

At only 1.1” (28 mm) wide, the Generation 2, Linealux L1 mini grazer provides enormous creative lighting potential, in a very small package. Packed with features including **EasyGlow™** visual comfort, **CoolDrive™** thermal management and **PowerSync™** communication technologies. PowerSync allows for highly granular digital control via DMX/RDM, with no additional wiring.

Unique and flexible designer optics allow wide end-to-end spacing while maintaining excellent uniformity and superb color-over-angle and blending consistency even at close grazing distances.

Available in a range of standard lengths from 1 ft (300 mm) to 5 ft (1500 mm), the Linealux L1 Generation 2 provides excellent installation flexibility. Using the Linealux L1 Generation 2 in your lighting project, imagination really is the only limit!

Performance

Static White & Color ¹	Lumen Output (lm)	Efficacy (lm/W)
■ 2,700 K (80 CRI)	1,620	61
■ 3,000 K (80 CRI)	1,740	66
□ 3,500 K (80 CRI)	1,740	66
■ 4,000 K (80 CRI)	2,020	77
■ 5,000 K (70 CRI)	1,880	71

¹ Lumen output values are based on 7 W/ft, 4 ft luminaire, 20° x 80° lens.

Dynamic Color ²	Lumen Output (lm)	Efficacy (lm/W)
■ RGBA	1,180	44
■ RGBW (4,000 K) with Royal Blue*	1,100	41

² Lumen output values are based on 7 W/ft, 4 ft luminaire, 20° x 80° lens.

Tunable White ³	Lumen Output (lm)	Efficacy (lm/W)
■ 2,700 K - 6,500 K	1,750	66

³ Lumen output values are based on 7 W/ft, 4 ft luminaire, 20° x 80° lens.

Beam Angles	20° x 80°, 30° x 80°, 40° x 80°, Asymmetric
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*** 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 Lumascope for custom LED Colors.



Products and specifications are subject to change without notice. LS9010-230721

Electrical

Power Consumption	7 W/ft, 5 W/ft
Lifetime	>60,000 hrs (B10, L70, TM21 Reported)
Input Voltage	Low Voltage 30-48 Vdc
Thermal Management	CoolDrive™ onboard thermal monitoring and control

Control

Interface	Lumascap PowerSync ®
Protocols¹	DMX / RDM, Artnet ¹ , 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 Lumascap 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 Lumascap.

² Not available for color-changing or tunable white

Physical

Housing	Marine-grade extruded aluminum with tempered OptiClear™ glass lens
Finish	Superior 9-step powder-coating process, including marine-grade anodizing 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	3.8 lb (1.7kg) for 4 ft section
Effective Projected Area	0.5 ft ² (0.4 m ²) for 4 ft section

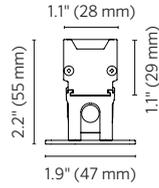
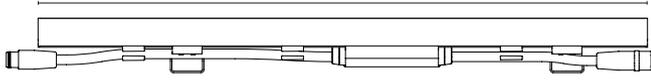
Certification & Compliance

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

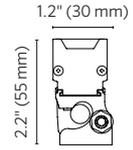
Dimensions

Body Type S: Without Integral Micro-Louver

- 1 ft - 12.4" (314 mm)
- 2 ft - 24.1" (613 mm)
- 3 ft - 35.9" (912 mm)
- 4 ft - 47.7" (1,211 mm)
- 5 ft - 59.4" (1,510 mm)



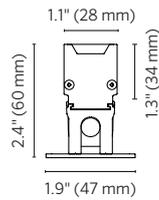
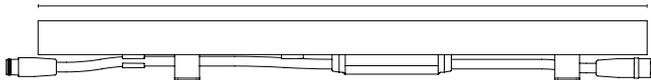
Fixed Bracket



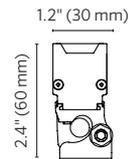
Adjustable Bracket

Body Type L: With Integral Micro-Louver

- 1 ft - 12.4" (314 mm)
- 2 ft - 24.1" (613 mm)
- 3 ft - 35.9" (912 mm)
- 4 ft - 47.7" (1,211 mm)
- 5 ft - 59.4" (1,510 mm)



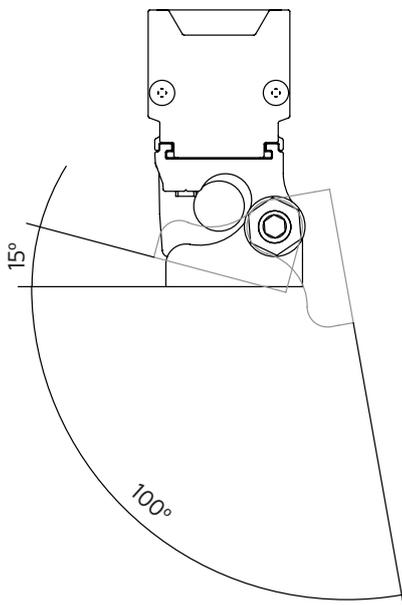
Fixed Bracket



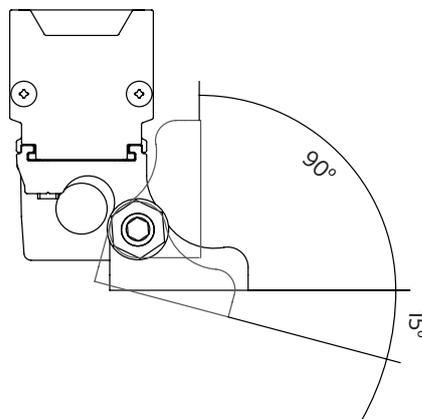
Adjustable Bracket

Luminaire Rotation

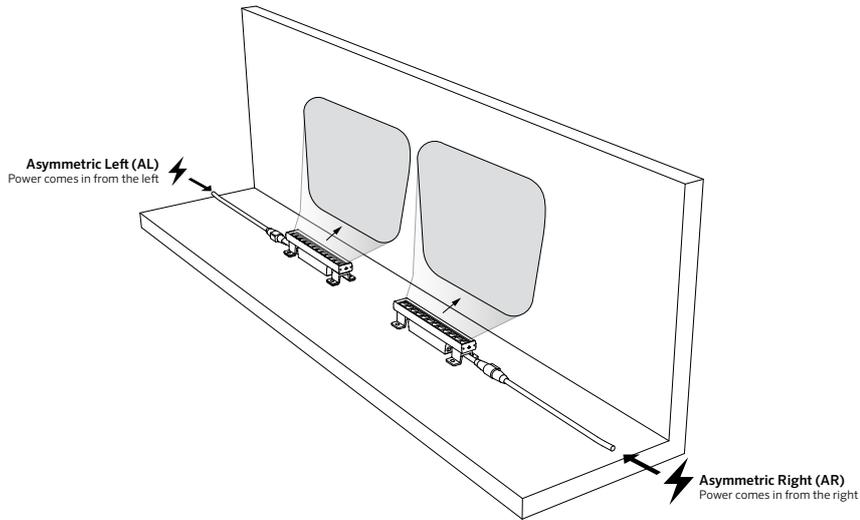
Adjustable Bracket



Adjustable Bracket Installed In Alternate Orientation

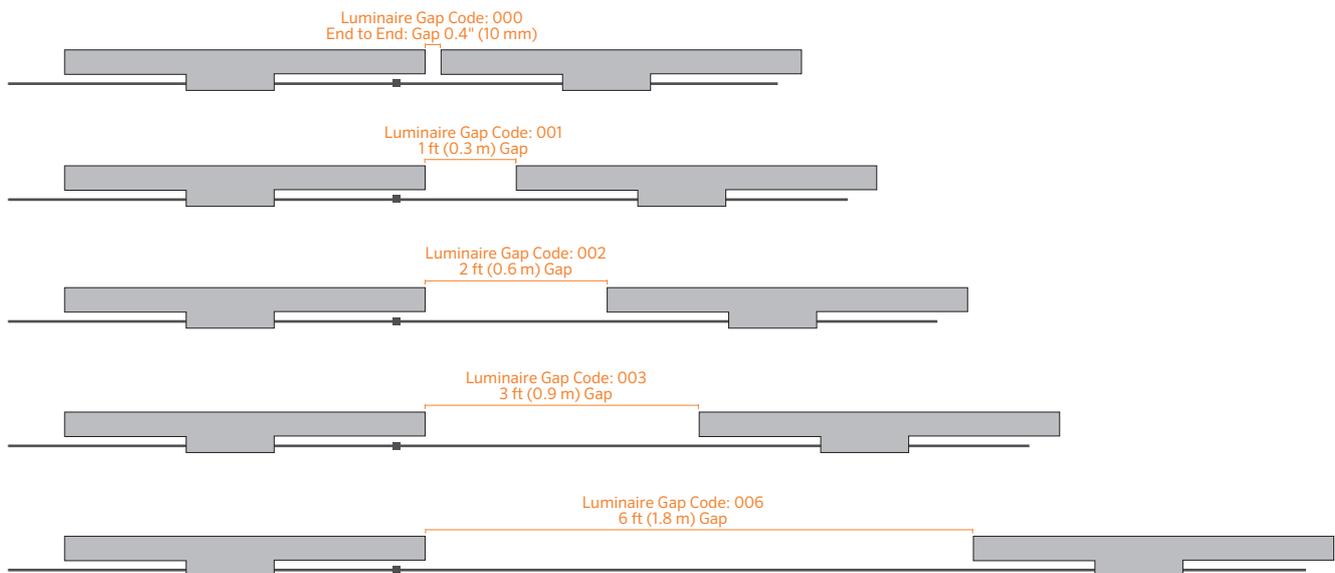
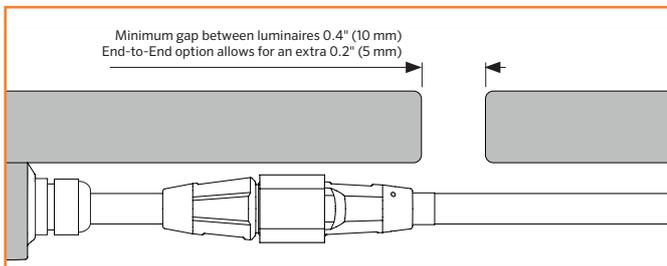


Asymmetric Optics

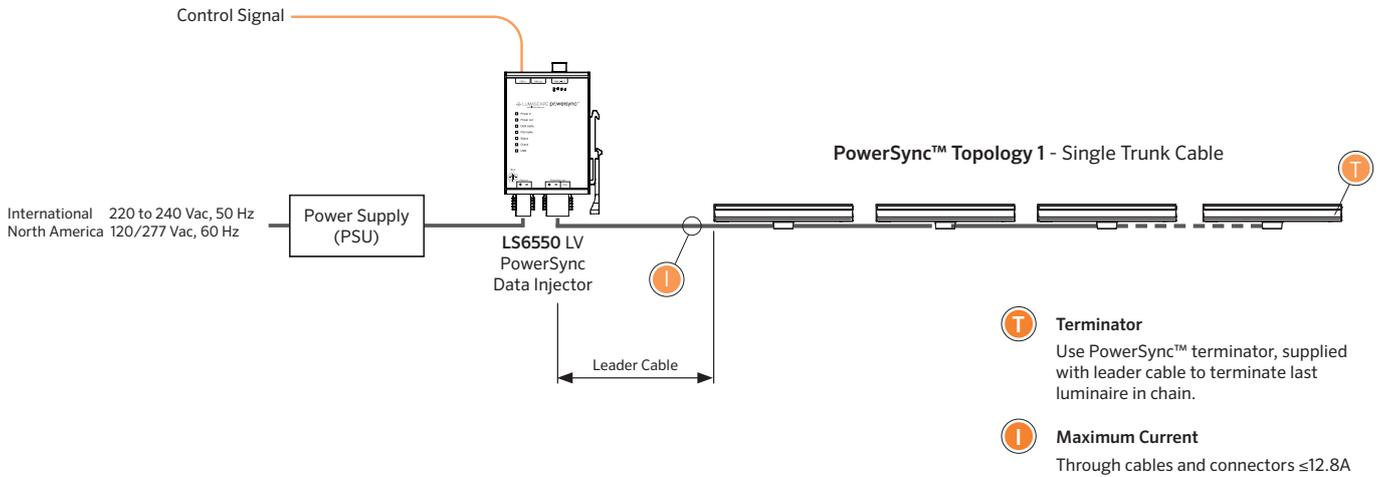


Luminaire Gap

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.



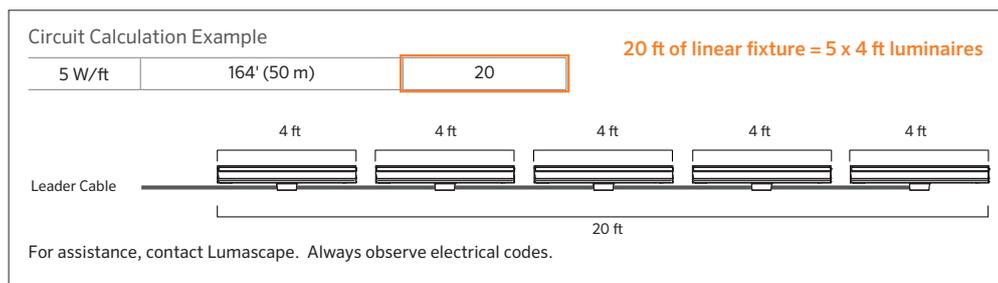
Network Topology – Low Voltage 30-48 Vdc Dimmable and Color-Changing via PowerSync4™



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' (15 m)	20	44	56	80	96
	98' (30 m)	20	44	56	76	88
	164' (50 m)	20	40	52	64	72
7 W/ft	50' (15 m)	14	28	36	56	64
	98' (30 m)	14	28	36	48	56
	164' (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 luminaire cables, inclusion of jumper cables, or longer leader cable will effect loading. Circuits can be made up of up to 24 luminaires in any length, up to the maximum circuit loading in the table above. Circuits are limited to maximum 12.8 A. For non-continuous runs, contact Lumascape for more information. 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
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	Cable Type	Code	Length
1.5 mm ²	LS6426	Non-Dimmable	ND	10' (3 m)
		PowerSync	PS	16' (5 m)
				50' (15 m)
				66' (20 m)
				98' (30 m)

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	Cable Type	Code	Length
1.5 mm ²	LS6427	Non-Dimmable	ND	1' (0.3 m)
		PowerSync	PS	2' (0.6 m)
				3' (1 m)
				6' (2 m)
				16' (5 m)
				32' (10 m)
				50' (15 m)
				66' (20 m)
				98' (30 m)

Connectorized Accessories

Terminators

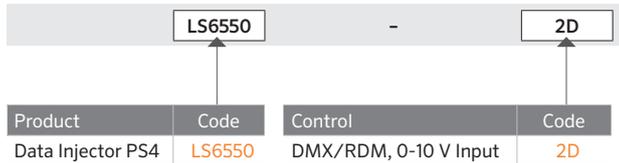
Product	Code
DMX Terminator Hardwired	LS6407
PowerSync Terminator Hardwired, Line Voltage 220 to 240 Vac	LS6406-01
PowerSync Terminator Hardwired, Line Voltage 120/277 Vac	LS6406-09
PowerSync Terminator Connectorized, Line Voltage 220 to 240 Vac, 120/277 Vac	LS6417

* 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.



NOTE:

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

Luminaire Wire Colors & Designations

Low Voltage 30 to 48 Vdc

Designation	Color
+ DC	Red
- DC	Black
Data	Orange

