

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 ¹	Lumen Output (lm)		Efficacy (lm/W)	
	Low Voltage	Line Voltage	Low Voltage	Line Voltage
● 2,700 K (80 CRI)	1,910	1,910	76	69
● 3,000 K (80 CRI)	2,050	2,050	82	74
○ 3,500 K (80 CRI)	2,050	2,050	82	74
● 4,000 K (80 CRI)	2,390	2,390	95	87
● 5,000 K (80 CRI)	2,210	2,210	88	80

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

Dynamic Color ²	Lumen Output (lm)		Efficacy (lm/W)	
	Low Voltage	Line Voltage	Low Voltage	Line Voltage
● RGBA	-	-	-	-
● RGBW (4,000 K) with Royal Blue	1,210	1,210	48	43

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

Tunable White ³	Lumen Output (lm)		Efficacy (lm/W)	
	Low Voltage	Line Voltage	Low Voltage	Line Voltage
● 2,700 K – 6,500 K	2,060	2,060	82	75

³ 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.

powersync™ easyglow™ cooldrive™ pureblend™
microantileach™ uvshield™



Products and specifications are subject to change without notice.
LS9016-220404

Electrical

LED Power	6 W/ft, 4 W/ft
Power Consumption	7 W/ft, 5 W/ft
Lifetime	>60,000 hrs (B10, L70, TM21)
Earth Leakage	0.2 mA @ 120 V, 0.22 mA @ 240 V, 0.24 mA @ 277 V
Input Voltage	Low Voltage 30-48 Vdc Line Voltage 220-240Vac, 50 Hz (International) 120/277 Vac, 60 Hz (North America)
Thermal Management	CoolDrive™ onboard thermal monitoring and control

Control

Interface	Lumascade PowerSync™
Protocols ¹	DMX / RDM, Artnet ¹ , PWM ² , 0-10 V (sink or source) ²
PWM Frequency	10 kHz flicker-free dimming to 0.1%
Control Resolution	¾" (19 mm), 3.0" (75 mm), 6.0" (150 mm), 12.0" (300 mm) and full luminaire Configurable via RDM
RDM Functionality	PowerSync-enabled Lumascade 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.

¹ Some protocols require additional hardware, contact Lumascade for more information.

² Not available for color-changing

Physical

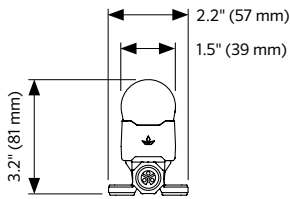
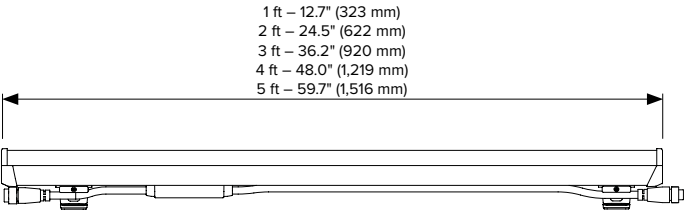
Housing	Marine-grade extruded aluminium with UVShield™ and stabilized polycarbonate tube
Finish	Superior 9-step powder-coating process, including marine-grade anodized protection undercoat and polyester top coat
Installation	Surface-mounted
Ambient Operating Temperature	-40 °F to 122 °F (-40 °C to 50 °C)
Surface Temperature	≤ 95 °F (35 °C)
Weight	Low Voltage 3.3 lbs (1.5 kg) for 4 ft section Line Voltage 5.0 lbs (2.3 kg) for 4 ft section
Effective Projected Area	0.7 ft² (0.07 m²) for 4 ft section

Certification & Compliance

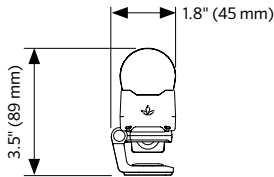
IP Rating	IP66 / IP67 (Passes IP68 Test)
IK Rating	IK10
Vibration Resistance	3G Rating (ANSI C136.31)
Environment	Dry, Damp, Wet locations
Certifications	ETL, CE, RCM, FCC

Dimensions – Low Voltage 30-48 Vdc Option

Opal Cylinder

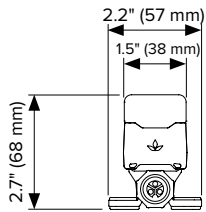
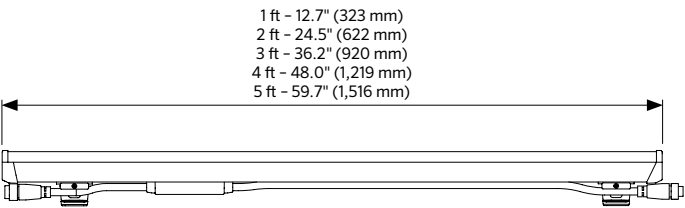


Fixed Bracket

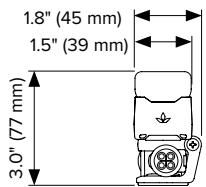


Adjustable Bracket

Opal Square

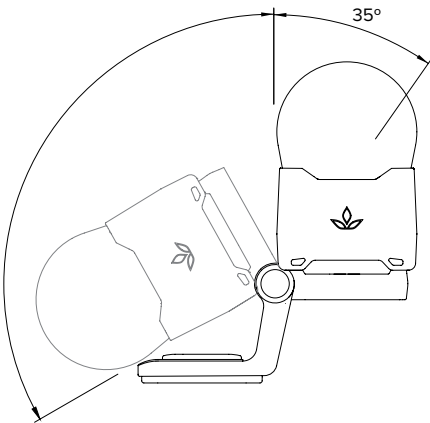
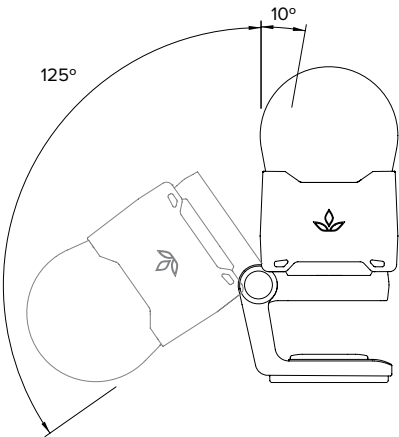


Fixed Bracket



Adjustable Bracket

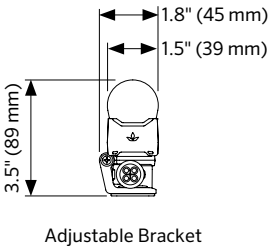
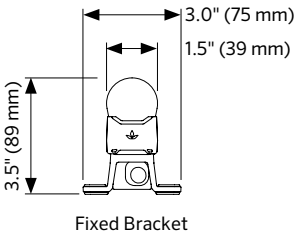
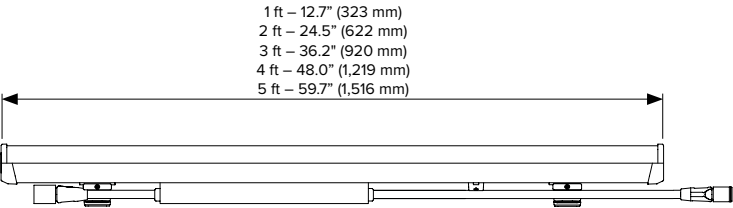
Luminaire Rotation



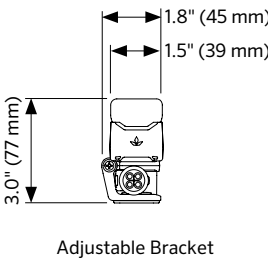
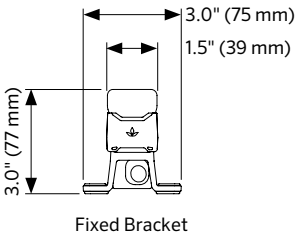
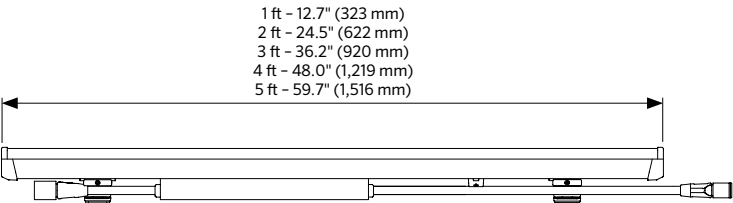
Please Note: Adjustable bracket used as example

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

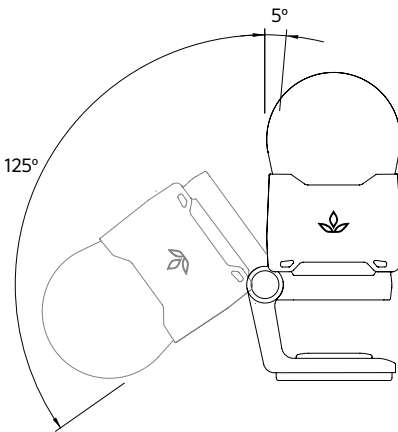
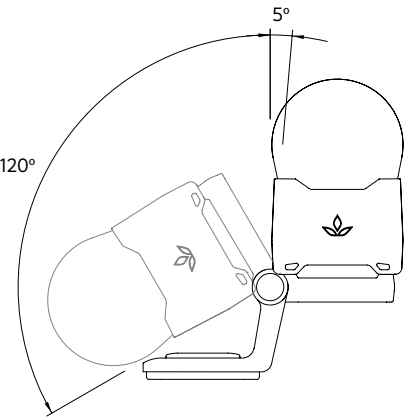
Opal Cylinder



Opal Square



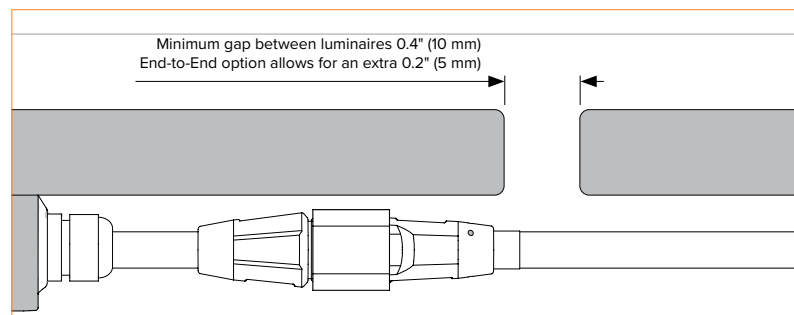
Luminaire Rotation



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.



Specification Matrix

LS9016 -

Power Consumption

Power Consumption	Code
5 W/ft	05D
7 W/ft	07D

Static White & Colour

Static White & Colour	Code
2,700 K (80 CRI)	827
3,000 K (80 CRI)	830
3,500 K (80 CRI)	835
4,000 K (80 CRI)	840
5,000 K (80 CRI)	850

Tunable White

Tunable White	Code
2,700 K - 6,500 K	2WT

Dynamic Colour

Dynamic Colour	Code
RGBA	4CA
RGBW with Royal Blue	4BW

Input Voltage

Input Voltage	Code
30-48 Vdc (International)	07
30-48 Vdc (North America)	13
220-240 Vac, 50 Hz (International)	01
120/277 Vac, 60 Hz (North America)	09

Control

Control	Code
Non-Dimmable	ND ¹
PowerSync™	PS ²

¹ For single color, non-dimming applications.
² Required on all dimming and color-changing applications. PowerSync™ Data Injector required (order separately).

Connection Type

Connection Type	Code
Flexible entry/exit cables, for connectorized installations	63 ¹
Flexible entry/exit cables for connectorized installations	73 ²

¹ For low voltage only
² For line voltage only

Optics

Optics	Code
Opal Cylinder	DC
Opal Square	DS

Length

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

Mounting

Mounting	Code
Adjustable Bracket	A
Fixed Bracket	B

Finish

Finish	Code
Black	BL
Anthracite Gray	AG
Basalt Gray	BT
Graphite Gray	GH
Anodic Silver	SL
White	WT
Dark Bronze	DB
Latte	LT
Dark Aluminum	DA
Custom RAL	CC ¹

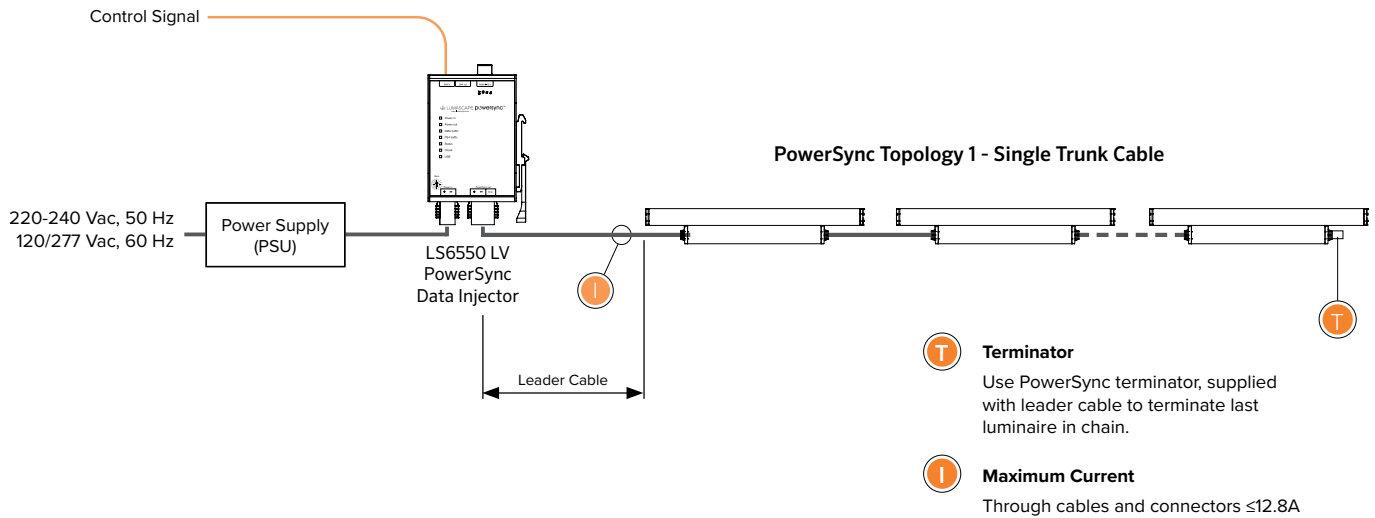
¹ RAL color required

Luminaire Gap

Luminaire Gap	Code
End-To-End (ETE)	000 ¹
1 ft (0.3 m) Gap	001
2 ft (0.6 m) Gap	002
3 ft (0.9 m) Gap	003
6 ft (1.8 m) Gap	006

¹ Default - Minimum length for ETE connection.

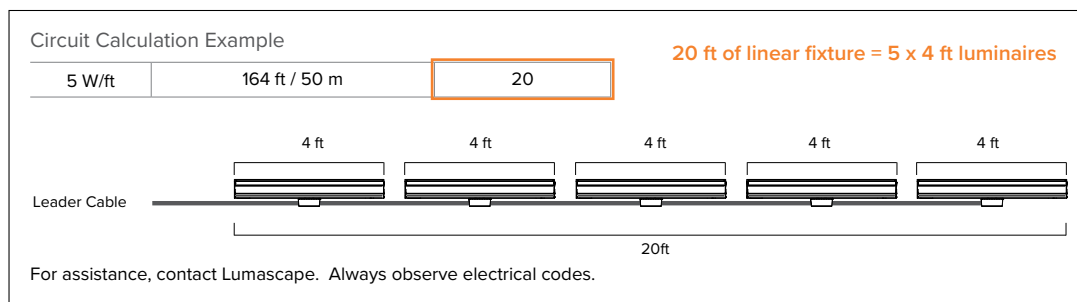
Network Topology – Low Voltage 30-48 Vdc via PowerSync® 4



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

DMX Channel Allocation															
Pixel Size	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
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 Low Voltage 30-48 Vdc (For Connection Type 63 Only)

3-core 16 AWG / 1.5mm² 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		Control Type		Code	
1.5 mm ²		LS6426		Non-Dimmable		ND	
				PowerSync		PS	
Length				Code			
10 ft (3 m)						010	
16 ft (5 m)						016	
50 ft (15 m)						050	
66 ft (20 m)						066	
98 ft (30 m)						098	

NOTE:

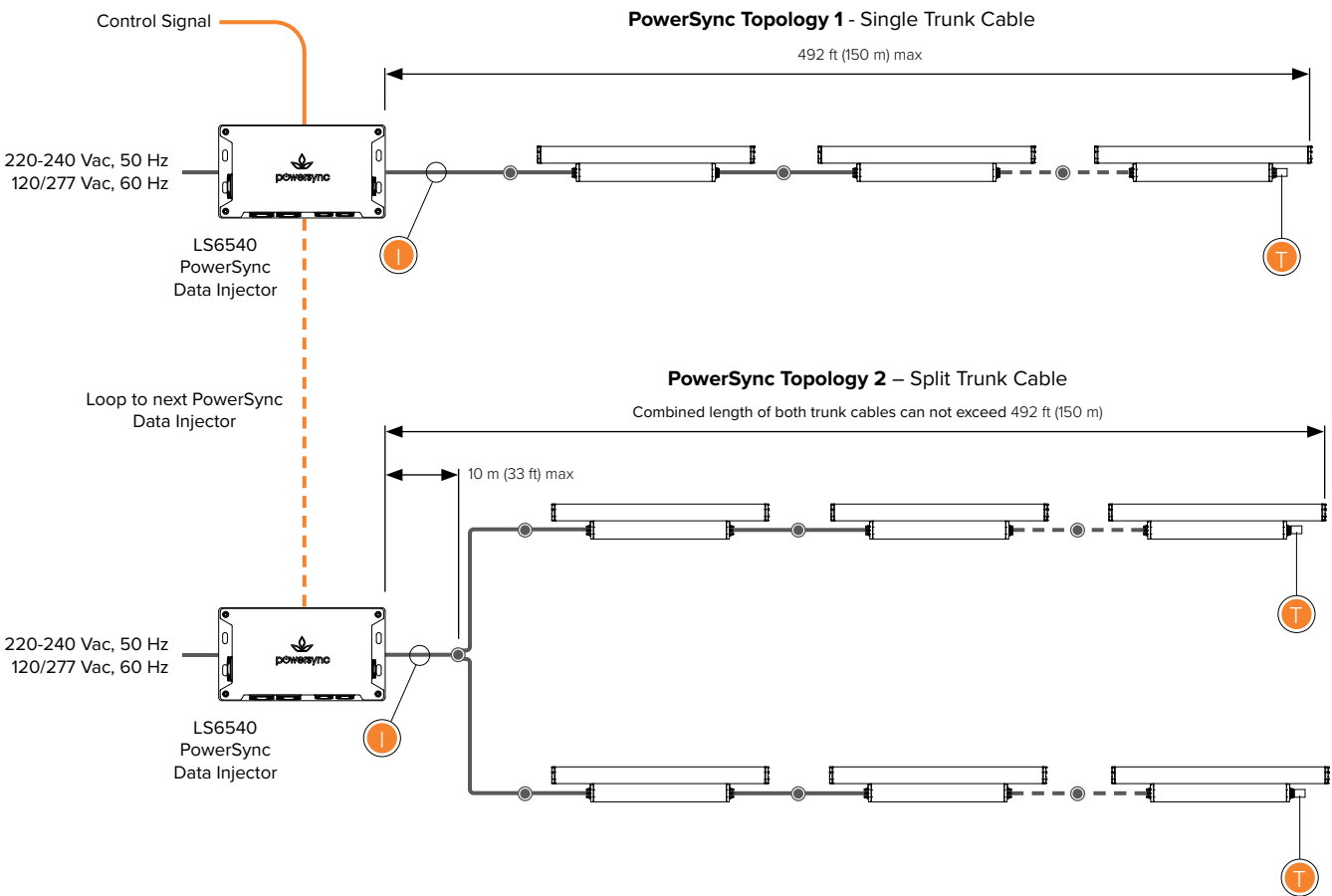
Leader cable ships with one (1) connectorized **LS6437** PowerSync™ terminator.

Jumper Cables - PowerSync Low Voltage 30-48 Vdc (For Connection Type 63 only)

3-core 16 AWG / 1.5 mm² 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 Type		Code		Control Type		Code	
1.5 mm ²		LS6427		Non-Dimmable		ND	
				PowerSync		PS	
Length				Code			
1 ft (0.3 m)						001	
2 ft (0.6 m)						002	
3 ft (1 m)						003	
6 ft (2 m)						006	
16 ft (5 m)						016	
33 ft (10 m)						033	
50 ft (15 m)						050	
66 ft (20 m)						066	
98 ft (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 mm²).
- 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.

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.

- Terminator**
Use PowerSync™ terminator, supplied with leader cable to terminate last luminaire in chain.
- 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 – Line Voltage 220-240 Vac, 120/277 Vac

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

4-core 1.5 mm² or 2.5mm² 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
1.5 mm ²	LS6402C		Non-Dimmable	ND	10' (3 m)
2.5 mm ²	LS6402C-2.5		Powersync	PS	33' (10 m)
					50' (15 m)

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

		-			
Cable Type	Code		Cable Type	Code	Length
14 AWG 1.5 mm ²	LS6402U		Non-Dimmable	ND	6' (2 m)
			Powersync	PS	10' (3 m)
					32' (10 m)
					50' (15 m)

Connectorized Accessories – Line Voltage 220-240 Vac, 120/277 Vac

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

4-core 1.5 mm² or 2.5mm² 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
1.5 mm ²	LS6404C
2.5 mm ²	LS6404C-2.5

Cable Type	Code
Non-Dimmable	ND
PowerSync	PS

Length	Code
1' (0.3 m)	001
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

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.

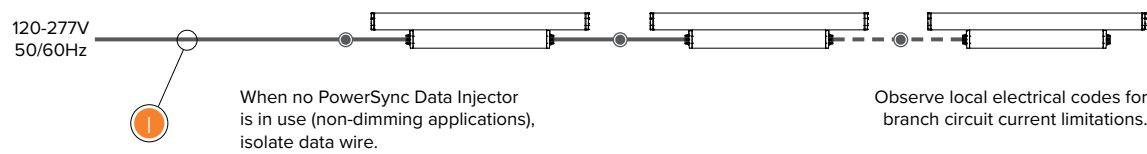
For use in North America ONLY

Cable Type	Code
16 AWG	LS6404U

Cable Type	Code
Non-Dimmable	ND
PowerSync	PS

Length	Code
1' (0.3 m)	001
2' (0.6 m)	002
3' (1 m)	003
4' (1.2 m)	004
6' (2 m)	006
10' (3 m)	010
16' (5 m)	016
26' (26 m)	026
33' (10 m)	033
50' (15 m)	050

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.



LS6550		2D	
—			
Product	Code	Control	Code
Data Injector PS4	LS6550	DMX/RDM, 0-10 V Input	2D

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.



LS6540		-				2D									
Product		Code		Input Voltage		Code		Control		Code		Finish		Code	
Data Injector PS4		LS6540		220-240 Vac, 50 Hz (International)		01		DMX/RDM, 0-10 V Input		2D		Black		BL	
				120/277 Vac, 60 Hz (North America)		09						Anthracite Gray		AG	

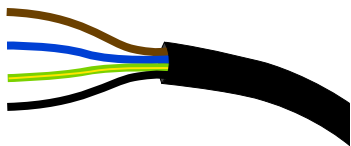
Note:
PowerSync Data Injector ships with three (3) hardwired terminators and one (1) hardwired DMX terminator.

¹RAL color required

Luminaire Colors & Wiring Designations

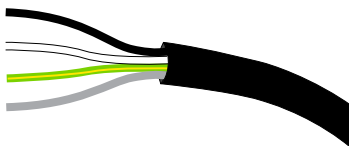
Line Voltage 220-240 Vac - International

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

