

LUXroll RGB

Flexible RGB LED Module

Flexible, Cuttable Every 2"



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About LUXTECH

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



Product Description

LUXroll RGB uses 3 in 1 RGB LEDs, poke in connectors, and a cut length of 2 inches for easy installation in any application. Color uniformity is matched across each order and for any run length up to 8 feet.

Technical Specifications

Mechanical Information:

- » Flexible reeled form factor
- » Cuttable Every 2 in
- » Specification-Grade 3M 300LSE Adhesive Backing
- » LED Pitch: 0.5 in
- » Width: 0.787 in (20mm)
- » Reel Length 44'

Photometric Performance:

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

Electrical Information:

- » UL 2108 Listed: E520350
- » Poke-In Connectors
- » RGB-in-one LEDs
- » 24V Constant Voltage Input, Common Anode
- » DMX Controllable in 3 channels
- » On Board ESD Protection
- » RGB Nominal 7.6 W/ft
- » Max Recommended Run Length: 8'
- » Wire Size: 18-24 AWG, solid or stranded

Lifetime Information:

- » 5-Year Warranty



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REQUESTING SAMPLES & PRICING

Product Name
LUXROLL-RGB

ELECTRICAL CHARACTERISTICS

RED	
Current (mA/ft)	94
Voltage (V)	24.0
Flux (mcd/ft)	10,750

GREEN	
Current (mA/ft)	109
Voltage (V)	24.0
Flux (mcd/ft)	19,200

BLUE	
Current (mA/ft)	109
Voltage (V)	24.0
Flux (mcd/ft)	4,800

ABSOLUTE MAXIMUM RATINGS

*Maximum ratings determined from LED Specifications.

RED	
Current (mA/ft)	106
Voltage (V)	26
Temperature (°C)	85

GREEN	
Current (mA/ft)	120
Voltage (V)	26
Temperature (°C)	85

BLUE	
Current (mA/ft)	120
Voltage (V)	26
Temperature (°C)	85

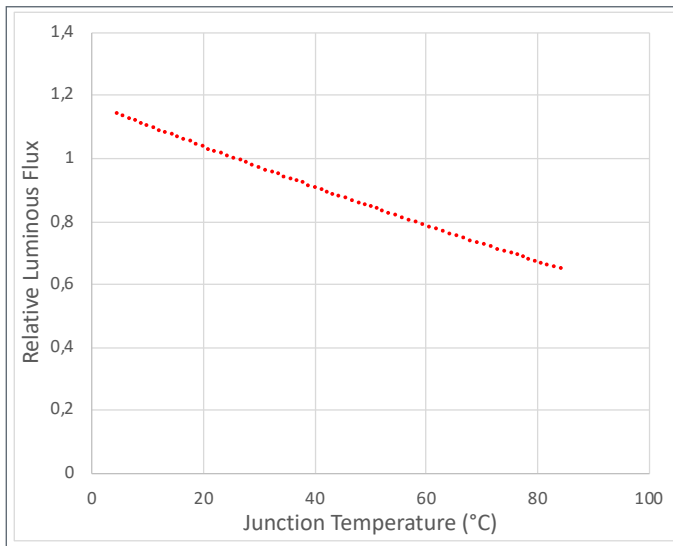
COMPONENTS	
Max Connector Current (A)	3
Max Recommended Run Length (ft)	8

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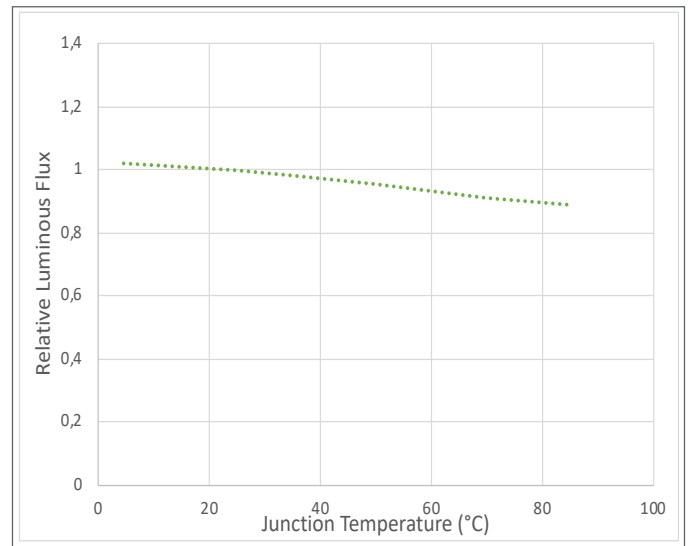
DERATING

FLUX VS. TEMPERATURE

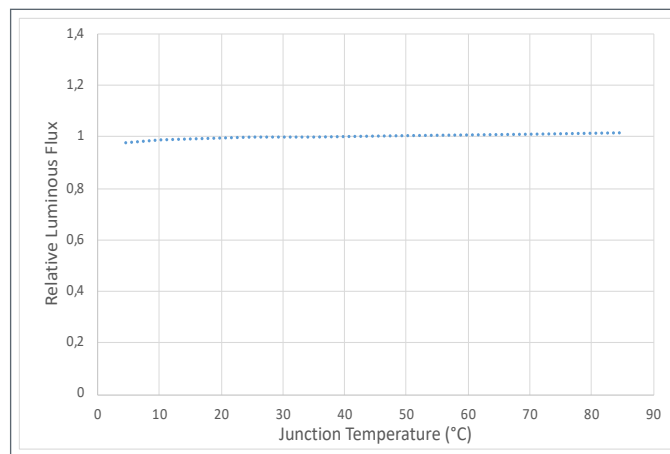
RED



GREEN



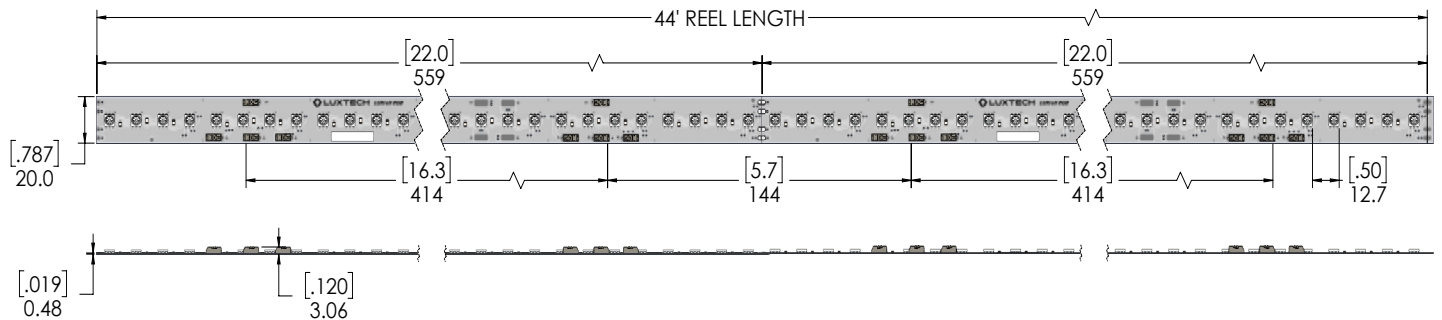
BLUE



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MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



Units: [inches] mm

PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN)
Width	0.787
Length	44 ft (528 in) Reel
Cut Length	2.0
PCB Thickness	0.009
Module Thickness, to Connector Top	0.12
Solder Pad Spacing	4.0"

WIRING

PARAMETER	SPECIFICATION
Wire Size	18-24 AWG



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

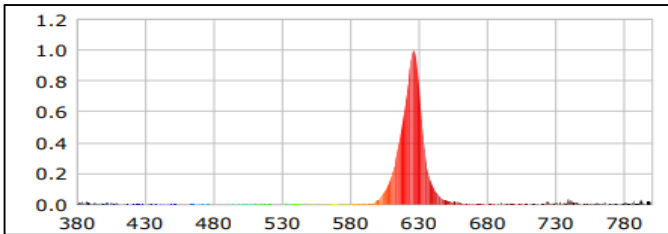
Design resources: Performance Calculator and CAD files available at LUXTECH.com

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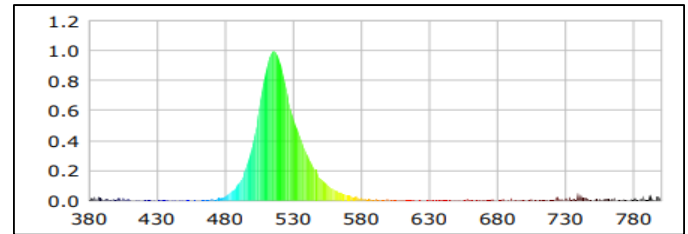
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION

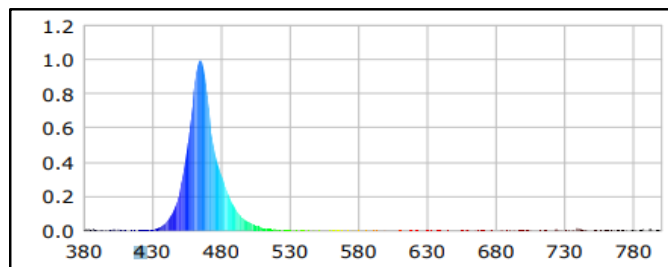
Red



Green

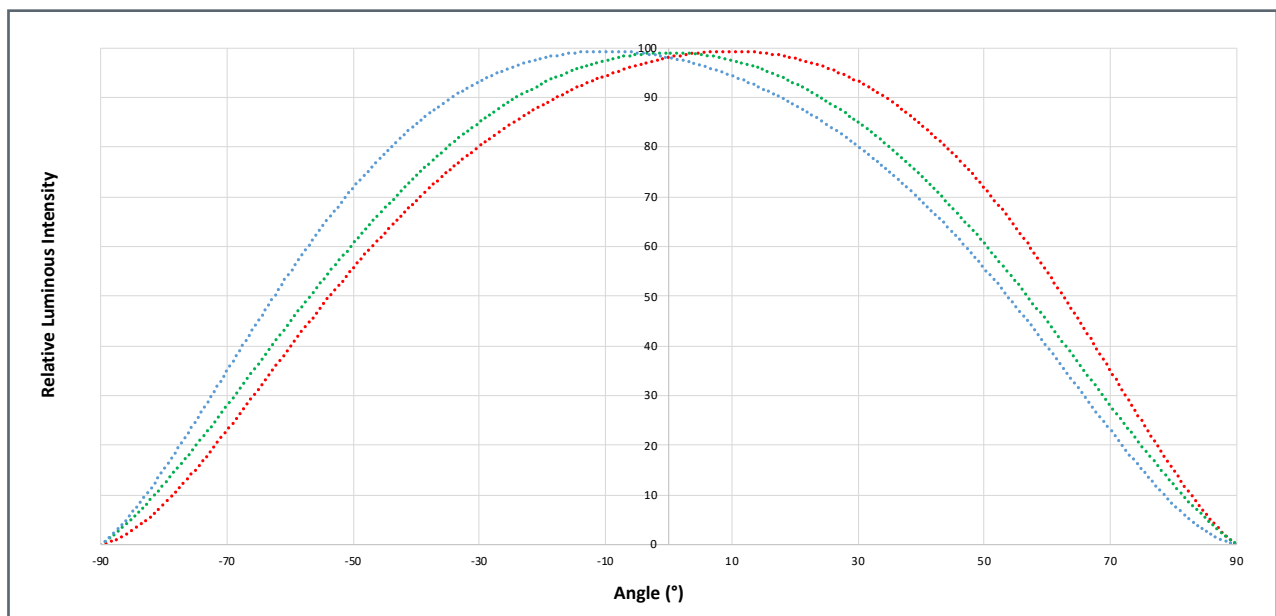


Blue



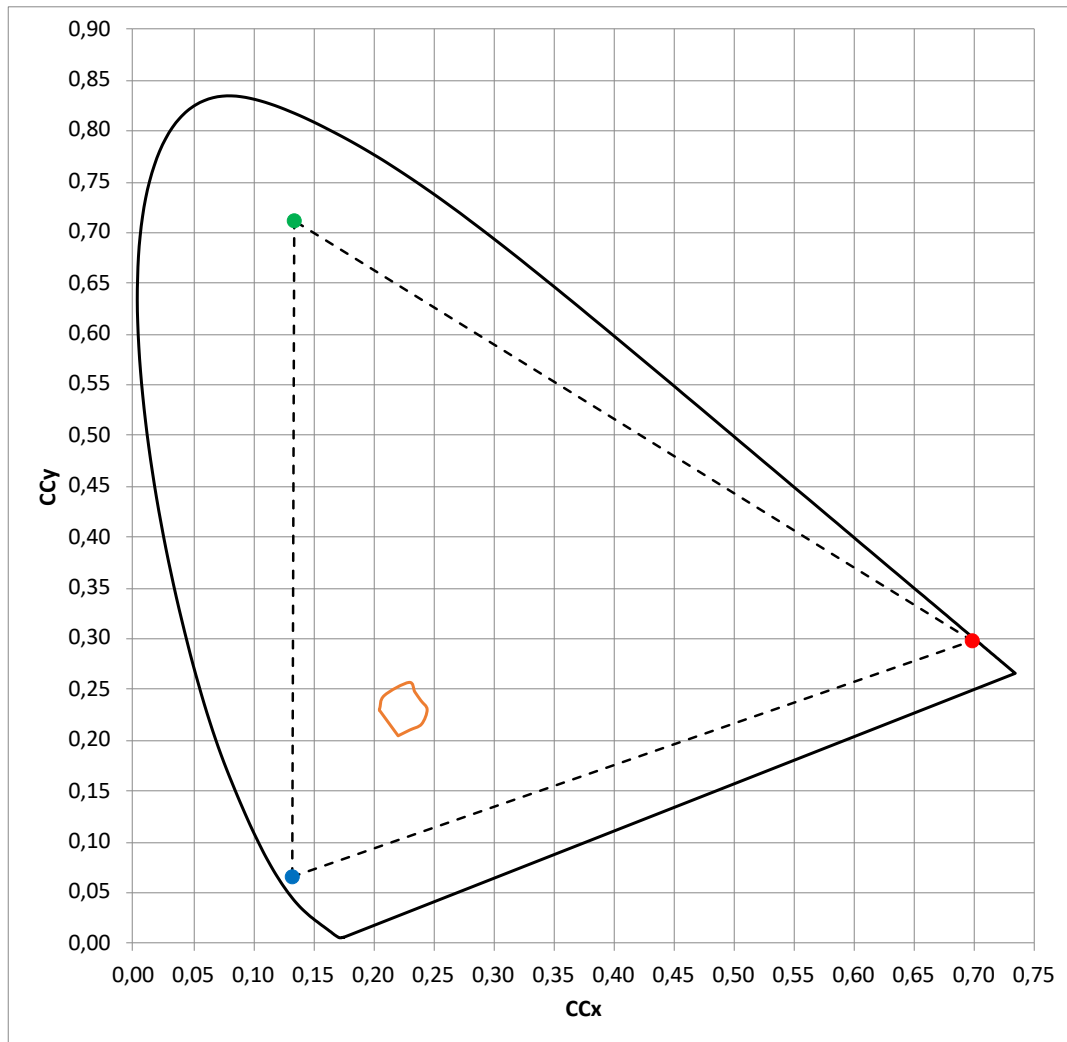
BEAM ANGLE

RGB



COLOR BINNING INFORMATION

RGB WHITE BIN



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ORDERING CODES

Product Name
LUXROLL-RGB

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