

Fingerboard CC-BW

White LED Module

Area-Filling Light Source



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About LUXTECH

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

Product Description

LUXTECH's Fingerboard CC-BW is designed to make high quality area illumination easier than ever before. Each LED is integrated with a wide angle optic that minimizes the required diffusion depth required for planar uniformity in back lighting. The constant current layout is cuttable between every LED for a more precise fit in any size area, and stocked with 90+ CRI LEDs standard.

Technical Specifications

Mechanical Information:

- » Cuttable Between Every LED
- » PCB Material: 1.6mm FR4
- » Dimensions: 10.6 in x 10.6 in
- » Screw Size: #8, M4

Photometric Performance:

- » Nominal Lumen Output: 1200 lm/board (3500K, 90CRI)
- » Nominal Efficacy: 140 lm/W (3500K, 90CRI, 1200 lm/board)
- » CCT Range: 2700K - 6500K
- » 90+ CRI Standard
- » 3-Step MacAdam Ellipse Color Binning

Electrical Information:

- » Poke-In Connectors
- » Forward Voltage: 33V (3500K, 90CRI, 1200 lm/board)
- » Compatible with Industry-Standard 36V Drivers (0-2.8A)
- » 1 oz Copper
- » On Board ESD Protection
- » Wire Size: 18-24 AWG, solid or stranded

Lifetime Information:

- » LM-80 Tested LEDs by CREE
- » L80 > 72,000 Hrs for $T_s = 55^{\circ}\text{C}$, 42mA Per Section
- » L80 = 60,500 Hrs for $T_s = 105^{\circ}\text{C}$, 42mA Per Section
- » 5-Year Warranty

[Request Samples & Pricing Here](#)

REQUESTING SAMPLES & PRICING

Product Name	Color Temp	CRI	Adhesive
Fingerboard-CC-BW	27K*	80*	*NT (No Tape Backing)
	30K*	90*	
	35K*		
	40K*		
	50K		
	65K		

*Normally Stocked

Example: Fingerboard-CC-BW-35K-90-NT*

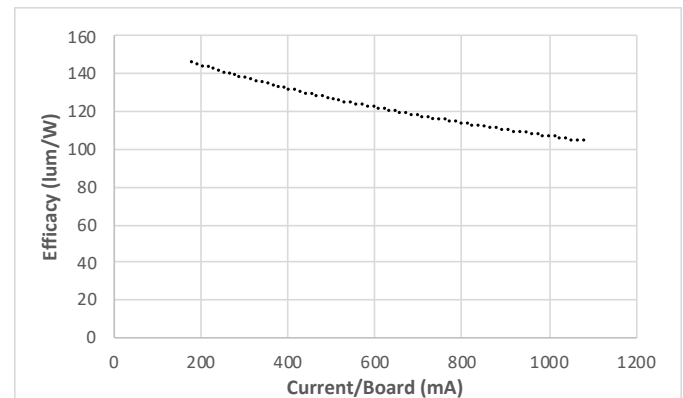
ELECTRICAL CHARACTERISTICS

Assuming 35K, 90 CRI, 45 °C

PER BOARD						
Current (mA)	90	180	360	540	810	1080
Voltage (V)	32.0	32.7	33.9	35.0	36.3	37.2
Flux (lm)	416	822	1600	2330	3328	4196

*Performances will vary based on installation and thermal conditions.

EFFICACY VS. CURRENT



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

ABSOLUTE MAXIMUM RATINGS

Assuming 35K, 90 CRI, 45 °C

PER BOARD	
Current (mA)	1080
Voltage (V)	39
Flux (lm)	4196
Temperature (°C)	95

*Max ratings determined from LED Specifications.

COMPONENTS	
Max Connector Current (A)	9

LUXTECH advises to measure the solder point temperature (T_s) of each application to confirm it is below our recommended max temperature.

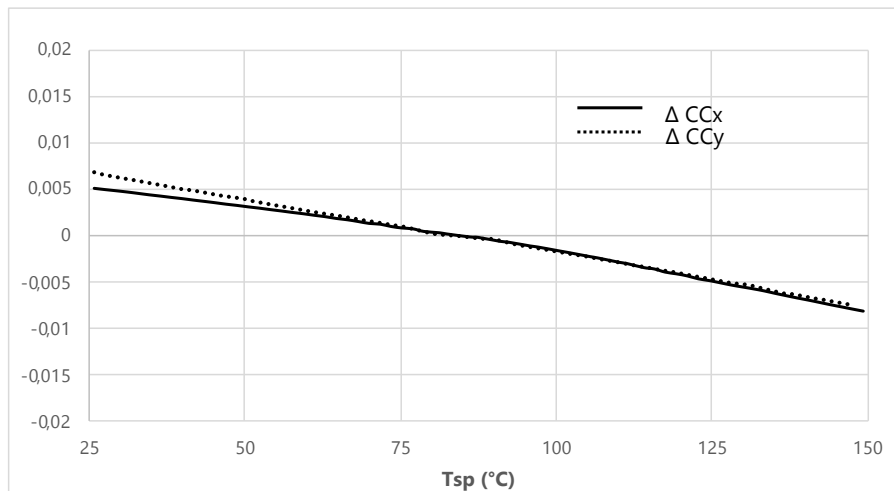
[Request Samples & Pricing Here](#)

DERATING

COLOR TEMPERATURE (90CRI)	LIGHT OUTPUT
2700K	93%
3000K	98%
3500K	100%
4000K	103%
5000K	103%
6500K	103%

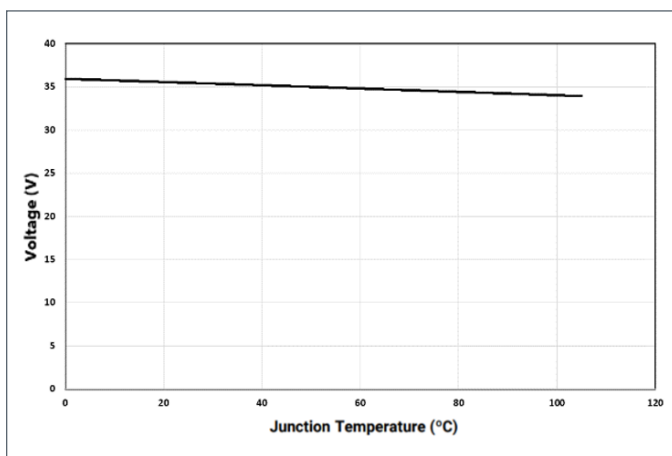
CRI	LIGHT OUTPUT
80 CRI	118%
90 CRI	100%

CHROMATICITY VS. TEMPERATURE

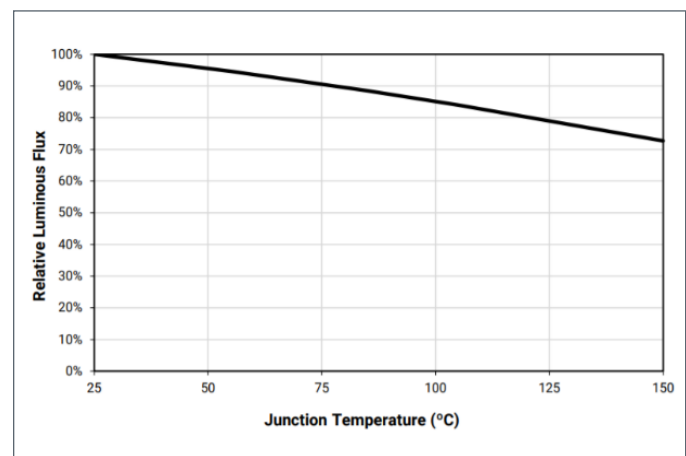


Chromaticity binned @ 85°C

VOLTAGE VS. TEMPERATURE



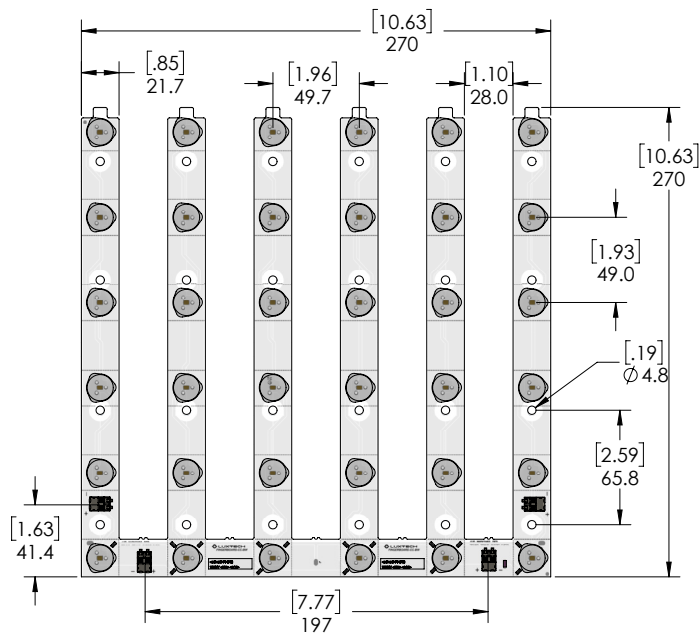
FLUX VS. TEMPERATURE



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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

DRIVER SELECTION

Recommended for use with the following two-channel drivers.

BRAND	MODEL	PROGRAMMABLE DRIVE CURRENT (MA)	OUTPUT VOLTAGE (V)	DIMMING
AC Electronics	AC-50CD1.4APC7	400-1400	15-55	0-10V
EldoLED	SOLOdrive 566/U (A/S/L)	150-1400	1.5-55	0-10V
Osram	OPTOTRONIC Intelligent	150-1400	10-56	DALI / DEXAL

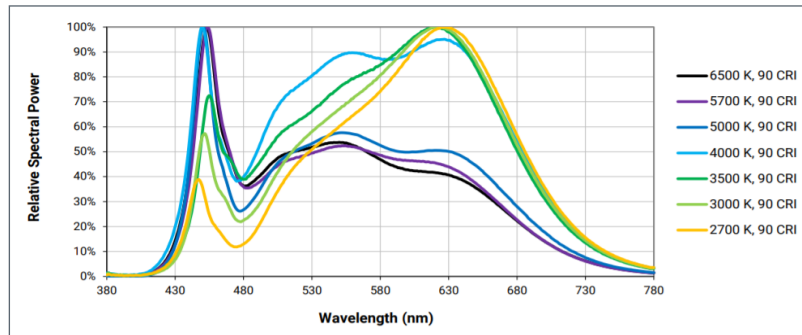
Design resources: Performance Calculator and CAD files available at LUXTECH.com

[Request Samples & Pricing Here](#)

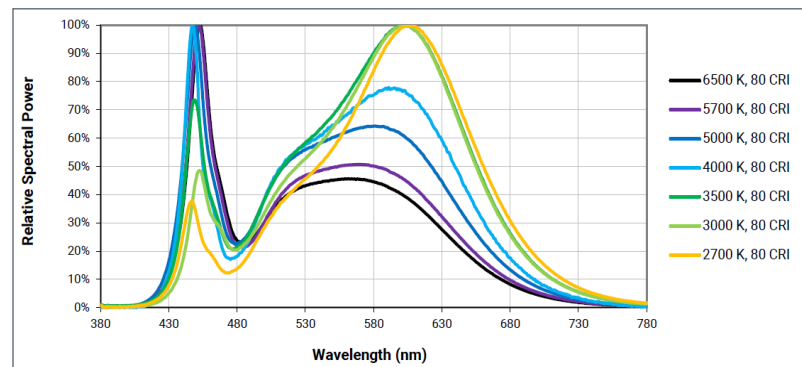
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION

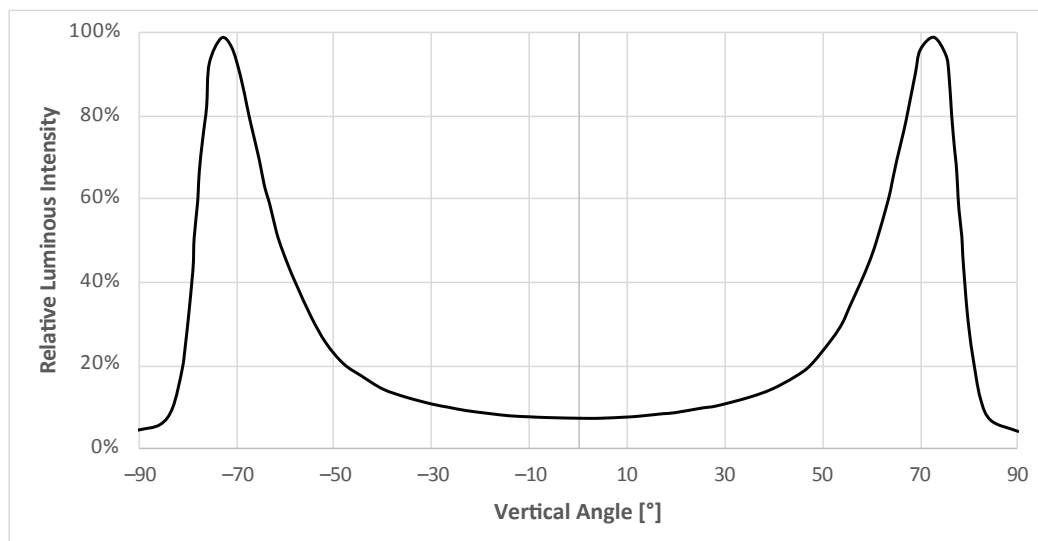
90 CRI



80 CRI



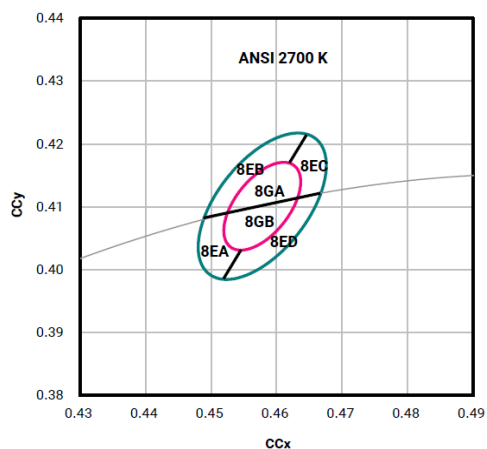
BEAM ANGLE



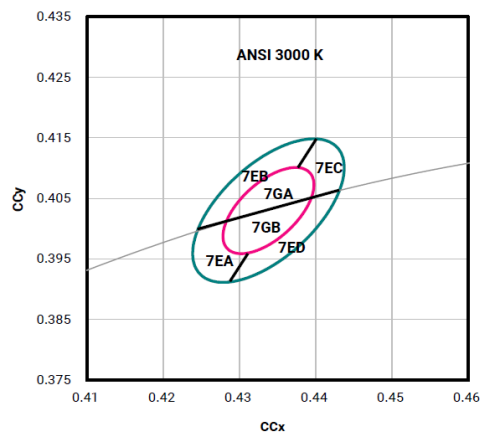
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COLOR BINNING INFORMATION

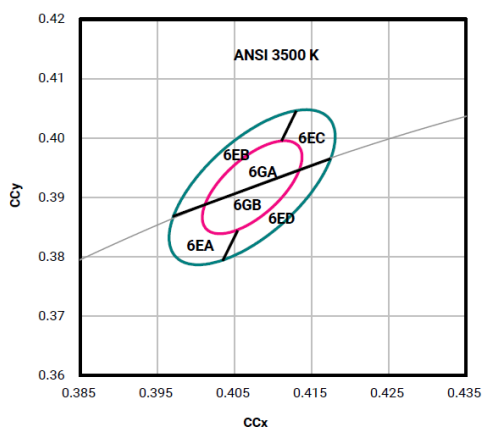
2700K 3-STEP (8GA, 8GB)



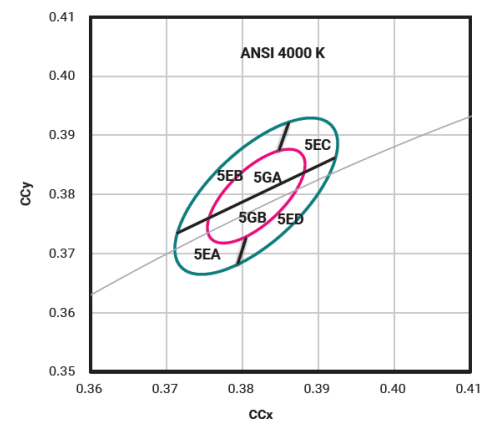
3000K 3-STEP (7GA, 7GB)



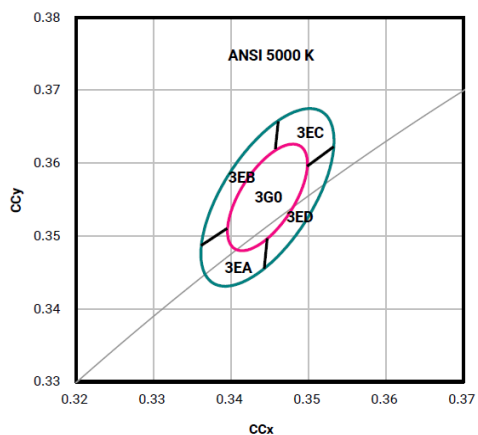
3500K 3-STEP (6GA, 6GB)



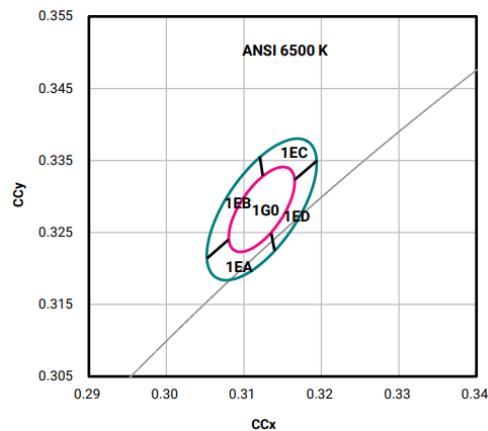
4000K 3-STEP (5GA, 5GB)



5000K 3-STEP (3G0)



6500K 3-STEP (1G0)



[Request Samples & Pricing Here](#)

ORDERING CODES

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	40K*		
	50K		
	65K		

*Normally Stocked

Example: Fingerboard-CC-BW-35K-90-NT*

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