

Features

The LineLED WD68 is a small profile and high output Warm Dim light strip. LineLED WD68 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.



Mounting

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

Applications

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

Operating voltage
24 VDC

Average Life (L70)
50,000 hours

Warranty
5 years

Approvals

Class 2 damp listed

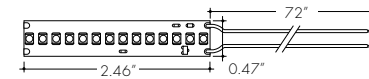


Technical information

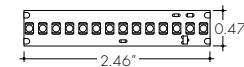
| | |
|---|-------------------|
| TYPE | LLWD68 |
| OUTPUT OPTIONS | 19K-27K |
| Lumens Output (3000k) | 348 lm/ft |
| Average Power Consumption (for a 4' section) | 5.4 W/ft |
| Efficacy | 64 lm/W |
| Max Run Length (in series) | 20 ft |
| Cutting increment | 2.46" |
| Pitch length | 0.18" |
| Dimensions | 0.47" W x 0.09" H |

Section Start/End Options

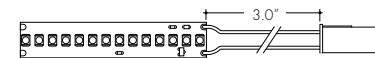
SL
Soldered lead wires (72")



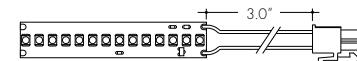
NC
No connector



LM
Lead Male 3" cable



LF
Lead Female 3" cable



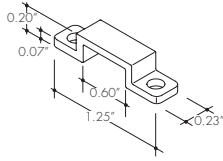
| CCT | TM-30 | | | |
|-------|-------|----------------|----------------|----------------|
| | CRI | R _f | R _g | R ₉ |
| 1900K | 96 | 92 | 96 | 94 |
| 2400K | 97 | 96 | 103 | 98 |
| 2700K | 96 | 93 | 106 | 95 |

Ordering Code

| MODEL | CCT | SECTION START | SECTION END | LENGTH |
|--------------------------------|---------------------|---|---|---|
| LLWD68 - LineLED WD68 Warm Dim | 19K-27K-1900K-2700K | SL - Soldered lead wires (72") NC - No connector LM - Lead Male LF - Lead Female | SL - Soldered lead wires (72") NC - No connector LM - Lead Male LF - Lead Female | Ordered in one foot increments. See chart above for max run length. |

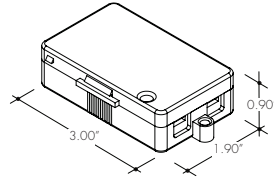
Accessories

CL2
Mounting Clip



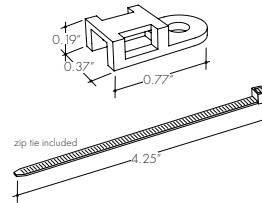
recommended at every 12" when lineLED strip is facing down.

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 | G Graze | F Frosted | FF Flat Frosted | R Raised | S Square Frosted | Q Round Square Frosted | 13° 13° Semi-Frosted |
| BOS Channel (BOSC-XX) | CLA Channel (CLAC-XX) | MCAL Channel (MCALC-XX) | K45V Channel (K45V-XX) | | | | | |
| F 52% SI 66% R 60% G 76% | S 62% Q 65% | C 94% | C 82% HF 68% F 45% 13° 75% | | | | | |
| K45R Channel (K45R-XX) | KiloR Channel (KILORC-XX) | Kilo Channel (KILOC-XX) | KL Channel (KLC-XX) | | | | | |
| RF 61% | C 85% F 75% | C 85% F 75% | C 81% HF 67% F 51% | | | | | |
| KRL Channel (KRLC-XX) | KM Channel (KMC-XX) | KRM Channel (KRMC-XX) | KS Channel (KSC-XX) | | | | | |
| C 81% HF 67% F 51% | C 82% HF 68% F 45% FF 52% R 58% G 76% | C 82% HF 68% F 45% FF 52% G 76% | C 86% HF 71% F 56% FF 60% R 85% M 64% | | | | | |
| KRS Channel (KRSC-XX) | KXL Channel (KXLC-XX) | KRXL Channel (KRXLC-XX) | RO15 Channel (RO15-XX) | | | | | |
| C 86% HF 71% F 56% FF 60% M 64% | C 81% HF 67% F 51% | C 81% HF 67% F 51% | C 65% F 41% | | | | | |

Installation

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

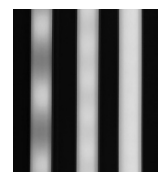
Ordering

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

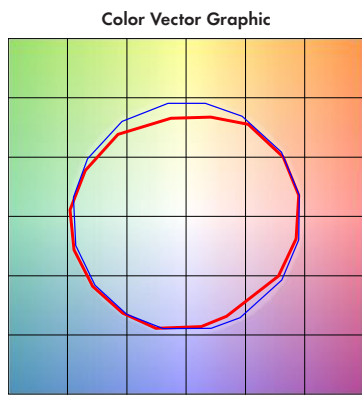
| Extrusion | LED Model LLWD68 |
|------------------------|------------------|
| KSC, KRSC | ND |
| KMC, KRMC, K45V | ND |
| KXLC, KRXLC | ND |
| KLC, KRLC | ND |
| KILOC, KILORC | ND |
| RO15 | ND |
| BOSC | ND |
| CLAC | ND |
| MCAL | ND |



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

TM-30 Color Vector Graphics

1900K

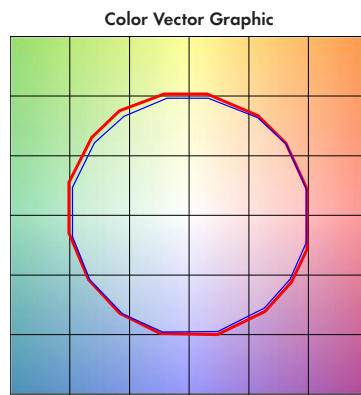


Test — (red line)
Reference — (blue line)

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

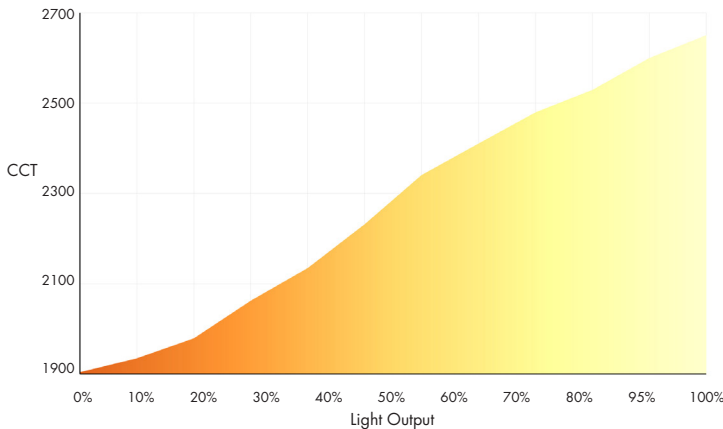


Test — (red line)
Reference — (blue line)

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 |
|-------------|-------|-----------|---------|----|
| 18.5 | 1% | 15 | 1904 | 95 |
| 19.4 | 10% | 153 | 1935 | 95 |
| 20.3 | 20% | 306 | 1979 | 98 |
| 21 | 30% | 460 | 2062 | 99 |
| 21.5 | 40% | 613 | 2135 | 98 |
| 22.2 | 50% | 767 | 2232 | 97 |
| 22.9 | 60% | 920 | 2340 | 96 |
| 23.5 | 70% | 1073 | 2410 | 96 |
| 23.8 | 80% | 1227 | 2479 | 95 |
| 24.3 | 90% | 1348 | 2529 | 96 |
| 24.8 | 100% | 1534 | 2650 | 95 |

Power Consumption

Tested at full power with PDC Series power supplies.

| Nominal Length (in) | LLWD68-19K-27K | |
|------------------------|----------------|---------------|
| | W/ft | Total wattage |
| 1 | 5.7 | 5.8 |
| 2 | 5.5 | 11.3 |
| 3 | 5.4 | 16.7 |
| 4 | 5.4 | 22.0 |
| 5 | 5.3 | 26.1 |
| 6 | 5.2 | 30.9 |
| 7 | 5.1 | 35.7 |
| 8 | 5.1 | 40.5 |
| 9 | 5.0 | 44.8 |
| 10 | 4.9 | 49.1 |
| 11 | 4.8 | 53.3 |
| 12 | 4.7 | 57.0 |
| 13 | 4.7 | 60.2 |
| 14 | 4.6 | 64.0 |
| 15 | 4.5 | 67.3 |
| 16 | 4.4 | 70.9 |
| 17 | 4.4 | 74.4 |
| 18 | 4.3 | 77.0 |
| 19 | 4.2 | 80.1 |
| 20 | 4.1 | 82.9 |

Voltage Drop Calculator

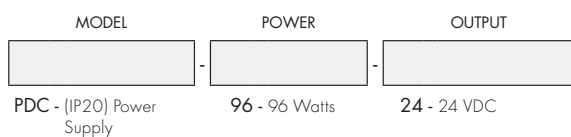
The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

| 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.

Triac, MLV, ELV Compatible Dimmers



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

