



# LINKLED RGB EDGE-LIT LED LIGHT ENGINE



## FEATURES / BENEFITS

- ▲ Extremely long life of 50,000 hours at 55°C PCB temperature
- ▲ Modular “Plug & Play” system for flexible design in curved or unusually shaped areas.
- ▲ Red, blue and green LEDs allow for infinite number of colors (RGB controller/driver required)
- ▲ Aluminum based PCB for easier heat dissipation and more efficient operation
- ▲ Available Color Kinetics pass through license, consult factory for details

## OPERATING CONDITIONS

- ▲ Recommended PCB temp=55°C (131°F)  
Maximum PCB temp = 105°C (221°F)
- ▲ LED Life @ 55°C PCB temp = 50,000 hours
- ▲ For maximum performance, all “LinkLED” LED Light Engines should be adhered to an appropriate heat sink using adhesive backing (provided)
- ▲ Recommended drivers = Color driver DMX, Color driver RF, or Color driver SL
- ▲ Thermal conductivity = 1.3W/m-k
- ▲ Breakdown voltage = 2kV

## APPLICATIONS

- ▲ Retail and lighting
- ▲ Point of sale lighting
- ▲ Back lighting
- ▲ Illuminated shelving
- ▲ Signage display
- ▲ Advertising
- ▲ Any application requiring dynamic color changing, efficiency, and long life to illuminate edge-lit glass and acrylics.

## MECHANICAL DIMENSIONS

Length = 32mm (1.26")  
 Width = 28mm (1.10")  
 Height = 8.6mm (0.34")

## MATERIALS/FINISH

- ▲ LUXEON® I LEDs
- ▲ 1.6mm Aluminum clad PCB substrate

## PART NUMBERS

|             |
|-------------|
| Part Number |
| LK3-EL-RGB  |

Recommended Cables:  
 CT4-100 = 4 way link lead 100mm (3.9")  
 CT4-200 = 4 way link lead 200mm (7.9")  
 CT4-C = 4 way common connector  
 CDL-M3M = 8 way Molex, male to male  
 CT4-MLXF = 4 way connect to 8 way Molex

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

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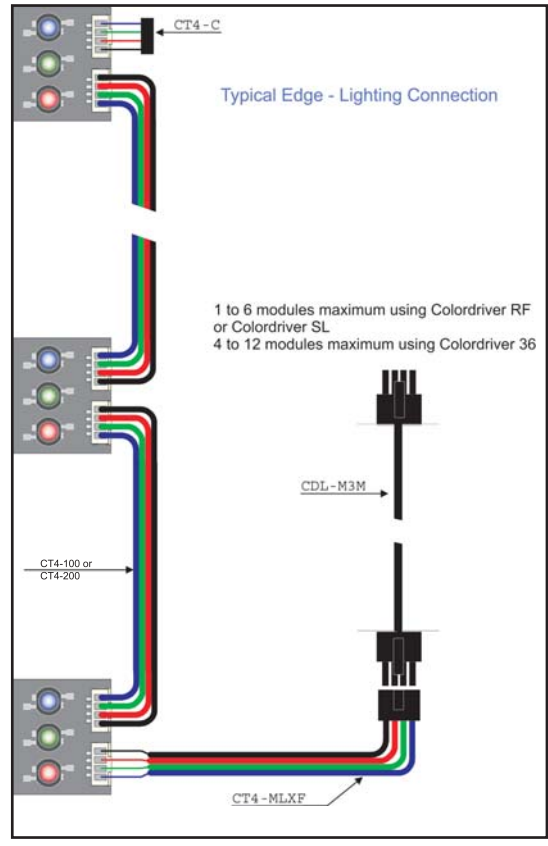
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## WIRING INFORMATION



## 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  |

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

*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.*

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