

LINIO NEON EOS TV PIXEL RGBW Indoor/Semi-Outdoor · Vertical Bending · Pixel RGBW

Features

- Neon & tape in one hybrid design, addressable every increment with dynamic RGBW effects
- IP65 rated, ideal for damp location and sheltered exterior
- 5 years warranty

Applications

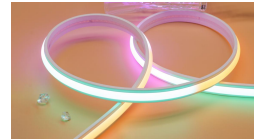
Under cabinets, coves, shelves, closets, millwork, furnitures, etc.

Date

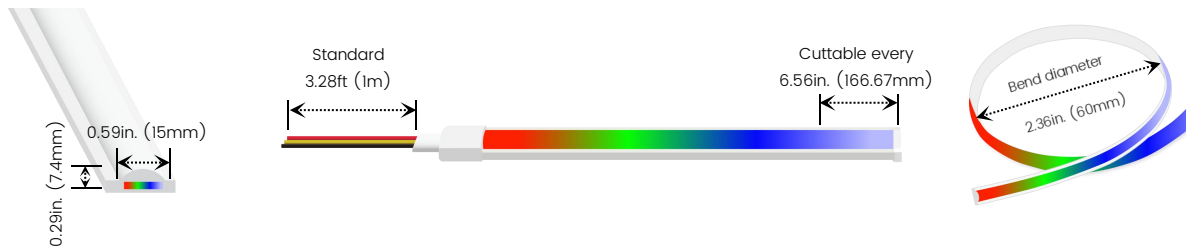
Fixture type

Project name

Project phase



Dimensions



Order Code

Assembly Builder

Model	Environment	Voltage	Temp./Color	Power	End Cap		Left Feed Entry			
LNEOSTV	W5-Wet (IP65)	24-DC24V	PRGBW27-RGBW (W=2700K)	290-2.90W/ft	IJ	Injected (IP65)	F	Front	OW	Open wire 3.28ft
			IJC		Clear injected (IP65)	C	Closed	PMC	Male connector with 0.98ft cable	
			SEC		Silicone (IP65)			PFC	Female connector with 0.98ft cable	
						NA	Only for Closed Feed Entry			
*Injected and clear injected end cap are factory-made only.										

Assembly Builder

Mounting Order Code

Right Feed Entry				Length	
F Front	OW Open wire 3.28ft			Max. nominal	32.8ft (10m)
C Closed	PMC Male connector with 0.98ft cable			Increment	6.56in. (166.67mm)
	PFC Female connector with 0.98ft cable				
	NA Only for Closed Feed Entry				
*We will list the nearest actual manufacturing length on the quotation, based on your requested length.					

Product Code
Please select on the Mounting Options page.

Lumen Output (lm/ft)

Temp./Color	2.90W/ft
R	11
G	55
B	8
W27	33
W30	34
W40	32
RGBW27	101
RGBW30	107
RGBW40	104
Max. Run for Class 2	26.5ft (8m)
Max. Run Supported Length	32.8ft (10m)

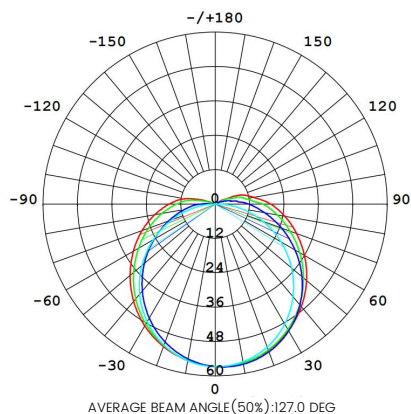
*Typically installations in USA and Canada comply with Class 2 requirements.

Technical Details

Efficacy	36.9lm/W @RGBW30 2.90W
CRI	Ra ≥ 90
Beam Angle	110°
Average Life (L70)	> 30,000 hours
Max. Length Per Reel	98.4ft (30M)
Dimming	SPI
IC Type	SM16704PB
Pixel/ft	1
Finish	Matte
Storage Temperature	-13~140°F (-25°C~ 60°C)
Operating Temperature	-40~113°F (-40°C~ 45°C)

Photometry

LINIO NEON EOS TV PIXEL RGBW, Vertical Bend, RGBW30, 2.90W/ft



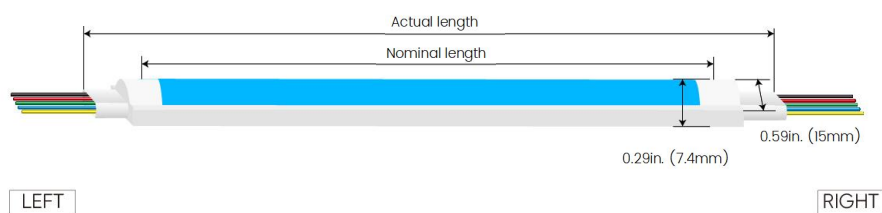
Zonal Lumen Summary RGBW30

Zone	Lumen	% Fixture
0-30	44.5	20.5%
0-40	73.6	33.9%
0-60	135.4	62.4%
0-90	198.8	91.6%
0-180	217	100%

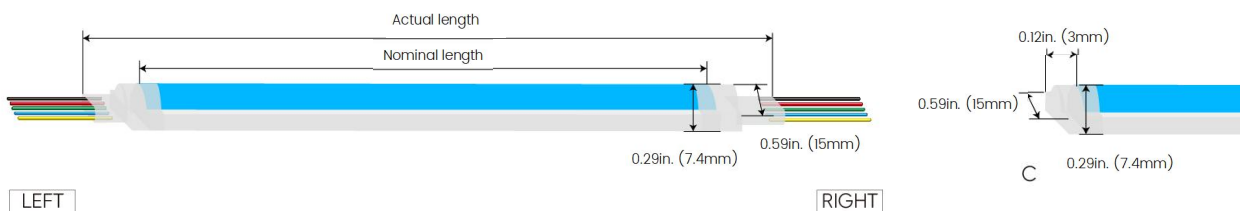
UNIT: CD

— C60/240, 119.8
— C90/270, 113.9

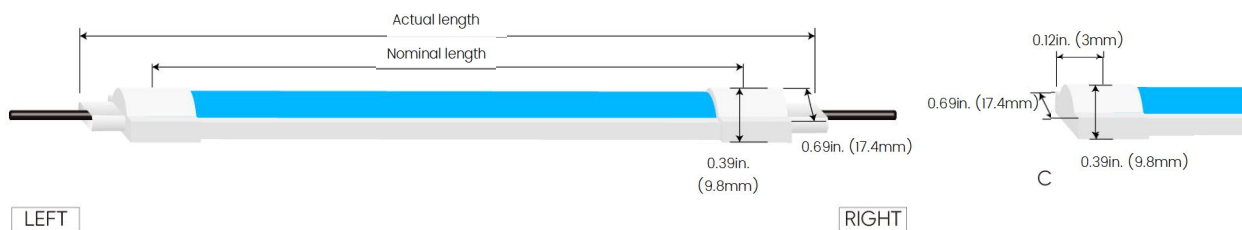
IJ: Injected end cap – IP65, factory-made only



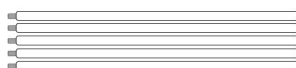
IJC: Clear injected end cap – IP65, factory-made only



SEC: Silicone end cap – IP65



Connector Wire Options



Standard 3.28ft (1m), 20 AWG (wire length customizable)



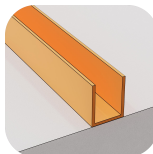
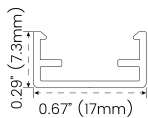
Standard 0.98' (30cm), 22 AWG



Standard 0.98' (30cm), 22 AWG

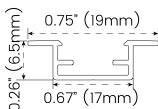
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Mounting Options



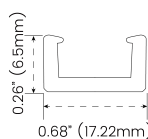
LNEOS-SC-15

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



LNEOS-RC-15

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



LNEOS-CL-15

Name	Mounting clip
Material	Silicone
Standard Length	0.55in. (14mm)

End Caps (Optional, purchase for extra)



LNEOS-SEC-C-15

Silicone closed end cap for 0.59in. (15mm) wide LINIO NEON EOS TV series

LNEOS-SEC-F-5P-15

Silicone end cap front entry with 0.66ft (20cm) cable, 5 pin

Additional Accessories (Optional, purchase for extra)



PMCW-3P-67

Male connector with 0.98' (30cm) white cable, 3 pin, IP67, Wet, 22 AWG



PFCW-3P-67

Female connector with 0.98' (30cm) white cable, 3 pin, IP67, Wet, 22 AWG



PMCB-3P-67

Male connector with 0.98' (30cm) black cable, 3 pin, IP67, Wet, 22 AWG



PFCB-3P-67

Female connector with 0.98' (30cm) black cable, 3 pin, IP67, Wet, 22 AWG



SC-3P-67

Signal connector, 3 pin, IP67, Wet, standard 20' (6m), **customizable**



MSC-3P-67

Male signal connector, 3 pin, IP67, Wet, standard 20' (6m), **customizable**



FSC-3P-67

Female signal connector, 3 pin, IP67, Wet, standard 20' (6m), **customizable**



NC-3P-67

Network signal connector, 3 pin, IP67, Wet, standard 20' (6m), **customizable**



MFTCB-3P-67

Male and female T-shaped connector with black cable, 3 pin, IP67, Wet

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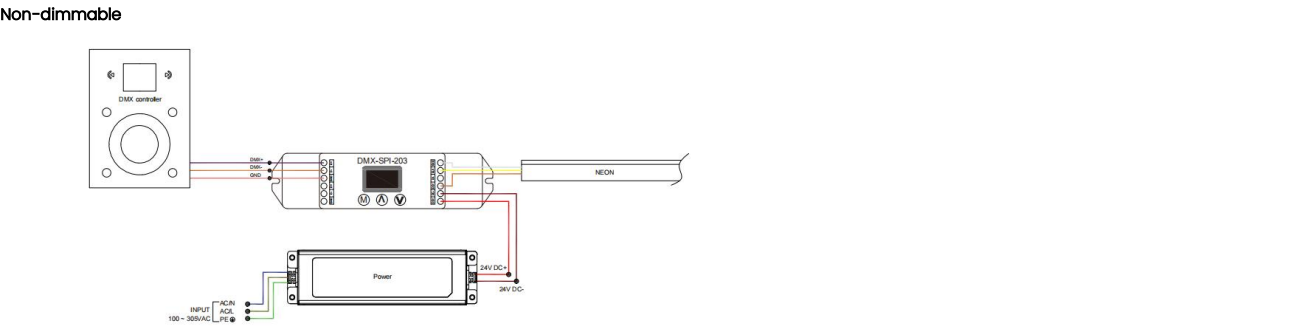
Drivers

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. (15.5 x 5.4 x 2cm)
KV-24060-ASW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KV-24096-ASW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)

Controllers

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-CW4	DMX 1024 channels, up to 36 scenes stored and directly recalled via 6 touch sensitive buttons
DMX-SPI-203	DMX-SPI controller for 1024 pixels, supports 540 modes, DMX512/1990 interface, RF remote included

Wiring Diagram



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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)