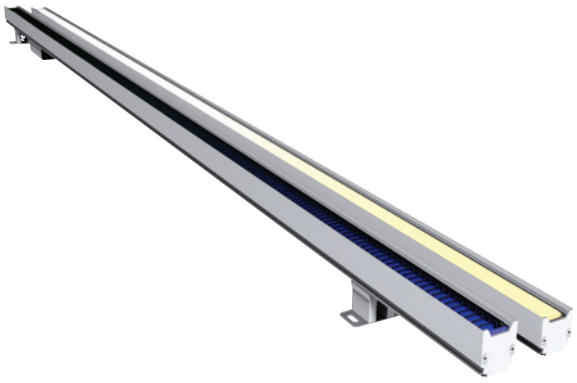


The Vestalux V1 is a high-performance, exterior-grade architectural outliner featuring a flat glass diffuser. Designed for direct view, the luminaire has excellent light blending properties ensuring uniformity when it comes to color brightness and blending. Control, addressing and monitoring is via full DMX/RDM through Lumascape's **PowerSync**® Data Injector. RDM addressing means that fixtures can be installed in any order and swapped in and out at will.

Performance

Static White & Color[1]	Lumen Output (lm)	Efficacy (lm/W)
2,700 K (80 CRI)	1,550	59
3,000 K (80 CRI)	1,660	63
3,500 K (80 CRI)	1,660	63
4,000 K (80 CRI)	1,940	74
5,000 K (80 CRI)	1,790	68

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

Dynamic Color[2]	Lumen Output (lm)	Efficacy (lm/W)
RGBA	1,130	43
RGBW (4,000 K) with Royal Blue*	1,070	40

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

Tunable White[3]	Lumen Output (lm)	Efficacy (lm/W)
2,700 K – 6,500 K	1,670	64

[3] Lumen output values based on 7 W/ft, 4 ft luminaire

*** NOTE:**

The default RGBW colors have recently changed to the RGBW with Royal Blue (4BW code). These colors will not match existing products with the earlier RGBW with Mid-Blue (4CW code). Contact Lumascape for custom LED Colors.

powersync® easyglow™ cooldrive™ microantileach™

Products and specifications are subject to change without notice.
LS9015-230605

Electrical

Power Consumption	7 W/ft, 5 W/ft
Lifetime (L70)	>60,000 hrs
Input Voltage	Low Voltage 30-48 Vdc
Thermal Management	**CoolDrive™** onboard thermal monitoring and control

Control

Interface	Lumascape **PowerSync®**
Protocols[1]	DMX / RDM, Artnet[1]
PWM Frequency	10 kHz flicker-free dimming to 0.1%
Control Resolution	19 mm (¾"), 75 mm (3.0"), 150 mm (6.0"), 300 mm (12.0") and full luminaire Configurable via RDM
RDM Functionality	PowerSync enabled Lumascape luminaires are shipped with a default RDM personality which provides smooth dimming control. For different dimming characteristics or to enable other special functionalities, the default personality can be changed through industry standard DMX/RDM.
Systems	Range of third-party controllers

[1] Some protocols require additional hardware. For more information and other available protocols contact Lumascape.

Physical

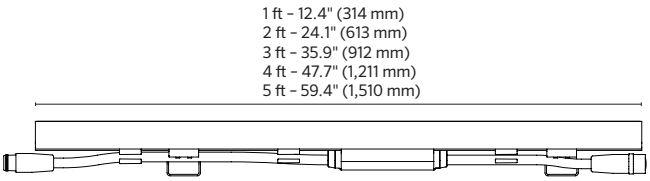
Housing	Marine-grade extruded aluminum with tempered OptiClear™ glass lens
Finish	Superior 9-step powder-coating process, including marine-grade anodized undercoat and polyester top coat
Installation	Surface-mounted
Ambient Operating Temperature	-40 °F to 122 °F (-40 °C to 50 °C)
Surface Temperature	≤ 95 °F (35 °C)
Weight	3.5 lb (1.6kg) for 4 ft section
Effective Projected Area	0.5 ft^2 (0.05 m^2) for 4 ft section

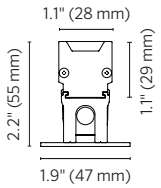
Certification & Compliance

IP Rating	IP66 / IP67 (Passes IP68 Test)
IK Rating	IK6
Vibration Resistance	3G Rating (ANSI C136.31)
Environment	Dry, Damp, Wet locations
Certifications	ETL, CE, UKCA, RCM

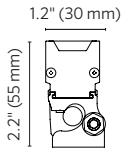
Dimensions

Body Type S: Single Color and Tunable White



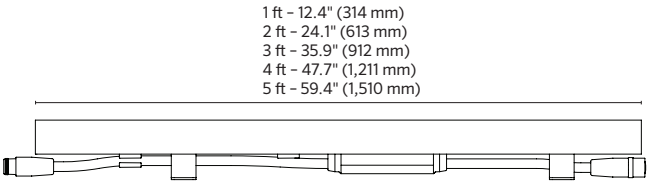


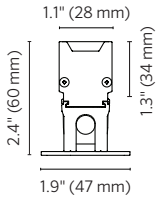
Fixed Bracket



Adjustable Bracket

Body Type T: Dynamic Color RGBW and RGBA





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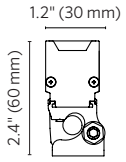
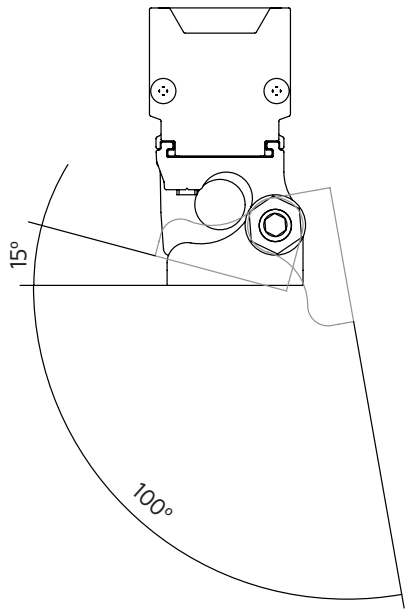


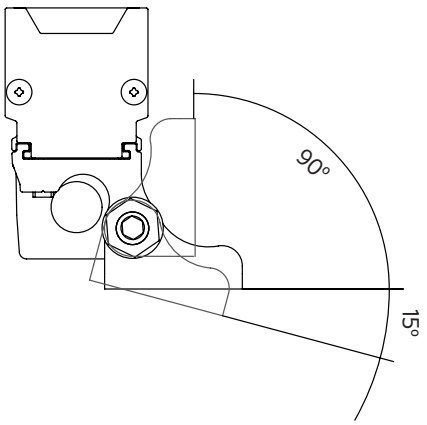
Adjustable Bracket

Luminaire Rotation

Adjustable Bracket

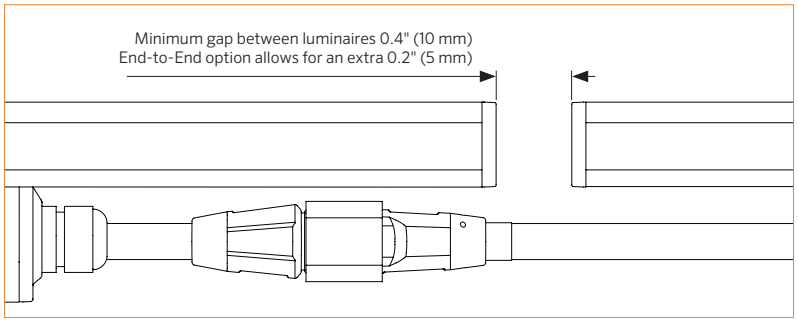


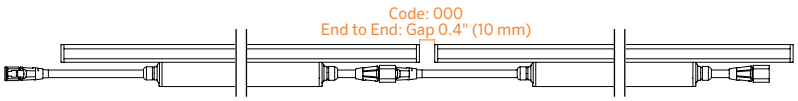
Adjustable Bracket Installed In Alternate Orientation

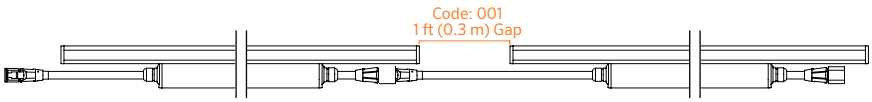


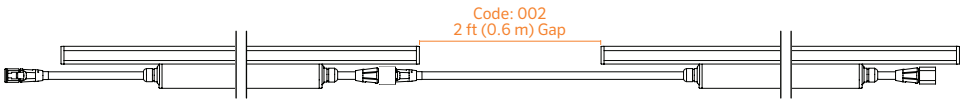
Luminaire Gap

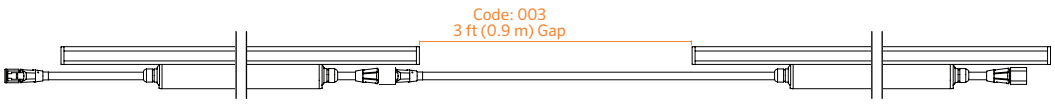
We define the Gap being where the luminaire ends to where the start of the next luminaire. To be able to create the gap, cable length is added to the input connector side. A minimum gap of 0.4" (10 mm) must be applied to cope with thermal expansion.

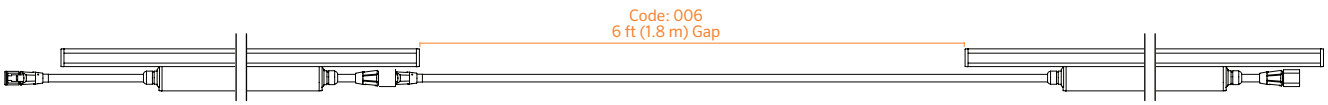












Specification Matrix

LS9015	–			63	DF							

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

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	Code
2,700 K – 6,500 K	2WT

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

Body Type	Code
Suits Single Color and Tunable White – 1.1" (29 mm) Extrusion	S
Suits Dynamic Color, RGBA and RGBW – 1.4" (34 mm) Extrusion	T

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

Input Voltage	Code
30-48 Vdc (International)	07
30-48 Vdc (North America)	09

Optics	Code
Diffused	DF

Control	Code
Non-Dimmable	ND[1]
PowerSync®	PS[2]

[1] For single color, non-dimming applications.
[2] Required for all dimming and color-changing applications. LS6550 PowerSync LV Data Injector required (order separately).

Length	Code
1 ft – 12.4" (314 mm)	1
2 ft – 24.2" (613 mm)	2
3 ft – 35.9" (912 mm)	3
4 ft – 47.7" (1,211 mm)	4
5 ft – 59.4" (1,510 mm)	5

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]

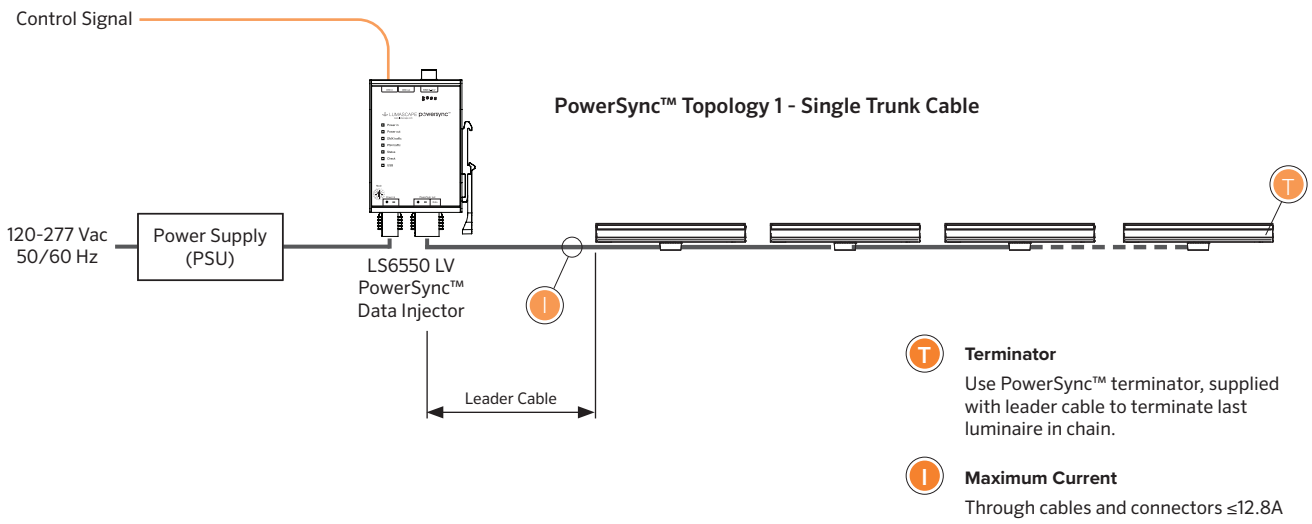
[1] RAL color required

Mounting	Code
Adjustable Bracket	A
Fixed Bracket	B

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 PowerSync™



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

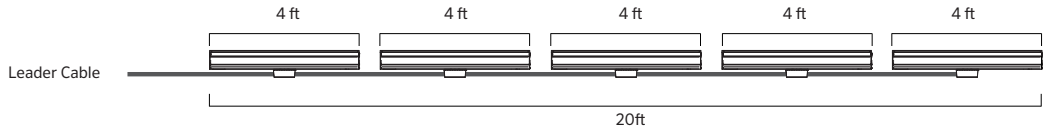
Maximum Circuit Loading - Single Run						
Power	Max Leader Cable Length from LS6550 to first fitting	Feet of Linear luminaire per 48 V Power Supply				
		120 W	240 W	320 W	480 W	600 W
5 W/ft	50 ft / 15 m	20	44	56	80	96
	98 ft / 30 m	20	44	56	76	88
	164 ft / 50 m	20	40	52	64	72
7 W/ft	50 ft / 15 m	14	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 Lumascape for details.
To calculate the maximum number of interconnected luminaires per run / circuit, see example below.

Circuit Calculation Example

5 W/ft	164 ft / 50 m	20

20 ft of linear fixture = 5 x 4 ft luminaires



For assistance, contact Lumascape. Always observe electrical codes.

Control Resolution

DMX Channel Allocation															
	RGBA / RGBW					Single Colour					Tunable White				
Pixel Size	**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 Extra Low Voltage (For Connection Type 63)

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
1.5 mm²	LS6426

Cable Type	Code
Non-Dimmable	ND
PowerSync	PS

Length	Code
10' (3 m)	010
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 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 Size	Code
1.5 mm²	LS6427

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
32' (10 m)	032
50' (15 m)	050
66' (20 m)	066
98' (30 m)	098

Connectorized Accessories

Terminators

Product	Code
PowerSync™ Terminator Connectorized, Low Voltage 30 to 48 Vdc (CE, UL)	LS6447

*** NOTE:**

- DMX Terminators ship with PowerSync Data Injectors.
- Terminators for hardwired PowerSync installations ship with PowerSync Data Injectors.
- Terminators for connectorized PowerSync installations ship with Leader Cables.
- Order separately for spares only.

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.

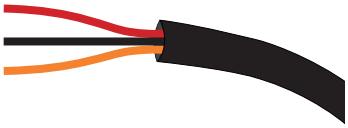
LS6550 – 2D

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.

Fixture Colors & Wiring Designations

Low Voltage

Designation	Color
+ DC	Red
– DC	Black
Data	Orange