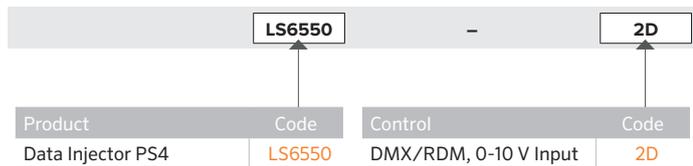
PowerSync Low Voltage 30-48 Vdc Data Injector

Translates control signals into a digital format, delivering integral power and data to intelligent LED luminaires. This allows highly-granular addressing and high-speed digital control of every luminaire, using only three wires. The data injector is DIN rail mountable designed to be installed in a switchboard, next to the power supply and circuit breaker that is supplying power to the controlled lighting circuit. Accepts a growing list of standard protocols (0-10 V, DMX/RDM) for simple integration with a wide selection of control systems using these industry standard protocols.



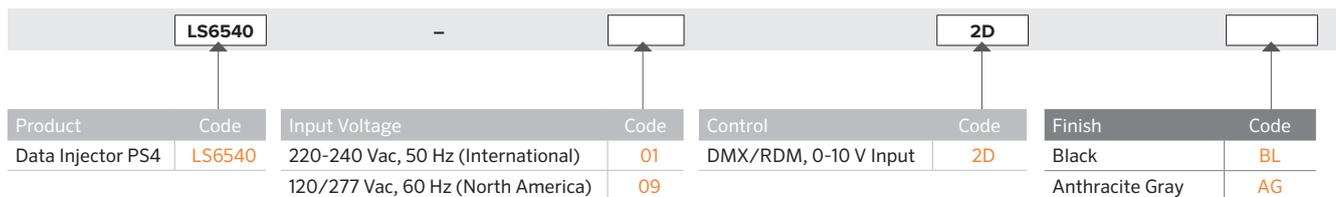
Note:

PowerSync Data Injector ships with three (3) hardwired terminators and one (1) hardwired DMX terminator.



PowerSync Line Voltage 220/240 Vac, 120/277 Vac Data Injector

Combines the convenience of standard wiring methods to translate control signals into a digital format that can be transmitted over standard copper wire. This allows highly granular addressing and high-speed digital control of every luminaire, using only four wires and accepts a growing list of standard protocols (0-10V, DMX / RDM), for simple integration with a wide selection of control systems using these industry standard protocols.



Note:

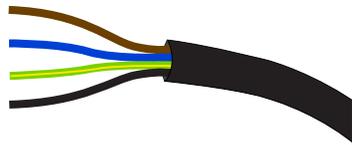
PowerSync Data Injector ships with three (3) hardwired terminators and one (1) hardwired DMX terminator.

<sup>1</sup>RAL color required

Luminaire Colors & Wiring Designations

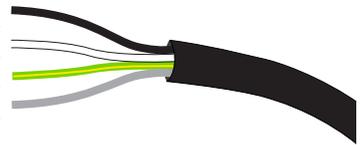
Line Voltage 220-240 Vac - International

Designation	Color
Active	Brown
Neutral	Blue
Earth	Green / Yellow
Data	Black



Line Voltage 120/277 Vac - North America

Designation	Color
Active	Black
Neutral	White
Earth	Green / Yellow
Data	Grey or Red



Low Voltage 30-48 Vdc

Designation	Color
Positive	Red
Negative	Black
Data	Orange

