

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 adjusment, the Terraluz TE5 is a versatile, highperformance 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 endto-end for continuous linear lighting. Available in white, color-changing and tunable white light engines.

Performance

Static White & Color ¹	Lumen Output (Im)	Efficacy (Im/W)	Peak Intensity (cd)
2,700 K (80 CRI)	6,543	75	279,100
3,000 K (80 CRI)	7,167	82	302,100
3,500 K (80 CRI)	7,872	90	331,300
4,000 K (80 CRI)	7,785	88	323,951
5,000 K (70 CRI)	6,980	81	292,300
Red	2,096	_	_
Green	7,564	87	267,000
Blue	1,898	21	70,800

¹ Static white lumen output values are based on a 16 W/ft, 4 ft luminaire with 6° lens.

Dynamic Color ²	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
○ RGBA	4,498	53	152,900
RGBW	5,307	63	201,825
RGBW with Royal Blue	_	_	_

² Dynamic color lumen output values are based on a 16 W/ft, 4 ft luminaire with 6° lens.

Tunable White	Lumen Output (Im)	Efficacy (Im/W)	Peak Intensity (cd)
2,700 K – 6,500 K	6,904	78	287,300

³ Tunable white lumen output values based on 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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Electrical

LED Power	12 W/ft, 16 W/ft
Power Consumption	19 W/ft, 24 W/ft
Lifetime (L70)	>60,000 hrs (B10, L70, TM21)
Input Voltage	120-277 Vac, 50/60 Hz
Earth Leakage	0.6 mA @ 220 V
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 , Phase Dimming ²
PWM Frequency	2 kHz flicker-free dimming to 0.1%
Systems	Range of third-party controllers

¹ Some protocols require additional hardware. For more information and other available protocols contact Lumascape.

Physical

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

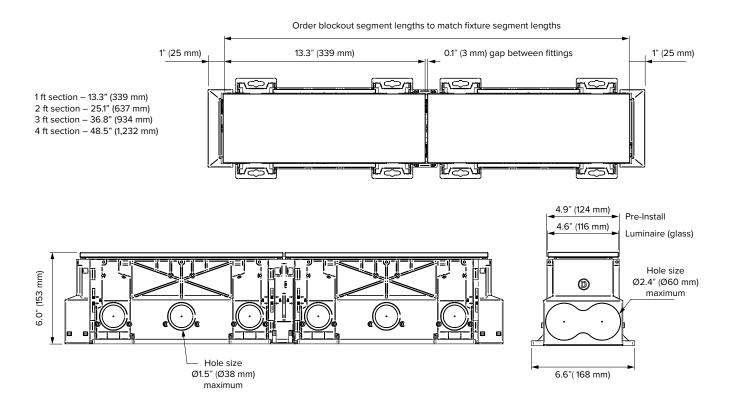
Certification & Compliance

IP Rating	IP66 / IP67 (IP68 tested)
IK Rating	IK9
Environment	Dry, Damp, Wet locations (not suitable for underwater applications)
Certifications	ETL, CE, CCC

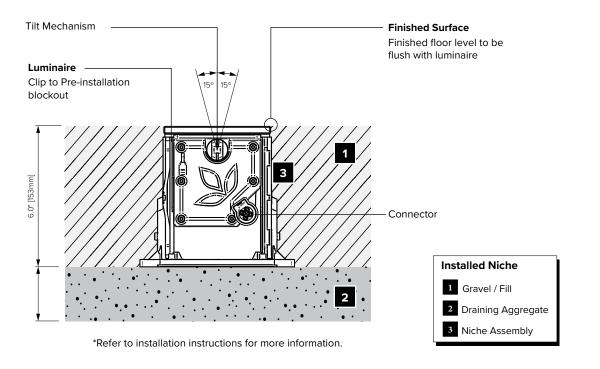


² Not available for color-changing or tunable white

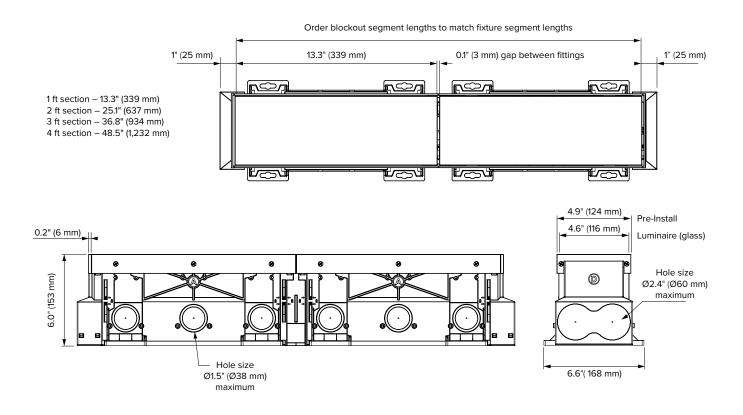
Dimensions – No Stainless Steel Trim



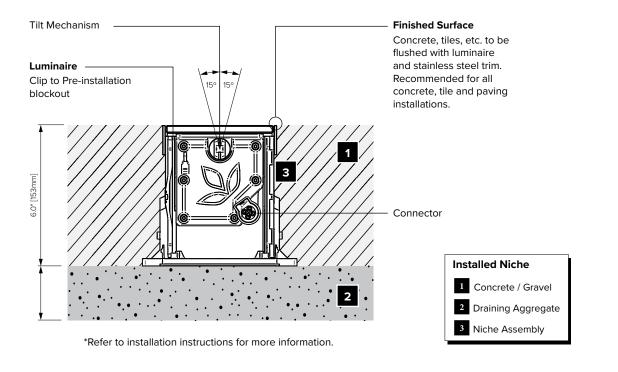
Installation



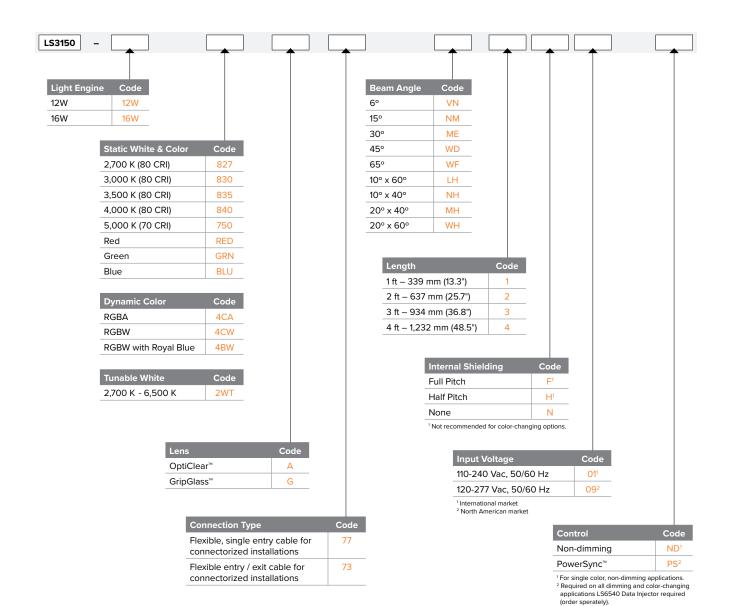
Dimensions – With Stainless Steel Trim



Installation



Specification Matrix



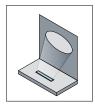
Internal Shielding Options





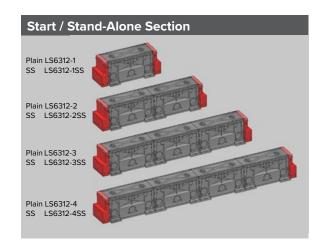
Full Pitch (F) Half Pitch (H)

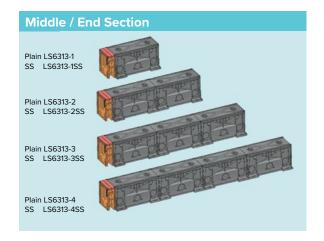
None (N)

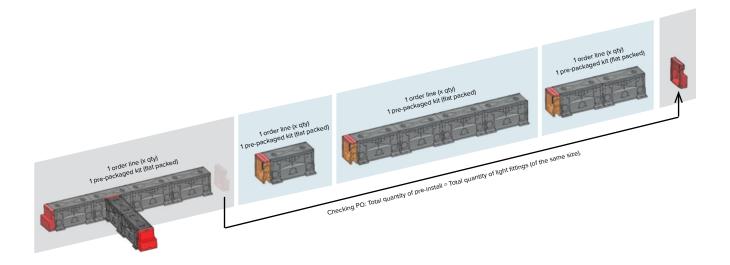


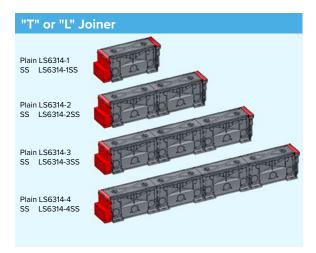
Beam Orientation for the "LH" and "MH" optical system

Component Overview





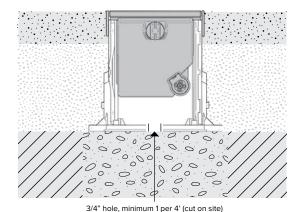




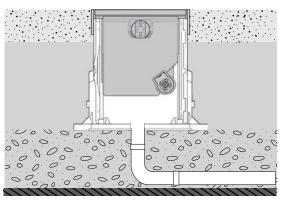
Use a 'T' or 'L' joiner kit to run a second run of luminaires perpendicular to the original run. Runs can be extended using a 'Middle / End Section' kit.

Drainage Requirements and Other Restrictions

Paver/Stonework

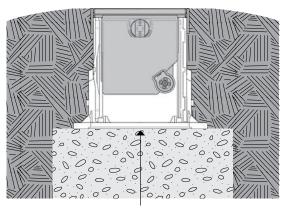


Above Waterproofing



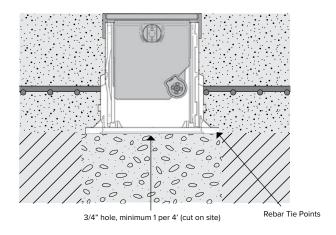
Piped draining required for locations not able to freely drain through gravel (above waterproofing, clay base, etc).

Landscape/Softscape



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

Concrete



Key





Poured Concrete
Sand

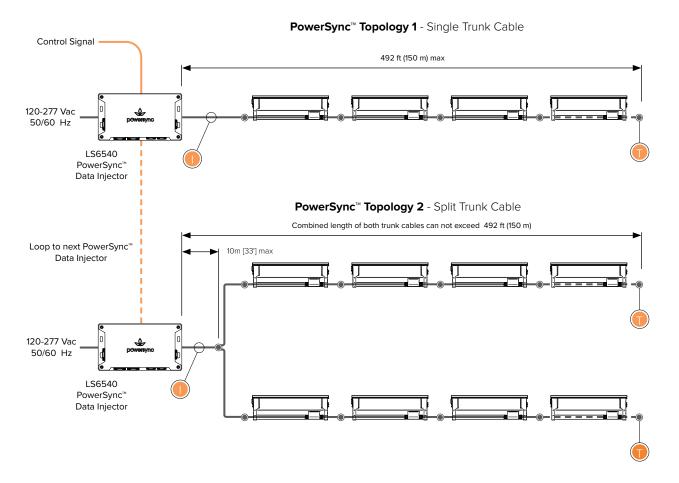
Soil / Earth

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™



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

Maximum Circuit Load

Maximum Number of Fi	xtures per Circu	iit					
		120	v	24	0 V	27	7 V
				Maximun	n Current	•	
Luminaire Length	LED Power	12.8 A	16 A	12.8 A	16 A	12.8 A	16 A
1 ft (339 mm)		45	45	45	45	45	45
2 ft (637 mm)	1C W	25	32	45	45	45	45
3 ft (934 mm)	16 W	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.



Terminator

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



Maximum Current

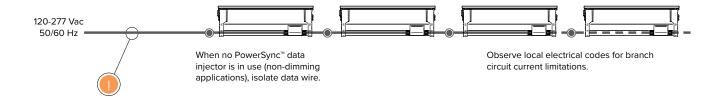
Maximum current through cables and connectors supplied by Lumascape: ≤12.8 A – Installations in North American Market (UL, ETL) ≤16 A – Installations in International Market (CE, CCC)



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



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 Circuit Load

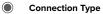
Maximum Number of Fix	ctures per Circu	iit					
		120	v	24	0 V	27	7 V
				Maximun	n Current		
Luminaire Length	LED Power	12.8 A	16 A	12.8 A	16 A	12.8 A	16 A
1 ft (339 mm)		45	45	45	45	45	45
2 ft (637 mm)	46 144	32	40	45	45	45	45
3 ft (934 mm)	16 W	21	26	43	45	45	45
4 ft (1,232 mm)		16	20	32	40	37	45

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.



Maximum Current

Maximum current through cables and connectors supplied by Lumascape: \leq 12.8 A – Installations in North American Market (UL, ETL) \leq 16 A – Installations in International Market (CE, CCC)



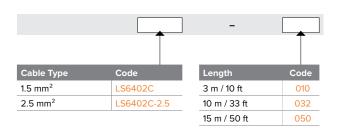
Circuits are configured as connectorized. For details refer to installation instructions and comply with local electrical codes.



PowerSync™ Connectorized Accessories

Leader Cables – PowerSync™ Line Voltage (For Connection Type 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 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.

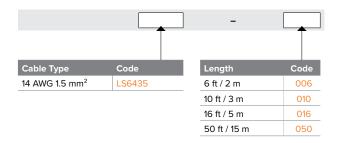




Leader Cables – PowerSync™ Line Voltage Hook-Up Wire (For Connection Type 73 or 77 Only)

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



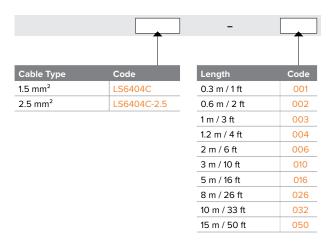


PowerSync™ Connectorized Accessories

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.

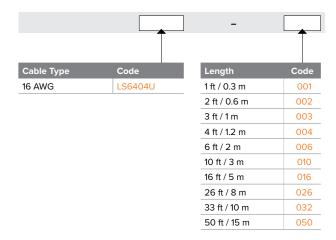
Not suitable for use in North America



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 luminaire in a Powersync4, Line Voltage circuit where the input and output cables on a luminaire are not sufficient for placement of the luminaires.

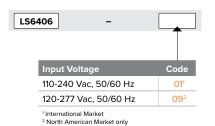
For use in North America

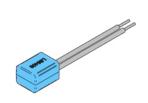


PowerSync™ Connectorized Accessories

Terminator (Hardwired Installation)

Used in hardwired PowerSync[™] installations.







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





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