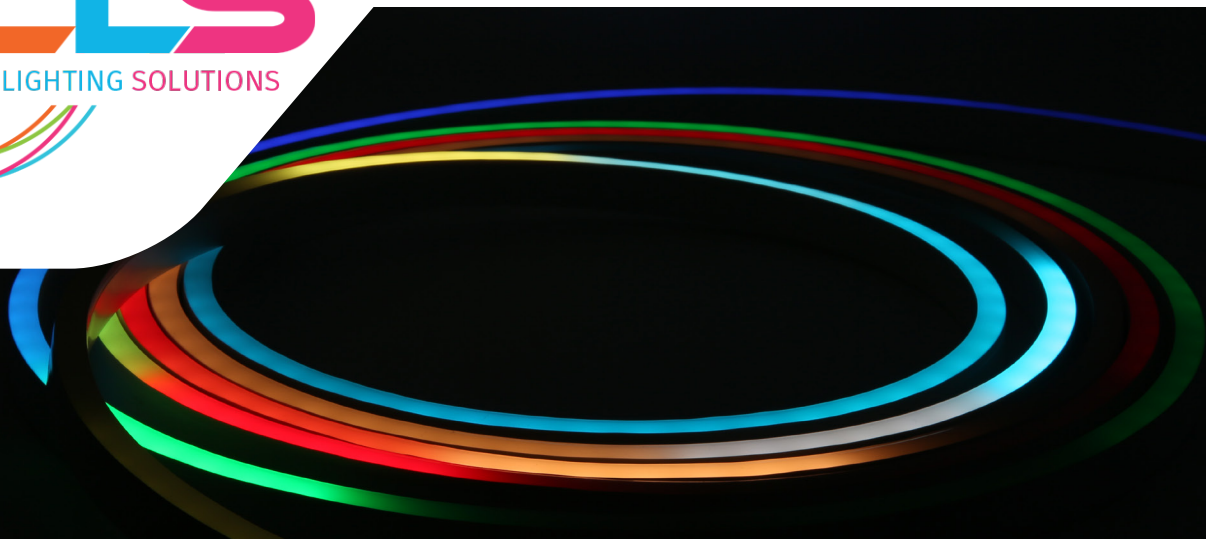




Version 1.2

VIVID S 160 PIXEL SILICONE 24V



For More Information

Toll Free: 1 (888) 580-6366



Light Dimension	0.45 x 0.83in (11.5x21mm)	
Output	RGB	RGBW(27K/30K/40K)
LED Light	SMD LED Chip	SMD LED Chip
Max Run Length *1*2		
Single Feed (Dynamic)	65.62ft (20m)	49.21ft (15m)
Single Feed (Full Load)	49.21ft (15m)	32.81ft (10m)
Double Feed (Dynamic)	131.24ft (40m)	98.43ft (30m)
Double Feed (Full Load)	98.43ft (30m)	65.62ft (20m)
Light Surface	Square profile 160°	
Lumen Maintenance	70,000 Hours L70 @ 25°C : 90,000 L50 @ 25°C 50,000 Hours L70 @ 50°C : 70,000 Hours L50 @ 50°C	
Electrical		
Input Voltage	24V DC	24V DC
Power Consumption	3.66W/ft (12W/m)	4.57W/ft (15W/m)
Physical		
LED Count	17 LED/ft (56 LEDs/m)	17 LED/ft (56 LEDs/m)
LED Spacing	0.7in (17.8mm)	0.7in (17.8mm)
Cutting Unit Length	4.92in (125mm) (7 LEDs)	4.92in (125mm) (7 LEDs)
IC Type	UCS2903	UCS2904
Thermal Management	Free air convection	
Fixture Connections	End, side & bottom lead wires	
Minimum Bend Diameter	4.72in (120mm) (Side Bending)	
Temperature Ranges		
Installation	-40°F to 122°F (-40°C to 50°C)	
Operating	-40°F to 131°F (-04°C to 55°C)	
Humidity	0-95% non condensing	
Dependability		
Warranty	10 Year Limited Warranty	
Safety		
Certification	Tested to UL & CSA by Underwriters Laboratory for use in USA and Canada, complies with California Title 24 Requirements, Lighting Facts. Exceeds ANSI C78.377A, CE & RoHS Compliant.	
IP Rating	IP68 with appropriately rated accessories	

*1 Max Run Length: Dynamic = when the R, G, B channels are not operating at 100%
Full Load = when the R, G, B channels are operating at 100%

*2 Max Run Length: Unless otherwise stated, snap and seamless run lengths are the same.

Available Colors

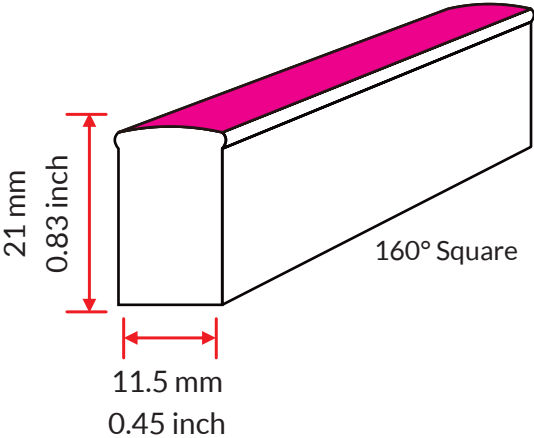
Color	CCT Wavelength
Red	618-624nm
Green	522-528nm
Blue	468-474nm
R+G+B	N/A
2700K	2725 ± 145K
4000K	3985 ± 275K

Lumen Count

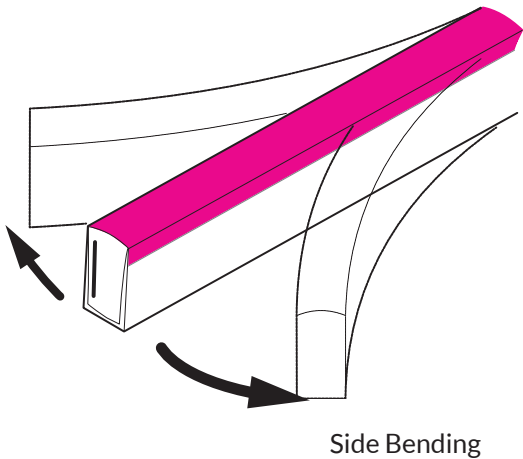
Color	Per Foot	Per Meter
Red	>15.24lm	>50lm
Green	>36.58lm	>120lm
Blue	>7.62lm	>25lm
R+G+B (white)	>59.45lm	>195lm
2700K	>36.58lm	>120lm
4000K	>36.58lm	>120lm

								
Beam Angle 160°	Bending Diameter D:120mm	Flame Resistant	UV Resistant	Solvents Resistant	Saltwater Resistant	IP68 Protection	IK08 Protection	10 Year Warranty

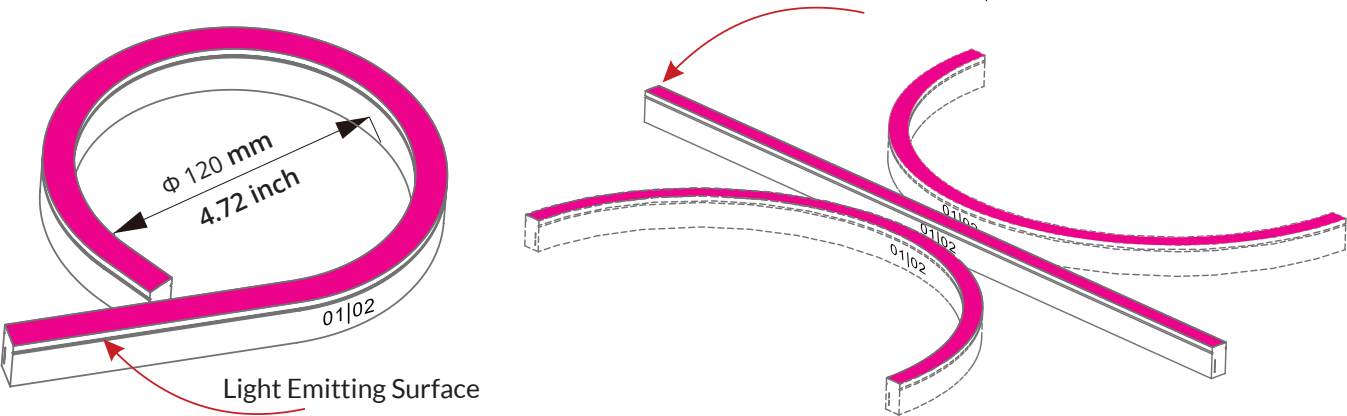
Light Profile



Bending Direction



Minimum Bending Diameter



Fixtures

SF-11D-1- 01-3W-E-**XXX**-24DC

LED Color (3 digits)

LED Colors (3 Digits)
RGB - PIXEL RGB
R27 - PIXEL RGBW (2700K)
R30 - PIXEL RGBW (3000K)
R40 - PIXEL RGBW (4000K)
PDW - PIXEL DYNAMIC WHITE

Lead Connector

FA-11D-1-01-3W-**XX-X-XX-XXX**-S

Length (3 digits)

Exit Type (2 Digits)

For Fixture End (1 Digit)

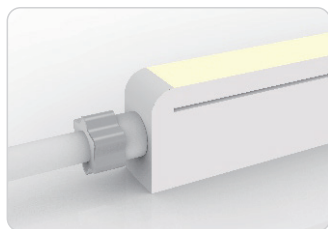
Connector Type (2 Digits)

Connector Type (2 Digits)	For Fixture End (1 digit)	Exit Type (2 digits)	Length (3 digits)
SC - Snap Connector	1 - Input side	EN - End	0M3 - 0.98ft (30cm)
SE - Seamless	2 - Output side	BO - Bottom	01M - 3.28ft (1m)
0 - Jumpers/T-Feeds/ Seamless (or Submersible) Bottom/ Seamless (or Sub- mersible) End		SL - Side left	03M - 9.84ft (3m)
		SR - Side right	05M - 16ft (5m)
		EJ - End jumper	10M - 32.81ft (10m)
		BJ - Bottom jumper	000 - For End Cap
		TF - Power T feed	

For full part number naming rules, please refer to the document on www.glls.com/support/documentation/

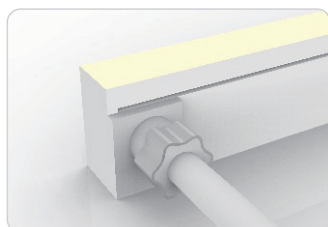
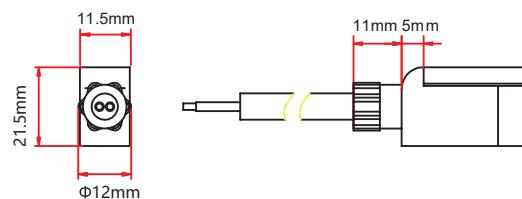
IP68: Submersible. Factory Assembly only.

Seamless



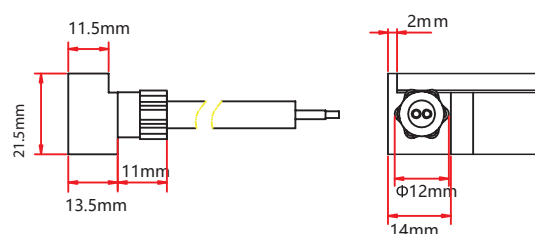
Seamless End Exit

FA-11B-1-01-3W-SE-0-EN-XXX-S
FA-11B-1-01-3W-SE-0-EN-XXX-P



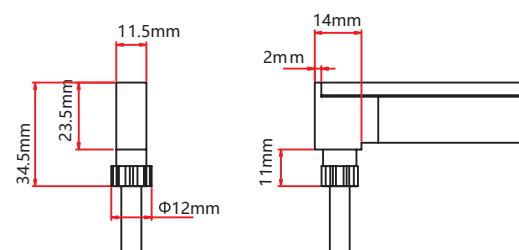
Seamless Side Exit

FA-11B-1-01-3W-SE-1-SR-XXX-S
FA-11B-1-01-3W-SE-2-SL-XXX-S
FA-11B-1-01-3W-SE-2-SL-XXX-P



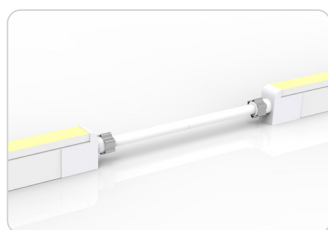
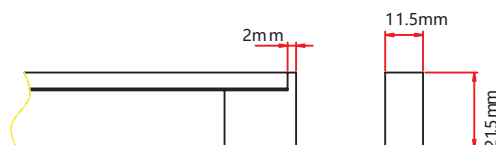
Seamless Bottom Exit

FA-11B-1-01-3W-SE-0-BO-XXX-S
FA-11B-1-01-3W-SE-0-BO-XXX-P



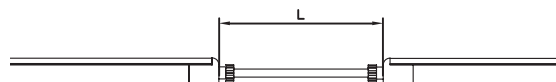
Seamless End Cap

FA-11B-1-01-0W-SE-1-EC-000-P
FA-11B-1-01-0W-SE-2-EC-000-P



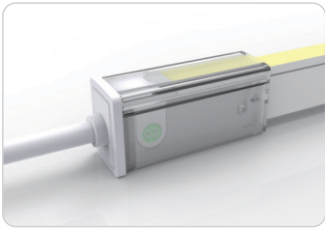
Seamless Jumper

FA-11B-1-01-3W-SE-0-EJ-XXX-S



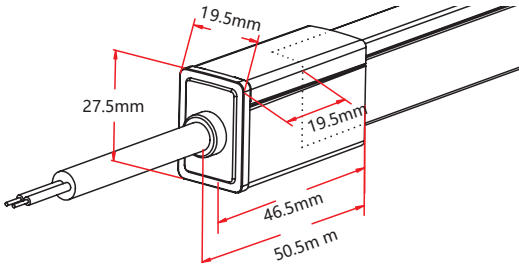
IP67: Rated for outdoor use.
Factory Assembly or DIY.

Snap



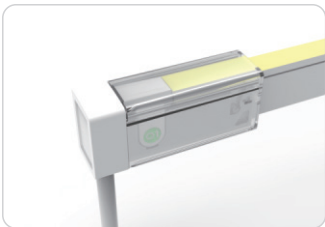
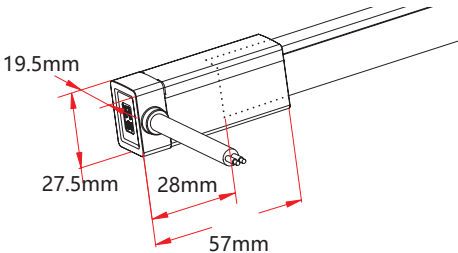
Snap End Exit

- NA-11B-1-01-3W-SC-1-EN-XXX-S
- NA-11B-1-01-3W-SC-2-EN-XXX-S
- NA-11B-1-01-3W-SC-2-EN-XXX-P



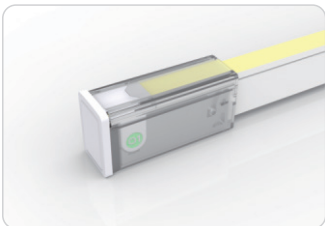
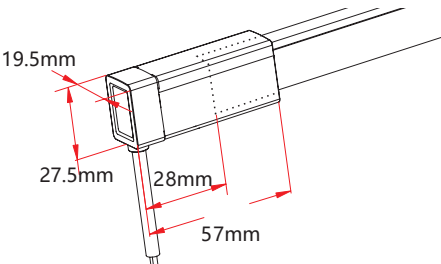
Snap Side Exit

- NA-11B-1-01-3W-SC-1-SL-XXX-S
- NA-11B-1-01-3W-SC-2-SL-XXX-S
- NA-11B-1-01-3W-SC-1-SR-XXX-S
- NA-11B-1-01-3W-SC-2-SR-XXX-S
- NA-11B-1-01-3W-SC-2-SL-XXX-P
- NA-11B-1-01-3W-SC-2-SR-XXX-P



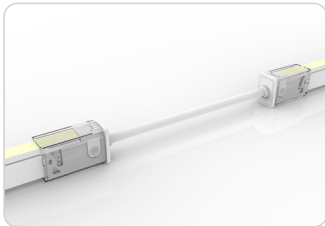
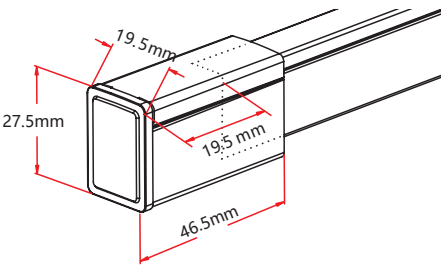
Snap Bottom Exit

- NA-11B-1-01-3W-SC-1-BO-XXX-S
- NA-11B-1-01-3W-SC-2-BO-XXX-S
- NA-11B-1-01-3W-SC-2-BO-XXX-P



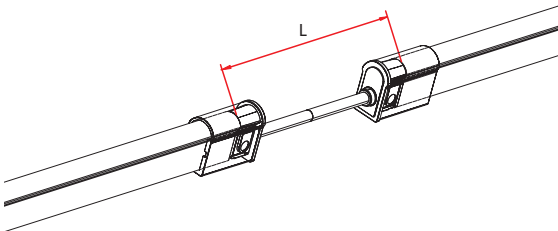
Snap End Cap

- NA-11B-1-01-0W-SC-1-EC-000-P
- NA-11B-1-01-0W-SC-2-EC-000-P



Snap Jumper

- NA-11B-1-01-XW-SC-0-EJ-XXX-S

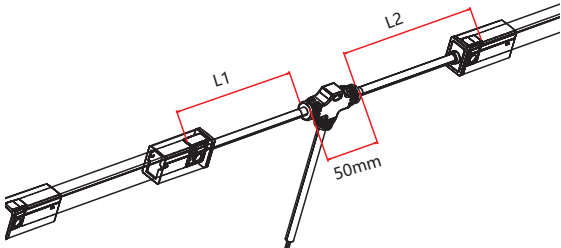


IP67: Rated for outdoor use.
Factory Assembly or DIY.

Snap



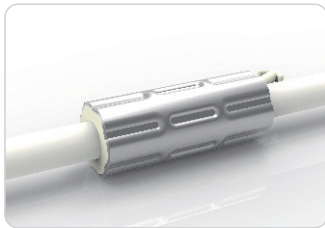
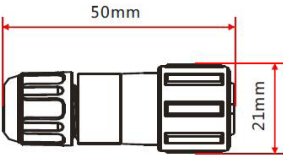
Snap Power T Feed
NA-11D-1-01-3W-SC-0-TF-XXX-S



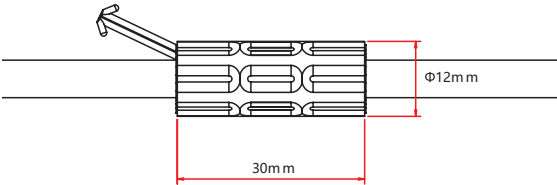
Barrel Connectors



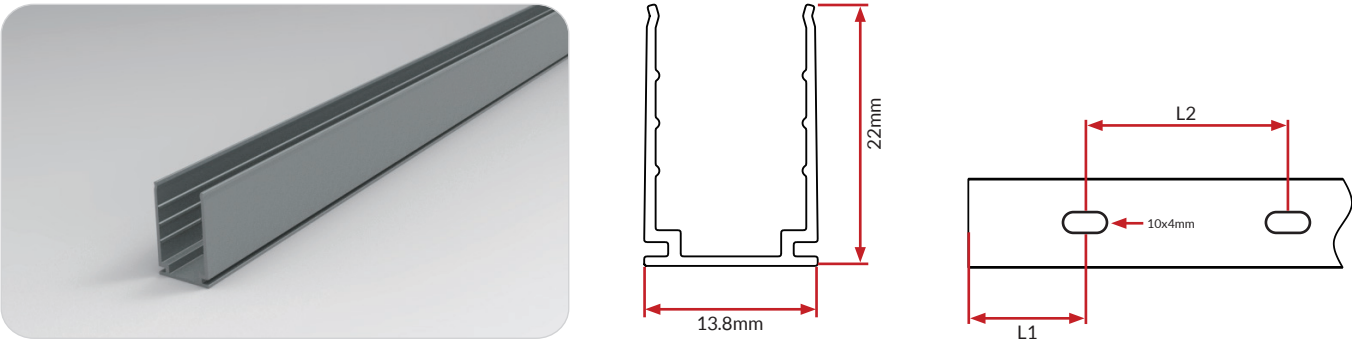
Barrel Connectors
NA-XX-BC-DC-CXX-F
NA-XX-BC-DC-CXX-M
NA-XX-BN-XXA-CXX-F
NA-XX-BN-XXA-CXX-M
NA-XX-PL-XXA-CXX-F
NA-XX-PL-XXA-CXX-M



Anti-Wicking Ferrule

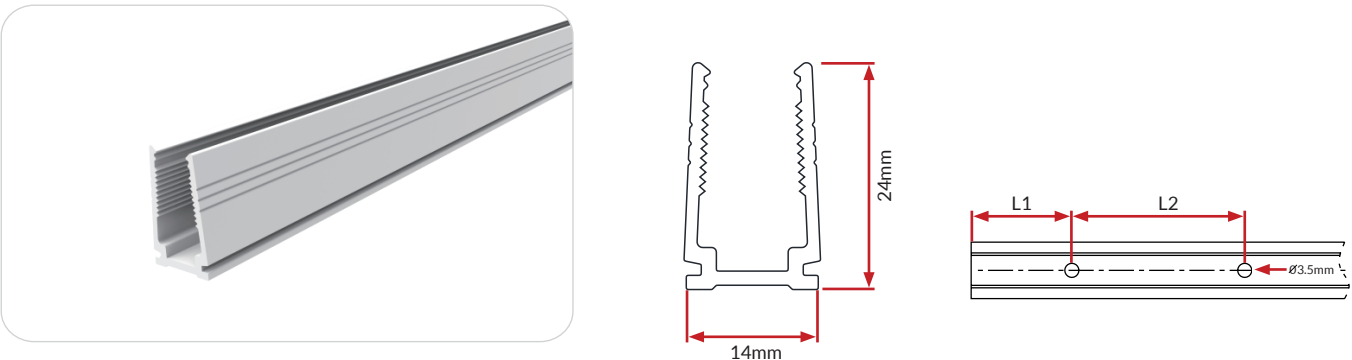


Standard Anodized Aluminum Channel



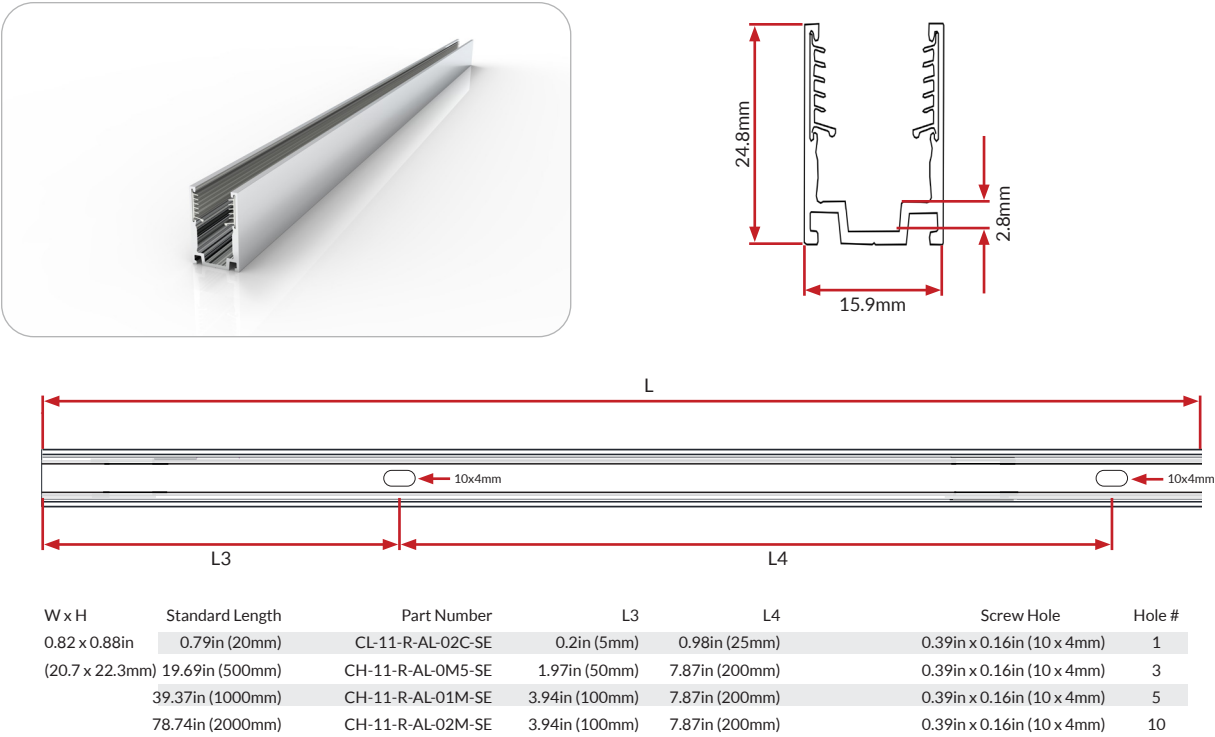
W x H	Standard Length	Part Number	L1		L2	Screw Hole	Hole #
0.54 x 0.87in (13.8 x 22mm)	1.38in (35mm)	CL-11-R-AL-3C5-SD	0.69in (17.5mm)		/	0.39x0.16in(10x4mm)	1
	19.69in (500mm)	CH-11-R-AL-0M5-SD	1.97in (50mm)	7.87in (200mm)		0.39x0.16in(10x4mm)	3
	39.37in (1000mm)	CH-11-R-AL-01M-SD	3.94in (100mm)	7.87in (200mm)		0.39x0.16in(10x4mm)	5
	78.74in (2000mm)	CH-11-R-AL-02M-SD	3.94in (100mm)	7.87in (200mm)		0.39x0.16in(10x4mm)	10

Plastic Channel

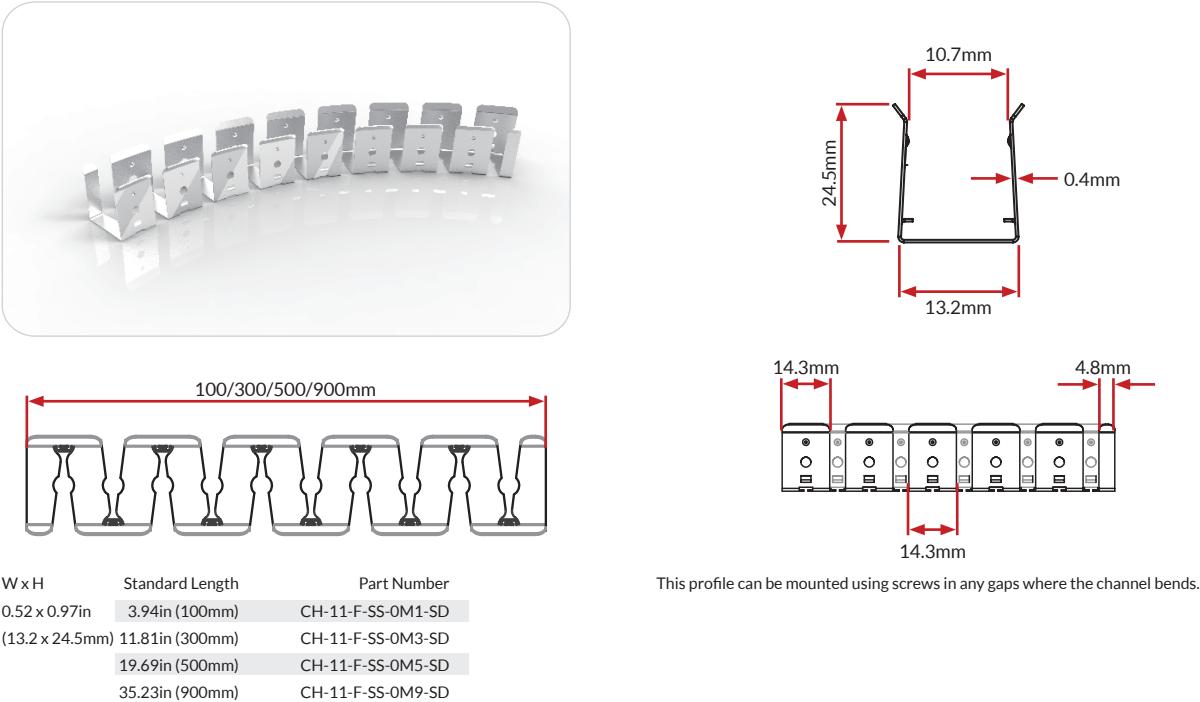


W x H	Standard Length	Part Number	L1		L2	Screw Hole	Hole #
0.55 x 0.94in (14 x 24mm)	19.69in (500mm)	CH-11-R-PL-0M5-SD	1.97in (50mm)	7.87in (200mm)		Ø 0.14in (3.5mm)	3
	39.37in (1000mm)	CH-11-R-PL-01M-SD	3.94in (100mm)	7.87in (200mm)		Ø 0.14in (3.5mm)	5
	78.74in (2000mm)	CH-11-R-PL-02M-SD	3.94in (100mm)	7.87in (200mm)		Ø 0.14in (3.5mm)	10

Standard Aluminum Channel with Silicone Grip



Stainless Steel Flexible Channel



Certifications

	Testing Organization	Certificate Serial N°	Report Reference
UL 2108	UL	20160726-E360029	E360029-2013
CE-EMC	SGS	SZEM1702001259LMV	SZEM160600421302

Fixture Testing

Optical Testing

Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, wavelength)
Photometric Distribution	IES LM 73 (Lumen intensity distribution & Lux diagram)
Lumen Maintenance & Lifetime	IES LM 84 & IES TM28

Temperature Testing

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

Durability Testing

Bending Test	Manufacturer-defined, 500 cycles
Swing Test	UL2388, >750 cycles
Tensile Test	Manufacturer-defined, > the weight of light in max. connection length double feed
Twist Test	Max connection length double feed Manufacturer-defined, >200 cycles
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK07 IK08	IEC62262

Environmental Testing

Chlorinated Water Immersion	BG9667, PH6.8-7.6, free chlorine 0.3-0.6mg/L
Salt Water Immersion	IEC60598-1, Salinity 4%
Salt Spray Test	IEC68-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA @ 340nm
IPX5, IPX6, IPX7, IPX8	IEC60529
Temperature Shock	Manufacturer-defined, -40°C - 60°C (typical temperature range)
Constant Temperature	Manufacturer-defined

Charts

ANSI STANDARD

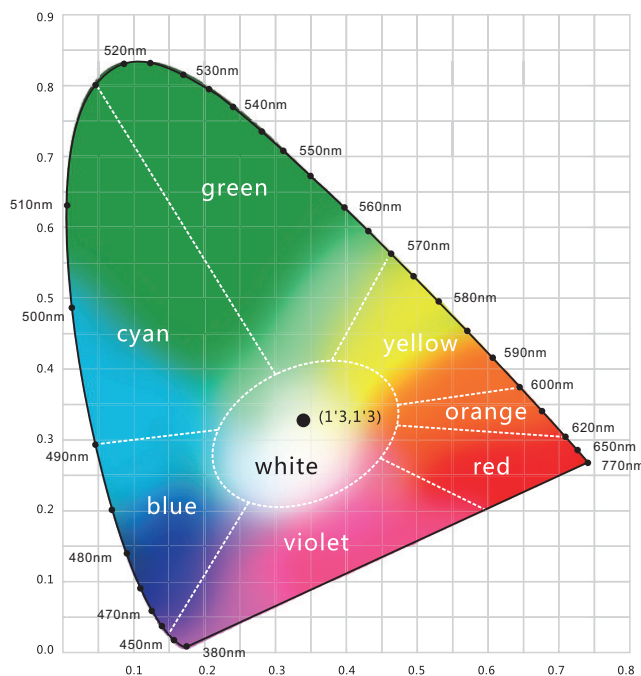
Nominal CCT Categories

Nominal CCT	Target CCT and tolerance(K)	Target D_{uv}	D_{uv} Tolerance Range
2200K	2238 ±102	0.0000	Tx:CCT of the source
2500K	2460±120	0.0000	For $T_x < 2870K$
2700K	2725 ±145	0.0000	0.000 ± 0.0060
3000K	3045±175	0.0001	For $T_x \geq 2870K$
3500K	3465±245	0.0005	$D_{uv}(T_x) \pm 0.0060$
4000K	3985±275	0.0010	where
4500K	4503±243	0.0015	$D_{uv}(T_x) = 57700 \times (1/T_x)^2$
5000K	5029±283	0.0020	$-44.6 \times (1/T_x)$
5700K	5667±355	0.0025	$+0.00854$
6500K	6532±510	0.0031	

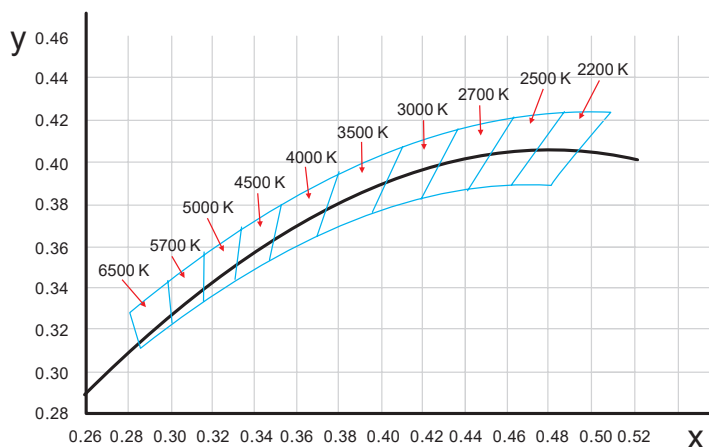
Flexible CCT (2200-6500K)	$T_F^{(1)} \pm \Delta T^{(2)}$	$D_{uv} T_F^{(3)}$
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Remark:

- 1) T_F is chosen to be at 100K steps (2300,2400,.....,6400K),excluding the ten nominal CCTs listed in Table 1.
- 2) $\Delta T = 1.1900 \times 10^5 \times T_F^3 - 1.5434 \times 10^4 \times T_F^2 + 0.7168 \times T_F - 902.55$
- 3) Same as in the D_{uv} Tolerance Range.



(X,Y) Chromaticity Diagram



Light Color





White Box

Packing Box

Fixture Length	White Box Dimensions		Packing Box Dimensions	# Of White Boxes	Package Weight
196.85in (5m)	15.35x2.05x19.67in (39x5.2x50cm)	20.47x15.34x11.02in (52x41x28cm)		5	30.86lbs (14kg)
393.7in (10m)	20.08x2.05x24.41in (51x5.2x62cm)	25.2x20.87x11.02in (64x53x28cm)		5	57.32lbs (26kg)
393.7in (10m)	20.08x2.05x24.41in (51x5.2x62cm)	25.2x20.87x6.9in (64x53x17.5cm)		3	35.27lbs (16kg)
787.4in (20m)	26.77x2.05x31.1in (68x5.2x79cm)	31.9x27.56x4.92in (81x70x12.5cm)		2	48.5lbs (22kg)