LLRGBX18WET-T

LLRGBWX18WET-T

RGB RGBW Pixel

IP65 IP67 IP68

Features

The LLX18-RGB Wet is a small profile and energy efficient color-changing light strip. It is easily installed directly on to the mounting surface with double sided tape or within discrete mounting extrusions. The durable but flexible circuit board enables the perfect fit for every application.

LLX18-WET-T-RGBW-SPI is a new small profile, more energy efficient LED strip for wet locations. The LineLED RGB & RGBW Wet Tube has superior light output, a durable but flexible circuit board and it is very easy to install.

Mounting
LLED strip is equipped with 3M™ self-adhesive tape.

Applications
Outdoor and wet locations - cove lighting, architectural accent, handrail, wet bars.

Operating voltage
24 VDC

Average Life (L70)
50,000 hours

Warranty
5 years

Approvals
IP65, IP67, and IP68 rated

CE c UL us LISTED LM80 Single Bin +/- 30 CCT RoHS DIM

Technical Information

TYPE	LLRGBX18	LLRGBWX18
OUTPUT OPTIONS	**SO**	**SO**
Lumens Output (all channels full on)	152 lm/ft	230 lm/ft
Average Power Consumption (for a 4' section)	4.5 W/ft	5.7 W/ft
Efficacy	34 lm/W	40 lm/W
Cutting Increment	3.94"	
Pitch Length	0.66"	
Max Run Length (in series)	30 ft	20 ft
Max Strip Length	16 ft	
Dimensions	0.53" W x 0.27" H	

RGBW (3000K)

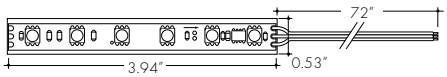
Tape	CRI	TM-30 R_f	TM-30 R_g	R_9
LLRGBWX18-SO	93	91	99	64

Dominant Wavelength

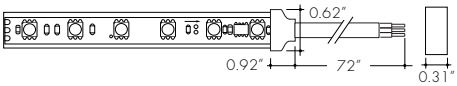
Color	RGB/RGBW
Red	621nm
Green	519nm
Blue	465nm

Section Start/End Options

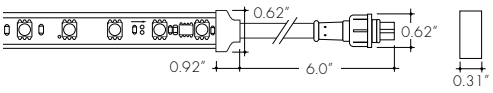
SL65
72" Soldered Leads, IP65 rated



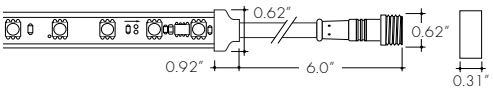
SL68
72" Soldered Leads, IP68 rated



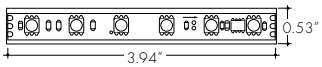
LF
Female Quick Connect End, IP67 rated



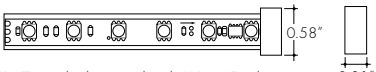
LM
Male Quick Connect End, IP67 rated



NC
No Connector



IP65 rated when used with SL65 selection



IP67 rated when used with LM or LF selection
IP68 rated when used with SL68 selection

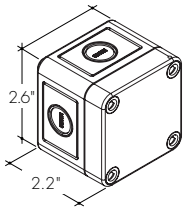
Ordering Code

MODEL	OUTPUT	CCT	SECTION START[1]	SECTION END[1]	LENGTH
LLRGBWX18WET-T-LineLED LLRGBWX18 Wet Tube LLRGBX18WET-T-LineLED LLRGBX18 Wet Tube	SO-Standard	PXSPI-Smart Pixel Control (SPI)	SL65-IP65 Soldered lead wires (72") SL68-IP68 Soldered lead wires (72") LF-IP67 Female connector LM-IP67 Male connector NC-No connector	SL65-IP65 Soldered lead wires (72") SL68-IP68 Soldered lead wires (72") LF-IP67 Female connector LM-IP67 Male connector NC-No connector	Ordered in one foot increments. See chart above for max run length.

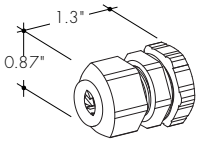
1- IP rating of strip is equal to the lowest IP rating of section start and end options.

Accessories

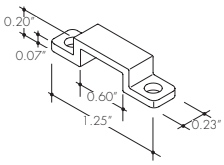
LVSP-WET
Splice box: wet rated, low voltage, gray



LVSP-WET-CM
Splice box connector, low voltage, gray

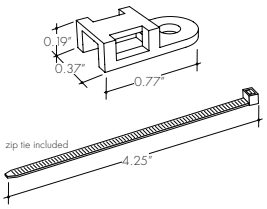


CL2
Mounting clip



Recommended at every 12" when LineLED strip is facing down.

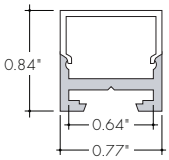
LL.ZIP
Cable/Wire Strain Relief Clip



Lens Options / Light Transmission

C	HF	GR	F	FF	R	S	Q	13°
Clear	Half (50%) Frosted	Graze	Frosted	Flat Frosted	Raised	Square Frosted	Round Square Frosted	13° Semi-Frosted

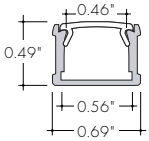
CLA Channel (CLAC-XX)



S 62% Q 65%

KM Channel (KMC-XX)

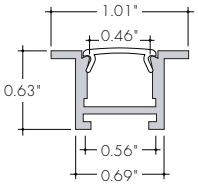
Not compatible with LF, LM, or IP68 selections



C 82% HF 68% F 45% FF 52% R 58%

KRM Channel (KRMC-XX)

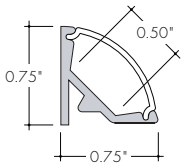
Not compatible with LF, LM, or IP68 selections



C 82% HF 68% F 45% FF 52%

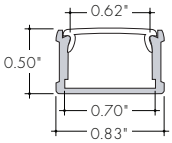
K45R Channel (K45R-XX)

Not compatible with LF, LM, or IP68 selections



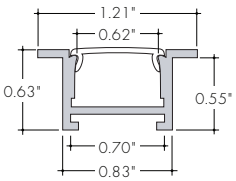
RF 61%

KXL Channel (KXLC-XX)



C 81% HF 67% F 51%

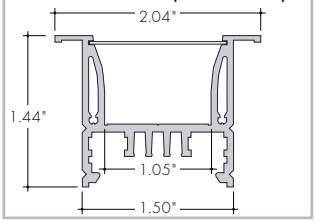
KRXL Channel (KRXLC-XX)



C 81% HF 67% F 51%

KiloR Channel (KILORC-XX)

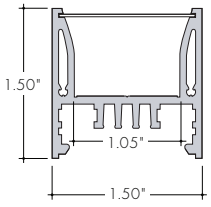
Not compatible with LF, LM, or IP68 selections



C 85% F 75%

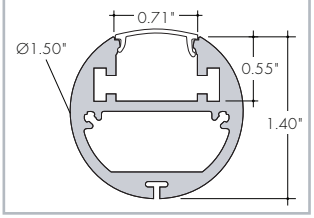
Kilo Channel (KILOC-XX)

Not compatible with LF, LM, or IP68 selections



C 85% F 75%

RO15 Channel (RO15-XX)



C 65% F 41%

Installation

All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

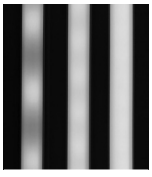
Ordering

Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc).

Led Dotting per Extrusion

using the frosted lens option

Extrusion	LED Models	
	LLRGBX18	LLRGBWX18
CLA	ND	ND
KL	CD	CD
KRL	CD	CD
KXL	SD	SD
KRXL	SD	SD
RO15	SD	SD



CD SD ND

CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting

*LUMINII RESERVES THE RIGHTS TO CHANGE SPECIFICATION & INSTRUCTION WITHOUT NOTICE

Power Consumption

Tested at full power with PDC Series power supplies.

	LLRGBX18		LLRGBWX18	
Nominal Length	W/ft	Total Wattage	W/ft	Total Wattage
1	4.6	4.6	5.7	5.7
2	4.6	9.1	5.7	11.3
3	4.5	13.1	5.7	16.5
4	4.5	17.4	5.6	21.9
5	4.4	21.7	5.5	27.1
6	4.4	25.8	5.5	32.3
7	4.3	29.8	5.4	37.1
8	4.3	33.4	5.3	41.6
9	4.2	37.2	5.3	46.4
10	4.2	40.9	5.2	51.2
11	4.1	45.7	5.1	57.4
12	4.0	49.2	5.1	61.9
13	4.0	52.3	5.0	66.0
14	3.9	55.6	4.9	69.6
15	3.9	58.8	4.8	73.0
16	3.8	61.8	4.7	76.2
17	3.7	64.0	4.6	78.4
18	3.7	66.8	4.5	81.2
19	3.7	69.4	4.4	83.6
20	3.6	72.0	4.3	86.0
21	3.6	74.6		
22	3.5	75.9		
23	3.4	78.2		
24	3.4	80.2		
25	3.3	82.3		
26	3.3	84.3		
27	3.2	85.0		
28	3.1	86.7		
29	3.1	88.2		
30	3.0	89.7		

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

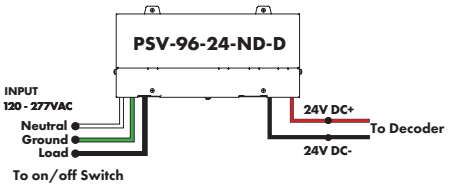
Power Supply

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

Non-Dimming Power Supply

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp

MODELS	96W
Length	8.25"
Width	3.75"
Depth	1.63"



Decoders

MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can controller endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

Features

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

Power Supply

7 VDC (included)

Programmability

PC, Mac, Tablet, Smartphone

Output Signal

DMX512 (1024 channels)

Color Parameters

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness

MODEL

SR-DMX-SPI

SR-DMX-SPI - Smart Pixel Decoder

The SR-DMX-SPI is a smart LED pixel decoder that controls RGB/RGBW pixel LED strips with SPI signal. Designed with an OLED backlit panel, the pixel controller allows for easy configuration of most settings. Four push buttons are available for control of the LED functions.

Features

- 1024 DMX channels. Control 340 RGB fixtures
- SPI signal output for RGB/RGBW pixel light control
- DMX512 controllable and RF/WIFI remote controllable
- Capable of addressing up to 1020 RGB pixels & 765 RGB pixels
- OLED panel allows for easy configuration

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case