



A high-power architectural grade luminaire that combines technology and performance in a stylish linear 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 whilst maintaining excellent uniformity. Lighting professionals now have greater creative flexibility with the choice of a designer lens option, which provides superb color-over-angle consistency and blending of colors even at close blending distances. Standard LED options are also available for exceptional reach.

Performance

Static White & Color ¹	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● 2,700 K (80 CRI)	9,500	93	196,400
● 3,000 K (80 CRI)	9,530	93	197,900
○ 3,500 K (80 CRI)	9,560	94	198,500
● 4,000 K (80 CRI)	9,950	98	204,200
● 5,000 K (70 CRI)	9,200	90	185,700
● Red ²	2,280	38	78,700
● Green ²	5,980	59	129,100
● Royal Blue ²	2,600	26	50,800

¹ Static white lumen output values are based on 22 W/ft, 4 ft luminaire with 10° standard lens.

² Single color lumen output values are based on 22 W/ft, 4 ft luminaire with 6° designer lens.

Dynamic Color ³	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● RGBA	4,390	46	119,500
● RGBW	5,160	54	130,400
● RGBW with Royal Blue	4,730	50	119,500

³ Dynamic Color lumen output values are based on 22 W/ft, 4 ft luminaire with 6° designer lens.

Tunable White ⁴	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● 2,700 K – 6,500 K	8,200	88	341,100

⁴ Tunable White lumen output values are based on 22 W/ft, 4 ft luminaire with 6° designer lens.

Beam Angles

Light Engine	Series	Beam Angles
Static White & Single Color	Standard	10°, 15°, 30°, 45°, 10° x 40°, 20° x 40°, 20° x 60°
	Designer ⁵	6°, 10°, 15°, 30°, 45°, 60°, 10° x 40°, 10° x 60°, 20° x 40°, 20° x 60°
Dynamic Color	Designer ⁵	6°, 10°, 15°, 30°, 45°, 60°, 10° x 40°, 10° x 60°, 20° x 40°, 20° x 60°
Tunable White	Designer ⁵	6°, 10°, 15°, 30°, 45°, 60°, 10° x 40°, 10° x 60°, 20° x 40°, 20° x 60°

⁵ Designer optics provide superb color-over-angle consistency and blending of colors, even at close blending distances.



Electrical

LED Power	22 W/ft, 15 W/ft
Power Consumption	25 W/ft, 18 W/ft
Lifetime (L70)	> 60,000 hrs (B10, L70, TM21)
Input Voltage	120-277 Vac, 50/60 Hz
Earth Leakage	0.4 mA @ 120 Vac, 0.5 mA @ 240 Vac, 0.6 mA @ 277 Vac
Thermal Management	CoolDrive™ onboard thermal monitoring and control

Control

Interface	Lumascape PowerSync™
Protocols¹	DMX/RDM, Artnet, PWM ² , 0-10 V (sink or source) ² , Phase Dimming ²
PWM Frequency	2 kHz flicker-free dimming to 0.1%
Control Resolution	12.0" (300 mm) 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.

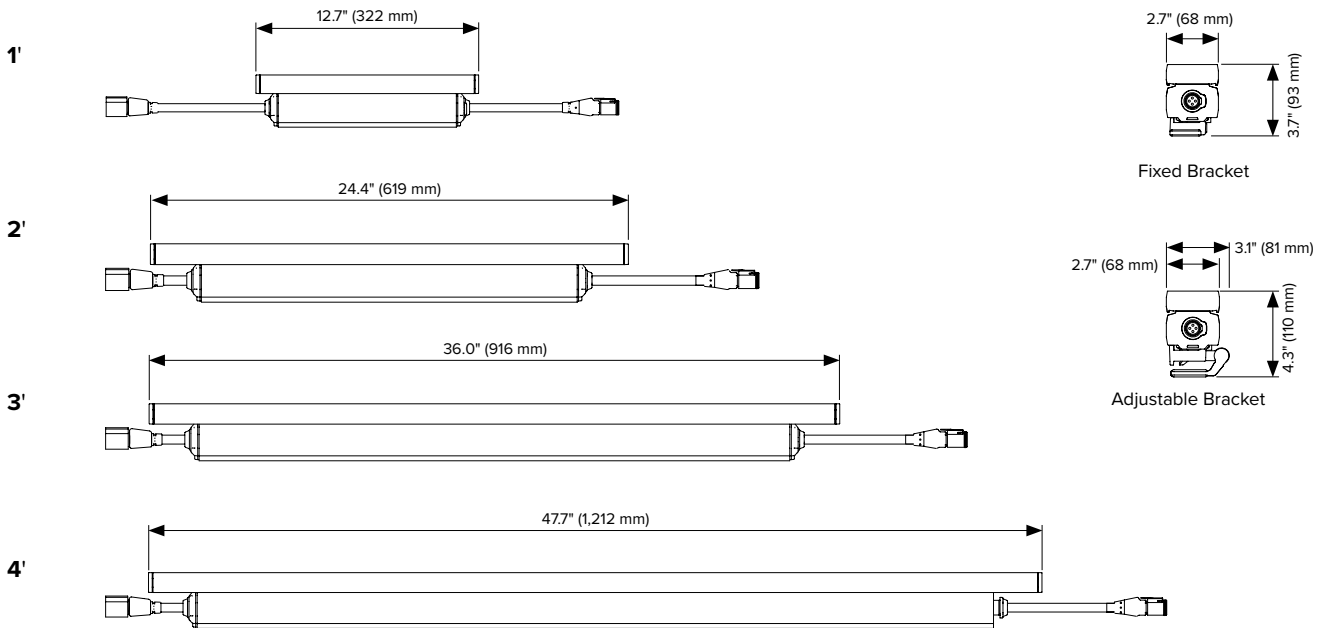
Physical

Housing	Marine-grade extruded die cast aluminum, tempered glass lens, isolated stainless steel fasteners, constant torque adjustable mounting bracket (lockable and reversible)
Finish	Superior 9-step powder-coating process, including marine-grade epoxy undercoat and polyester top coat
Installation	Surface-mounted with included galvanic isolator
Adjustable	Multi-positional, constant torque locking brackets
Ambient Operating Temperature	-40 °F to 122 °F (-40 °C to 50 °C)
Surface Temperature	≤122 °F (50 °C) for 22 W/ft
Weight	15.4 lbs (7.0 kg) for 4 ft section
Effective Projected Area	0.9 ft ² (812 cm ²) for 4 ft section

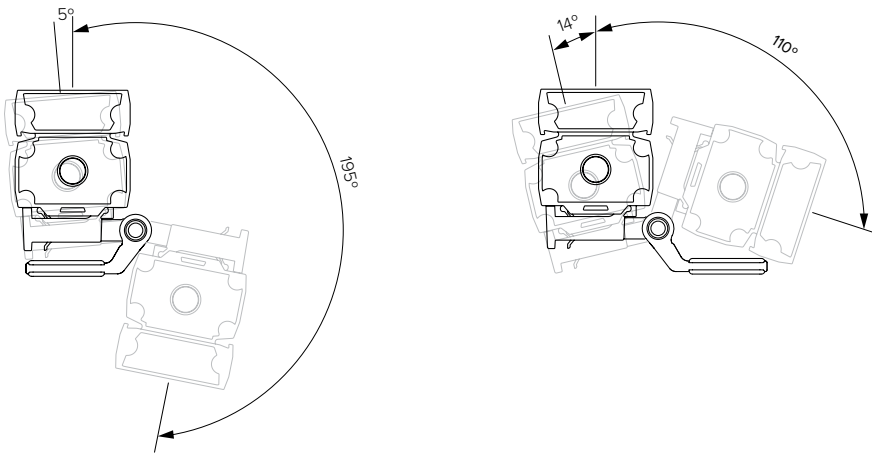
Certification & Compliance

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

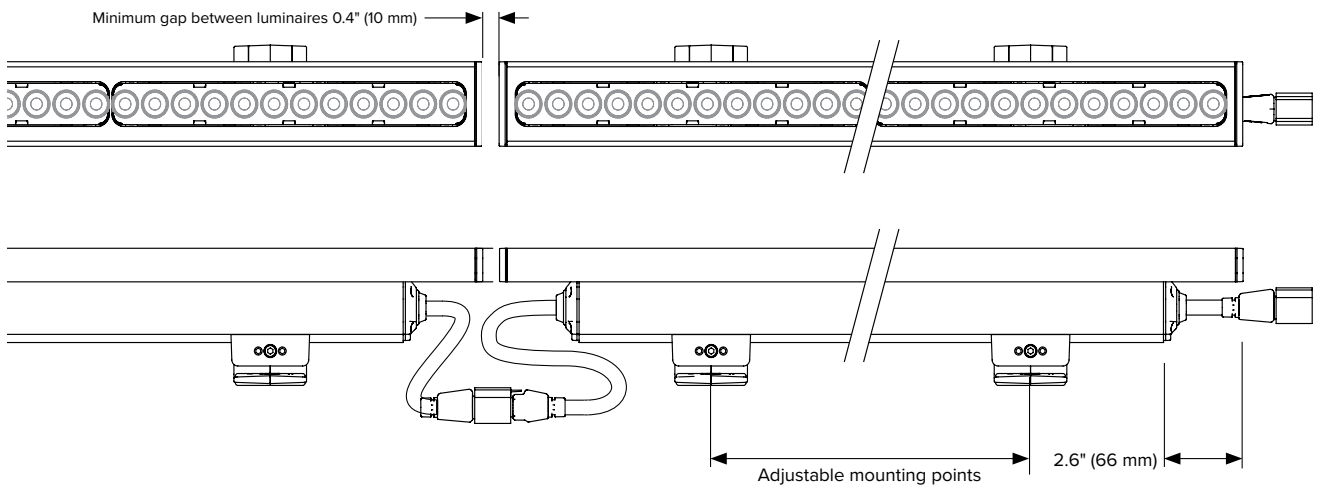
Dimensions



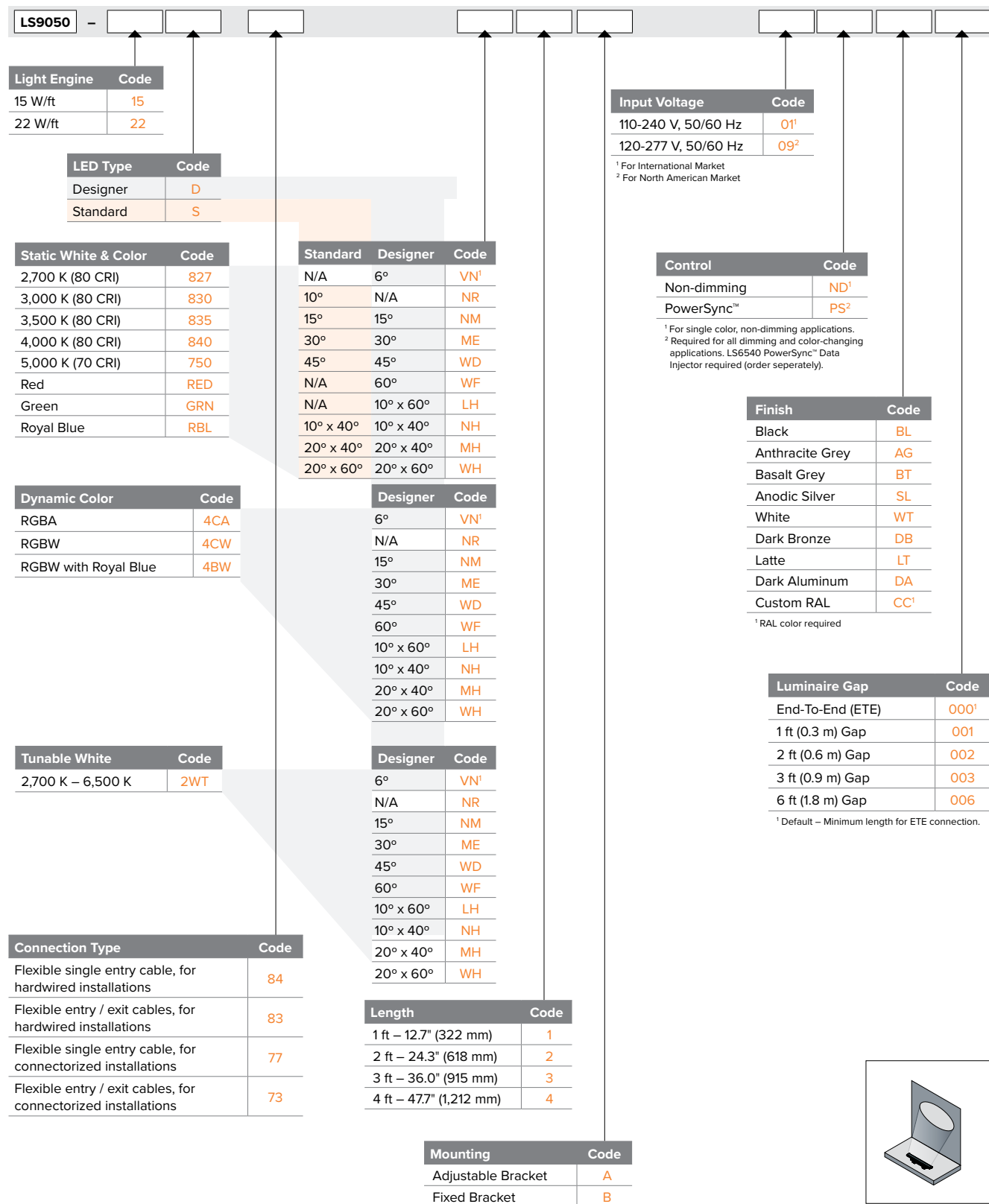
Luminaire Rotation



Mounting & Luminaire Length



Specification Matrix



LS9050 - [] [] [] [] [] [] [] [] [] [] [] [] []

Light Engine	Code
15 W/ft	15
22 W/ft	22

LED Type	Code
Designer	D
Standard	S

Static White & Color	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 (70 CRI)	750
Red	RED
Green	GRN
Royal Blue	RBL

Standard	Designer	Code	
N/A	6°	VN ¹	
	10°	NR	
	15°	NM	
	30°	ME	
	45°	WD	
	N/A	60°	WF
	N/A	10° x 60°	LH
	10° x 40°	10° x 40°	NH
	20° x 40°	20° x 40°	MH
	20° x 60°	20° x 60°	WH

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

Designer	Code
6°	VN ¹
N/A	NR
15°	NM
30°	ME
45°	WD
60°	WF
10° x 60°	LH
10° x 40°	NH
20° x 40°	MH
20° x 60°	WH

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

Designer	Code
6°	VN ¹
N/A	NR
15°	NM
30°	ME
45°	WD
60°	WF
10° x 60°	LH
10° x 40°	NH
20° x 40°	MH
20° x 60°	WH

Connection Type	Code
Flexible single entry cable, for hardwired installations	84
Flexible entry / exit cables, for hardwired installations	83
Flexible single entry cable, for connectorized installations	77
Flexible entry / exit cables, for connectorized installations	73

Length	Code
1 ft – 12.7" (322 mm)	1
2 ft – 24.3" (618 mm)	2
3 ft – 36.0" (915 mm)	3
4 ft – 47.7" (1,212 mm)	4

Mounting	Code
Adjustable Bracket	A
Fixed Bracket	B

Input Voltage	Code
110-240 V, 50/60 Hz	01 ¹
120-277 V, 50/60 Hz	09 ²

¹ For International Market
² For North American Market

Control	Code
Non-dimming	ND ¹
PowerSync™	PS ²

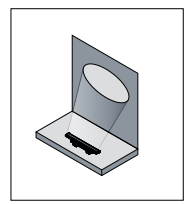
¹ For single color, non-dimming applications.
² Required for all dimming and color-changing applications. LS6540 PowerSync™ Data Injector required (order separately).

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.



Beam Orientation for the "LH", "NH", "MH" and "WH" optical system.

Accessories

Shielding & Glare Control

A variety of shielding and glare control options are available for the Linealux L5 Series. The images below depict the one foot version of the luminaire but glare control accessories are available from 1 ft to 4 ft in length to suit any base luminaires.

External / Slatted Louvre



Visor Length	Code	Finish	Code
External / Slatted Louvre - 1 ft	LS6209	Black	BL
External / Slatted Louvre - 2 ft	LS6210	Anthracite Grey	AG
External / Slatted Louvre - 3 ft	LS6211	Basalt Grey	BT
External / Slatted Louvre - 4 ft	LS6212	Anodic Silver	SL
		White	WT
		Dark Bronze	DB
		Latte	LT
		Dark Aluminum	DA
		Custom RAL	CC ¹

¹ RAL color required.



External Shield / Visor 1-sided



Visor Length	Code	Finish	Code
External Shield / Visor 1-sided - 1 ft	LS6213	Black	BL
External Shield / Visor 1-sided - 2 ft	LS6214	Anthracite Grey	AG
External Shield / Visor 1-sided - 3 ft	LS6215	Basalt Grey	BT
External Shield / Visor 1-sided - 4 ft	LS6216	Anodic Silver	SL
		White	WT
		Dark Bronze	DB
		Latte	LT
		Dark Aluminum	DA
		Custom RAL	CC ¹

¹ RAL color required.



External Shield / Visor 3-sided



Louvre Length	Code	Finish	Code
External Shield / Visor 3-sided - 1 ft	LS6217	Black	BL
External Shield / Visor 3-sided - 2 ft	LS6218	Anthracite Grey	AG
External Shield / Visor 3-sided - 3 ft	LS6219	Basalt Grey	BT
External Shield / Visor 3-sided - 4 ft	LS6220	Anodic Silver	SL
		White	WT
		Dark Bronze	DB
		Latte	LT
		Dark Aluminum	DA
		Custom RAL	CC ¹

¹ RAL color required.

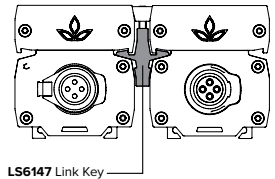


Accessories

LS6147 Link Key

Lighting designers and architects can take advantage of the Lumascope Link Key to interconnect two or more L5 luminaires. Luminaires joined with a link key can be daisy-chained with one cable and individually controlled using Lumascope **PowerSync™** technology. It has never been easier to double, triple or even quadruple the lumen output for any application.

Side View



LS6147 Link Key



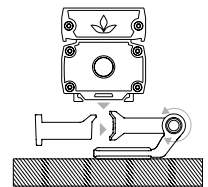
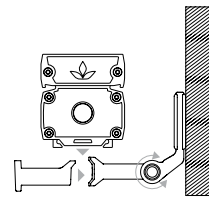
Standard Mounting Bracket

Reversible Mounting Bracket

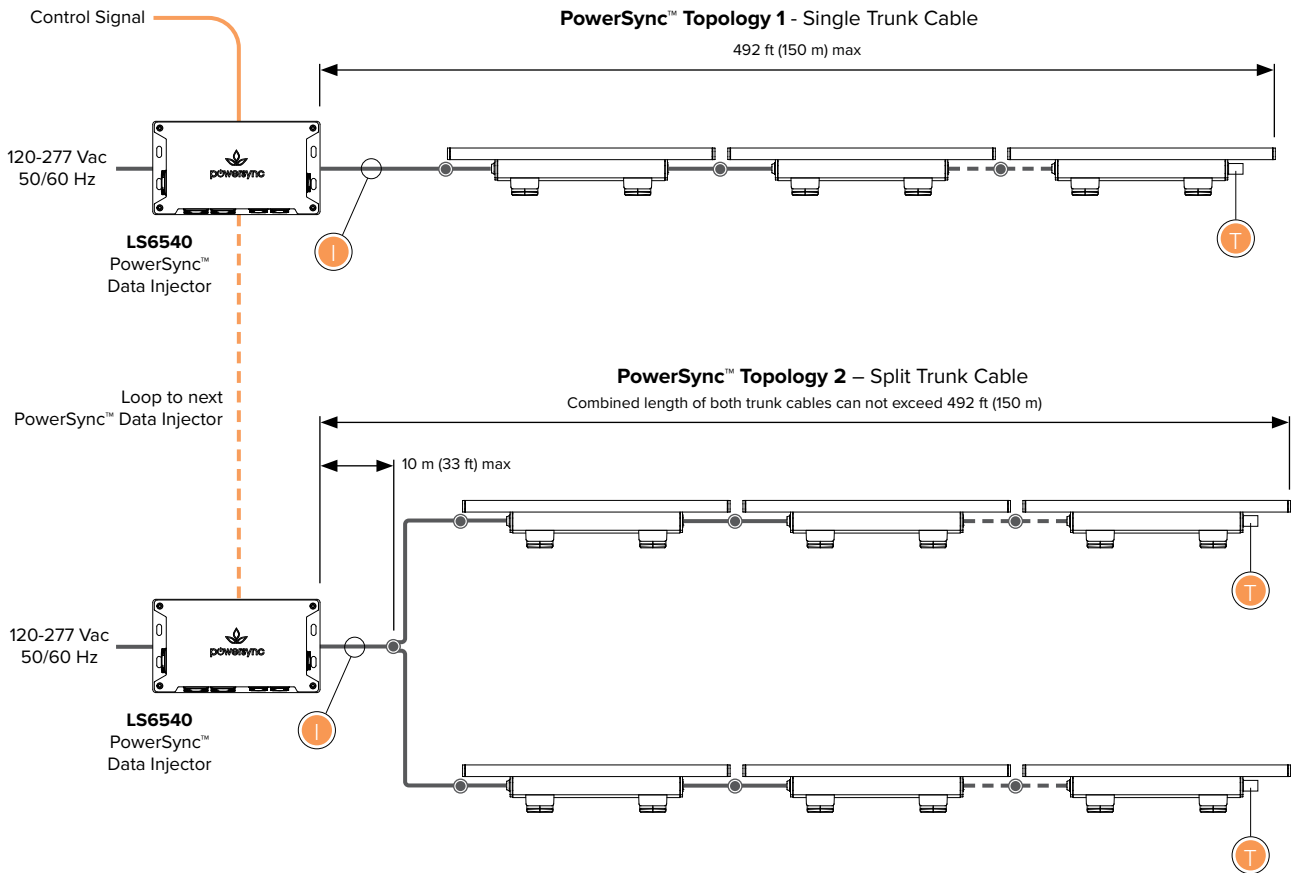
Comes with an adjustable and reversible constant torque mounting bracket. This allows for the luminaire to be mounted to virtually any position. A wide variety of mounting accessories are also available for the Linealux L5 series.

Vertical Mounting

Horizontal Mounting



Network Topology – Dimmable and Color-Changing via PowerSync4™



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.

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

I 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)

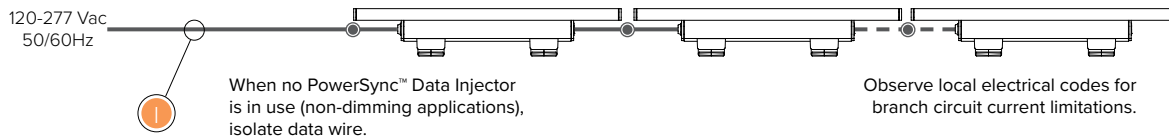
● Connection Type
Circuits can be configured as either connectorized or hardwired. For details refer to installation instructions and comply with local electrical codes.

Maximum Circuit Load

Maximum Number of Fixtures per Circuit		120 V		240 V		277 V	
Luminaire Length	LED Power	Maximum Current					
		12.8 A	16 A	12.8 A	16 A	12.8 A	16 A
1 ft (322 mm)	15 W/ft	45	45	45	45	45	45
	22 W/ft	41	45	45	45	45	45
2 ft (618 mm)	15 W/ft	40	45	45	45	45	45
	22 W/ft	28	38	45	45	45	45
3 ft (915 mm)	15 W/ft	26	35	45	45	45	45
	22 W/ft	19	25	38	45	44	45
4 ft (1,212 mm)	15 W/ft	20	26	40	45	45	45
	22 W/ft	14	19	28	38	33	44

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.

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.

1 Maximum Current
 Maximum current through cables and connectors supplied by Lumascope:
 ≤12.8 A – Installations in North American Market (UL, ETL)
 ≤16 A – Installations in International Market (CE, CCC)

Maximum Circuit Load

Maximum Number of Fixtures per Circuit		120 V		240 V		277 V	
Luminaire Length	LED Power	Maximum Current					
		12.8 A	16 A	12.8 A	16 A	12.8 A	16 A
1 ft (322 mm)	15 W/ft	45	45	45	45	45	45
	22 W/ft	41	45	45	45	45	45
2 ft (618 mm)	15 W/ft	40	45	45	45	45	45
	22 W/ft	28	38	45	45	45	45
3 ft (915 mm)	15 W/ft	26	35	45	45	45	45
	22 W/ft	19	25	38	45	44	45
4 ft (1,212 mm)	15 W/ft	20	26	40	45	45	45
	22 W/ft	14	19	28	38	33	44

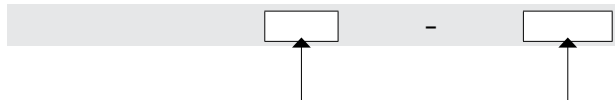
● Connection Type
 Circuits can be configured as either connectorized or hardwired. For details refer to installation instructions and comply with local electrical codes.

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. 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.

PowerSync™ Connectorized Accessories

Leader Cables – PowerSync™ Line Voltage (For Connection Type 73 or 77 Only)

4-core 1.5 mm² for use in CE/CCC installations. Compatible with all Luminaires with Type 73 or 77 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.



Cable Type	Code
1.5 mm ²	LS6402C
2.5 mm ²	LS6402C-2.5

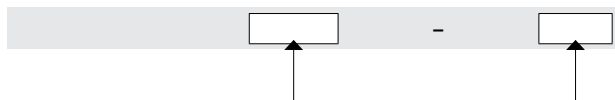
Length	Code
3 m / 10 ft	010
10 m / 33 ft	032
15 m / 50 ft	050

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

Leader Cables – PowerSync™ Line Voltage Hook-Up Wire (For Connection Type 73 or 77 Only)

4 conductors 14 AWG Hook-Up wires for use in UL installations. Compatible with Type 73 or 77 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
14 AWG 1.5 mm ²	LS6402U

Length	Code
10 ft / 3 m	010
16 ft / 5 m	016
50 ft / 15 m	050


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

PowerSync™ Connectorized Accessories

Jumper Cables – PowerSync™ Line Voltage (For Connection Type 73 or 77 Only)

4-core 1.5 mm² or 2.5 mm² cable for use in CE/CCC installations. Compatible with all Luminaires with Type 73 or 77 connectorized supply cable options. Supplied fitted with an IP68 connector for extending between luminaires in a Powersync4, Line Voltage circuit where the input and output cables on a luminaire are not sufficient for placement of the luminaires.

Not suitable for use in North America




Cable Type	Code	Length	Code
1.5 mm ²	LS6404C	0.3 m / 1 ft	001
2.5 mm ²	LS6404C-2.5	0.6 m / 2 ft	002
		1 m / 3 ft	003
		1.2 m / 4 ft	004
		2 m / 6 ft	006
		3 m / 10 ft	010
		5 m / 16 ft	016
		8 m / 26 ft	026
		10 m / 33 ft	032
		15 m / 50 ft	050

Jumper Cables – PowerSync™ Line Voltage (For Connection Type 73 or 77 Only)

4-core 16 WAG for use in UL installations. Compatible with all Luminaires with Type 73 or 77 connectorized supply cable options. Supplied fitted with an IP68 connector for extending between luminaires in a Powersync4, Line Voltage circuit where the input and output cables on a luminaire are not sufficient for placement of the luminaires.

For use in North America



Cable Type	Code	Length	Code
16 AWG	LS6404U	1 ft / 0.3 m	001
		2 ft / 0.6 m	002
		3 ft / 1 m	003
		4 ft / 1.2 m	004
		6 ft / 2 m	006
		10 ft / 3 m	010
		16 ft / 5 m	016
		26 ft / 8 m	026
		33 ft / 10 m	032
		50 ft / 15 m	050

PowerSync™ Connectorized Accessories

Terminator (Hardwired Installation)

Used in hardwired PowerSync™ installations.

Terminator	Code
DMX Terminator Hardwired (CCC, CE, UL)	LS6407
PowerSync™ Terminator Hardwired, Mains / Low Voltage (CCC, CE)	LS6406-01
PowerSync™ Terminator Hardwired, Mains / Low Voltage (UL)	LS6406-09
PowerSync™ Terminator Connectorized, Mains Voltage (CCC, CE, UL)	LS6417

Please Note:
Terminator ships with every LS6540. Order separately for spare parts only.

PowerSync™ 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.

Product	Code
Data Injector PS4	LS6540



PowerSync™ Y-Connectors

4 x 1.5mm² or 2.5mm² mains voltage Y-Connectos with Souriau plug for use in CE/CCC installations.

Not suitable for use in North America

Product	Code
1.5mm ²	LS6425C
2.5mm ²	LS6425C-2.5



Wire Colors & Designations

Mains Voltage – International Market

Designation	Color
Active	Brown
Neutral	Blue
Earth	Green / Yellow
Data	Black



Mains Voltage – North American Market

Designation	Color
Active	Black
Neutral	White
Earth	Green / Yellow
Data	Grey or Orange

