

Fingerboard RGB

RGB LED Module

Area-Filling Light Source

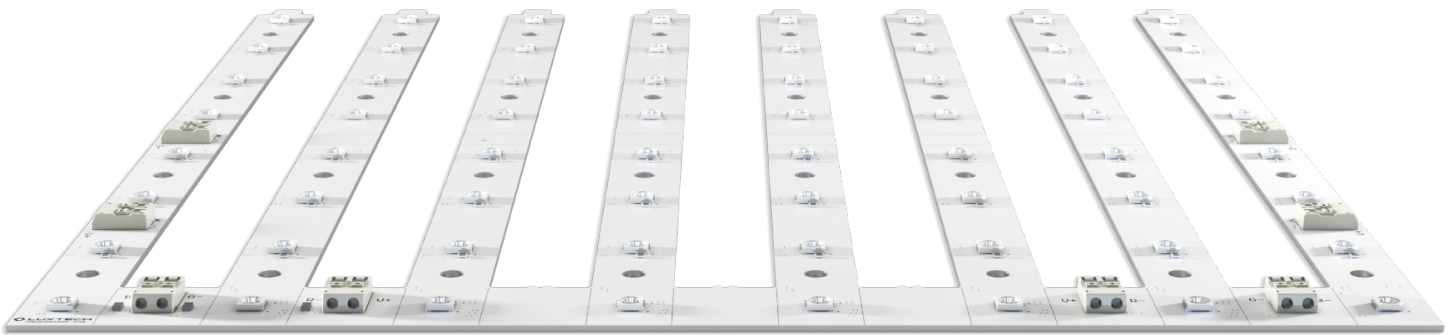


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[Request Samples & Pricing Here](#)

About LUXTECH

LUXTECH Designs & Produces Versatile, Specification-Grade LED Modules for Architectural Lighting Manufacturers.

Product Description

LUXTECH's Fingerboard is designed to make high quality area illumination easier than ever before. Fingerboard RGB combines a 3 in 1 RGB LED package, poke-in connectors, and a cuttable sections every half finger for a more precise fit in any size area.

Technical Specifications

Mechanical Information:

- » PCB Material: 1.6mm FR4
- » Cuttable Every 1/2 Finger
- » LED Pitch: 1.38 in
- » Dimensions: 10.6 in x 10.6 in
- » Screw Size: #8, M4
- » Specification-Grade 3M 300LSE Adhesive Backing

Photometric Performance:

- » Board to Board Color Uniformity
- » Beam Angle: 120°
- » 90+ CRI Standard
- » 3-Step MacAdam Ellipse Color Binning

Electrical Information:

- » Poke-In Connectors
- » RGB-in-one LEDs
- » 24V Constant Voltage Input, Common Anode
- » DMX Controllable in 4 channels
- » On Board ESD Protection
- » Power Draw: 20.3 W/Board
- » Wire Size: 18-24 AWG, solid or stranded

Lifetime Information:

- » 5-Year Warranty

[Request Samples & Pricing Here](#)

REQUESTING SAMPLES & PRICING

Product Name	Color Temp	CRI
Fingerboard-RGB	30K*	90*
	35K*	
	40K	
	50K	
	65K	

*Normally Stocked

Example: Fingerboard-RGB-30K-90

ELECTRICAL CHARACTERISTICS

Assuming 35K, 90 CRI, 45 °C

RED	
Current (mA/board)	312
Voltage (V)	24.0
Flux (mcd/board)	25,600

GREEN	
Current (mA/board)	291
Voltage (V)	24.0
Flux (mcd/board)	5,120

BLUE	
Current (mA/board)	291
Voltage (V)	24.0
Flux (mcd/board)	12,800

*LUXTECH maintains a tolerance of 7% on flux measurements.

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ABSOLUTE MAXIMUM RATINGS

RED	
Current (mA/board)	344
Voltage (V)	26
Temperature (°C)	85

GREEN	
Current (mA/board)	320
Voltage (V)	26
Temperature (°C)	85

BLUE	
Current (mA/board)	320
Voltage (V)	26
Temperature (°C)	85

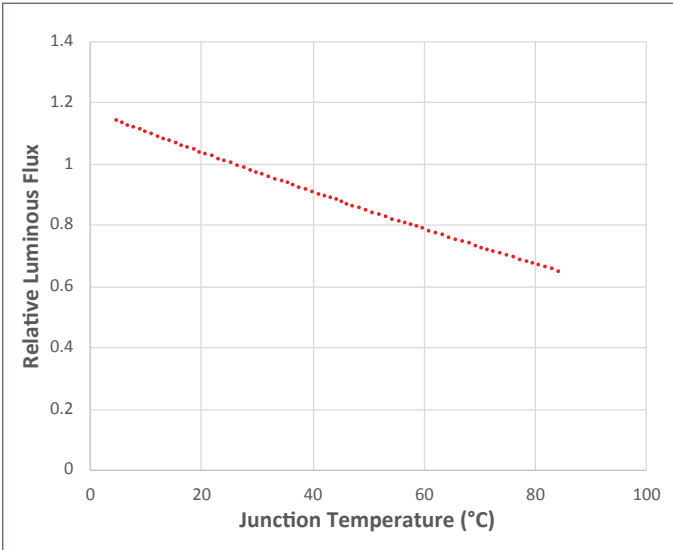
COMPONENTS	
Max Connector Current (Common Anode)	9
Max Connector Current (3x Cathode)	3

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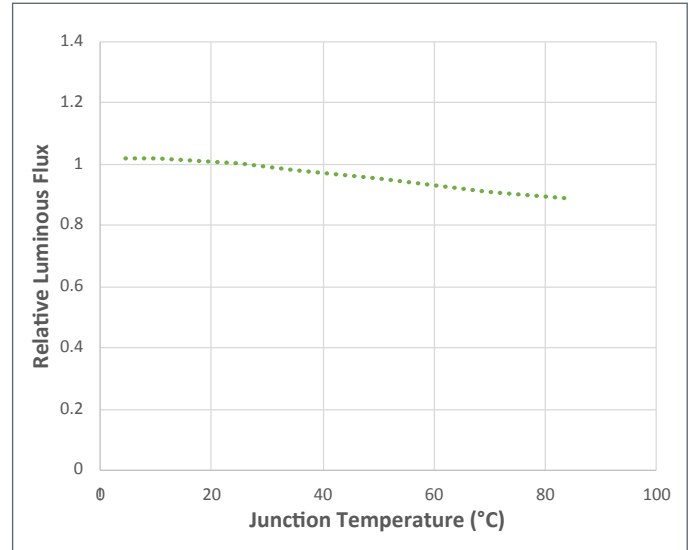
DERATING

FLUX VS. TEMPERATURE

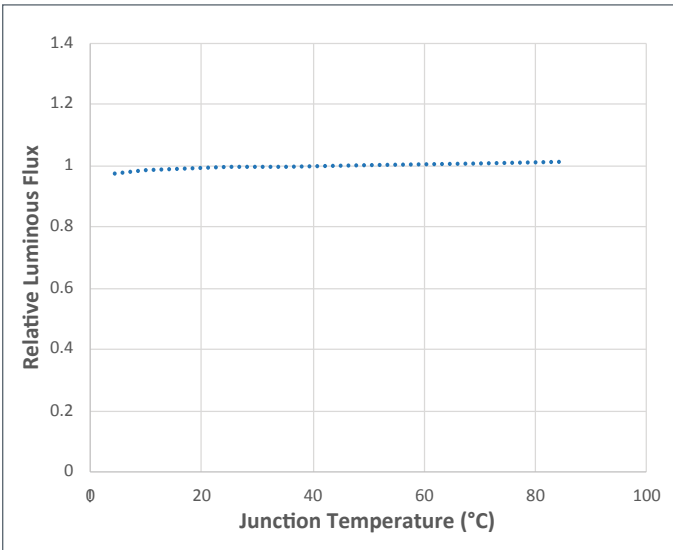
RED



GREEN



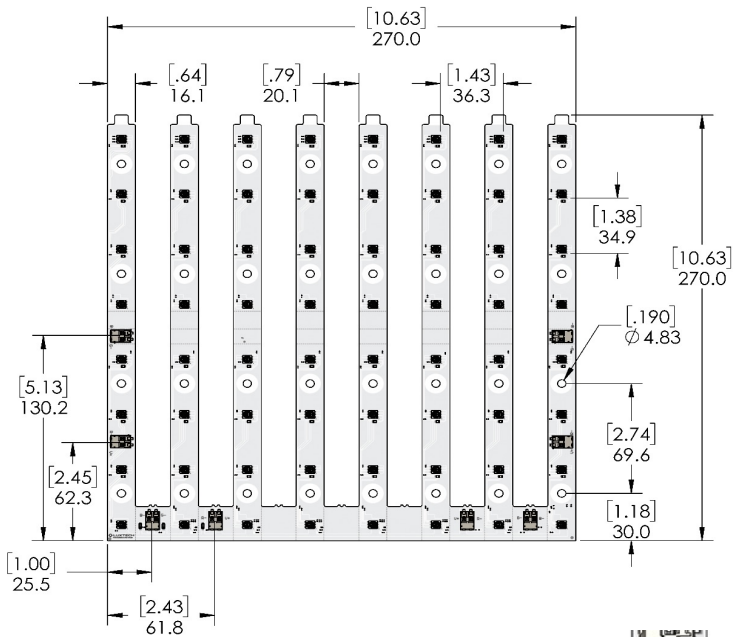
BLUE



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MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



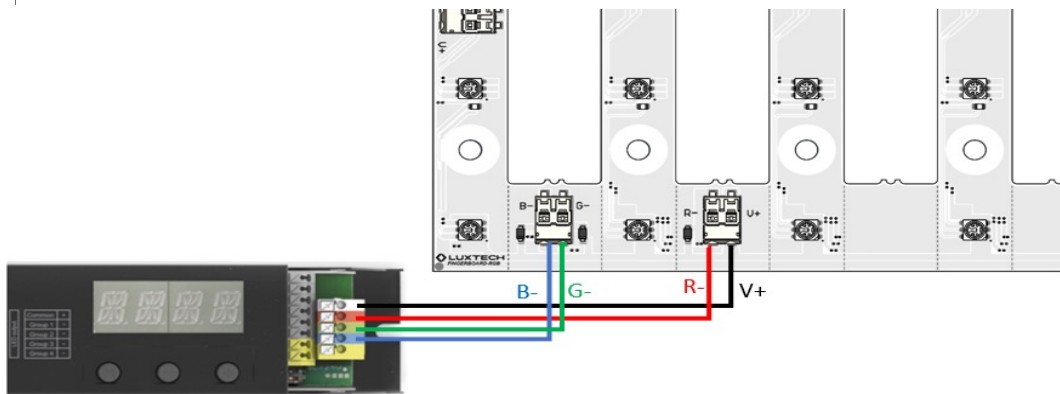
PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION
Width	10.63"
Height	10.63"
PCB Thickness	0.063"
Mounting Hole Diameter	0.19"
Module Thickness, to Connector Top	0.22"

WIRING

PARAMETER	SPECIFICATION
Wire Size	18-24 AWG

Units: [inches] mm



RECOMMENDED COMPATIBLE DRIVERS

BRAND	MODEL	PROGRAMMABLE DRIVE CURRENT (MA)	OUTPUT VOLTAGE (V)	DIMMING
EldoLED	LINEARdrive	1000 per output	12-24	DMX / DALI

CONTROLLER SELECTION

RECOMMENDED BRANDS	MODEL	CONTROL TYPE	NEEDED ACCESSORIES
Lunatone	DALI Touchpanel	DALI	Lunatone PS2 30mA DALI Bus Power supply
Sunricher	SR-2812B(US)	DMX	12-24VDC Power Supply

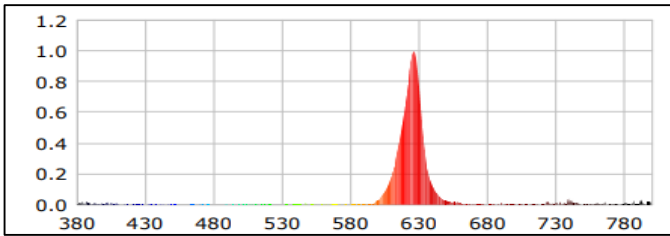
 Design resources: Performance Calculator and CAD files available at LUXTECH.com

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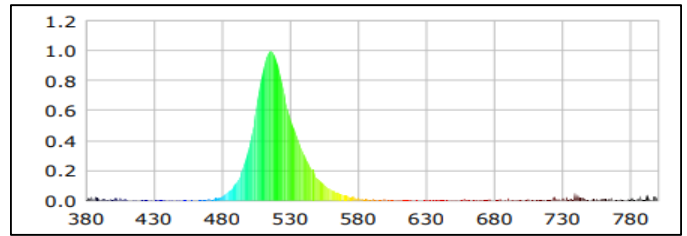
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION

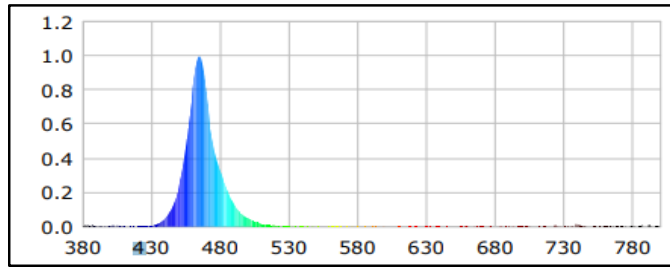
Red



Green

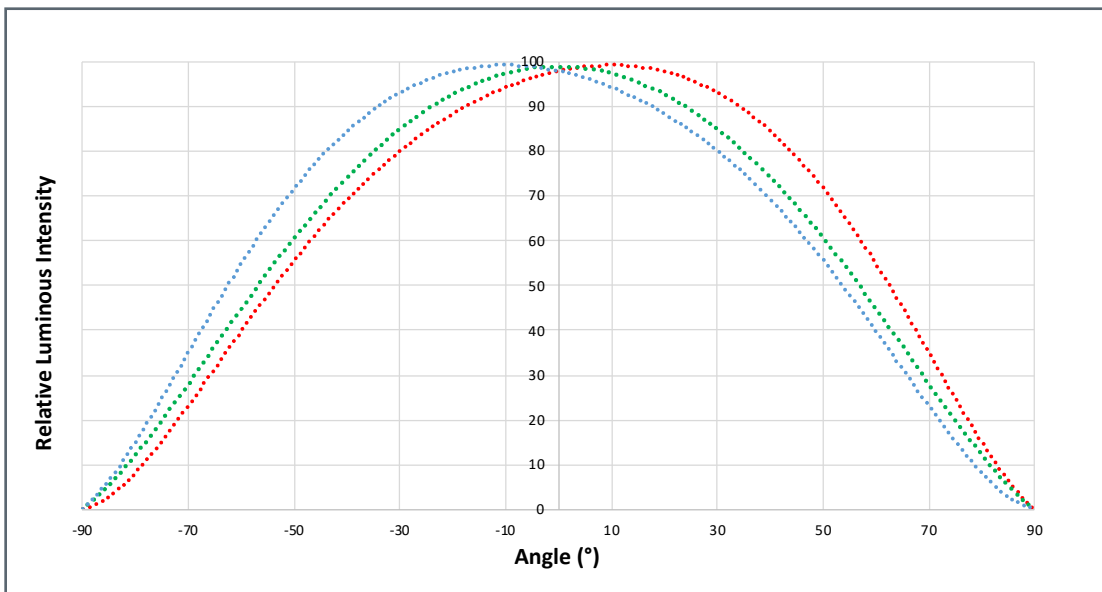


Blue



BEAM ANGLE

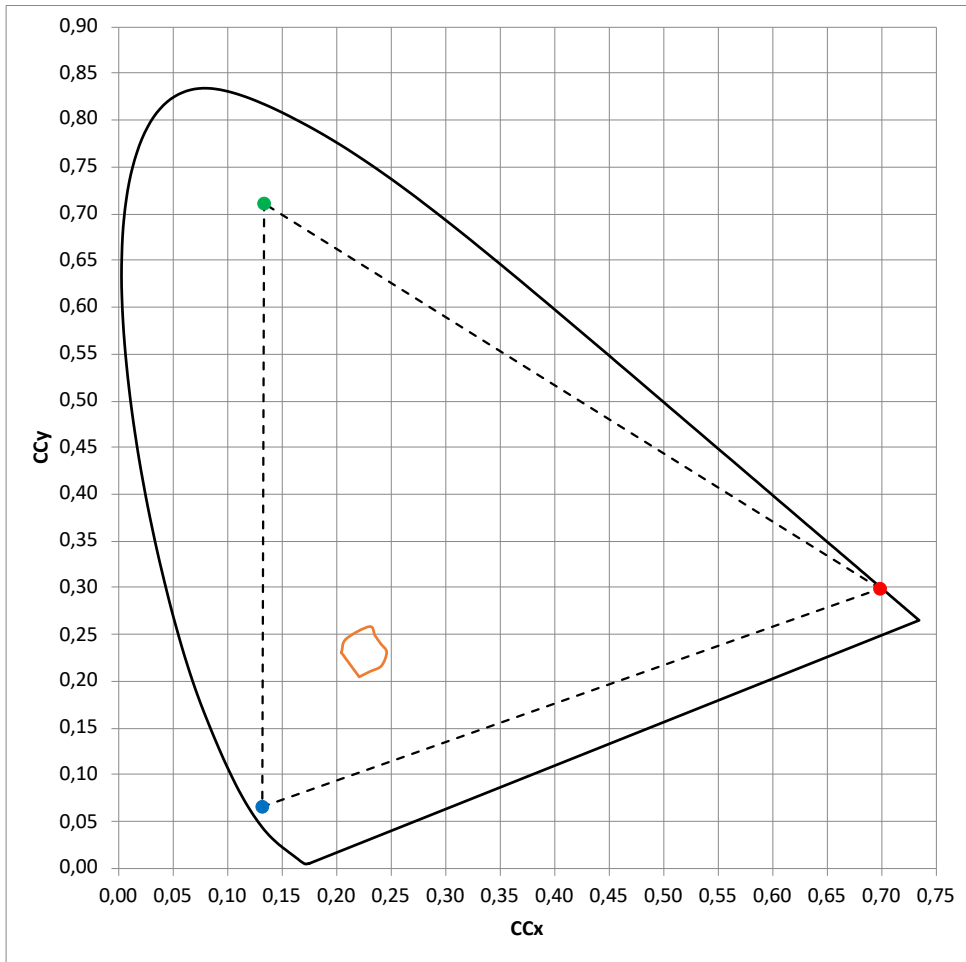
RGB



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COLOR BINNING INFORMATION

RGB WHITE BIN



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ORDERING CODES

Product Name	Color Temp	CRI
Fingerboard-RGB	30K*	90*
	35K*	
	40K	
	50K	
	65K	

*Normally Stocked

Example: Fingerboard-RGB-30K-90

IF CUSTOMIZATION IS REQUIRED: CONTACT SALES: SALES@LUXTECH.COM

PROTOTYPING

- » 3.5 week lead time for new design prototypes

SINGLE ORDER

- » MOQ: 250 pieces per SKU
- » Typical lead time: 6-8 weeks

BLANKET ORDER

- » MOQ: 1,000 pieces per SKU
 - » Minimum release size: 250 pieces
 - » Quantity per SKU must be specified
- » 2.5 week lead time for blanket releases
- » 6-8 week set up time for first release

- » 6 month term from first release
- » Shipment of balance at end of term

EXPEDITE SERVICES

- » Dedicated expedite facility can turn jobs in as little as 1 week