LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V

optic arts by luminii

IP65 IP67 IP68

Features

LineLED Wet Tube is a small profile, energy efficient LED strip for IP65, IP67, and IP68 rated wet installations. LineLED Wet Tube offers excellent color quality with CRI and R9 values up to 97 as well as multiple output options and a wide angle 120° beam. With a durable but flexible circuit board, LineLED Wet Tube is also easy to install.

To maintain IP65, IP67, and IP68 rating, LineLED Wet Tube is factory sealed and bonded. Order in exact lengths required for install, LineLED Wet Tube is not field cuttable. IP rating of strip is equal to the lowest IP rating of section start and end options.

Mounting
LLED strip is equipped with 3M™ adhesive transfer tape (9472LE).

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

Approvals
IP65, IP67, and IP68 rated

Operating voltage
24 VDC

Life (L70)
50,000 hours

Warranty
3 years

CE LM80 RoHS Single Bin +/- 30 CCT c UL us LISTED TITLE 24 JA8 COMPLIANT DIM

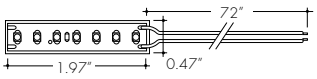
Technical information

TYPE	LL42-WET-T		
OUTPUT OPTIONS	**SO**	**HO**	**VHO**
Lumens Output (3000K)	119 lm/ft	200 lm/ft	290 lm/ft
Average Power Consumption (for a 4' section)	1.4 W/ft	2.4 W/ft	3.6 W/ft
Efficacy	85 lm/W	83 lm/W	81 lm/W
Cutting Increment (in)	1.97"		
Pitch Length	0.28"		
Max Run Length (in series)	55 ft	45 ft	35 ft
Dimensions	0.47"W x 0.24" H		

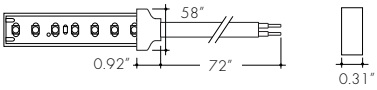
CCT	Multiplier (reference - 3000K)	TM-30 CRI	TM-30 R_f	TM-30 R_g	TM-30 R_9
2700K	0.76	97	96	101	91
3000K	1.00	97	95	104	97
3500K	1.02	97	94	105	97
4100K	1.12	97	90	99	97

Section Start/End Options

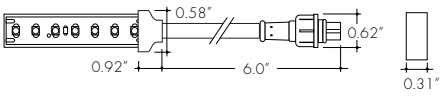
SL65
72" Soldered Leads, IP65 rated



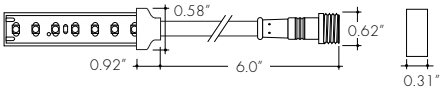
SL68
72" Soldered Leads, IP68 rated



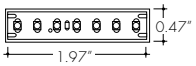
LF
Female Quick Connect End, IP67 rated



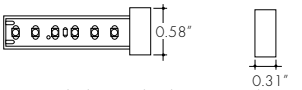
LM
Male Quick Connect End, IP67 rated



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

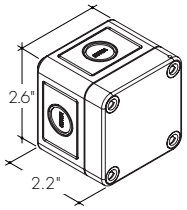
Ordering code

MODEL	OUTPUT	CCT	SECTION START[1]	SECTION END[1]	LENGTH
LL42WET-T-LineLED LL42 Wet Tube	SO-Standard HO-High VHO-Very High	27K-2700K 30K-3000K 35K-3500K 41K-4100K	SL65-IP65 Soldered lead wires (72") SL68-IP68 Soldered lead wires (72") LF-IP67 Female Quick Connect LM-IP67 Male Quick Connect NC-No Connector	SL65-IP65 Soldered lead wires (72") SL68-IP68 Soldered lead wires (72") LF-IP67 Female Quick Connect LM-IP67 Male Quick Connect NC-No Connector	Ordered in one foot increments. See chart above for max run length.

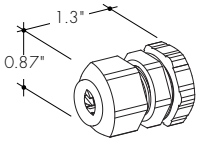
1- IP rating of strip is equal to the lowest IP rating of section start and end options.

Accessories

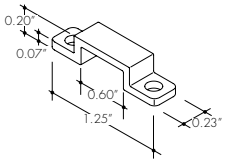
LVSP-WET
Splice box: wet rated, low voltage, gray



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

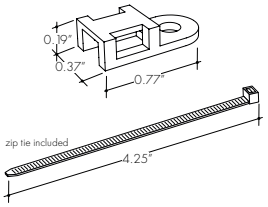


CL2
Mounting clip



Recommended every 12" when LineLED strip is facing down

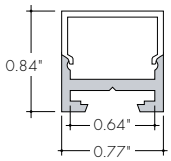
LL.ZIP
Cable/Wire Strain Relief Clip



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

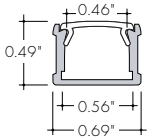
CLA Channel (CLAC-XX)



S 62% Q 65%

Not compatible with LF, LM, or IP68 selections

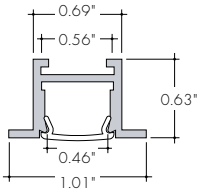
KM Channel (KMC-XX)



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

Not compatible with LF, LM, or IP68 selections

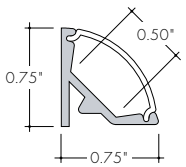
KRM Channel (KRMC-XX)



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

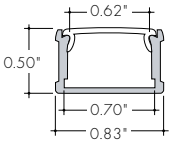
Not compatible with LF, LM, or IP68 selections

K45R Channel (K45R-XX)



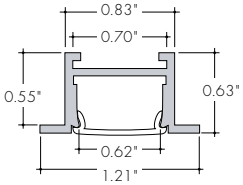
RF 61%

KXL Channel (KXLC-XX)



C 81% HF 67% F 51%

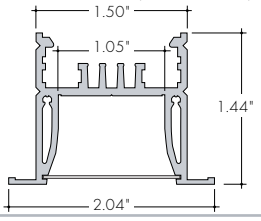
KRXL Channel (KRXLC-XX)



C 81% HF 67% F 51%

Not compatible with LF, LM, or IP68 selections

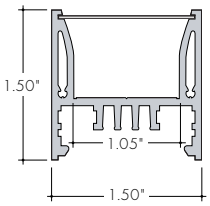
KiloR Channel (KILORC-XX)



C 85% F 75%

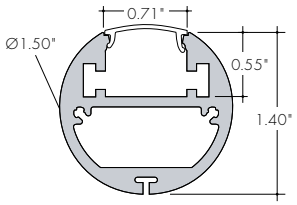
Not compatible with LF, LM, or IP68 selections

Kilo Channel (KILOC-XX)



C 85% F 75%

RO15 Channel (RO15-XX)

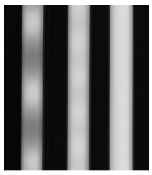


C 65% F 41%

Led Dotting per Extrusion

using the frosted lens option

Extrusion	LED Model LL42WET-T
KXLC, KRXLC	ND
KLC, KRLC	ND
KILOC, KILORC	ND
RO15	ND
KMC	ND
CLAC	ND
MCAL	ND



CD SD ND

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

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).

Power Consumption

Tested at full power with PDC Series power supplies.

LL42

Nominal Length	SO		HO		VHO	
	W/ft	Total Wattage	W/ft	Total Wattage	W/ft	Total Wattage
1	1.2	1.2	2.2	2.2	3.2	3.2
2	1.2	2.4	2.5	4.9	3.2	6.4
3	1.4	4.1	2.4	7.0	3.4	10.1
4	1.4	5.3	2.4	9.2	3.6	14.1
5	1.4	7.1	2.3	11.3	3.6	17.8
6	1.4	8.7	2.3	13.8	3.6	21.6
7	1.4	10.0	2.3	16.1	3.6	25.6
8	1.4	11.1	2.3	18.1	3.6	28.9
9	1.4	12.4	2.3	20.3	3.5	31.6
10	1.4	13.9	2.3	23.0	3.5	34.7
11	1.4	15.4	2.3	25.0	3.4	37.3
12	1.4	16.4	2.3	27.2	3.3	40.0
13	1.4	17.9	2.2	29.1	3.3	42.7
14	1.4	19.0	2.2	31.0	3.3	45.4
15	1.4	20.2	2.2	32.5	3.2	48.0
16	1.3	21.7	2.2	35.1	3.2	51.3
17	1.3	22.7	2.1	36.6	3.1	53.7
18	1.3	23.9	2.1	38.1	3.1	55.8
19	1.3	25.0	2.1	39.8	3.1	58.1
20	1.3	26.5	2.2	43.4	3.0	60.1
21	1.3	27.5	2.1	45.0	3.0	62.3
22	1.3	28.8	2.1	46.6	2.9	64.6
23	1.3	30.0	2.1	48.2	2.9	67.0
24	1.3	31.1	2.1	49.7	2.9	69.1
25	1.3	32.4	2.1	51.3	2.9	71.4
26	1.3	33.4	2.0	52.6	2.8	73.1
27	1.3	34.6	2.0	54.2	2.8	75.0
28	1.3	35.6	2.0	55.5	2.7	76.6
29	1.3	36.6	2.0	56.8	2.7	78.1
30	1.3	37.6	1.9	58.1	2.7	79.7
31	1.2	38.5	1.9	59.3	2.6	81.1
32	1.2	39.4	1.9	60.6	2.6	82.5
33	1.2	40.4	1.9	61.8	2.5	83.8
34	1.2	41.2	1.9	63.0	2.5	85.1
35	1.2	42.1	1.8	64.2	2.5	86.5
36	1.2	43.0	1.8	65.2		
37	1.2	44.0	1.8	66.4		
38	1.2	44.9	1.8	67.4		
39	1.2	45.8	1.8	68.5		
40	1.2	46.6	1.7	69.4		
41	1.2	47.3	1.7	70.3		
42	1.1	48.0	1.7	71.3		
43	1.1	48.8	1.7	72.2		
44	1.1	49.5	1.7	73.2		
45	1.1	50.1	1.6	74.0		
46	1.1	50.9				
47	1.1	51.7				
48	1.1	52.4				
49	1.1	53.1				
50	1.1	53.8				
51	1.1	54.4				
52	1.1	55.0				
53	1.1	55.7				
54	1.0	56.3				
55	1.0	56.8				

Voltage Drop Calculator

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

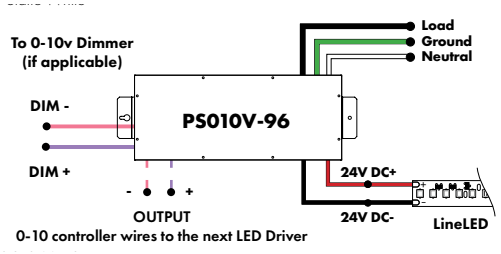
Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	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 Supplies

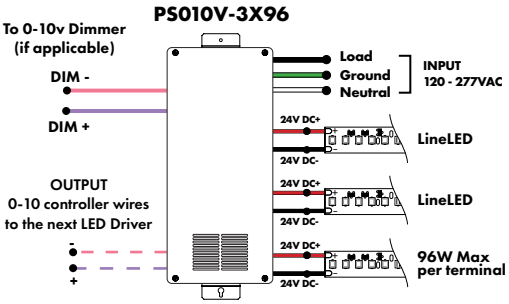
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL		POWER		OUTPUT		DIMMING
	-		-		-	
PS010V - 0-10V Power Supply dims down to 0.1%		96 - 96 Watt 3X96 - 3 X 96 Watt		24 - 24 VDC		LIN - Linear LOG - Logarithmic



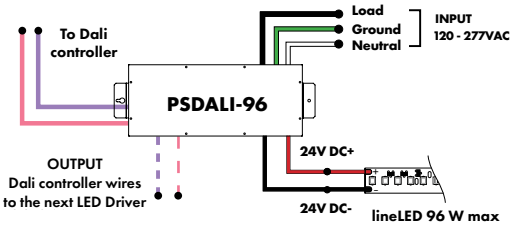
MODELS	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"



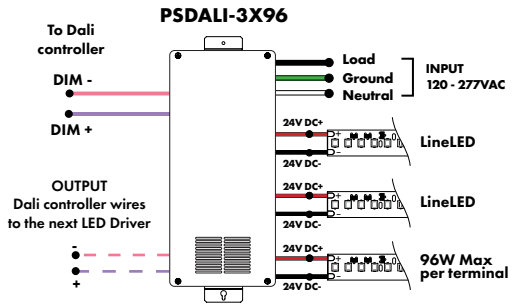
DALI 0% Dimming Power Supplies 120VAC - 277VAC

MODEL		POWER		OUTPUT
	-		-	
PSDALI - DALI Power Supply dims down to 0%		96 - 96 Watt 3X96 - 3 X 96 Watt		24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers



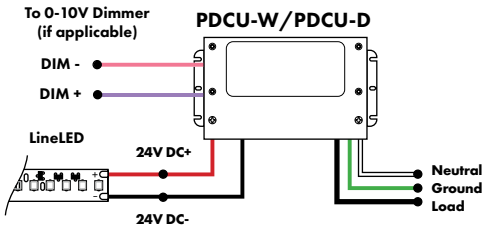
Model	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"



Universal Power Supply 1% 120VAC - 277VAC

MODEL		POWER		OUTPUT
	-		-	
PDCU-D - IP20 Dry Series		30 - 30 W 60 - 60 W 96 - 96 W 3X96 - 3X96 W		24 - 24 VDC
PDCU-W - IP66 Wet Series		96 - 96 W 3X96 - 3X96 W		

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.



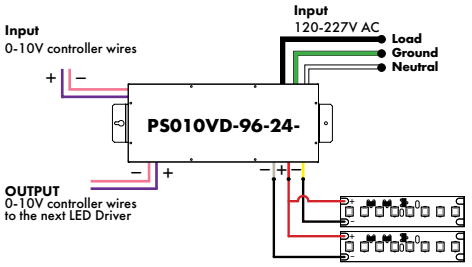
MODEL	PDCU-W-96W	PDCU-W-3X96W	PDCU-D-30W	PDCU-D-60W	PDCU-D-96W	PDCU-D-3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33	1.32"	1.56"	1.13"

Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Customizable Dim to Warm or Variable White via 0 - 10V
(for tunable white or warm dimming control of Dynamic option)

MODEL	POWER	OUTPUT	CONTROL
PS010VD - 0-10V Vintage Dim LED Driver	96 - 96 Watt	24 - 24 VDC	W2I - Standard dimming for both tapes

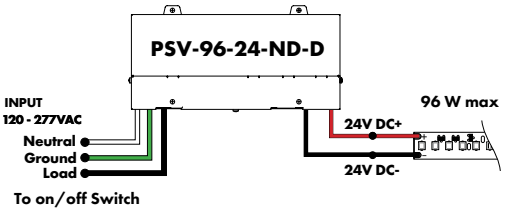


*Zonal control power supplies

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

Non-Dimming Power Supply 120VAC - 277VAC

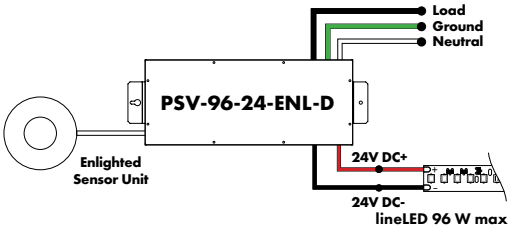
MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp



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

Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

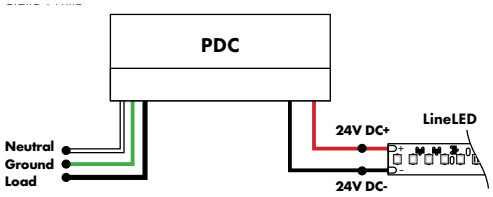
MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp



Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"

Triac, MLV, ELV Compatible Dimmers

MODEL	POWER	OUTPUT
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC



MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"

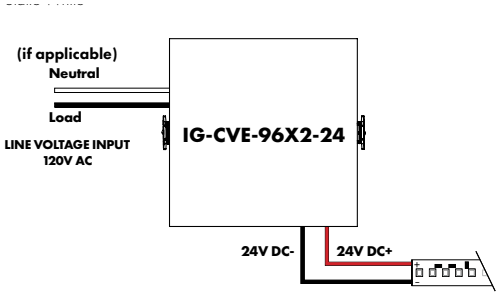
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

In-Ground Power Supplies

MODEL		POWER	OUTPUT	INPUT
IG - In ground CVE Series	CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%	96X2 - 2 X 96 Watt	24 - 24 VDC	Blank - 120 V 277 - 240/277 V

MODEL	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"



LUTRON®

Luminii is a Lutron OEM Advantage Partner

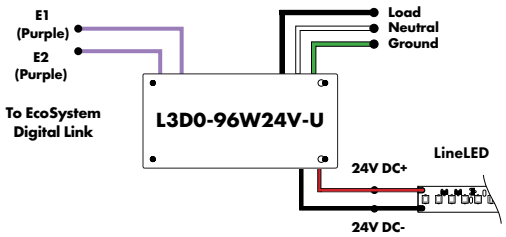
Lutron Power Supplies 0.1%

MODEL

L3D0-96W24V-U

HiLume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™ 96W max

MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"

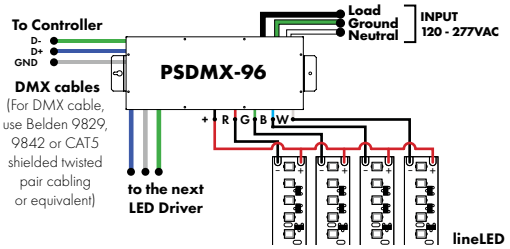


DMX Dimming Power Supplies 120VAC - 277VAC

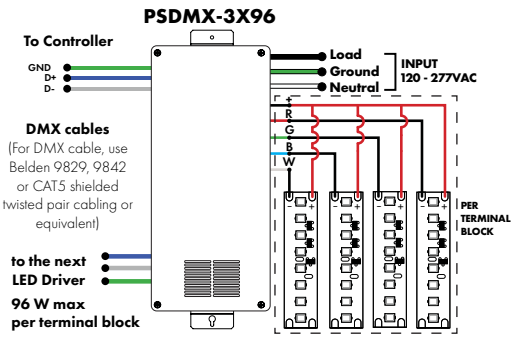
MODEL		POWER	OUTPUT
PSDMX - DMX Power Supply dims down to 0%		96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

*Zonal control power supplies. Control multiple tapes/zones using DMX channels.



MODEL	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.60"
Depth	2.60"	4.20"



Decoders

MODEL

DDMX-5CH-RDM-PRO

DDMX-5CH-RDM-PRO - DMX512 Decoder

DMX512 decoder with RDM functionality features 5 PWM output channels with common anode. High PWM output frequency range allows the product to be used in HD video conferencing spaces.
All DMX products to be installed per DMX512 Standard.

Power
96 Watt

Inputs
RJ45, XLR-5Pin, Terminal Block

DMX Channels
1 to 5 settable

PWM Output Resolution Ratio
8 or 16 bit

PWM Output Frequency
500Hz - 30KHz

Output Dimming Curve Gamma Value
0.1 ~ 9.9

MODEL

DDMX-RGBW

DDMX-RGBW - DMX512 Decoder

Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output (Luminii part# RGBW-SR).

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

Operating Temperature Range
from -4°F to +122°F in case

PWM Output Frequency
200Hz or 1500Hz

MODEL

RGBW-RC-R

RGBW-RC-R - RGBW receiver

The RGBW receiver is easily paired with controller by the click of a button. Receiver can be reset to factory settings at any time.

Each receiver can store one static RGB color, one color sequence, and one brightness setting for the white LED strip. Receivers assigned to the same scene within the same zone will have the same LED static color and color sequence.

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

Operating Temperature Range
from -4°F to +122°F in case

Decoders

MODEL

RGBW-SR

RGBW-SR - RGBW signal repeater

Extends identical signal when connected in series to an RGBW LED control system. The RGBW signal repeater works with Luminii RGB and RGBW controllers, receivers, and decoders.

RGBW signal can be extended indefinitely when adequate power supply (not included) is connected to the system.

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

Operating Temperature Range
from -4°F to +122°F in case

MODEL

RGBW-WI-R

RGBW-WI-R - WIFI generator

RGBW-WI-R creates a local network that enables any electronic device (phone, tablet, etc.) to control the RGB/W strip connected to a RGBW-RC-R receiver.

The control functions are achieved through a free application download for Android and iOS devices called REALCOLOR.

Operating Voltage
12-36 VDC

Power Supply
PI-130-24 (included)

Operating Temperature Range
from -4°F to +122°F in case

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

Legacy Conversion

Legacy LL Tapes				NEW LL Tapes			
	lm/ft	W/ft	LPW		lm/ft	W/ft	LPW
LL18WET-T	121	1.5	81	LL42WET-T-SO	130	1.4	93
LL30WET-T	190	2.5	76	LL42WET-T-HO	225	2.4	94
LL36WET-T	244	3.0	81				
LL54WET-T	353	4.5	78	LL42WET-T-VHO	320	3.6	88
LLX18WET-T	371	4.9	80				