

**Features**

LineLED Warm Dim Series Double Row is a small profile high performance LED strip. LineLED WD60X2 follows the incandescent dimming curve from 2700K at full brightness down to 1900K at the lowest dim levels. Compatibility with MLV, ELV, and Incandescent dimmers simplifies installation for residential or hospitality applications. It is easily installed directly onto the mounting surface with double sided tape or within discrete aluminum extrusions to seamlessly blend into any space. Industry-best color consistency with single-binned LEDs, 120 LEDs per foot. This High Color Quality LED strip boasts CRIs and R9 values up to 96. The durable, but flexible products feature a heavier copper board core for better heat dissipation and even illumination over long runs.



**Mounting**

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

**Operating voltage**

24 VDC

**Applications**

Indoor only - millwork, cove, architectural reveals, undercabinet, display case, handrail, accent lighting.

**Average Life (L70)**

50,000 hours

**Warranty**

7 years

**Approvals**

Class 2 damp listed



**Technical Information**

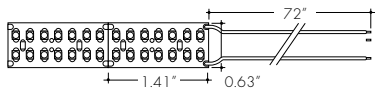
<b>TYPE</b>	<b>LLWD60X2</b>
<b>OUTPUT OPTIONS</b>	<b>VHO (19K-27K)</b>
Lumens Output (all channels full on)	657 lm/ft (27K)
Average Power Consumption (for a 4' section)	10.1 W/ft
Efficacy (all on)	65 lm/W
Cutting Increment (in)	1.41"
Pitch Length	0.2"
Max Run Length (in series)	12 ft
Dimensions	0.63"W x 0.09" H

CCT	TM-30			
	CRI	R <sub>f</sub>	R <sub>g</sub>	R <sub>9</sub>
1900K	97	94	98	95
2700K	96	95	105	96

**Section Start/End Options**

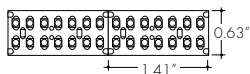
**SL**

Soldered lead wires (72")



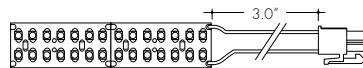
**NC**

No connector



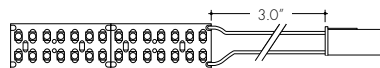
**LF**

Lead Female 3" cable



**LM**

Lead Male 3" cable

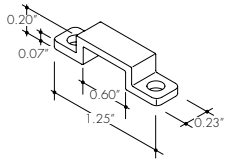


**Ordering code**

MODEL	OUTPUT	COLOR TEMPERATURE	SECTION START	SECTION END	LENGTH
LLWD60X2-LineLED WD60X2 Warm Dim	VHO-Very High	19K-27K-1900K - 2700K	SL-Soldered lead wires (72") LF-Female Quick Connect LM-Male Quick Connect NC-No Connector	SL-Soldered lead wires (72") LF-Female Quick Connect LM-Male Quick Connect NC-No Connector	Ordered in one foot increments. See chart above for max run length.

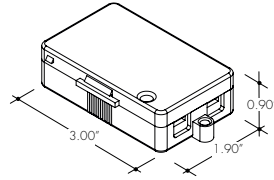
**Accessories**

**CL2**  
Mounting Clip



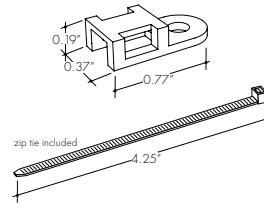
recommended at every 12" when lineLED strip is facing down.

**LVSP-4T-BK**  
Splice Box



low voltage, 4 terminal splice box, black.

**LL.ZIP**  
Cable/Wire Strain Relief Clip



Lens Options / Light Transmission

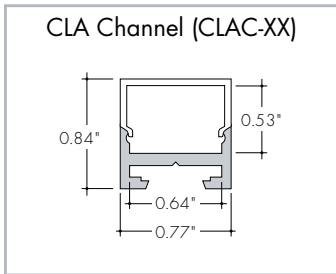
**C**  
Clear

**HF**  
Half (50%)  
Frosted

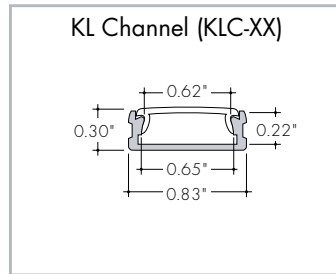
**F**  
Frosted

**S**  
Square  
Frosted

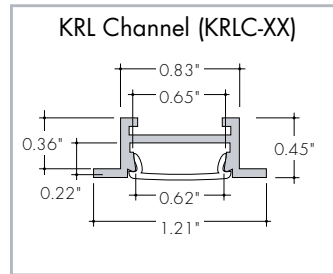
**Q**  
Round Square  
Frosted



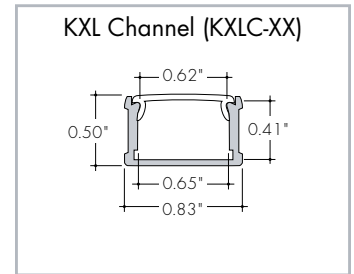
**S** 62%  
**Q** 65%



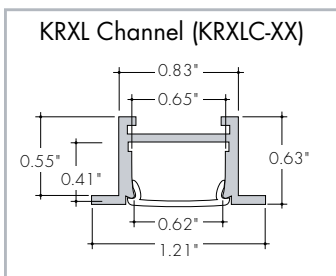
**C** 81%  
**HF** 67%  
**F** 51%



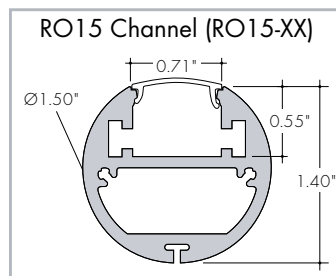
**C** 81%  
**HF** 67%  
**F** 51%



**C** 79%  
**HF** 66%  
**F** 49%



**C** 79%  
**HF** 66%  
**F** 49%



**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

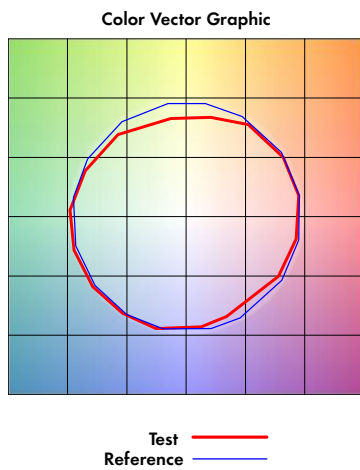
Extrusion	LED Models	
	LLWD60X2 (27K)	LLWD60X2 (19K)
<b>KL</b>	SD	CD
<b>KXL</b>	ND	SD
<b>CLA</b>	ND	ND
<b>KRL</b>	SD	CD
<b>KRXL</b>	ND	SD
<b>RO15</b>	ND	ND



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

TM-30 Color Vector Graphics

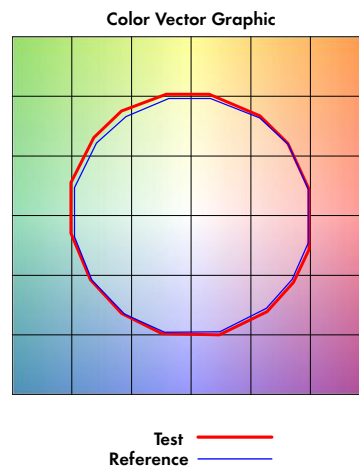
1900K



Graphic Shifts (%)

Hue Bin	Rf	Chroma	Hue
1	95.5	-0.4%	0.4%
2	90.3	-1.0%	-4.3%
3	82.5	-2.9%	-8.0%
4	82.8	-10.8%	-7.2%
5	86.6	-13.5%	-0.1%
6	84.3	-7.3%	9.4%
7	83.1	-4.1%	9.7%
8	83.3	0.8%	11.4%
9	91.8	2.1%	3.4%
10	95.6	2.1%	-0.4%
11	92.6	1.2%	-4.0%
12	88.9	1.0%	-6.1%
13	90.6	-3.1%	-7.8%
14	84.8	-7.7%	-9.2%
15	91.2	-4.4%	1.0%
16	92.5	-2.4%	0.2%

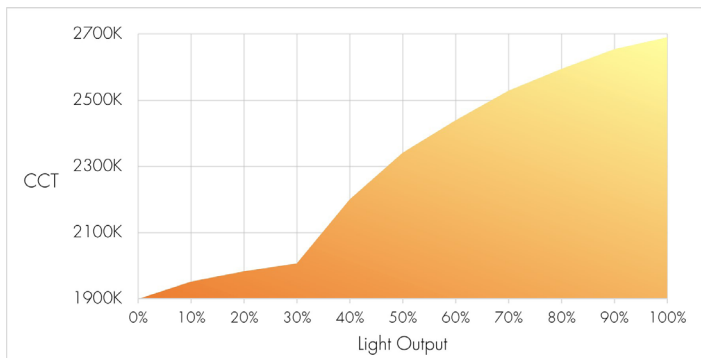
2700K



Graphic Shifts (%)

Hue Bin	Rf	Chroma	Hue
1	95.4	0.8%	-1.5%
2	96.2	1.1%	-0.1%
3	94.4	1.8%	1.2%
4	93.8	3.1%	1.2%
5	94.4	4.0%	1.8%
6	90.9	6.1%	1.0%
7	90.3	5.0%	-2.4%
8	90.5	4.4%	-3.6%
9	91.3	2.0%	-4.2%
10	93.2	0.6%	-3.7%
11	95.9	0.8%	-1.8%
12	92.9	1.7%	-2.4%
13	94.4	2.9%	-2.7%
14	94.3	3.0%	-2.7%
15	94.0	2.1%	-2.4%
16	93.2	2.0%	-4.3%

Warm Dim Curve



Brand	Model Part Number	Dimming Type	Dimming Range
Lutron	DIVA DVLV-603P	MLV	0 – 100
Lutron	DIVA DVLV-153P	MLV	0 – 100
Lutron	MRF2-6ELV-120	MLV	0 – 100
Lutron	MAESTRO WIRELESS MRF2-6ND-120	MLV	0 – 100
Lutron	SKYLARK CTCL-153P CFL/LED	MLV	0 – 100
Lutron	NOVA NVL-1000	MLV	0 – 100
Lutron	SKYLARK SLV-600P	MLV	0 – 100
Lutron	LUTRON PD-10NXD	ELV, INCAND, MLV	0 – 100
Leviton	LEVITON DECORA LED, CFL, INC	ELV, INCAND, MLV	0 – 100
Leviton	IP106-1L2 INCANDESCENT		0 – 100
Leviton	LEVITON AWSMT-MAW INC	MLV	0 – 100

Dimming Table

Voltage (V)	Dim %	Flux (lm)	CCT (K)	R9
18.2	1%	27	1933	92
19.0	10%	268	1932	93
19.8	20%	535	1977	94
20.6	30%	803	2062	97
21.4	40%	1070	2171	98
22.1	50%	1338	2294	98
22.7	60%	1606	2418	96
23.3	70%	1873	2531	96
23.8	80%	2141	2619	96
24.3	90%	2408	2671	96
24.8	100%	2676	2673	96

## Power Consumption

Tested at full power with PDC Series power supplies.

### LLWD60X2-VHO

Nominal Length	W/ft	Total Wattage
<b>1</b>	11.3	12.1
<b>2</b>	10.3	20.5
<b>3</b>	10.4	32.1
<b>4</b>	10.1	40.5
<b>5</b>	10.1	50.3
<b>6</b>	9.6	57.4
<b>7</b>	9.5	66.3
<b>8</b>	9.1	72.9
<b>9</b>	9.0	80.8
<b>10</b>	8.8	87.5
<b>11</b>	8.7	96.0
<b>12</b>	8.0	95.6

### 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

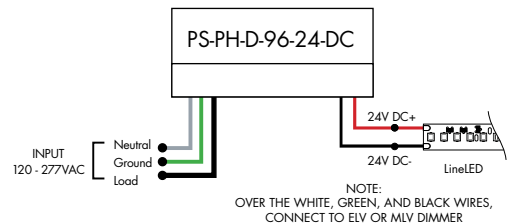
### Power Supplies

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

### Ordering Code Phase Dimming Power Supply 1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT	OUTPUT CONTROL
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PS-Power Supply, 120-277VAC	PH-Phase Dimming (Triac, ELV, MLV)	D-Dry	96-96 Watts	24-24 VDC	DC-Direct Current

MLV/ELV/TRIAC - 1% dimming, consult dimming compatibility chart [\(Link\)](#)



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