

# Dialight

## LINKLED K2 LED LIGHT ENGINES



### FEATURES / BENEFITS

- ▲ 70% lumen maintenance at 50,000 hours at 55°C PCB temperature
- ▲ Modular “Plug & Play” system for flexible design in curved or unusually shaped areas.
- ▲ Specify with additional amber or white LEDs (-RGBA and -RGBW) for warmer colour temperatures
- ▲ 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  
Maximum PCB temp = 80°C
- ▲ LED Life @ 55°C PCB temp = 50,000 hours
- ▲ For maximum performance, all “LinkLED-K2” LED Light Engines should be adhered to an appropriate heat sink using adhesive backing (provided)
- ▲ Recommended drivers = Colordriver 36 or XP
- ▲ Thermal conductivity = 1.3W/m-k
- ▲ Breakdown voltage = 2kV

### APPLICATIONS

- ▲ Architectural
- ▲ Cove and cornice lighting
- ▲ Decorative
- ▲ Accent
- ▲ Color Washing
- ▲ Night clubs, restaurants, and bars
- ▲ Any application requiring dynamic color changing, efficiency, long life, and flexibility in size and shape of light source.

### MATERIALS/FINISH

- ▲ LUXEON® K2 LEDs
- ▲ 1.6mm Aluminum clad PCB substrate
- ▲ White solder resist finish
- ▲ Optic LinkLED K2s come with 3 degree spot optic (OPK2-1-003)

### ACCESSORIES (SOLD SEPARATELY)

- ▲ **OPAA-1-DF** 6° Diffused Optics Sub-lens
- ▲ **OPAA-1-WSL** 12° Wide Optics Sub-lens
- ▲ **OPAA-1-OSL** 4° x 27° Oval Optics Sub-lens  
*All angles are half divergence*
- ▲ **CDU-L-335-DMX** 3-channel colour driver  
*RGB versions only*

### ORDERING INFORMATION

#### K2 LinkLEDs:

<b>LK2-RGB</b>	RGB
<b>LK2-RGBA</b>	RGBA
<b>LK2-RGBW</b>	RGBW
<b>LKK2-OP-RGB</b>	RGB w/ optic
<b>LKK2-OP-RGBA</b>	RGBA w/ optic
<b>LKK2-OP-RGBW</b>	RGBW w/ optic

#### Quick Connect Cables:

<b>CT8-125-100</b>	= 8 way link lead 100mm
<b>CT8-125-200</b>	= 8 way link lead 200mm
<b>CT8-CK</b>	= 8 way end connector
<b>CT8-125-3E</b>	= 8 way link lead to wire ends (3m)

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

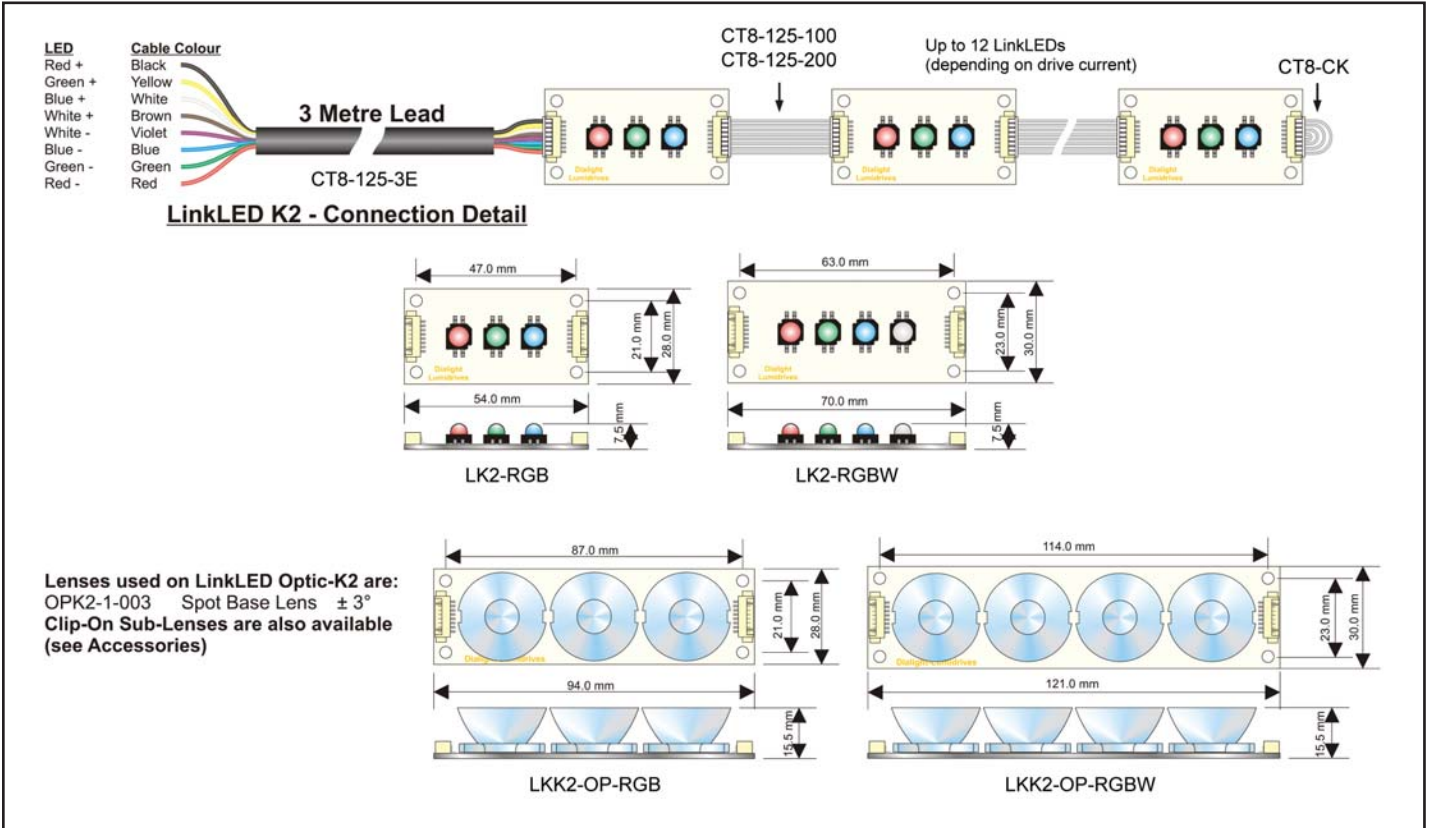
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# WIRING INFORMATION



# MECHANICAL DIMENSIONS

PRODUCT	LENGTH	WIDTH	HEIGHT	MOUNTING HOLE SPACING
LK2-RGB	54.0mm (2.13")	28.0mm (1.10")	7.5mm (0.30")	47 x 21mm (1.85" x 0.83")
LK2-RGBA / LK2RGBW	70.0mm (2.76")	30.0mm (1.18")	7.5mm (0.30)	63 x 23mm (2.48" x 0.91")
LKK2-OP-RGB	94.0mm (3.70")	28.0mm (1.10")	15.5mm (0.61")	87 x 21mm (3.43" x 0.83")
LKK2-OP-RGBA / LKK2-OP-RGBW	121.0mm (4.76")	30.0mm (1.18")	15.5mm (0.61")	114 x 21mm (4.49" x 0.91")

# TYPICAL LED PHOTOMETRIC DATA

LED	Color	Forward Voltage (Typ)	Max. Current (mA)	Dom Wavelength / CCT			Luminous Flux or Radiometric Power (lm or mW)		
				Min	Typ	Max	350mA	700mA	1000mA
	Red	2.96	700	620nm	627nm	645nm	36lm	60lm	-
	Green	3.42	1000	520nm	530nm	550nm	36lm	62lm	80lm
	Royal Blue	3.42	1000	440nm	455nm	460nm	176mW	294mW	380mW
	White	3.42	1000	4500°K	6500°K	10000°K	36lm	62lm	80lm
	Amber	2.96	700	584nm	590nm	597nm	36lm	60lm	-

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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