LINIO NEON 1228X SV PIXEL RGBW

Horizontal Bending · Pixel RGBW

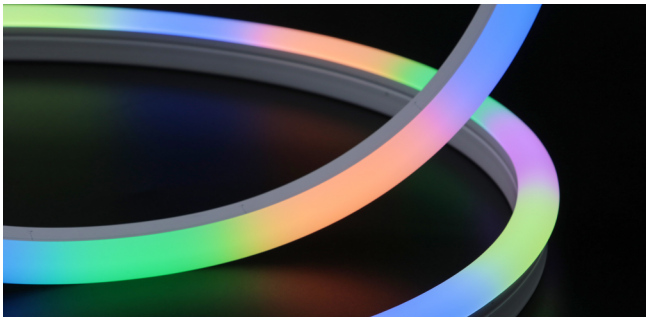
Date	Fixture type
Project name	Project phase

Features

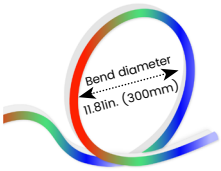
- Dome top design, eye-catching from three viewing angles with addressable RGBW
- IP68 rated, ideal for outdoor uses, not for underwater project
- 3 years warranty

Applications

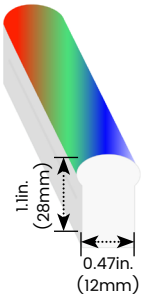
Museums, malls, amusement parks, restaurants, resorts, etc.



Bending Directions & Diameters



Dimensions



Order Code

Model	Environment	Voltage	CCT	Power	End Cap
LN1228XSV	**W8**-Wet (IP68)	**24V**-DC24V	**PRGBW27K**-Pixel RGBW2700K **PRGBW30K**-Pixel RGBW3000K **PRGBW35K**-Pixel RGBW3500K **PRGBW40K**-Pixel RGBW4000K	**4.6**-4.57W/ft	**FT** Flush Translucent **FO** Flush Opaque

Assembly Builder

Left Feed Entry			
F	Front	**OW**	Open wire 3.28ft (1m)
B	Bottom	**OA**	Open Wire with Anti-Wicking Ferrule
S	Side	**MC**	Male connector with 11.81in. (300mm) cable
C	Closed	**FC**	Female connector with 11.81in. (300mm)cable
		NA	Only for Closed Feed Entry

Assembly Builder

Right Feed Entry				Length	
F	Front	**OW**	Open wire 3.28ft (1m)	**Max. nominal**	16.4ft (5m)
B	Bottom	**OA**	Open Wire with Anti-Wicking Ferrule	**Increment**	3.28in. (83.3mm)
S	Side	**MC**	Male connector with 11.81in. (300mm) cable		
C	Closed	**FC**	Female connector with 11.81in. (300mm)cable		
		NA	Only for Closed Feed Entry		

*We will list the nearest actual manufacturing length on the quotation, based on your requested length.

Mounting Order Code

Product Code
Please select on the Mounting Options page

LINIO NEON 1228X SV PIXEL RGBW

Horizontal Bending · Pixel RGBW

Lumen Output (lm/ft)

CCT	4.57W/ft
R	10
G	29
B	7
W27K	34
W30K	34
W35K	36
W40K	36
PRGBW27K	83
PRGBW30K	80
PRGBW35K	80
PRGBW40K	80
Max. Run for Class 2*	16.4ft (5m)
Max. Run Supported Length	16.4ft (5m)

*Typically installations in USA and Canada comply with Class 2 requirements

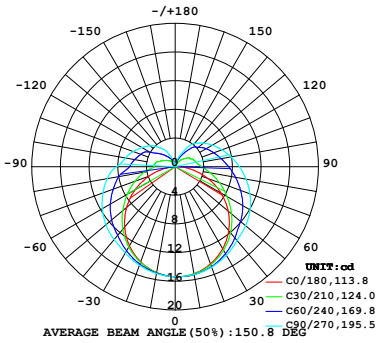
Techinical Details

Efficacy	17.3lm/W @PRGBW30K 4.57W
CRI	Ra≥80
Beam Angle	110°
Average Life (L70B10)	>36,000 hours
IC Model	UCS 512CL
Pixel Size	3.3in./pixel (83mm/pixel)
Storage Temperature	-40°F~149°F (-40°C~ 65°C)
Operating Temperature	-40°F~149°F (-40°C~ 65°C)

Photometry

LN1228XSV-W8-24V-PRGBW30K-4.6-FT-F-OW-F-OW

LINIO NEON 1228X SV PIXEL RGBW, Horizontal bend, PRGBW30K, 4.57W/ft



Zonal Lumen Summary

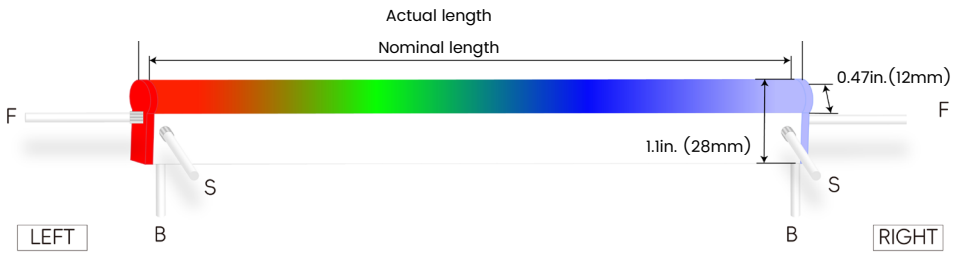
Zone	Lumen	% Fixture
0-30	12.2	15.2%
0-40	20.3	25.4%
0-60	38.4	48.1%
0-90	60.9	76.2%
0-180	79.9	100.0%

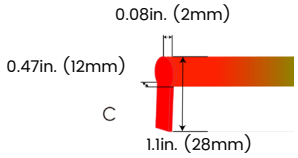
LINIO NEON 1228X SV PIXEL RGBW

Horizontal Bending · Pixel RGBW

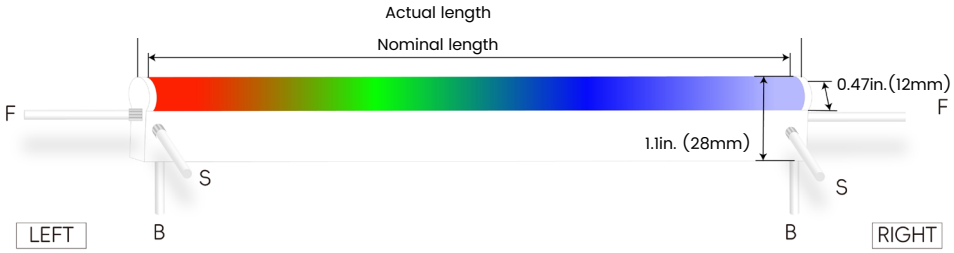
Feed Entry / End Cap Options

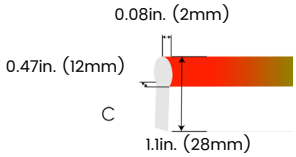
FT: Flush Translucent – IP68, factory-made only



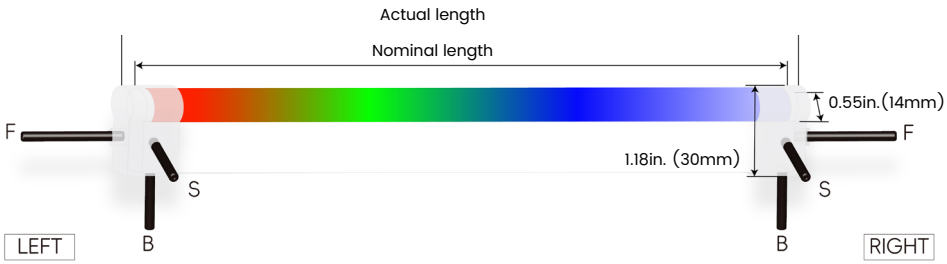


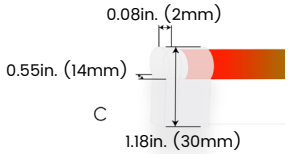
FO: Flush Opaque – IP68, factory-made only





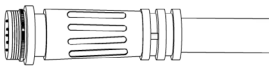
Silicone end cap – IP67, for field cuttable only



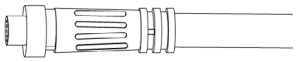


Connector Wire Options

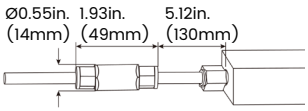
OW: Open wire, **Dry only**
Standard 3.28ft (1m),20 AWG,
wire length customizable



MC: Male connector, **Wet**
Standard 11.81in. (300mm), 20 AWG



FC: Female connector, **Wet**
Standard 11.81in. (300mm), 20 AWG

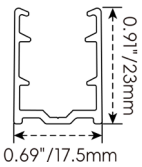


OA: Open Wire with **Anti-Wicking Ferrule, Wet**
Standard 3.28ft (1m),20 AWG,
Protects against water ingress through the power cable

LINIO NEON 1228X SV PIXEL RGBW

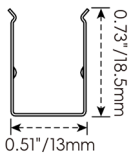
Horizontal Bending · Pixel RGBW

Mounting Options



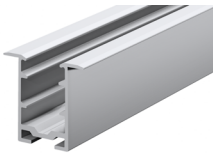
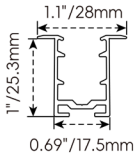
NF1228-SC

Name	Straight surface channel
Material	Aluminum
Standard Length	3.28ft (1m)



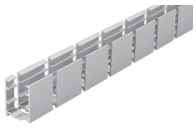
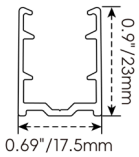
NF1228-BC

Name	Bendable surface channel
Material	Stainless Steel
Standard Length	3.28ft (1m)
Min. Bending Diameter	11.81in.(300mm)
*Not suitable for upside-down installation	

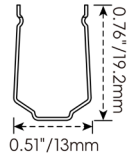
NF1228-RC

Name	Straight recessed channel
Material	Aluminum
Standard Length	3.28ft (1m)

NF1228-BCA

Name	Bendable surface channel
Material	Aluminum
Standard Length	3.28ft (1m)
Min. Bending Diameter	11.81in.(300mm)



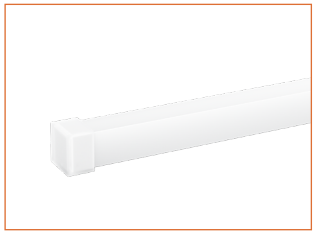
NF1228-CL

Name	Mounting clip
Material	Stainless Steel
Standard Length	0.79in.(20mm)
*Not suitable for upside-down installation	

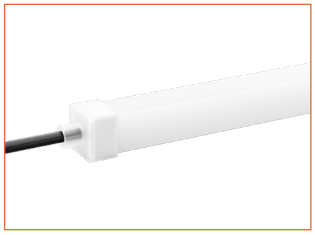
LINIO NEON 1228X SV PIXEL RGBW

Horizontal Bending · Pixel RGBW

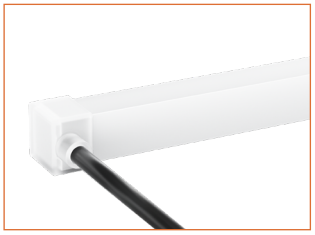
Silicone End Caps (Optional, purchase for extra)



NF1228-SEC-C
Silicone closed end cap



NF1228-SEC-F-5P
Silicone end cap front entry with
11.81in. (300mm) cable, 5 pin



NF1228-SEC-S-5P
Silicone end cap side entry with
11.81in. (300mm) cable, 5 pin

NF1228-SEC-B-5P
Silicone end cap bottom entry with
11.81in. (300mm) cable, 5 pin

Additional Accessories (Optional, purchase for extra)

MCW-5P-67
Male connector,
11.81in. (300mm) white cable,
5 pin, IP67, Wet, 22 AWG

FCW-5P-67
Female connector,
11.81in. (300mm) white cable,
5 pin, IP67, Wet, 22 AWG

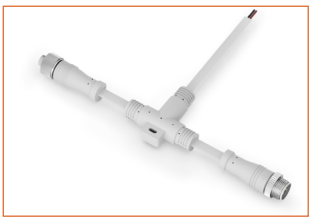
MCB-5P-67
Male connector,
11.81in. (300mm) black cable,
5 pin, IP67, Wet, 22 AWG

FCB-5P-67
Female connector,
11.81in. (300mm) black cable,
5 pin, IP67, Wet, 22 AWG

SW-3P-6
Shielded signal wire,
standard 20ft(6m), customizable
3 pin, 18AWG

SC-3P-6
XLR3 extension signal connector,
standard 20ft(6m), customizable
3 pin

NC-6
RJ45 extension network connector,
standard 20ft(6m), customizable



MFTCW-5P-67
Male and female T-shaped connector,
white cable,
5 pin, IP67, Wet

LINIO NEON 1228X SV PIXEL RGBW

Horizontal Bending · Pixel RGBW

Drivers

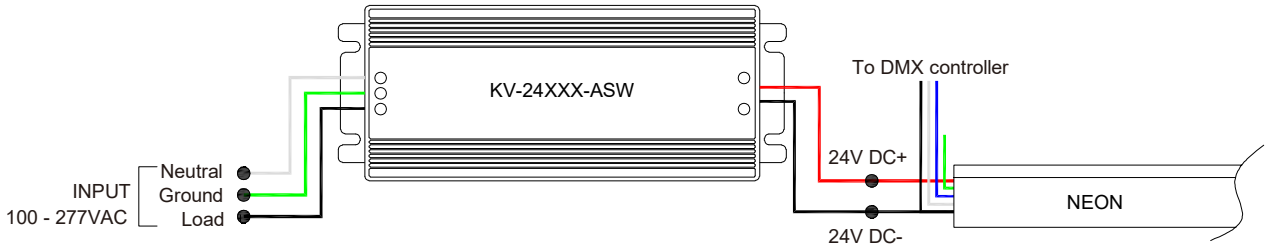
Non-dimmable

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KV-24030-ASW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (155 × 54 × 20 mm)
KV-24060-ASW	60W	100-277VAC	24V	Yes	No	Dry/Damp	7 x 2.4 x 0.9in. (178 × 61 × 24 mm)
KV-24096-ASW	96W	100-277VAC	24V	Yes	No	Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (230 × 70 × 43 mm)

Controllers Options

Code	Description
DINA-DR micro	DMX 60 channels, DMX Stand Alone controller with 10 scenes, USB connectivity for programming
SLESA-U9	DMX 256 channels, USB connection, standalone mode with 1 area and 20 scenes
STICK-GA2	DMX 512 channels, ready to use (pre-loaded with 8 scenes and 170 RGB fixtures)
STICK-CW4	DMX 1024 channels, up to 36 scenes stored and directly recalled via 6 touch sensitive buttons

Wiring Diagram



LINIO NEON 1228X SV PIXEL RGBW

Horizontal Bending · Pixel RGBW

24V Voltage Drop & Maximum Wire Length Chart

Based on 24V voltage with a 3% voltage drop allowance. Indicates the maximum wire length from the power supply to the start of the run.

Total load	8AWG	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG
10W / 0.4A	1588ft (484.0m)	999ft (304.5m)	628ft (191.4m)	395ft (120.4m)	248ft (75.5m)	156ft (47.5m)	98ft (29.8m)	61ft (18.5m)
20W / 0.8A	794ft (242.0m)	499ft (152.1m)	314ft (95.7m)	197ft (60.0m)	124ft (37.8m)	78ft (23.7m)	49ft (14.9m)	30ft (9.1m)
30W / 1.3A	529ft (161.2m)	333ft (101.5m)	209ft (63.7m)	131ft (39.9m)	82ft (24.9m)	52ft (15.8m)	32ft (9.7m)	20ft (6.1m)
40W / 1.7A	397ft (121.0m)	249ft (75.9m)	157ft (47.8m)	98ft (29.8m)	62ft (18.9m)	39ft (11.8m)	24ft (7.3m)	15ft (4.5m)
50W / 2.1A	317ft (96.6m)	199ft (60.6m)	125ft (38.1m)	79ft (24.0m)	49ft (14.9m)	31ft (9.4m)	19ft (5.7m)	12ft (3.6m)
60W / 2.5A	264ft (80.4m)	166ft (50.6m)	104ft (31.7m)	65ft (19.8m)	41ft (12.5m)	26ft (7.9m)	16ft (4.8m)	10ft (3.0m)
70W / 2.9A	226ft (68.8m)	142ft (43.2m)	89ft (27.1m)	56ft (17.0m)	35ft (10.6m)	22ft (6.7m)	14ft (4.2m)	8ft (2.4m)
80W / 3.3A	198ft (60.3m)	124ft (37.8m)	78ft (23.7m)	49ft (14.9m)	31ft (9.4m)	19ft (5.7m)	12ft (3.6m)	7ft (2.1m)
90W / 3.8A	176ft (53.6m)	111ft (33.8m)	69ft (21.0m)	43ft (13.1m)	27ft (8.2m)	17ft (5.1m)	10ft (3.0m)	6ft (1.8m)
100W / 4.2A	158ft (48.1m)	99ft (30.1m)	62ft (18.9m)	39ft (11.8m)	24ft (7.3m)	15ft (4.5m)	9ft (2.7m)	6ft (1.8m)
110W / 4.6A	144ft (43.8m)	90ft (27.4m)	57ft (17.3m)	35ft (10.6m)	22ft (6.7m)	14ft (4.2m)	9ft (2.7m)	5ft (1.5m)
120W / 5.0A	132ft (40.2m)	83ft (25.3m)	52ft (15.8m)	32ft (9.7m)	20ft (6.1m)	13ft (3.9m)	8ft (2.4m)	5ft (1.5m)
130W / 5.4A	122ft (37.1m)	76ft (23.1m)	48ft (14.6m)	30ft (9.1m)	19ft (5.7m)	12ft (3.6m)	7ft (2.1m)	4ft (1.2m)
140W / 5.8A	113ft (34.4m)	71ft (21.6m)	44ft (13.4m)	28ft (8.5m)	17ft (5.1m)	11ft (3.3m)	7ft (2.1m)	4ft (1.2m)
150W / 6.3A	105ft (32.0m)	66ft (20.1m)	41ft (12.5m)	26ft (7.9m)	16ft (4.8m)	10ft (3.0m)	6ft (1.8m)	4ft (1.2m)
160W / 6.7A	99ft (30.1m)	62ft (18.9m)	39ft (11.8m)	24ft (7.3m)	15ft (4.5m)	9ft (2.7m)	6ft (1.8m)	3ft (0.9m)
170W / 7.1A	93ft (28.3m)	58ft (17.6m)	36ft (10.9m)	23ft (7.0m)	14ft (4.2m)	9ft (2.7m)	5ft (1.5m)	3ft (0.9m)
180W / 7.5A	88ft (26.8m)	55ft (16.7m)	34ft (10.3m)	22ft (6.7m)	13ft (3.9m)	8ft (2.4m)	5ft (1.5m)	3ft (0.9m)
190W / 7.9A	83ft (25.3m)	52ft (15.8m)	33ft (10.0m)	20ft (6.0m)	13ft (3.9m)	8ft (2.4m)	5ft (1.5m)	3ft (0.9m)
200W / 8.3A	79ft (24.0m)	49ft (14.9m)	31ft (9.4m)	19ft (5.7m)	12ft (3.6m)	7ft (2.1m)	4ft (1.2m)	3ft (0.9m)
210W / 8.8A	75ft (22.8m)	47ft (14.3m)	29ft (8.8m)	18ft (5.4m)	11ft (3.3m)	7ft (2.1m)	4ft (1.2m)	2ft (0.6m)
220W / 9.2A	72ft (21.9m)	45ft (13.7m)	28ft (8.5m)	18ft (5.4m)	11ft (3.3m)	7ft (2.1m)	4ft (1.2m)	2ft (0.6m)
230W / 9.6A	69ft (21.0m)	43ft (13.1m)	27ft (8.2m)	17ft (5.1m)	10ft (3.0m)	6ft (1.8m)	4ft (1.2m)	2ft (0.6m)
240W / 10.0A	66ft (20.1m)	41ft (12.5m)	26ft (7.9m)	16ft (4.8m)	10ft (3.0m)	6ft (1.8m)	4ft (1.2m)	2ft (0.6m)
250W / 10.4A	63ft (19.2m)	40ft (12.1m)	25ft (7.6m)	15ft (4.5m)	9ft (2.7m)	6ft (1.8m)	3ft (0.9m)	2ft (0.6m)