Linealux L1 Linear Facade

LUMASCAPE

A low power architectural grade luminaire that combines technology and performance in a stylish low profile form factor. Packed with features including **EasyGlow**™ visual comfort and **CoolDrive**™ thermal management technologies. **PowerSync**™ allows for highly granular digital control via common protocols. Unique and flexible optics allow wide end-to-end spacing while maintaining excellent uniformity. Choice of designer options to reduce colour-over-angle seperation, few striations in the beam and shorter blending distances. Standard LED options also available for exceptional reach.

powersync4™ easyglow™ cooldrive™

Performance

Static White & Colour	Lumen Output (lm)	Efficacy (lm/W)
2,700 K (80 CRI)	990	70.7
3,000 K (80 CRI)	1,080	77.1
3,500 K (80 CRI)	990	70.7
4,000 K (80 CRI)	1,080	77.1
5,000 K (80 CRI)	1,080	77.1
Red	300	21.7
Green	560	40.3
Royal Blue	150	11.1

Static white lumen output values are based on 4 W/ft, 4 ft luminaire with 30° x 80° lens.

Dynamic Colour	Lumen Output (lm)	Efficacy (lm/W)
RGBA with Royal Blue	600	41.9
RGBW	650	46.4
RGBW with Royal Blue	610	43.8

Dynamic colour lumen output values are based on 4 W/ft, 4 ft luminaire with 30° x 80° lens.

Tunable White	Lumen Output (lm)	Efficacy (lm/W)
2,700 K - 6,500 K	990	70.7

Beam Angles	20° x 80°, 30° x 80°, 40° x 80°

ASIA PACIFIC 18 Brandl Street, Eight Mile Plains, QLD 4113, Australia **P:** +61 7 3854 5000 | **F:** +61 7 3854 5001 | **E:** sales@lumascape.com.au | www.lumacape.com.au
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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	25mm (1.0"), 75mm (3.0"), 150mm (6.0"), 300mm (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

Physical

Housing	Extruded marine-grade aluminium, tempered glass lens.
Finish	Anodised aluminium or superior 9-step powder-coating process, including marine epoxy undercoat and polyester top coat.
Installation	Surface-mounted
Adjustable	Multi-positional
Ambient Operating Temperature	-40°C to 50°C (-40°F to 122°F)
Surface Temperature	≤35°C (95°F)
Weight	1.9 kg (4.2 lbs) for 4 ft section
Effective Projected Area	509 cm^2 (0.6 ft^2) for 4 ft section

Certification & Compliance

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

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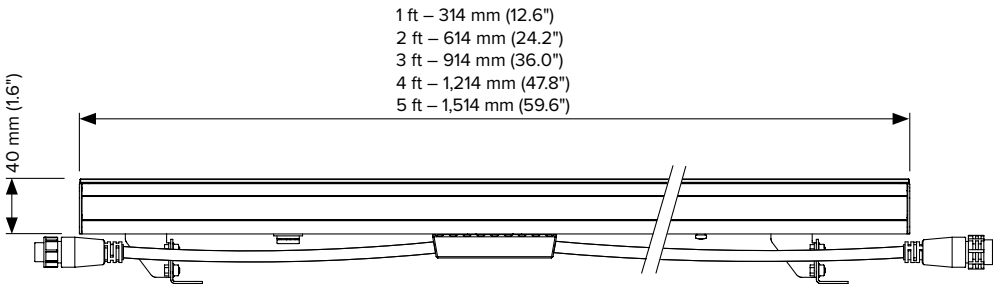
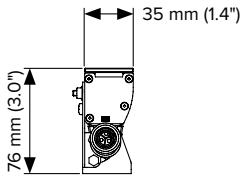
Dimensions

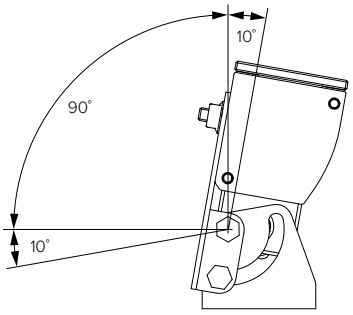


Front View



Side View

Luminaire Rotation



Cable Installation

Cable Connection
Luminaires should be wired with the output plug to the left (as shown). All fixtures should be mounted as per the installation instructions supplied with the product.

Products and specifications are subject to change without notice.

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Specification Matrix

LS9010	–	04D										

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 with Royal Blue	4CA
RGBW	4CW
RGBW with Royal Blue	4BW[1]

[1] Available on request

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

Connection Type	Code
Flexible entry / exit cable for connectorized installations	63

Beam Angles	Code
20° x 80	NH
30° x 80°	MH
40° x 80°	WH

Length	Code
1 ft – 314 mm (12.4")	1
2 ft – 614 mm (24.2")	2
3 ft – 914 mm (36.0")	3
4 ft – 1,214 mm (47.7")	4
5 ft – 1,514 mm (59.6")	5

Housing	Code
Curved Housing	FE

Mounting	Code
Adjustable Bracket	A

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

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

Control	Code
Non-dimming	ND[1]
PowerSync™	PS[2]

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

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]
0.3 m (1 ft) Gap	001
0.6 m (2 ft) Gap	002
0.9 m (3 ft) Gap	003
1.8 m (6 ft) Gap	006

[1] Default - Minimum length for ETE connection.

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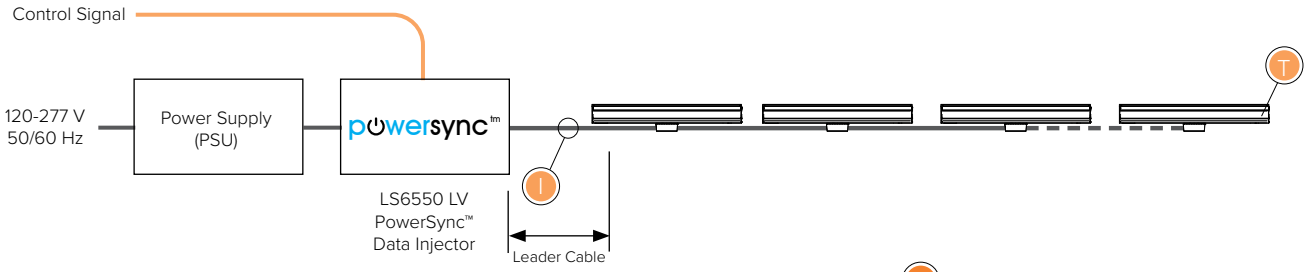
Network Topology – Low Voltage PowerSync™

PowerSync™ Topology 1 - Single Trunk Cable



Terminator

Use PowerSync™ terminator, supplied with leader cable to terminate last luminaire in chain.

Maximum Current

Through cables and connectors ≤12.8A

Up to 24 luminaires per 48V PowerSync™ circuit / LS6550

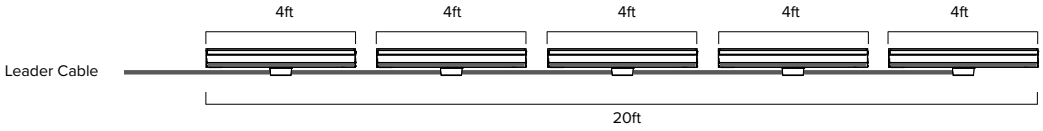
Maximum Circuit Loading - Single Run						
LED Power	Max Leader Cable Length from LS6550 to first fitting	Feet of Linear luminaire per 48 V Power Supply				
		120 W	240 W	320 W	480 W	600 W
4 W/ft	15 m / 50 ft	20	44	56	80	96
	30 m / 98 ft	20	44	56	76	88
	50 m / 164 ft	20	40	52	64	72

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
300 mm / 12.0"	4	8	12	16	20	1	2	3	4	5	2	4	6	8	10
150 mm / 6.0"	8	16	24	32	40	2	4	6	8	10	4	8	12	16	20
75 mm / 3.0"	16	32	48	64	80	4	8	12	16	20	8	16	24	32	40
25 mm / 1.0"	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

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PowerSync™ Connectorized Accessories

Leader & Jumper Cables – Low Voltage (For Connection Type 63 / 67 Only)

3-core cable supplied with an IP68 connector to pair with the first luminaire in a circuit and to suit PowerSync™ connectorized luminaires.

Cable Type	Code
Leader Cable 16 AWG CE / UL	LS6426
Jumper Cable 16 AWG CE / UL	LS6427

Length	Code
0.3 m (1 ft)	001
0.6 m (2 ft)	002
1 m (3 ft)	003
2 m (6 ft)	006
5 m (16 ft)	016
10 m (33 ft)	033
15 m (50 ft)	050
20 m (66 ft)	066
30 m (98 ft)	098

PowerSync™ Accessories

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

PowerSync™ Data Injector	Code
PowerSync™ LV Data Injector for seamless addressing and control of luminaires	LS6650

Please Note:
Leader cable ships with 1 x connectorized PowerSync™ terminator, PowerSync™ Data Injector (LS6550) ships with 3 x hard-wired PowerSync™ terminators and 1 x hard-wired DMX terminator.

Wire Colours & Designations

Low Voltage

Designation	Colour
Positive	Red
Negative	Black
Data	Orange

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