



The Terraluz TE5 is a high-output linear in-ground brings together the best technology in a simple yet stylish linear form factor with bezel-less edge-to-edge glass finish. With a ±15° tilt adjustment, the Terraluz TE5 is a versatile, high-performance luminaire. Packed with features including **EasyGlow™** visual comfort and **CoolDrive™** thermal management technologies. **PowerSync™** suits both highly granular DMX/RDM control requirements and standard white light dimming via common protocols. Fixtures can be installed end-to-end for continuous linear lighting. Available in white, color-changing and tunable white light engines.

Performance

Static White & Color <sup>1</sup>	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● 2,700 K (80 CRI)	6,830	78	291,400
● 3,000 K (80 CRI)	7,160	82	302,100
○ 3,500 K (80 CRI)	8,180	93	344,200
● 4,000 K (80 CRI)	7,780	88	323,900
● 5,000 K (70 CRI)	6,980	80	292,200

<sup>1</sup> Lumen output values are based on a 16 W/ft, 4 ft luminaire with 6° lens.

Dynamic Color <sup>2</sup>	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● RGBA	4,490	53	152,800
● RGBW with Royal Blue*	-	-	-

<sup>2</sup> Lumen output values are based on a 16 W/ft, 4 ft luminaire with 6° lens

Tunable White <sup>3</sup>	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● 2,700 K – 6,500 K	7,340	83	305,600

<sup>3</sup> Lumen output values are based on a 16 W/ft, 4 ft luminaire with 6° designer lens with all channels at 100%

Beam Angles	6°, 15°, 30°, 45°, 60°, 10° x 40°, 10° x 60°, 20° x 40°, 20° x 60°
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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 Lumascape for custom LED Colors.



Products and specifications are subject to change without notice. LS3150\_250331

**Electrical**

<b>LED Power</b>	12 W/ft, 16 W/ft
<b>Power Consumption</b>	19 W/ft, 22 W/ft
<b>Lifetime (L70)</b>	> 60,000 hrs (B10, L70, TM21)
<b>Input Voltage</b>	International 220-240 Vac, 50 Hz North America 120/277 Vac, 60 Hz
<b>Earth Leakage</b>	0.6 mA @ 220 V
<b>Thermal Management</b>	CoolDrive™ onboard thermal monitoring and control

**Control**

<b>Interface</b>	Lumascap <b>PowerSync™</b>
<b>Protocols<sup>1</sup></b>	DMX / RDM, Artnet, PWM <sup>2</sup> , 0 - 10 V (sink or source) <sup>2</sup>
<b>PWM Frequency</b>	2 kHz flicker-free dimming to 0.1%
<b>RDM Functionality</b>	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.
<b>Systems</b>	Range of third-party controllers

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

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

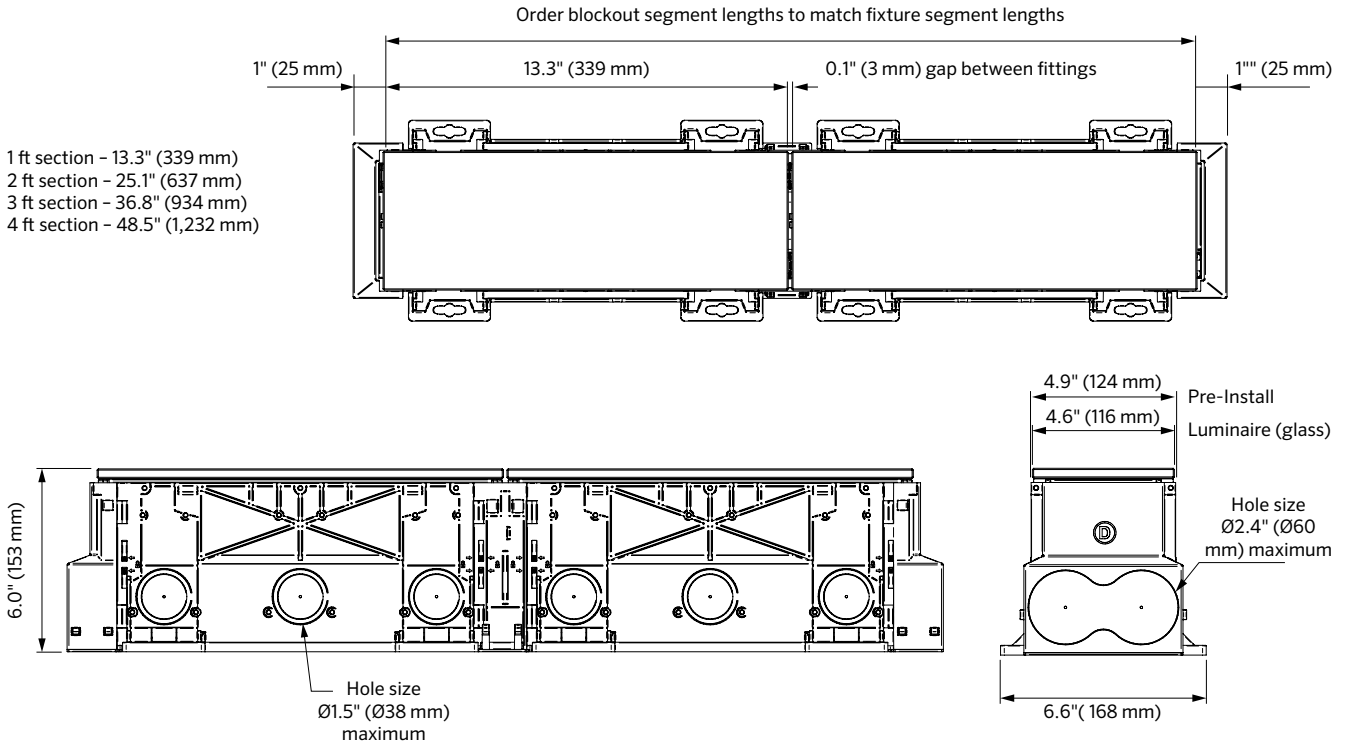
**Physical**

<b>Housing</b>	Marine-grade extruded aluminum, tempered glass
<b>Finish</b>	Superior 9-step powder-coating process, including marine-grade epoxy undercoat and polyester top coat
<b>Installation</b>	Pre-installation
<b>Adjustable</b>	± 15° tilt
<b>Ambient Operating Temperature</b>	-40 °F to 122 °F (-40 °C to 50 °C)
<b>Surface Temperature</b>	≤122 °F (50 °C)
<b>Weight</b>	14.8 lbs (6.7 kg) for 4 ft section

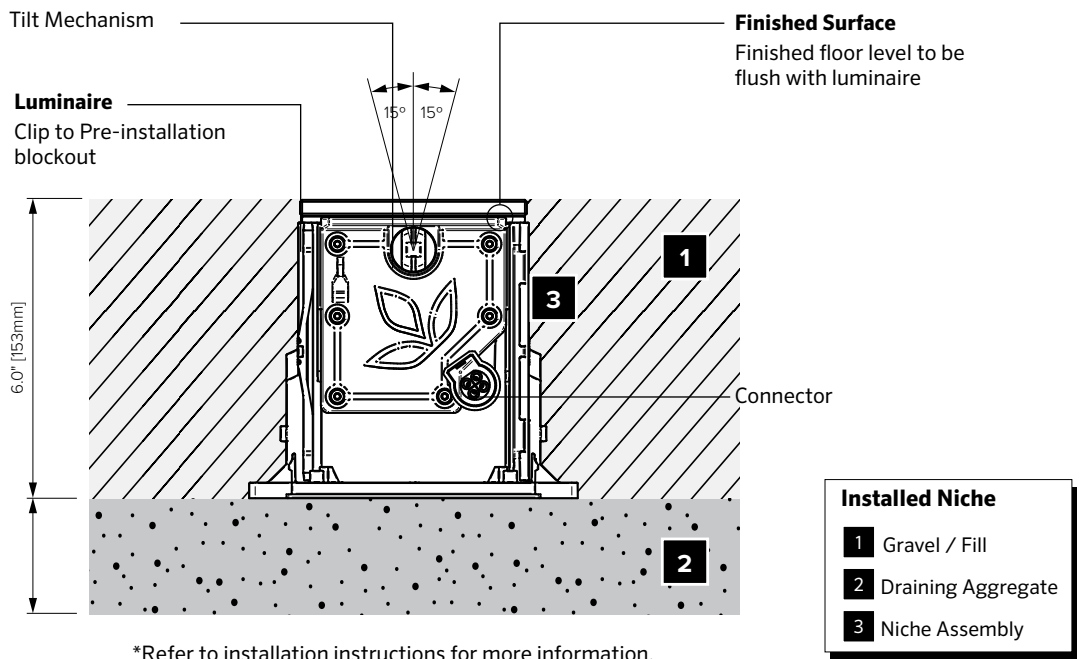
**Certification & Compliance**

<b>IP Rating</b>	IP66 / IP67 (Passes IP68 Tests)
<b>IK Rating</b>	IK9
<b>Environment</b>	Dry, Damp, Wet locations (not suitable for underwater applications)
<b>Certifications</b>	ETL, CE, RCM

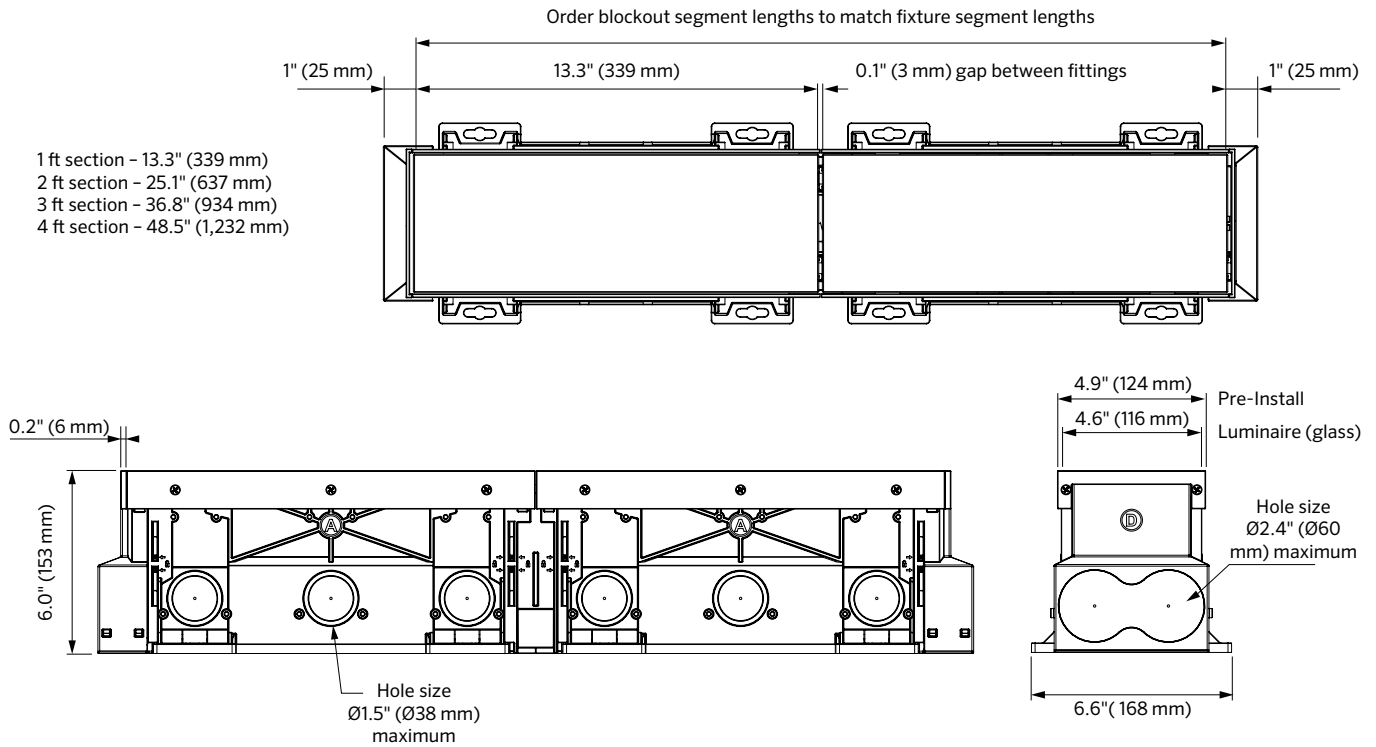
Dimensions (Without Stainless-Steel Trim)



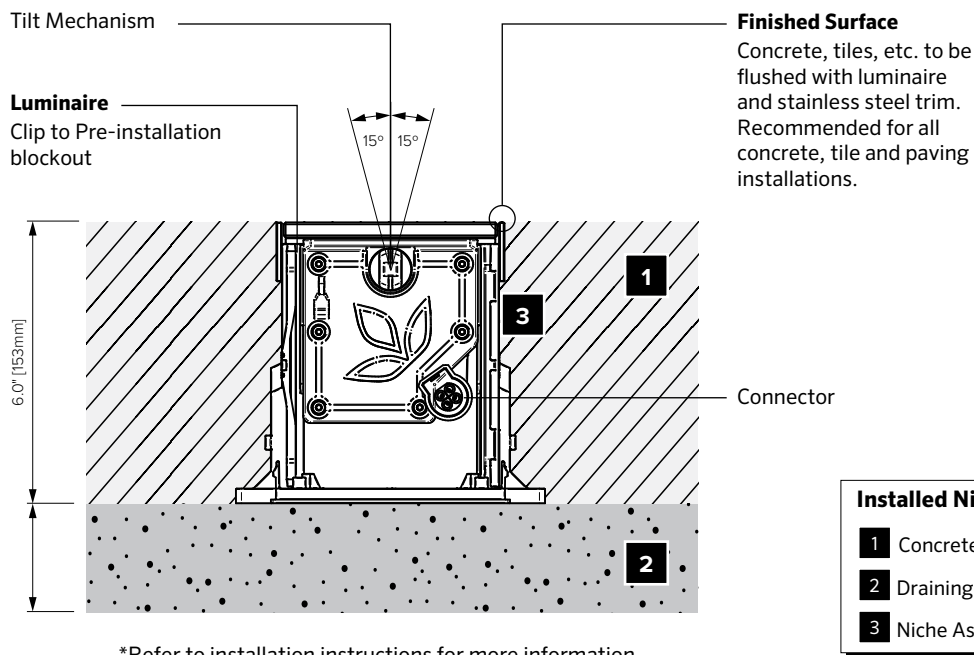
Luminaire Rotation



Dimensions (With Stainless-Steel Trim)

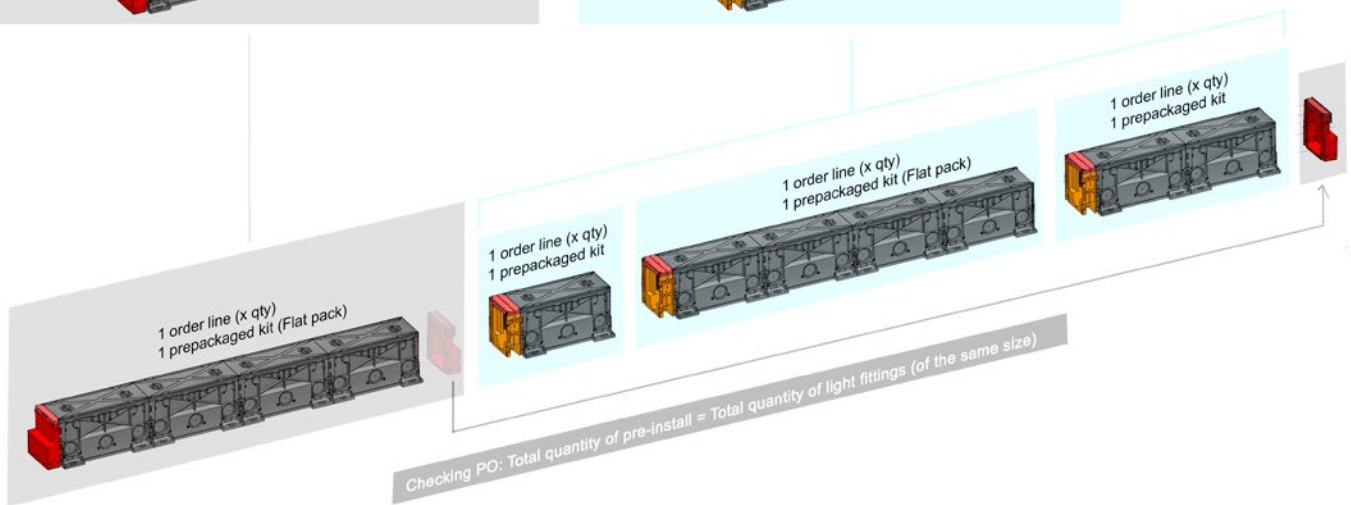
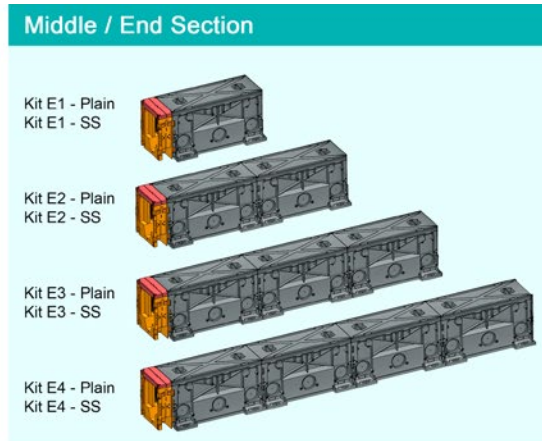
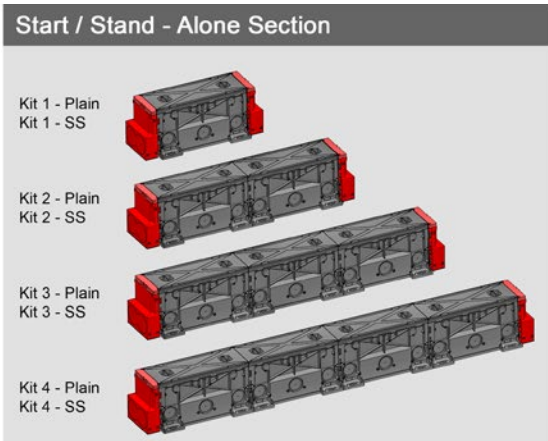


Luminaire Rotation



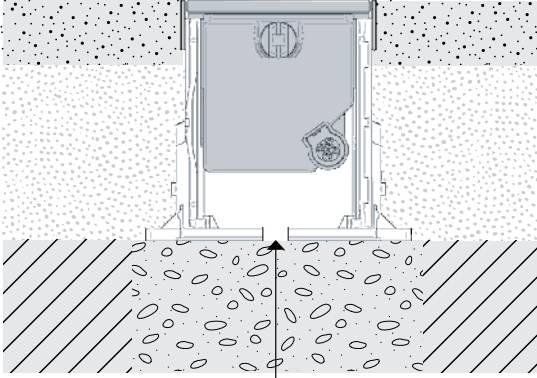


Component Overview



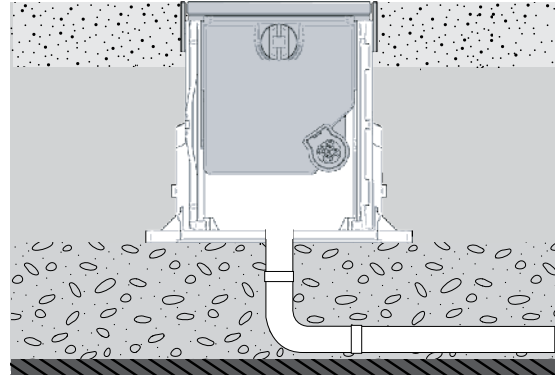
Drainage Requirements and Other Restrictions

**Paver/Stonework**



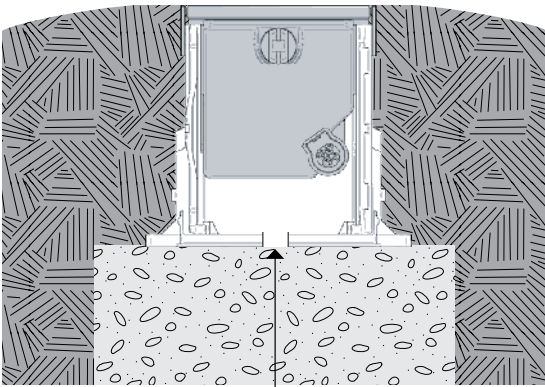
3/4" hole, minimum 1 per 4' (cut on site)

**Above Waterproofing**



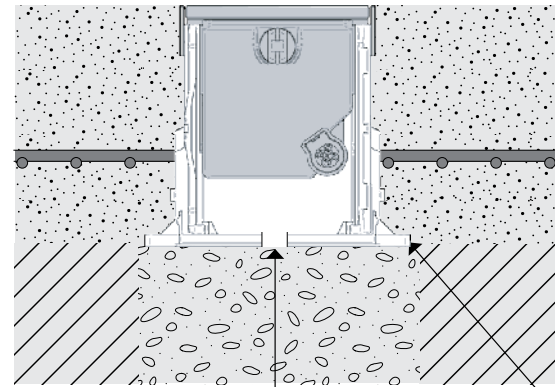
Piped draining required for locations not able to freely drain through gravel (above waterproofing, clay base, etc).

**Landscape/Softscape**



3/4" hole, minimum 1 per 4' (cut on site)

**Concrete**



3/4" hole, minimum 1 per 4' (cut on site)

Rebar Tie Points

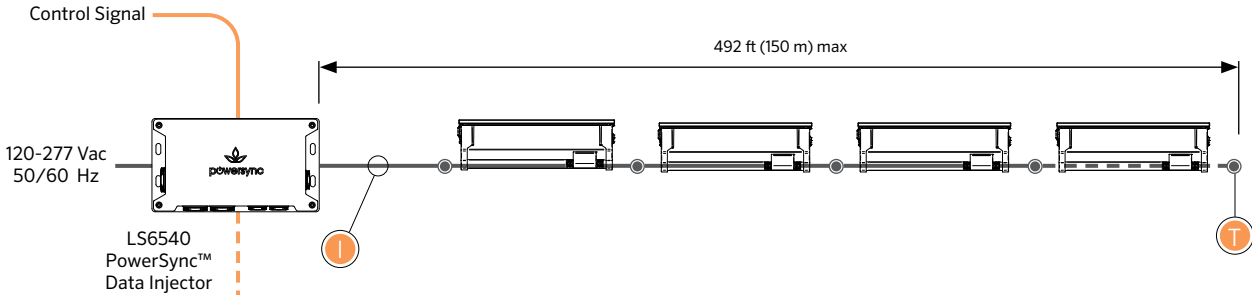
Key	
	Concrete Slab
	Pea / Drainage
	Poured Concrete
	Sand
	Soil / Earth
	Waterproofing Layer

**Important Information**

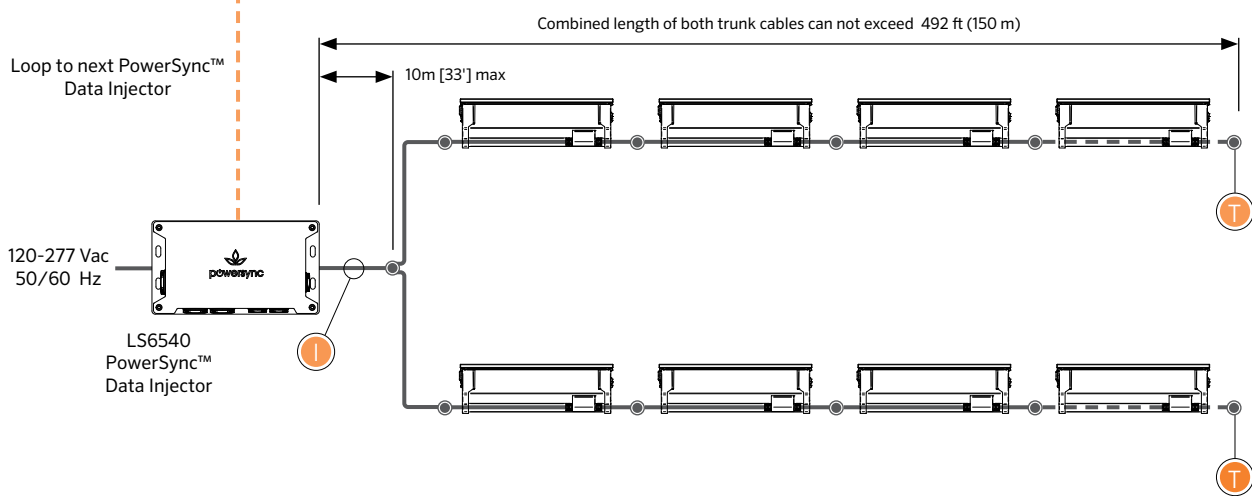
- Fill luminaire block-out with water to test drainage effects. Water must drain entirely.
- To prevent water accumulation, do not install at a location where site is hollow.
- Do not use fertilizer or corrosive chemicals adjacent to luminaire.
- Not suitable for drive-over.

Network Topology – Dimmable and Color-Changing via PowerSync™

PowerSync™ Topology 1 - Single Trunk Cable



PowerSync™ Topology 2 - Split Trunk Cable



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 mm<sup>2</sup>)
- 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.

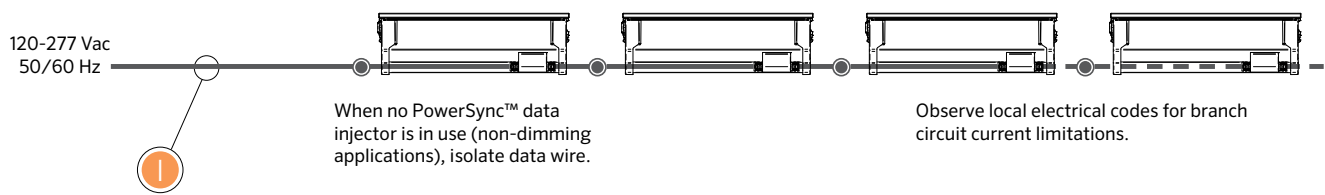
Maximum Circuit Load

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 (339 mm)	16 W	45	45	45	45	45	45
2 ft (637 mm)		25	32	45	45	45	45
3 ft (934 mm)		17	21	34	42	39	45
4 ft (1,232 mm)		12	16	25	32	29	36

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



#### 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 are configured as connectorized. For details refer to installation instructions and comply with local electrical codes.

#### Maximum Circuit Load

Maximum Number of Fixtures per Circuit							
Luminaire Length	LED Power	120 V		240 V		277 V	
		Maximum Current					
		12.8 A	16 A	12.8 A	16 A	12.8 A	16 A
1 ft (339 mm)	16 W	45	45	45	45	45	45
2 ft (637 mm)		32	40	45	45	45	45
3 ft (934 mm)		21	26	43	45	45	45
4 ft (1,232 mm)		16	20	32	40	37	45

All connectorized options in North America are limited to 12.8A branch circuit load. Cumulative earth leakage and voltage drop may need to be calculated. For non-continuous runs contact Lumascape for details. Local wiring rules and requirements may limit circuit loadings refer to relevant electrical parameters to calculate.

Connectorized Accessories

**Leader Cables - PowerSync™ Line Voltage**

4-core 1.5 mm<sup>2</sup> or 2.5mm<sup>2</sup> 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.

*Not suitable for use in North America*

		-				
		↑			↑	↑
Cable Type	Code	Cable Type	Code	Length	Code	
1.5 mm <sup>2</sup>	LS6402C	Non-Dimmable	ND	10' (3 m)	010	
2.5 mm <sup>2</sup>	LS6402C-2.5	PowerSync	PS	33' (10 m)	033	
				50' (15 m)	050	

**Leader Cables - PowerSync™ Line Voltage Hook-Up Wire**

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*

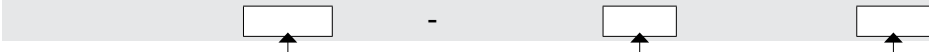
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		↑			↑	↑
Cable Type	Code	Cable Type	Code	Length	Code	
14 AWG 1.5 mm <sup>2</sup>	LS6435	Non-Dimmable	ND	6' (2 m)	006	
		PowerSync	PS	10' (3 m)	010	
				16' (5 m)	016	
				50' (15 m)	050	

Connectorized Accessories

**Jumper Cables - PowerSync™ Line Voltage**

4-core 1.5 mm<sup>2</sup> or 2.5 mm<sup>2</sup> 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 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.

*Not suitable for use in North America*

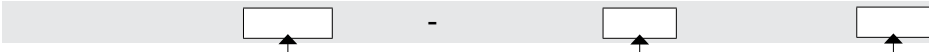


Cable Type	Code	Cable Type	Code	Length	Code
1.5 mm <sup>2</sup>	LS6404C	Non-Dimmable	ND	1' (0.3 m)	001
2.5 mm <sup>2</sup>	LS6404C-2.5	PowerSync	PS	2' (0.6 m)	002
				3' (1 m)	003
				4' (1.2 m)	004
				6' (2 m)	006
				10' (3 m)	010
				16' (5 m)	016
				26' (26 m)	026
				33' (10 m)	033
				50' (15 m)	050

**Jumper Cables - PowerSync™ Line Voltage (For Connection Type 77 Only)**

4-core 16 AWG 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 pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit.

*For use in North America ONLY*



Cable Type	Code	Cable Type	Code	Length	Code
16 AWG	LS6404U	Non-Dimmable	ND	1' (0.3 m)	001
		PowerSync	PS	2' (0.6 m)	002
				3' (1 m)	003
				4' (1.2 m)	004
				6' (2 m)	006
				10' (3 m)	010
				16' (5 m)	016
				26' (26 m)	026
				33' (10 m)	033
				50' (15 m)	050

Connectorized Accessories

**Terminator (Hardwired Installation)**

Used in hardwired PowerSync™ installations.

Terminator	Code
Terminator Hardwired, Mains / Low Voltage (CCC, CE)	LS6406-01
Terminator Hardwired, Mains / Low Voltage (UL)	LS6406-09

**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	Input Voltage	Code	Control	Code	Finish	Code
Data Injector PS4	LS6540	120-277 Vac, 50/60 Hz	09	DMX/RDM, 0-10 V Input	2D	Black	BL
						Anthracite Gray	AG
						Basalt Gray	BT
						Graphite Gray	GH
						Anodic Silver	SL
						White	WT
						Dark Bronze	DB
						Latte	LT
						Dark Aluminum	DA
						Custom RAL	CC <sup>1</sup>

Note:

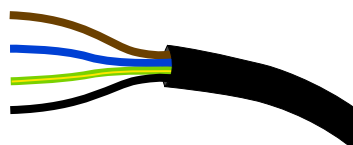
PowerSync Data Injector ships with three (3) hardwired terminators and one (1) hardwired DMX terminator.

<sup>1</sup>RAL color required

Fixture Colors & Wiring Designations

**Mains Voltage - International Market**

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



**Mains Voltage - North America**

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

