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 the Lumascape **PowerSync**™ Data Injector. 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. Remote, off-site monitoring of every single fixture in the system is also possible.

Performance

Static White & Color[1]	Lumen Output (lm)	Efficacy (lm/W)
2,700 K (80 CRI)	930	66
3,000 K (80 CRI)	1,000	73
3,500 K (80 CRI)	930	66
4,000 K (80 CRI)	1,000	73
5,000 K (70 CRI)	1,000	73
Red	270	20
Green	700	50
Royal Blue	160	12

[1] Static white lumen output values are based on 4 W/ft, 4 ft luminaire.

Dynamic Color[2]	Lumen Output (lm)	Efficacy (lm/W)
RGBA	530	38
RGBW	580	41
RGBW with Royal Blue	540	39

[2] Dynamic Color lumen output values are based on 4 W/ft, 4 ft luminaire.

Tunable White[3]	Lumen Output (lm)	Efficacy (lm/W)
2,700 K - 6,500 K	960	69

[3] Tunable white lumen output values are based on 4 W/ft, 4 ft luminaire with all channels at 100%.

powersync™ easyglow™ cooldrive™ microantileach™

Products and specifications are subject to change without notice.

Electrical

LED Power	4 W/ft
Power Consumption	≤5 W/ft
Lifetime (L70)	>60,000 hrs (B10, L70, TM21)
Input Voltage	Low Voltage 30-48 Vdc
Thermal Management	**CoolDrive**™ onboard thermal monitoring and control

Control

Interface	Lumascape **PowerSync**™
Protocols[1]	DMX/RDM, Artnet, PWM[2], 0-10 V (sink or source)[2]
PWM Frequency	1.6 kHz flicker-free dimming to 0.1%
Control Resolution	25 mm (1.0"), 75 mm (3.0"), 150 mm (6.0"), 300 mm (12.0") and full luminaire Configurable via RDM
Systems	Range of third-party controllers

[1] Some protocols require additional hardware. For more information and other available protocols contact Lumascape.
[2] Not available for color-changing or tunable white.

Physical

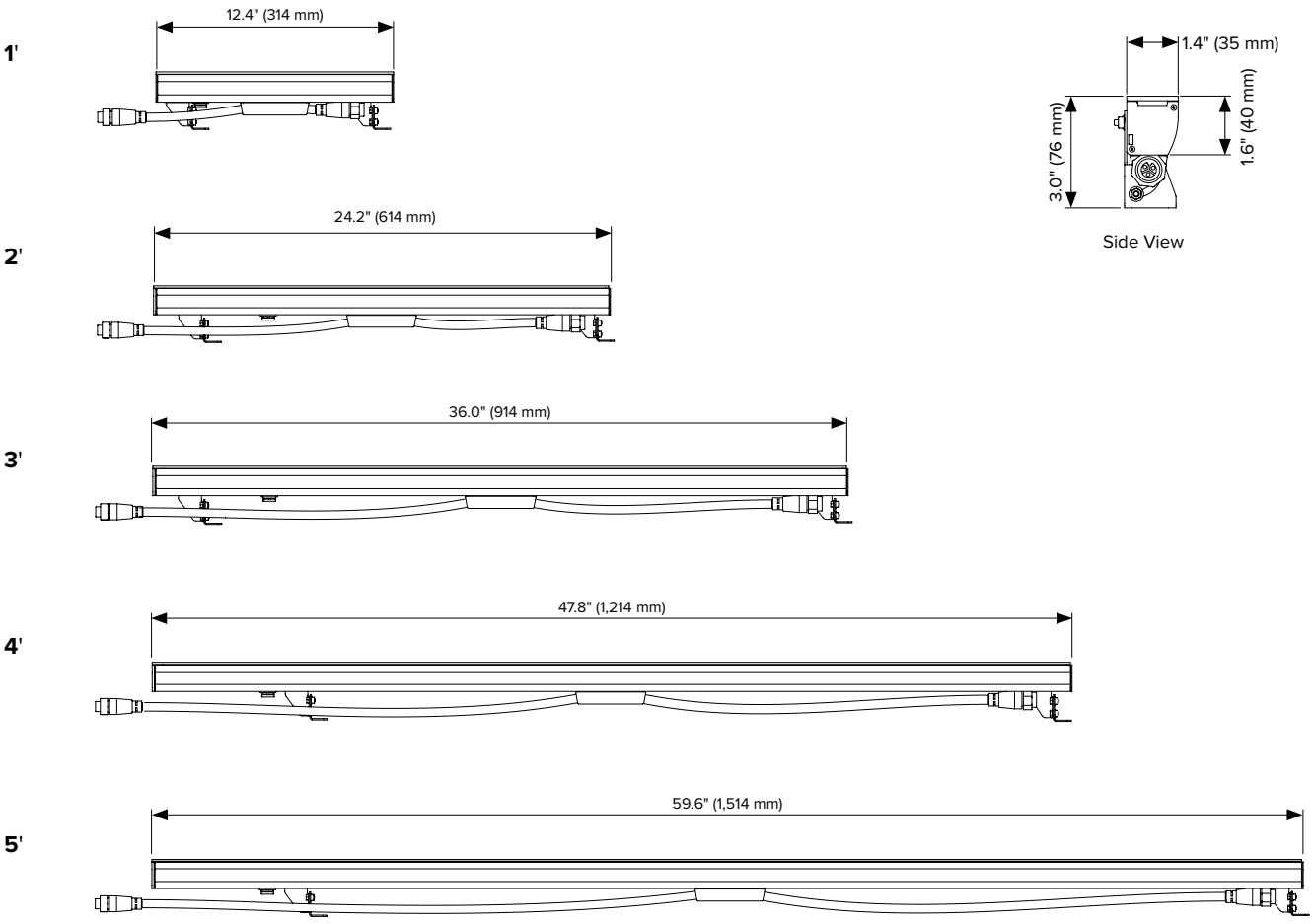
Housing	Marine-grade extruded aluminum with tempered glass lens
Finish	Silver Anodised aluminum or superior 9-step powder-coating process, including marine-grade epoxy undercoat and polyester top coat
Installation	Surface-mounted
Adjustable	A range of mounting options available
Ambient Operating Temperature	-40 °F to 122 °F (-40 °C to 50 °C)
Surface Temperature	95 °F (35 °C)
Weight	4.2 lbs (1.9 kg) for 4 ft section
Effective Projected Area	0.6 ft^2 (509 cm^2) for 4 ft section

Certification & Compliance

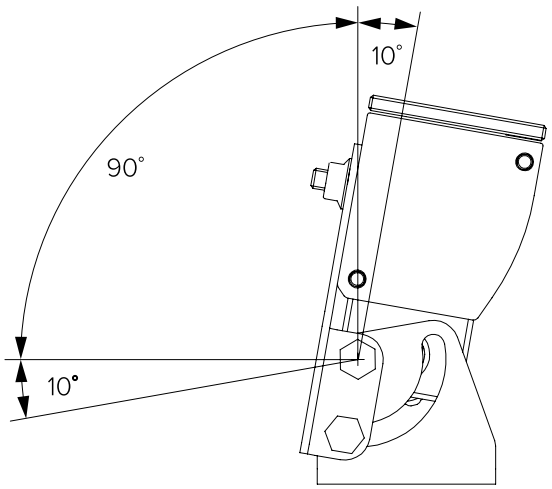
IP Rating	IP66 / IP67 (IP68 tested)
IK Rating	IK6
Environment	Dry, Damp, Wet locations
Certifications	ETL, CE, RCM, CCC (Pending)

Products and specifications are subject to change without notice.

Dimensions



Luminaire Rotation



Specification Matrix

LS9015	–	04D		63	DF		A		FE				

Light Engine	Code
4 W/ft	04D

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
Red	RED
Green	GRN
Royal Blue	RBL

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

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

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

Optics	Code
Flat Glass	DF

Length	Code
1 ft – 12.4" (314 mm)	1
2 ft – 24.2" (614 mm)	2
3 ft – 36.0" (914 mm)	3
4 ft – 47.8" (1,214 mm)	4
5 ft – 59.6" (1,514 mm)	5

Mounting	Code
Adjustable Bracket	A

Housing	Code
Curved Housing	FE

Input Voltage	Code
30-48 Vdc	07[1]
30-48 Vdc	13[2]

[1] For International Market
[2] For North American Market

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. LS6550 PowerSync™ LV Data Injector required (order sperately).

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

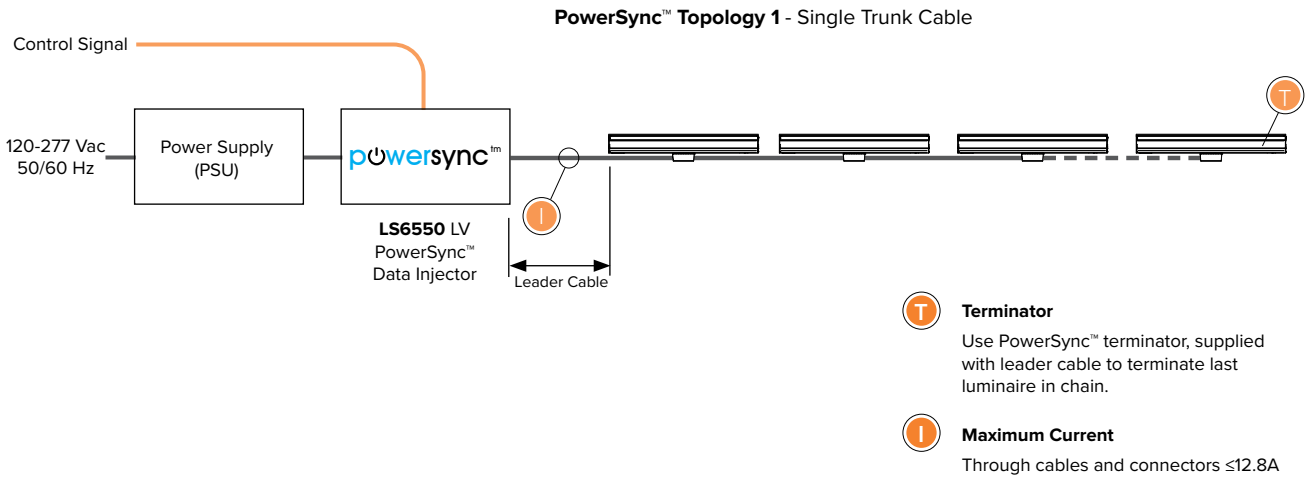
[1] RAL color required

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.

Products and specifications are subject to change without notice.

Network Topology – Low Voltage PowerSync™



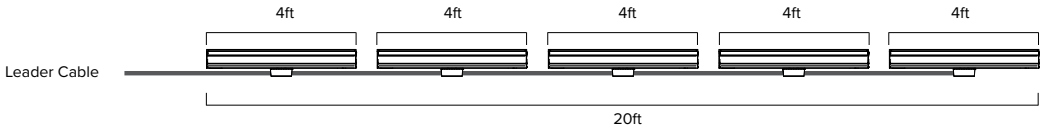
Up to 24 luminaires per 48V PowerSync™ circuit / LS6550 Low Voltage PowerSync™ Data Injector

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	15 m / 50 ft	20	44	56	80	96
	30 m / 98 ft	20	44	56	76	88
	50 m / 164 ft	20	40	52	64	72

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



For assistance, contact Lumascape. Always observe electrical codes.

Control Resolution

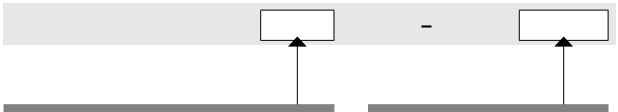
DMX Channel Allocation															
	RGBA / RGBW					Single Colour					Tunable White				
Pixel Size	**1 ft**	**2 ft**	**3 ft**	**4 ft**	**5 ft**	**1 ft**	**2 ft**	**3 ft**	**4 ft**	**5 ft**	**1 ft**	**2 ft**	**3 ft**	**4 ft**	**5 ft**
Full Fixture	4	4	4	4	4	1	1	1	1	1	2	2	2	2	2
12.0" / 300 mm	4	8	12	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
1.0" / 25 mm	48	96	144	192	240	12	24	36	48	60	24	48	72	96	120

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

PowerSync™ Connectorized Accessories

Leader Cables – PowerSync™ Low Voltage (For Connection Type 63 or 67 Only)

3-core 16 AWG / 1.5mm^2 for use in CE/CCC and UL installations. Compatible with all uminaires with Type 63 or 67 connectorized supply cable options. 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, low voltage terminator plug.



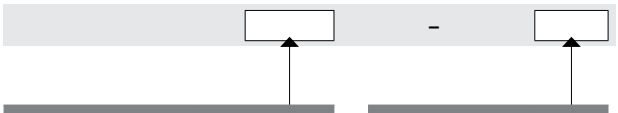
Cable Type	Code
1.5 mm^2	LS6426

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

Please Note:
Leader cable ships with 1 x connectorized PowerSync™ terminator.

Jumper Cables – PowerSync™ Low Voltage (For Connection Type 63 or 67 Only)

3-core 16 AWG / 1.5 mm^2 for use in CE/CCC and UL installations. Compatible with all Luminaires with Type 63 or 67 connectorized supply cable options. Supplied fitted with an IP68 connectors for joining between connectorized luminaires in a Powersync™4, low voltage circuit.



Cable Type	Code
1.5 mm^2	LS6427

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

Products and specifications are subject to change without notice.

PowerSync™ Connectorized Accessories

Terminator (Hardwired Installation)

Used in hardwired PowerSync™ installations.

Terminator	Code
PowerSync™ Terminator Connectorized, Extra Low Voltage (CCC, CE, UL)	LS6437

Please Note:
Terminator ships with every LS6550. Order separately for spare parts only.

PowerSync™ 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.

LS6540

Product	Code
Data Injector PS4	LS6550

Wire Colours & Designations

Low Voltage

Designation	Colour
Positive	Red
Negative	Black
Data	Orange