



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 singlebinned LEDs, 120 LEDs per foot. This High Color Quality LED strip boasts CRIs and R9 values up to 97. The durable, but flexible products feature a heavier copper board core for better heat dissipation and even illumination over long runs.



LLED strip is equipped with 3MTM selfadhesive tape.

Applications

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

Approvals

Class 2 damp listed

Operating voltage 24 VDC

Average Life (L70) 50,000 hours

Warranty 5 years













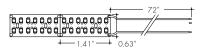
Technical Information

TYPE	LLWD60X2
OUTPUT OPTIONS	VHO (19K-27K)
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

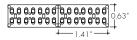
ССТ		IM	-30	
	CRI	Rf	R_g	R9
1900K	97	94	98	95
2700K	96	95	105	96

Section Start/End Options

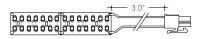
Soldered lead wires (72")



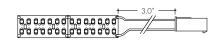
No connector



Lead Female 3" cable



Lead Male 3" cable



Ordering code



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.

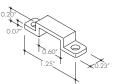


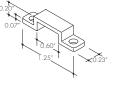
Accessories

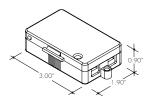
CL2 Mounting Clip

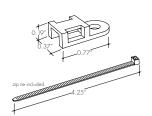
LVSP-4T-BK Splice Box

LL.ZIPCable/Wire Strain Relief Clip









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

low voltage, 4 terminal splice box, black.



Lens Options / Light Transmission











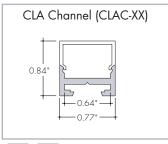






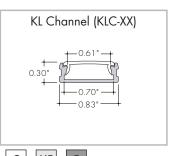




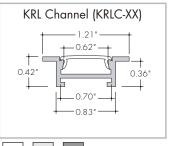




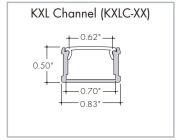
65%



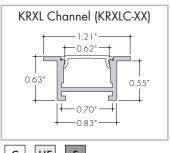




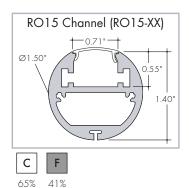












Led Dotting per Extrusion

LED Models

SD

ND

ND

SD

ND

ND

LLWD60X2 (19K)

CD

SD

CD

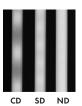
SD

ND

using the frosted lens option

Extrusion

LLWD60X2 (27K) KL KXL CLA KRL KRXL



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

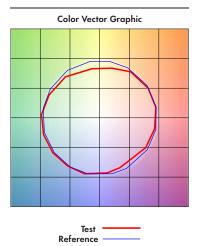
Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc).

RO15



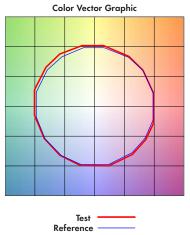
TM-30 Color Vector Graphics

1900K



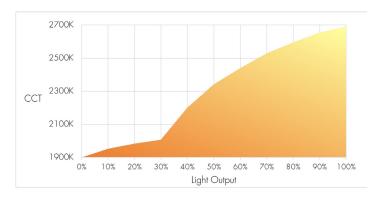
		Graphic :	Shifts (%)
Hue Bin	Rf	Chroma	Hue
1	95.5	-0.4%	0.4%
2	90.3	-1.0%	-4.3%
3	82.5	-2.9%	-8.0%
4	82.8	-10.8%	-7.2%
5	86.6	-13.5%	-0.1%
6	84.3	-7.3%	9.4%
7	83.1	-4.1%	9.7%
8	83.3	0.8%	11.4%
9	91.8	2.1%	3.4%
10	95.6	2.1%	-0.4%
11	92.6	1.2%	-4.0%
12	88.9	1.0%	-6.1%
13	90.6	-3.1%	-7.8%
14	84.8	-7.7%	-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
1	11.3	12.1
2	10.3	20.5
3	10.4	32.1
4	10.1	40.5
5	10.1	50.3
6	9.6	57.4
7	9.5	66.3
8	9.1	72.9
9	9.0	80.8
10	8.8	87.5
11	8.7	96.0
12	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		Maxi	mum Wire Lengt	h From Power Su	upply to Start of F	Run [ft]	
Wattage [W]	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.

Triac, MLV, ELV Compatible Dimmers



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

