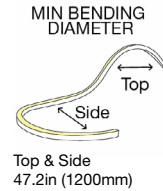
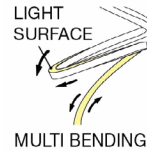
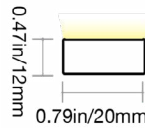


LUMIFORM ORBIT LS: SILICONE - 24V

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 | G | |
|---|--------------------------|--------------------|---------------------------------------|--|--|---|----------------------------|
| POWER | VOLTAGE + CIRCUIT TYPE** | ORDER UNIT LENGTH | OUTPUT CONNECTOR | | MOUNTING PROFILE | MOUNTING ACCESSORIES | 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 | See Page 7 to select mounting accessories | 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 |



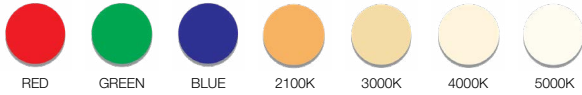
LUMIFORM ORBIT LS: SILICONE - 24V

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



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) |
|---------|---------|--------|----------------------|--------------------------|--------------------------------|
|---------|---------|--------|----------------------|--------------------------|--------------------------------|

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 |



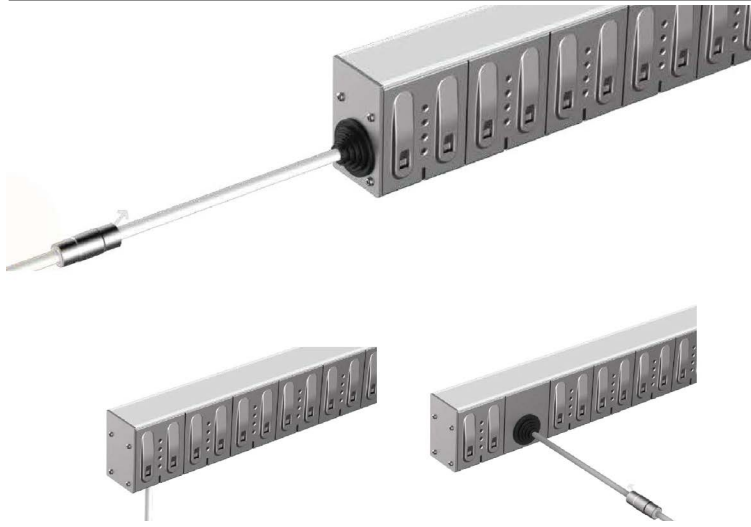
LUMIFORM ORBIT LS: SILICONE - 24V

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



E

SILICONE SEAMLESS CONNECTOR



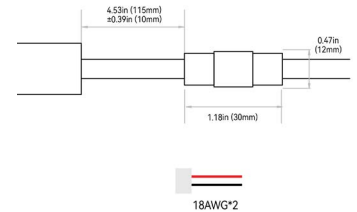
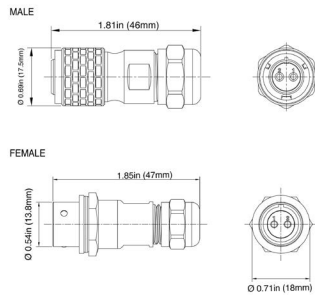
NOTES:

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.

METAL PUSH LOCK CONNECTOR ACCESSORY - IP68 - MANDATORY

ANTI-WICKING FERRULE:



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

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



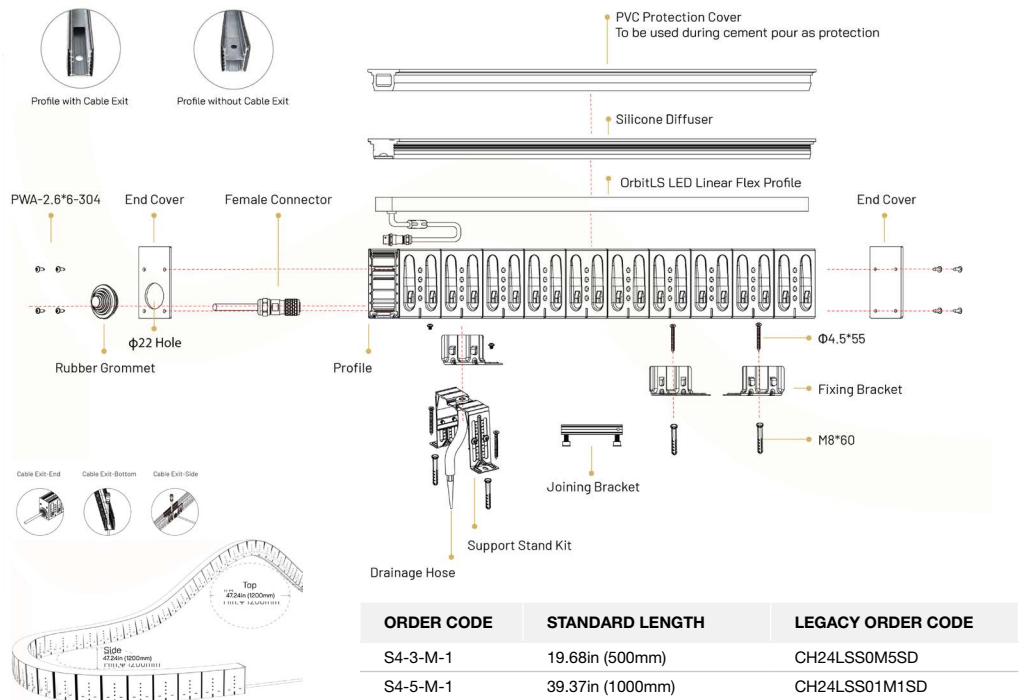
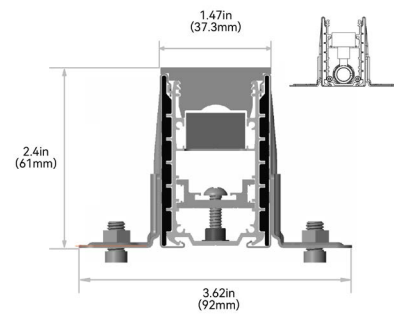
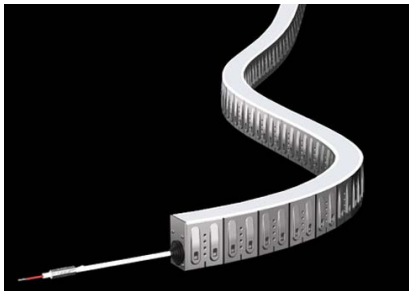
F

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).



GLLS.COM | 1-888-580-6366

GLLS reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance. REV. 20260611

VIVID WAVE MINI: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



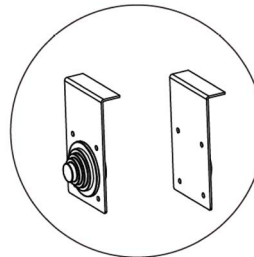
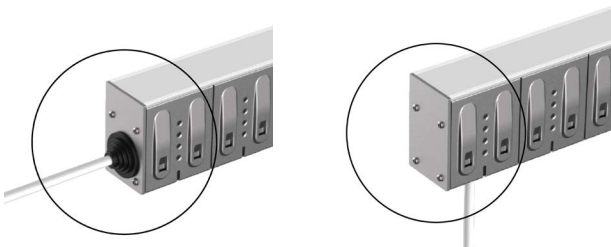
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MOUNTING ACCESSORIES

| MOUNTING ACCESSORY TYPE | PROFILE |
|--|-------------|
| MAE = Channel - End Cap with Cable Entry | M = OrbitLS |
| MAW = Channel - End Cap without Cable Entry | |
| MLE = Channel - L End Cap with Cable Entry | |
| MLW = Channel - L End Cap without Cable Entry | |
| MSC = Channel - Side Exit with Cable Entry | |
| MA8 = Alignment Bracket - Aluminum Silicone Grip | |
| MSD = Support Stand Kit | |
| MAB = In-Grade Mounting Bracket | |
| MAP = Channel - Protection - PVC | |
| MAC = Channel - Protection - Silicone | |

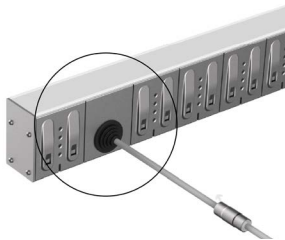
END CAP WITH CABLE ENTRY: MAEM | MA24LSSECE
 END CAP WITHOUT CABLE ENTRY: MAWM | MA24LSSECW

L END CAP WITH CABLE ENTRY: MLEM | MA24LSSECLE
 L END CAP WITHOUT CABLE ENTRY: MLWM | MA24LSSECLW



SIDE EXIT WITH CABLE ENTRY: MSCM | MA24LSSECSE

ALIGNMENT BRACKET: MA8M | CH24AL0M26JB



SUPPORT STAND KIT: MSDM | MA24LSSSDK

IN-GRADE - MOUNTING BRACKET: MABM | MA24LSSIGMB



VIVID WAVE MINI: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



G

PVC PROTECTION COVER: MAPM | CH24LPVCCIG

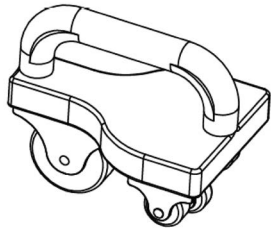


SILICONE DIFFUSER: MACM | CH24LSDIG



OPTIONAL MOUNTING TOOLS

IN-GRADE MOUNTING ROLLER: TOMOUN1



CUTTING TOOL: TOCUT4

