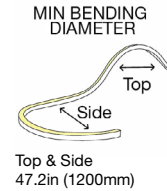
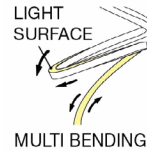
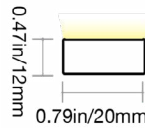


LUMIFORM ORBIT LS: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



PROFILE CAPABILITIES



CERTIFICATIONS & FEATURES*



TEMPERATURES

AMBIENT OPERATING TEMPERATURE:
-40°F to 131°F (-40°C to 55°C)

AMBIENT INSTALLATION TEMPERATURE:
≥ 40°F (-40°C)

FIXTURE STORAGE TEMPERATURE:
-40°F to 140°F (-40°C to 60°C)

MAX MOUNTING SURFACE TEMPERATURE:
185°F (85°C)

HUMIDITY (NON-CONDENSING):
0-95%

THERMAL MANAGEMENT:
Free Air Convection

FIXTURE ORDER CODE

E		A				B		
INPUT CONNECTORS	SERIES	MATERIAL	PROFILE	BENDING	JACKET/BASE + LENS COLOR	LED FUNCTION	LED COLOR	CHIP + CRI
See Page 4 to to select input connector	I = Lumiform SS	1 = Silicone	M = OrbitLS	3 - Multi	W = White + Diffused	1 = Static	B = Blue C = Green E = Red G = 2100K L = 3000K N = 4000K P = 5000K	9 = Pro LED Chip Blue Green Red 0 = Pro LED Chip + CRI80 2100K 3000K 4000K 5000K

C		D	E		F
POWER	VOLTAGE + CIRCUIT TYPE**	ORDER UNIT LENGTH	OUTPUT CONNECTOR	MOUNTING PROFILE	POWER SUPPLIES & CONTROLS:
E = 2.74w/ft (9w/m) Blue Green Red G = 3.66W/ft (12W/m) 2100K 3000K 4000K 5000K	2C = 24V DC CR	G = 3.94in (100mm)	See Page 4 to select output connector	See Page 6 to select mounting profiles	By Others By GLLS

*Maximum IP and IK ratings achievable with appropriate accessories, and cable diameter: Silicone Static = 0.26in (6.5mm). **The Current Regulated (CR) Integrated Circuit extends max run length. Do not use a CC or CR power supply, as it may cause damage.

LUMIFORM ORBIT LS: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



A

MECHANICAL

ASSEMBLY

Fixtures are carefully assembled using high-quality components to ensure durability and performance. Each unit is built to meet strict specifications, with attention to electrical safety, thermal management, and optical alignment.

OVERALL & CUTTING LENGTHS

Fixtures feature defined overall lengths and specific cutting increments for easy customization. Cutting must be done at marked points to maintain proper function and consistent light output.

JACKET COLOR

The white jacket with diffused lens cover provides a clean, uniform appearance while softening light output for reduced glare. It enhances visual comfort and delivers smooth, even illumination ideal for architectural and display applications.

BENDING RADIUS

Do not bend smaller than allowed minimum bend diameter, or may cause damage to the light & void warranty.

OPERATION

LIGHT ENGINE

Static Pulse Width Modulation (PWM) light engines deliver stable, flicker-free light at a fixed brightness. They offer consistent color and reliable performance for long-term applications.

ELECTRICAL

Designed to meet UL, CE, and RoHS standards, they feature overload, overvoltage, and short-circuit protection, along with low EMI and efficient thermal management for safe, reliable operation.

DIMMING

Dimming of 24V PWM fixtures is achieved via the driver or decoder used in the system. Depending on the selected driver/decoder, control options can include 0-10V, DMX, or DALI, enabling smooth, flicker-free dimming while maintaining consistent color and performance. Note: DMX and DALI are supported at the system level, not natively by the fixture.

WEIGHT RATING

Engineered to withstand loads up to 2.5 tons, making it ideal for high-traffic areas where vehicle pressure and heavy use are expected.

GENERAL

WARRANTY

Limited 10-Year Warranty against defects in materials and manufacturing. Coverage applies to properly installed and maintained products. Damage from misuse or improper installation is not covered. G.L.L.S. may repair, replace, or issue credit for eligible claims.

LUMEN MAINTENANCE

G.L.L.S. static lighting fixtures are tested to IES LM-84 and projected with IES TM-28 to ensure consistent lumen maintenance. Fixtures are designed to retain at least 70% of their initial brightness (L70) over a 10-year lifespan when properly installed and operated.

CERTIFICATION

Tested to UL2108 Class 2 by Underwriters Laboratory for use in the USA and Canada. Exceeds ANSI C78.377A, CE, and RoHS standards. Must be used under Class 2 ratings to maintain certification.

UL Certificate #: E347880

Report Reference #: E347880-20130503

TESTING

OPTICAL TESTING

TEST	RESULTS
Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, Wavelength)
Photometric Distribution	IES LM 79
Lumen Maintenance & Lifetime	IES LM 84 & IES TM28

TEMPERATURE TESTING

TEST	RESULTS
Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21

ENVIRONMENTAL TESTING

TEST	RESULTS
Salt Water Immersion	IEC60598-1, Saltinity 4%
Salt Spray Test	IEC6008-2-11, ISO10289
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTM G 154, ISO 4892-3, UVA @ 340nm & 55
IPX8	EN 60598-1: 2015+A1:2018 Clause 9.2.2 & 9.2.8
Temperature Shock	Manufacturer-defined, -40°C - 60°C (typical temperature range)
Constant Temperature	Manufacturer-defined
12mm Needle Flame Test (Silicone)	IEC60695-11-5
650 Glow-wire Test (Silicone)	IEC60695-2-10

DURABILITY TESTING

TEST	RESULTS
Bending Test	Manufacturer-defined, 500 cycles
Tensile Test	Manufacturer-defined, > The weight of light in max.
Twist Test	Manufacturer-defined, >200 cycles
Impact Protection Rating IK10	IEC62262, IEC60068-2-75
Trampling Simulation	Manufacturer-defined, >1825 times
Resistance to Static Load	IEC60598-2-13
Resistance to Shear Load	IEC60598-2-13
Resistance to Torque Load	IEC60598-2-13



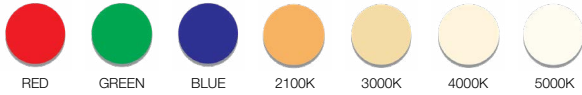
LUMIFORM ORBIT LS: SILICONE - 24V

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B

LED COLORS



FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS

COLOR	LED COUNT	1 CONNECTOR FULL/DYNAMIC*	2 CONNECTORS FULL/DYNAMIC*	UL CLASS 2 MAX RUN**	FIXTURE COLOR TOLERANCE***	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
RED	21 LEDs/ft (70 LEDs/m)	32.8ft (10m) / N/A	32.8ft (10m) / N/A	35ft (11m)	N/A	618-624nm	N/A	N/A	>58lm/ft (190lm/m)	LF24L3012WEBLU24CC
GREEN	21 LEDs/ft (70 LEDs/m)	32.8ft (10m) / N/A	32.8ft (10m) / N/A	35ft (11m)	N/A	522-530nm	N/A	N/A	>134lm/ft (440lm/m)	LF24L3012WEGRE24CC
BLUE	21 LEDs/ft (70 LEDs/m)	32.8ft (10m) / N/A	32.8ft (10m) / N/A	35ft (11m)	N/A	468-474nm	N/A	N/A	>34lm/ft (110lm/m)	LF24L3012WERED24CC
2100K	21 LEDs/ft (70 LEDs/m)	32.8ft (10m) / N/A	32.8ft (10m) / N/A	26ft (8m)	N/A	2150±150K	N/A	N/A	>146lm/ft (480lm/m)	LF24L3012WE21K24CC
3000K	21 LEDs/ft (70 LEDs/m)	32.8ft (10m) / N/A	32.8ft (10m) / N/A	26ft (8m)	N/A	3050±300K	N/A	N/A	>152lm/ft (500lm/m)	LF24L3012WE30K24CC
4000K	21 LEDs/ft (70 LEDs/m)	32.8ft (10m) / N/A	32.8ft (10m) / N/A	26ft (8m)	N/A	3985±400K	N/A	N/A	>152lm/ft (500lm/m)	LF24L3012WE40K24CC
5000K	21 LEDs/ft (70 LEDs/m)	32.8ft (10m) / N/A	32.8ft (10m) / N/A	26ft (8m)	N/A	5000±450K	N/A	N/A	>152lm/ft (500lm/m)	LF24L3012WE50K24CC

*Run length is based on a static full load with voltage drop calculated using a 0.3 m (0.98 ft) cable with silicone seamless connectors, excluding connector length—refer to specifications for details. Due to production limits, max run length is 10m—even with double power feeds. **For UL Class 2 calculations, GLLS uses a maximum output of 96 W / 96 VA for 24 V circuits, unless otherwise confirmed by the listed driver. All runs are assumed to be single-feed from one Class 2 output. Dual-feeding from separate drivers does not qualify as Class 2 unless the run is electrically split into isolated sections.

***Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs.

C

POWER & VOLTAGE

COLOR	VOLTAGE + CIRCUIT TYPE*	POWER CONSUMPTION
RED	24V DC CR	2.74W/ft (9W/m)
GREEN		2.74W/ft (9W/m)
BLUE		2.74W/ft (9W/m)
2100K		3.66W/ft (12W/m)
3000K		3.66W/ft (12W/m)
4000K		3.66W/ft (12W/m)
5000K		3.66W/ft (12W/m)

*The Current Regulated (CR) Integrated Circuit extends max run length. Do not use a CC or CR power supply, as it may cause damage.



LUMIFORM ORBIT LS: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



D

CUTTING INSTRUCTIONS

COLOR	ORDER UNIT (CUTTING UNIT)
RED	3.94in (100mm)
GREEN	
BLUE	
2100K	
3000K	
4000K	
5000K	

E

COMPATIBLE CONNECTORS

INPUT - 01

PROFILE	BENDING	WIRING	INPUT CONNECTOR TYPE	INPUT ORIENTATION + TYPE	INPUT CABLE LENGTH (LEAD WIRE)
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OUTPUT - 02

PROFILE	BENDING	WIRING	OUTPUT CONNECTOR TYPE	OUTPUT ORIENTATION + TYPE	OUTPUT CABLE LENGTH (LEAD WIRE)
M = OrbitLS	3 = Multi	1 = 2 Wire (Static) 0 = N/A (End Cap)	2 = Silicone Seamless	B = Bottom Exit I = End Cap	0 = 0.84ft (0.26m) 8 = N/A

LEGACY CONNECTOR ORDER CODE

FA	24L	1	01	XX	SE	X	XX	XXX	X
PRODUCT TYPE	PROFILE	BENDING	LIGHT EMITTING	FUNCTIONALITY	CONNECTOR TYPE	FIXTURE END	EXIT TYPE	LENGTH	LENGTH
FA = Factory Accessories	24L = OrbitLS	1 = Multi	01 = 24L	2W = Static 0W = For End Cap	SE = Seamless	1 = Input Side 2 = Output Side 0 = Jumpers/T-feeds/Seamless Bottom/Seamless End	BO = Bottom EC = End Cap	25 = 0.84ft (26cm) 000 = For End Cap	P = For End Cap



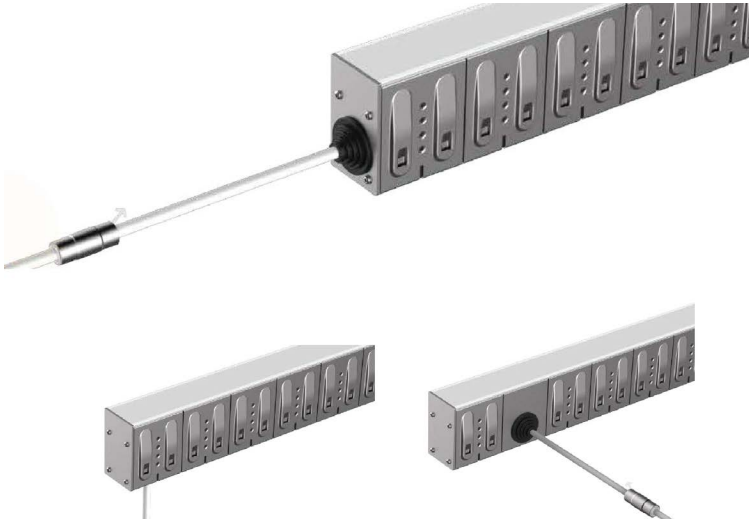
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E

SILICONE SEAMLESS CONNECTOR

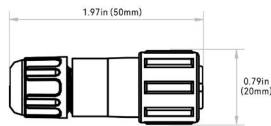


NOTES:

1. Connector Tolerance ± 0.02 in (0.5mm)
2. Cable diameter: Silicone Static = 0.26in (6.5mm);
3. Do not apply force to the feed cable
4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

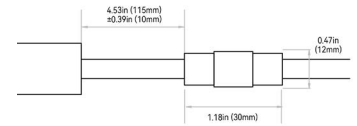
IP68; seamless; precise low profile dimension; high grade quality silicone & anti-wicking ferrule. Recommended for; wet environments; custom predetermined lengths; high/ low temperatures; increased humidity; direct UV exposure; harsh working conditions & increased handling forces during installation. Precision milling and special glue Silicone liquid injection-moulded workmanship enables an almost consistent size between connectors and light body, and the transparent terminal of the connector allows the seamless effects spliced end by end. DryWire technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in outdoor or any wet environments. Custom factory assembly.

SCREW LOCK CONNECTOR ACCESSORY - IP68 - MANDATORY



NOTE: The tolerance is ± 0.08 in (2mm).

ANTI-WICKING FERRULE:



NOTES:

1. The anti-wicking ferrule is located at 4.53in (115mm) (± 0.39 in [± 10 mm] tolerance) from the connector on the cable. For protection against water ingress.
2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.



LUMIFORM ORBIT LS: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



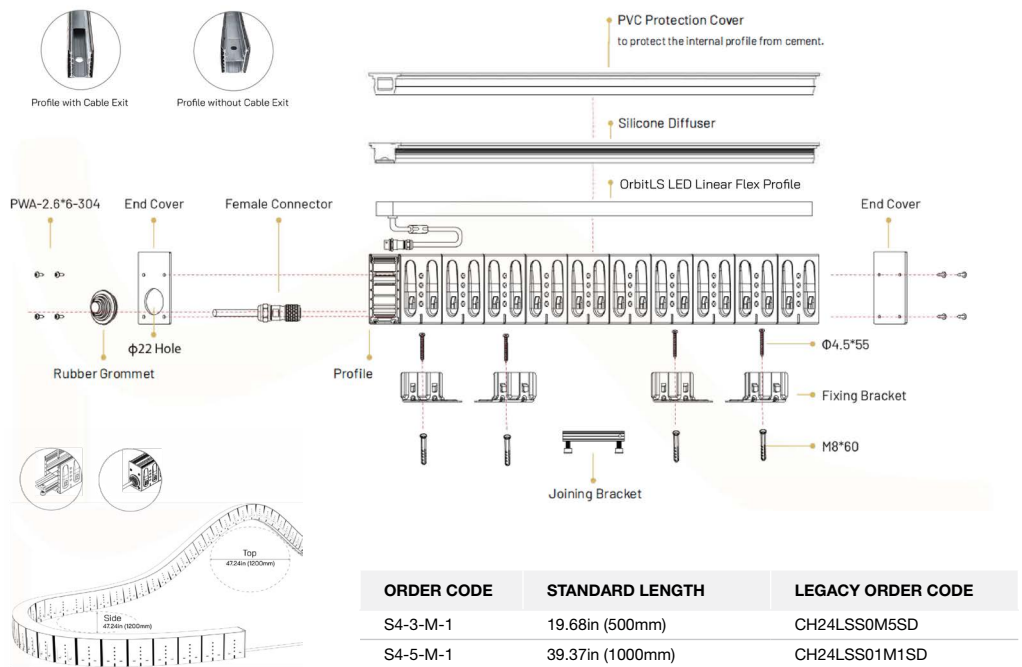
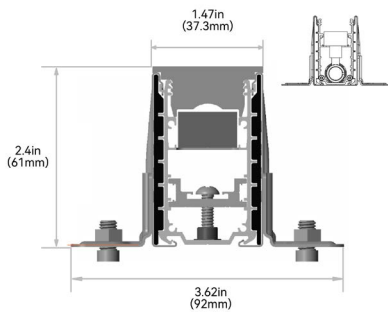
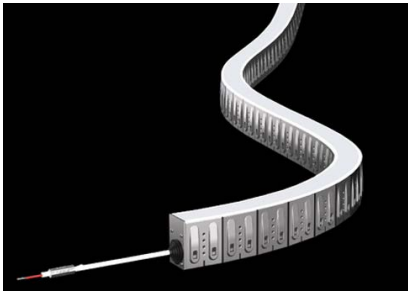
F

MOUNTING PROFILES

MOUNTING PROFILE TYPE	STANDARD LENGTH	PROFILE	COLOR	BEND
S4 = Stainless Steel In-Ground Flexible	3 = 19.68in (500mm) 5 = 39.37in (1000mm)	M = OrbitLS	1 = Standard	3 = Multi

STAINLESS STEEL PROFILE - FLEXIBLE - IN-GROUND

High-Quality Stainless Steel Multiflex Mounting Profile. Designed for versatility, this in-ground mounting profile features a continuous silicone diffuser on top, seamlessly housing a waterproof multiflex light. With a minimum bending diameter of 47.24in (1200mm) in both directions, it offers exceptional flexibility for creative installations. Breaking free from traditional concrete constraints, this profile unlocks new design possibilities, giving wings to your imagination. Please refer to install manual for proper installation practices.



ORDER CODE	STANDARD LENGTH	LEGACY ORDER CODE
S4-3-M-1	19.68in (500mm)	CH24LSS0M5SD
S4-5-M-1	39.37in (1000mm)	CH24LSS01M1SD

NOTE: Maximum run length of the silicone diffuser is 98.42ft (30m).



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GLLS reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance. REV. 20260604