

# Dialight Lumidrives

## LUMILIGHT

### LED LIGHT ENGINES SINGLE COLOR



Patents pending

#### FEATURES / BENEFITS

- ▲ Extremely long life of 50,000 hours at 55°C PCB temperature
- ▲ Extremely narrow construction for mounting in tight spaces
- ▲ Aluminium based PCB for easier heat dissipation and more efficient operation
- ▲ Available in 6 colors (cool white, warm white, red, blue, green and amber)
- ▲ Peel & stick mounting tape for easy installation
- ▲ Units with production dates of 8/07 or later come with 22 AWG 12" lead wires pre-attached (red+ / black-)

#### OPERATING CONDITIONS

- ▲ Recommended PCB temp=55°C  
Maximum PCB temp = 105° C
- ▲ LED Life @ 55°C PCB temp = 50,000 hours
- ▲ For maximum efficiency, longevity, and performance, all "LumiLight" LED Light Engines should be screwed or glued down to an appropriate heat sink
- ▲ Maximum input current = 350mA
- ▲ Thermal conductivity = 1.3W/m-k
- ▲ Breakdown voltage = 2kV

#### MECHANICAL DIMENSIONS

Height = 7mm (0.27")  
 LumiLight 3: 324mm X 13.5mm (12.76" x 0.53")  
 LumiLight 6: 324mm X 13.5mm (12.76" x 0.53")  
 LumiLight 9: 324mm X 13.5mm (12.76" x 0.53")  
 Lead wire length = 304.8mm (12") (On equipped models)

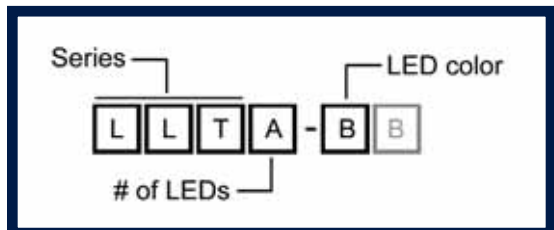
#### APPLICATIONS

- ▲ Display case lighting
- ▲ Cove lighting
- ▲ Wall washing
- ▲ Any application requiring efficiency & long life in a linear light pattern

#### MATERIALS/FINISH

- ▲ LUXEON® I LEDs
- ▲ 1.6mm Aluminium clad PCB substrate
- ▲ White solder resist finish

#### PART NUMBERS



##### # of LEDs (A)

3 = 3 LEDs / LumiLight 3  
 6 = 6 LEDs / LumiLight 6  
 9 = 9 LEDs / LumiLight 9

##### LED Color (BB)

W = Cool White  
 WW = Warm White  
 R = Red  
 G = Green  
 B = Blue  
 A = Amber

Dialight reserves the right to make changes at any time in order to supply the best product possible.

**Dialight Corporation**

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Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • [www.dialight.com](http://www.dialight.com)



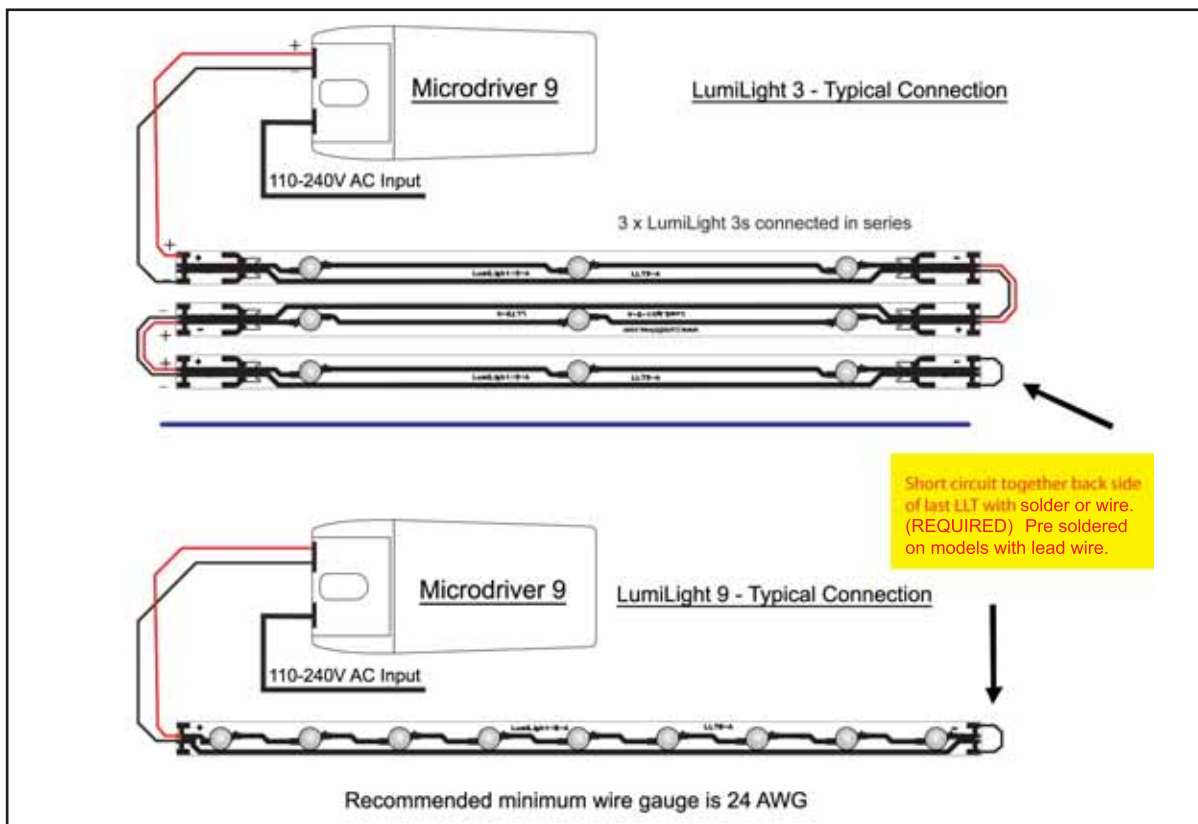
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## TYPICAL LED PHOTOMETRIC DATA

| LED                                                                               | Color      | Forward Voltage (Typ) | Max. Current (mA) | Max. Power (Watts) | Dom Wavelength / CCT |        |         | Min Luminous Flux (lm) / Radiometric Power (mW) | Typ Luminous Flux (lm) / Radiometric Power (mW) |
|-----------------------------------------------------------------------------------|------------|-----------------------|-------------------|--------------------|----------------------|--------|---------|-------------------------------------------------|-------------------------------------------------|
|                                                                                   |            |                       |                   |                    | Min                  | Typ    | Max     |                                                 |                                                 |
|  | Red        | 2.95                  | 350               | 1.03               | 620.5 nm             | 627 nm | 645 nm  | 30.6 lm                                         | 44 lm                                           |
|  | Green      | 3.42                  | 350               | 1.20               | 520 nm               | 530 nm | 550 nm  | 30.6 lm                                         | 53 lm                                           |
|  | Royal Blue | 3.42                  | 350               | 1.20               | 440 nm               | 455 nm | 460 nm  | 145 mW                                          | 220 mW                                          |
|  | White      | 3.42                  | 350               | 1.20               | 4500 K               | 5500 K | 10000 K | 30.6 lm                                         | 45 lm                                           |
|  | Amber      | 2.95                  | 350               | 1.03               | 584.5 nm             | 590 nm | 597 nm  | 23.5 lm                                         | 42 lm                                           |
|  | W White    | 3.42                  | 350               | 1.20               | 2850 K               | 3300 K | 3800 K  | 13.9 lm                                         | 20 lm                                           |

Results are LED manufacturer's test data @ 25°C JTC. Light output at 55°C PCB temperature will be approximately 15-20% lower. Elevated temperatures will result in further degradation of light output. For maximum performance use appropriate heat sinking.

## ELECTRICAL SPECIFICATIONS



Maximum current input 350mA  
 Maximum power consumption 1.2W per LED for White / Blue / Green  
 1.0W per LED for Red / Amber

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