glls
COMPLEXITY, SIMPLIFIED.
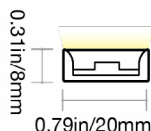
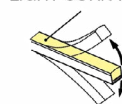# LUMIFORM LIGHTSTRIP XL: SILICONE - 24V
Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel - Stainless Steel Mounting
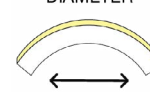
RoHS COMPLIANT | UL | CE

PROFILE CAPABILITIES

0.31in/8mm
0.79in/20mm

LIGHT SURFACE
TOP BENDING

MIN BENDING DIAMETER
3.94IN (100MM)

CERTIFICATIONS & FEATURES*

IP67 | IK10 | RDM DMX | DALI

24 DC | 10 YEAR WARRANTY | 8 or 10 TON WEIGHT RATED | FLAME UV SOLVENT SALT WATER RESISTANT

TEMPERATURES

AMBIENT OPERATING TEMPERATURE:
3.66W/ft (12W/m): -40°F to 131°F (-40°C to 55°C)
4.57W/ft (15W/m): -40°F to 113°F (-40°C to 45°C)

AMBIENT INSTALLATION TEMPERATURE:
-40°F to ~131°F (-40°C to ~55°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 5 to select input connector	I = LumiForm Stainless Steel	1 = Silicone	J = LightStrip XL	2 = Top	T = White + Transparent	7 = DMX-Pixel 8 = DMX-Pixel-RGBW	G = 2100K J = 2700K L = 3000K M = 3500K P = 5000K S = RGB 1 = 2100 ~5500K	1 = Epistar SMD LED Chip RGB 2 = Epistar SMD LED Chip + CRI80 Whites Tunable White RGBW

C		D	E	F	
POWER		**VOLTAGE + CIRCUIT TYPE****	**ORDER UNIT LENGTH**	**OUTPUT CONNECTOR**	**MOUNTING PROFILE**	**POWER SUPPLIES & CONTROLS:**
G = 3.66W/ft (12W/m) Whites Tunable White RGB	I = 4.57W/ft (15W/m) RGBW	2C = 24V DC CC	G = 3.94in (100mm) Whites Tunable White RGB I = 6.56in (166.7mm) RGBW	See Page 5 to select output connector	See Page 8 to select mounting profile	By Others By GLLS

*Maximum IP and IK ratings achievable with appropriate accessories, and cable diameter: silicone direct DMX = 0.27in (6.8mm). **The Constant Current (CC) Integrated Circuit extends max run length. Do not use a CC power supply, as it may cause damage.

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LUMIFORM LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel - Stainless Steel Mounting

COMPLEXITY, SIMPLIFIED.

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 silicone base with transparent lens cover provides a sleek look that reveals the internal LEDs, delivering crisp, vibrant light with maximum brightness and color accuracy—ideal for applications where LED visibility enhances visual impact.

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

OPERATION

LIGHT ENGINE
Direct DMX light engines receive DMX512 signals for precise, real-time control of brightness, color, and effects. Each unit is addressable, making them ideal for complex architectural or stage lighting setups.

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
Direct DMX 24V DC systems use DMX512 for smooth, flicker-free dimming with 8-bit or 16-bit resolution. They support standalone DMX controllers, DMX software, and networked systems like Art-Net or sACN for flexible lighting control.

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. GLLS may repair, replace, or issue credit for eligible claims.

LUMEN MAINTENANCE
GLLS 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 Referance #: E347880-20130508

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, Sailinity 4%
Salt Spray Test	IEC60068-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA @ 340nm & 55
IPX8	EN 60598-1: 2015+A1:2018 Clause 9.2.2 & 9.2.8
Temperature Shock(Silicone)	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
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK	IEC62262

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2
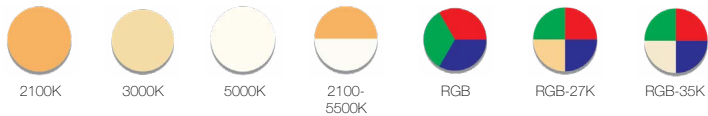
LUMIFORM LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel - Stainless Steel Mounting

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B

LED COLORS

2100K	3000K	5000K	2100-5500K	RGB	RGB-27K	RGB-35K

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC*	2 CONNECTORS FULL/DYNAMIC*	FIXTURE COLOR TOLERANCE**	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
2100K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	N/A	2150±150K	N/A	N/A	85lm/ft (280lm/m)	SS20IC125DE21K24DCG
3000K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	N/A	3050±300K	N/A	N/A	355lm/ft (108lm/m)	SS20IC125DE30K24DCG
5000K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	N/A	5000±450K	N/A	N/A	345lm/ft (105lm/m)	SS20IC125DE50K24DCG
2100K; 5500K; 2100-5500K	Epistar SMD LED Chip + CRI80	36 LEDs/ft (120 LEDs/m)	32.8ft (10m) / 49.2ft (15m)	65.6ft (20m) / 98.4ft (30m)	N/A	2150±150K; 5500±500K	N/A	N/A	52lm/ft (170lm/m); 55lm/ft (180lm/m)	SS20IC125DEDWH24DCG
R; G; B; R+G+B	Epistar SMD LED Chip	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	N/A	618-624nm; 522-528nm; 468-474nm; R+G+B	N/A	N/A	14lm/ft (45lm/m); 40lm/ft (130lm/m); 6lm/ft (20lm/m); 59lm/ft (195lm/m)	SS20IC125DERGB24DCG
R; G; B; 2700K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	26.2ft (8m) / 39.4ft (12m)	52.5ft (16m) / 78.7ft (24m)	N/A	618-624nm; 522-528nm; 468-474nm; 2750±250K	N/A	N/A	14lm/ft (45lm/m); 40lm/ft (130lm/m); 6lm/ft (20lm/m); 35lm/ft (115lm/m)	SS20IC155DER2724DCG
R; G; B; 3500K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	26.2ft (8m) / 39.4ft (12m)	52.5ft (16m) / 78.7ft (24m)	N/A	618-624nm; 522-528nm; 468-474nm; 3550±350K	N/A	N/A	14lm/ft (45lm/m); 40lm/ft (130lm/m); 6lm/ft (20lm/m); 35lm/ft (115lm/m)	SS20IC155DER3524DCG

*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 fragility, five-wire fixtures are not recommended to exceed 16.4ft (5m). ***Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs.

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LUMIFORM LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated | Linear Flex Profile - Direct DMX-Pixel - Stainless Steel Mounting

C

POWER & VOLTAGE

COLOR	VOLTAGE + CIRCUIT TYPE*	POWER CONSUMPTION
2100K		3.66W/ft (12W/m)
3000K		3.66W/ft (12W/m)
5000K		3.66W/ft (12W/m)
2100-5500K	24V DC CC	4.57W/ft (15W/m)
RGB		3.66W/ft (12W/m)
RGBW-27K		4.57W/ft (15W/m)
RGBW-35K		4.57W/ft (15W/m)

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

D

CUTTING INSTRUCTIONS

COLOR	ORDER UNIT (CUTTING UNIT)
2100K	3.94in (100mm)
3000K	3.94in (100mm)
5000K	3.94in (100mm)
2100-5500K	3.94in (100mm)
RGB	3.94in (100mm)
RGBW-27K	6.56in (166.7mm)
RGBW-35K	6.56in (166.7mm)

LUMIFORM LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel - Stainless Steel Mounting

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E

COMPATIBLE CONNECTORS

INPUT - 01

INPUT CONNECTOR TYPE	INPUT ORIENTATION + TYPE	INPUT CABLE LENGTH (LEAD WIRE)

OUTPUT - 02

OUTPUT CONNECTOR TYPE	OUTPUT ORIENTATION + TYPE	OUTPUT CABLE LENGTH (LEAD WIRE)
2 = Silicone Seamless	A = End Exit B = Bottom Exit C = Side Left Exit D = Side Right Exit E = End Jumper H = Power T-Feed I = End Cap	1 = 0.98ft (0.3m) 2 = 3.28ft (1m) 3 = 9.84ft (3m) 4 = 16ft (5m) 5 = 32.81ft (10m) 6 = 49.21ft (15m) 7 = 65.62ft (20m) 8 = N/A

LEGACY CONNECTOR ORDER CODE

SS	20I	1	00	XX	SE	X	XX	XXX	X
PRODUCT TYPE	PROFILE	BENDING	LIGHT EMITTING	FUNCTIONALITY	CONNECTOR TYPE	FIXTURE END	EXIT TYPE	LENGTH	
SS = Factory Accessories	20I = LightStrip XL	1 = Top	00 = 20I	2W = Static 3W = Tunable White 4W = RGB 5W = RGBW 5D = DMX-Pixel 0W = For End Cap	SE = Seamless	1 = Input Side 2 = Output Side 0 = Jumpers/T-feeds/ Seamless Bottom/ Seamless End 3 = Input/Output	EN = End BO = Bottom SL = Side Left SR = Side Right EJ = End Jumper BJ = Bottom Jumper TF = Power Feed EC = End Cap	0M3 = 0.98ft (30cm) 01M = 3.28ft (1m) 03M = 9.84ft (3m) 05M = 16ft (5m) 10M = 32.81ft (10m) 000 = For End Cap	P = Power or For End Cap S = Signal & Power

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LUMIFORM LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel - Stainless Steel Mounting

COMPLEXITY, SIMPLIFIED.

SILICONE SEAMLESS CONNECTOR

18AWG*2 — STATIC PWM
18AWG*3 — TUNABLE WHITE PWM
22AWG*3 / 20AWG*1 — RGB PWM
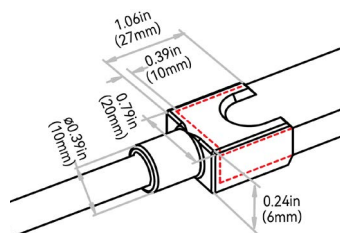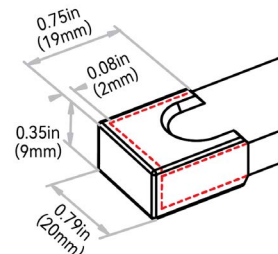22AWG*4 / 20AWG*1 — RGBW PWM
22AWG*3 / 20AWG*2 — DIRECT DMX-Pixel

NOTES:
1. Connector Tolerance ±0.02in (0.5mm)
2. Cable diameter: Static, Tunable White, RGB & RGBW Silicone = 0.26in (6.5mm) & Direct DMX Silicone = 0.27in (6.8mm)
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 lightbody, 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.
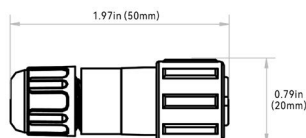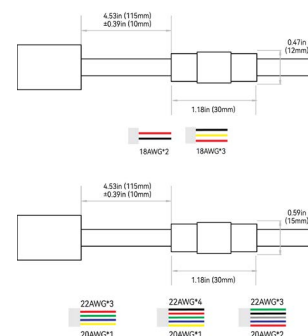
END EXIT: 2-A-#

1.06in (27mm)
0.39in (10mm)
0.79in (20mm)
ø0.39in (10mm)
0.24in (6mm)

END CAP: 2-I-8

0.75in (19mm)
0.08in (2mm)
0.35in (9mm)
0.79in (20mm)

SCREW LOCK CONNECTOR ACCESSORY - IP67

1.97in (50mm)
0.79in (20mm)

NOTE: The tolerance is ±0.08in (2mm).

ANTI-WICKING FERRULE:

4.53in (115mm) ±0.39in (10mm)
0.47in (12mm)
1.18in (30mm)
18AWG*2 / 18AWG*3

4.53in (115mm) ±0.39in (10mm)
0.59in (15mm)
1.18in (30mm)
22AWG*3 / 20AWG*1 — 22AWG*4 / 20AWG*1 — 22AWG*3 / 20AWG*2

NOTES:
1. The anti-wicking ferrule is located at 4.53in (115mm) (±0.39in [±10mm] 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 ingression caused by it.

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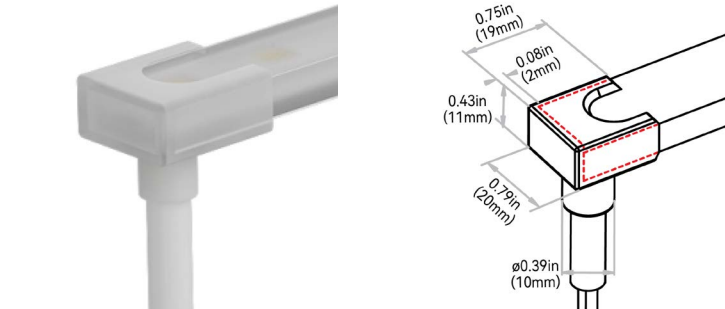
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LUMIFORM LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel - Stainless Steel Mounting
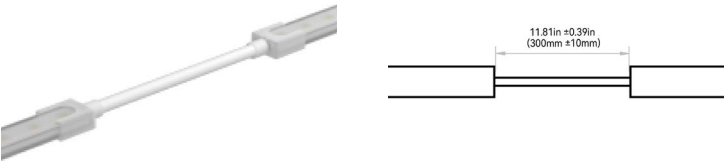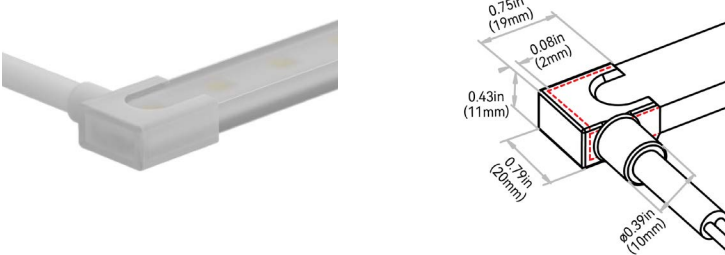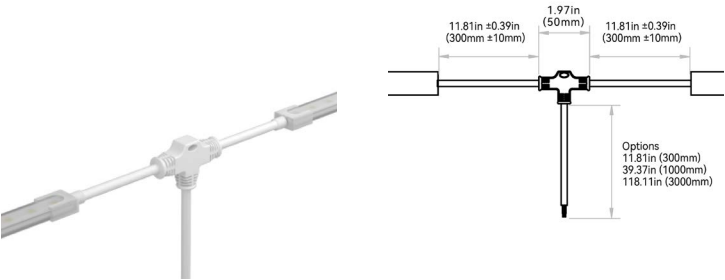
E

BOTTOM EXIT: 2-B-#

END JUMPER: 2-E-1

SIDE LEFT EXIT: 2-C-#

POWER T-FEED: 2-H-#

SIDE RIGHT EXIT: 2-D-#

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LUMIFORM LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated | Linear Flex Profile - Direct DMX-Pixel - Stainless Steel Mounting

F

MOUNTING PROFILES

MOUNTING PROFILE TYPE	STANDARD LENGTH	PROFILE	COLOR
S2 = Stainless Steel In-Ground Rigid S3 = Stainless Steel In-Ground Rigid Heavy Duty	7 = 8.03in (204mm) 8 = 19.84in (504mm) 9 = 39.53in (1004mm)	J = LightStrip XL	1 = Standard

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LUMIFORM LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors - Stainless Steel Mounting

COMPLEXITY, SIMPLIFIED.

## STAINLESS STEEL PROFILE - IN-GROUND RIGID

Stainless Steel is suitable for 8 tonnes weight rated, for Parking Lots, Squares, Fountains, Gardens, Sidewalks, and more. Where frequently being impacted by vehicles, splashing water or water soaking. Featured raceway channel for neat wiring. Evenly mixed by the continuous opal silicone diffuser, it comes up with soft, seamless, dotfree, and glare-free illumination, ensuring a visual comfort in tune with the scenario at night. The sophisticated structure dramatically lowers the maintenance cost as the inside LED strip is replaceable without damage to the mounting profile. Please refer to install manual for proper installation practices.
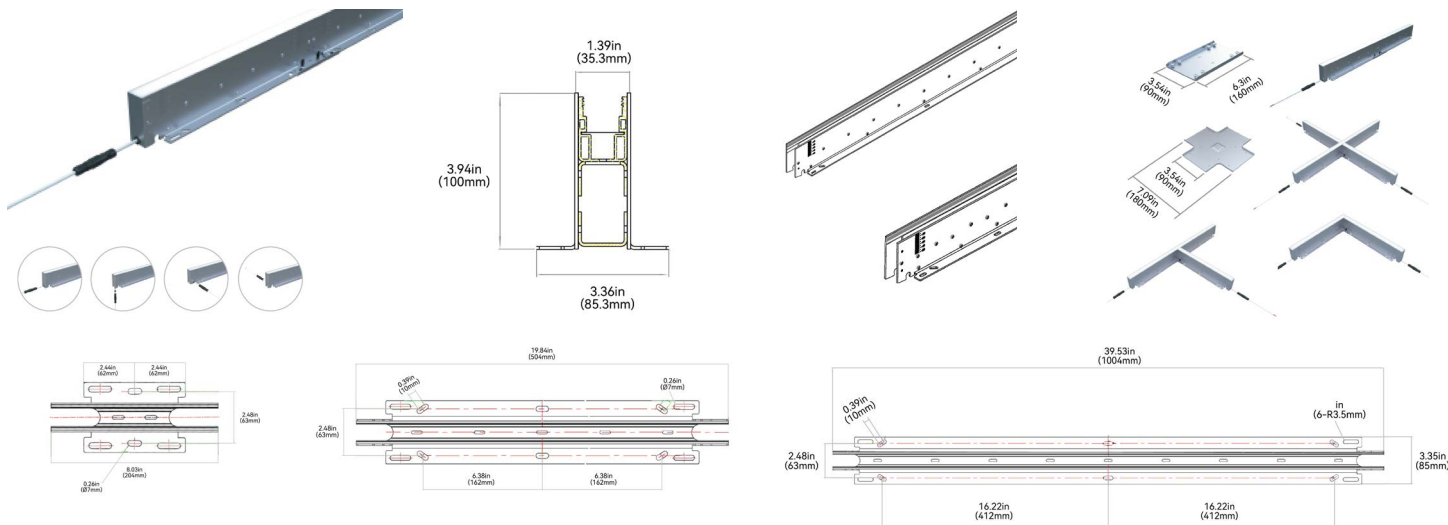
ORDER CODE	LEGACY CODE	STANDARD LENGTH
S2-7-J-1	CH20IRAP0M2RIG	8.03in (204mm)
S2-8-J-1	CH20IRAP0M5RIG	19.84in (504mm)
S2-9-J-1	CH20IRAP01MRIG	39.53in (1004mm)

STAINLESS STEEL PROFILE - IN-GROUND RIGID - HEAVY DUTY

Stainless Steel is suitable for 10 tonnes weight rated, for Parking Lots, Squares, Fountains, Gardens, Sidewalks, and more. Where frequently being impacted by vehicles, splashing water or water soaking. Featured raceway channel for neat wiring. Evenly mixed by the continuous opal silicone diffuser, it comes up with soft, seamless, dotfree, and glare-free illumination, ensuring a visual comfort in tune with the scenario at night. The sophisticated structure dramatically lowers the maintenance cost as the inside LED strip is replaceable without damage to the mounting profile. Please refer to install manual for proper installation practices.
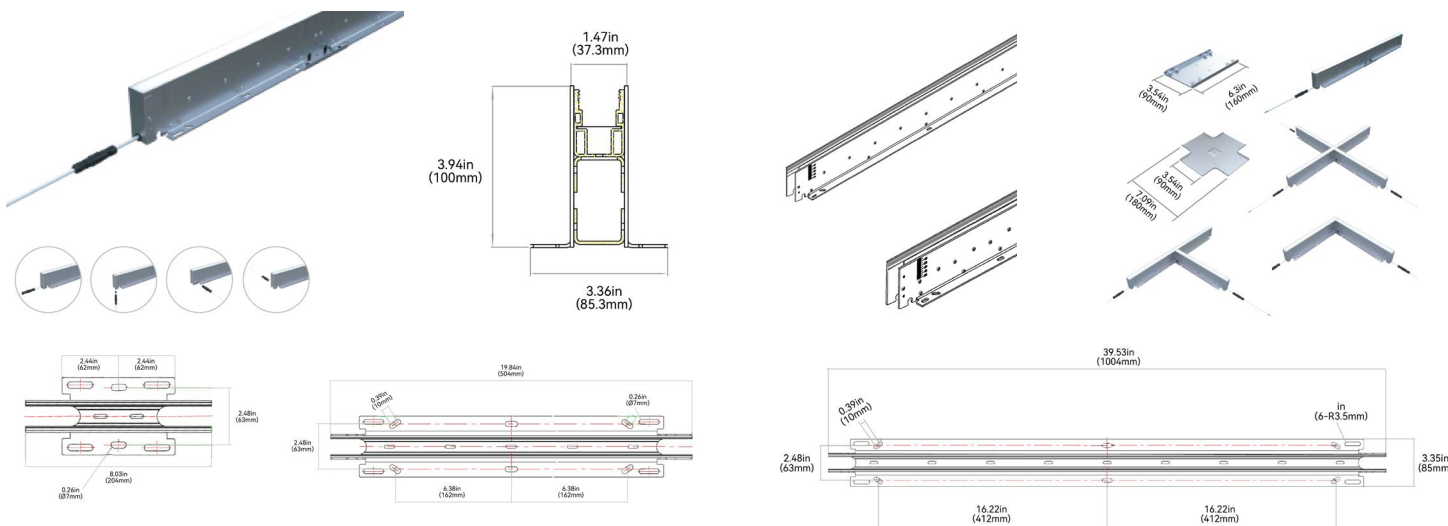
ORDER CODE	LEGACY CODE	STANDARD LENGTH
S3-7-J-1	CH20IRAP0M2RIGH	8.03in (204mm)
S3-8-J-1	CH20IRAP0M5RIGH	19.84in (504mm)
S3-9-J-1	CH20IRAP01MRIGH	39.53in (1004mm)

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