

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. 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

Lumen Output (Im)	Efficacy (Im/W)	
990	71	
1,080	77	
990	71	
1,080	77	
1,080	77	
300	22	
560	40	
150	11	
	990 1,080 990 1,080 1,080 300 560	990       71         1,080       77         990       71         1,080       77         1,080       77         300       22         560       40

<sup>&</sup>lt;sup>1</sup> Static white lumen output values are based on 4 W/ft, 4 ft luminaire with 30° x 80° lens.

Dynamic Color <sup>2</sup>	Lumen Output (lm)	Efficacy (lm/W)
RGBA	600	42
RGBW	650	46
RGBW with Royal Blue	610	44

 $<sup>^{2}</sup>$  Dynamic Color lumen output values are based on 4 W/ft, 4 ft luminaire with 30 $^{\circ}$  x 80 $^{\circ}$  lens.

Tunable White	Lumen Output (lm)	Efficacy (Im/W)
2,700 K - 6,500 K	990	71
Beam Angles	20° x 80°, 30° x 80°, 40° x 80°	













## 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	<b>CoolDrive</b> ™ onboard thermal monitoring and control

## Control

Interface	Lumascape <b>PowerSync</b> ™
Protocols <sup>1</sup>	DMX/RDM, Artnet, PWM <sup>2</sup> , 0-10 V (sink or source) <sup>2</sup>
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

<sup>1</sup> Some protocols require additional hardware. For more information and other available protocols contact Lumascape.

## **Physical**

Housing	Marine-grade extruded aluminum with tempered glass lens
Finish	Anodized aluminum or superior 9-step powder-coating process, including marine-grade epoxy undercoat and polyester top coat
Installation	Surface-mounted
Adjustable	Multi-positional
<b>Ambient Operating Temperature</b>	-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 <sup>2</sup> (509 cm <sup>2</sup> ) for 4 ft section

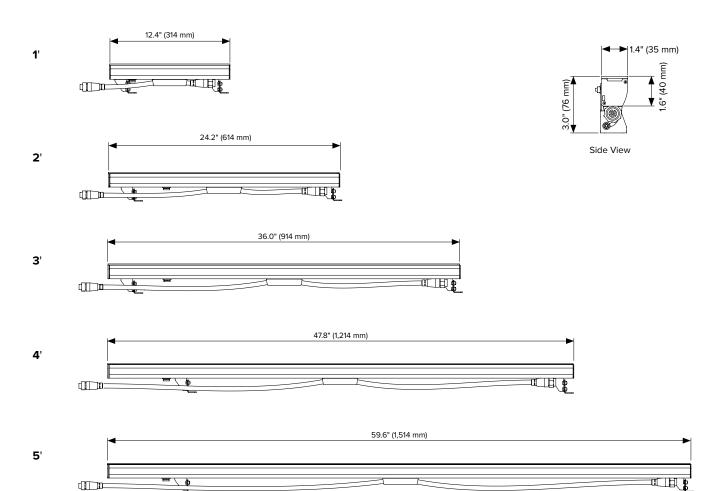
## Certification & Compliance

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			

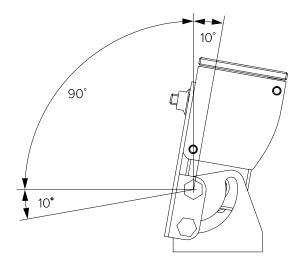


<sup>&</sup>lt;sup>2</sup> Not available for color-changing or tunable white.

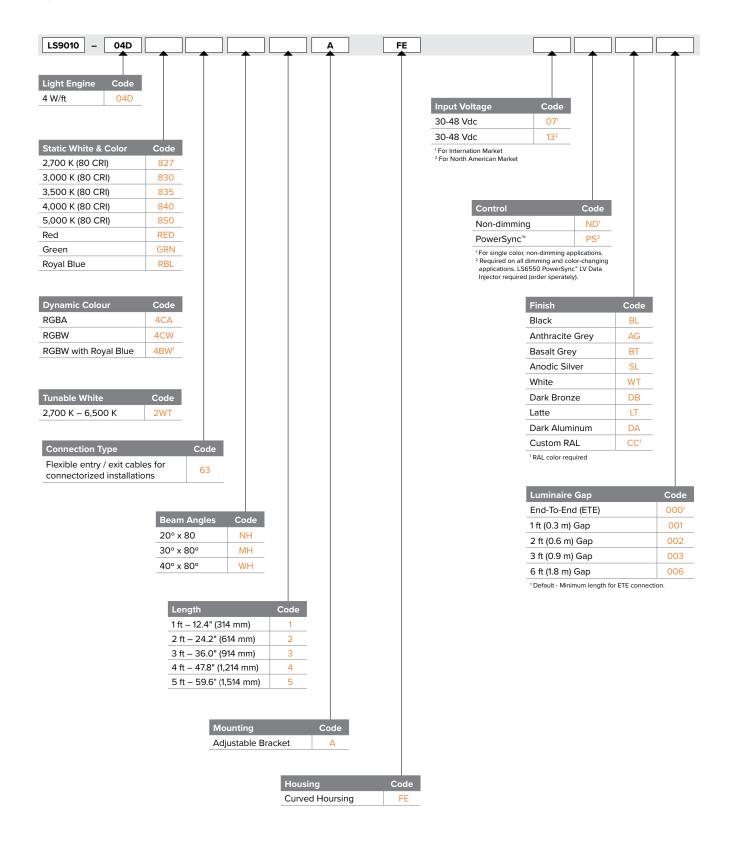
### **Dimensions**



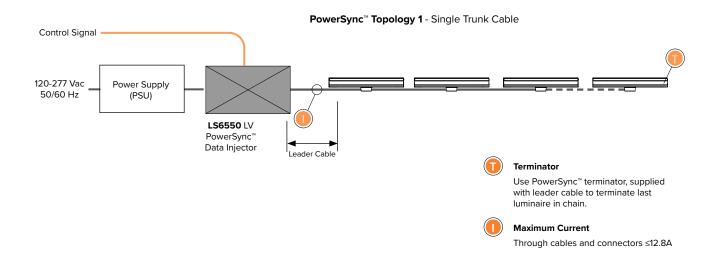
# **Luminaire Rotation**



### **Specification Matrix**



## **Network Topology** – Low Voltage PowerSync™



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

Maximum Circuit Loading - Single Run								
Max Leader Cable Length from			Feet of Linear luminaire per 48 V Power Supply					
LED Power	LS6550 to first fitting	120 W	240 W	320 W	480 W	600 W		
	15 m / 50 ft	20	44	56	80	96		
4 W/ft	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 48 V circuit.

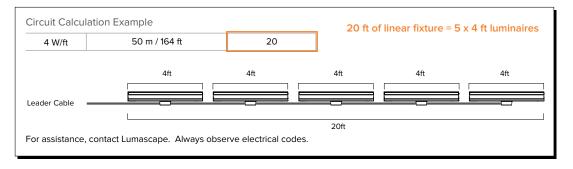
Values are based on end to end spacing (ETE). Extended fixture cables, inclusion of jumper cables, or longer leader cable will effect loading.

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.



### **Control Resolution**

						DMX Ch	annel All	ocation							
		RG	BA / RG	вw			Si	ngle Colo	our			Tu	nable Wh	nite	
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

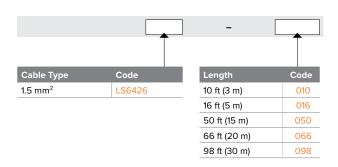
Variable Dimming Smoothness + Strobe Mode - requires 3 extra channels per luminaire



## PowerSync™ Connectorized Accessories

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

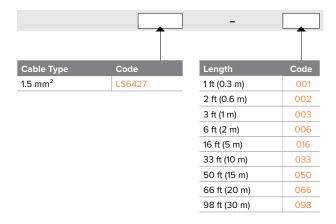
3-core 16 AWG / 1.5mm² for use in CE/CCC and UL installations. Compatible with all uminaires with Type 63 or 67 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync™4, Low Voltage circuit. Comes complete with a matching End of Circuit, Powersync™4, low voltage terminator plug.





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

3-core 16 AWG /  $1.5~{\rm mm}^2$  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 $^{\rm w}$ 4, low voltage circuit.



## PowerSync™ Connectorized Accessories

#### Terminator (Hardwired Installation)

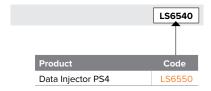
Used in hardwired PowerSync<sup>™</sup> installations.

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



### 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.





### Wire Colours & Designations

### Low Voltage

Designation	Colour	
Positive	Red	
Negative	Black	
Data	Orange	

