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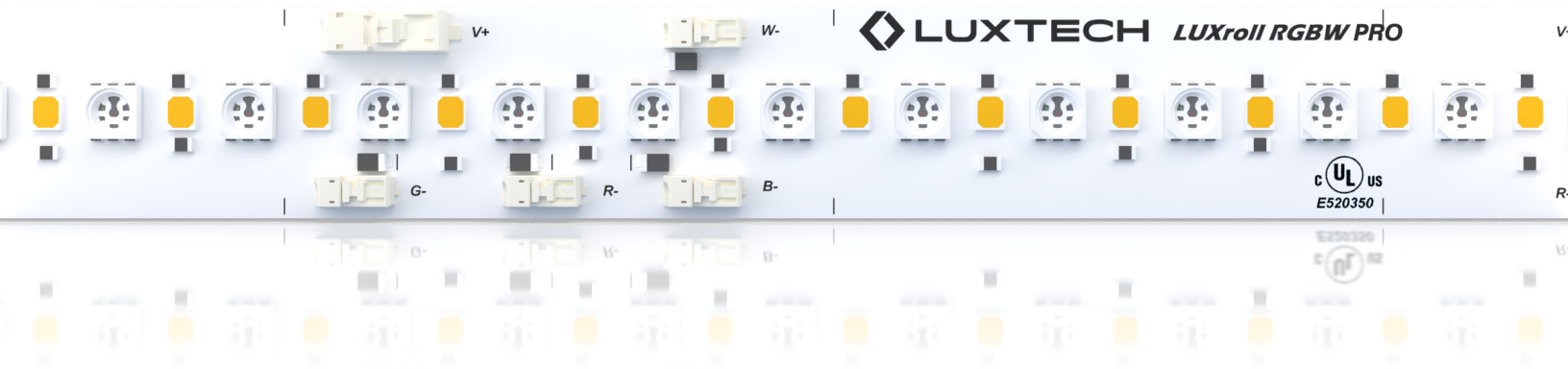
LUXroll™ Pro RGBW CV

FLEXIBLE LED MODULE DATA SHEET

Request Samples & Pricing [Here](#)

PRODUCT DESCRIPTION

LUXroll Pro RGBW CV 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 4 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

- Nominal Lumen Output: 820 lm/ft (3500K, 90CRI)
- Beam Angle: 120°
- CCT Range: 2700K - 6500K
- 90+ CRI Standard
- 3-Step MacAdam Ellipse Color Binning

Electrical Information

- UL 2108 Listed: E520350
- Poke-In Connectors
- 24V Constant Voltage Input, Common Anode
- DMX Controllable in 4 channels
- On Board ESD Protection
- Max Recommended Run Length: 4 ft
- Wire Size: 18-24 AWG, solid or stranded

Lifetime Information

- LM-80 Tested LEDs by CREE
- L70 > 102,000 Hrs for Ts = 85°C, 60mA Per Section
- L70 > 102,000 Hrs for Ts = 105°C, 60mA Per Section
- 5-Year Warranty



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REQUESTING SAMPLES & PRICING

1	2	3	4	5	6	7	8	9
		-		-				-

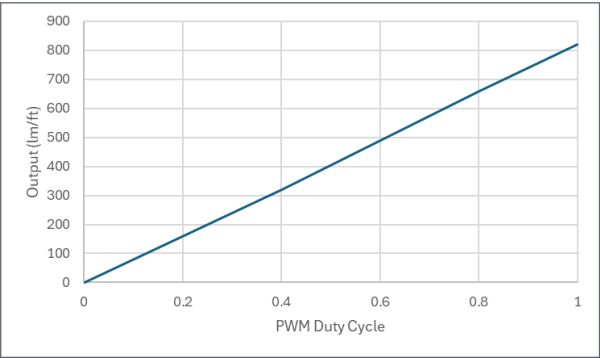
1: SERIES	2: PRODUCT FAMILY	3: PRODUCT LINE	4: TAPE	5: OPTICS
LT Luxtech	08 LUXroll	13 Pro RGBW CV	1 Yes	A No
6: PROTECTION	7: RESERVED	8: RESERVED	9: COLOR	*Normally Stocked
0 No	0 blank	0 blank	2790 2700K 90 CRI 3090* 3000K 90 CRI 3590* 3500K 90 CRI 4090 4000K 90 CRI 5090 5000K 90 CRI 6590 6500K 90 CRI *normally stocked	Part Number: LT08-13-1A000-3590 Description: LUXroll, Pro RGBW CV, 3500K, 90CRI, Tape, 44 ft reel UOM: 44 ft reel

ELECTRICAL CHARACTERISTICS

Assuming 35K, 90 CRI, 45 °C

CHANNEL	CURRENT (mA/ft)	VOLTAGE (V)	LUMENS (lm/ft)	POWER (W/ft)
RED	115	24	47	2.8
GREEN	139	24	178	3.3
BLUE	134	24	43	3.2
WHITE	267	24	821	6.5

WHITE OUTPUT VS. PWM CYCLE



- *LUXTECH maintains a tolerance of ±7.5% on flux measurements.
- *Performances will vary based on specific installation and thermal conditions.
- *LEDs naturally exhibit slight variations in performance due to their material properties and manufacturing processes. These variations may affect performance parameters like brightness, voltage, and color.
- *The product is sensitive to moisture. It's not good to use for outdoor application or damp environment.

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ABSOLUTE MAXIMUM RATINGS

Assuming 35K, 90 CRI

CHANNEL	CURRENT (mA/ft)	VOLTAGE (V)	LUMENS (lm/ft)	POWER (W/ft)
RED	161	27	65	4.3
GREEN	167	27	201	4.5
BLUE	164	27	50	4.4
WHITE	373	27	1107	10.1

COMPONENTS	
Max Connector Current (A)	9
Max Recommended Run Length (ft)	8

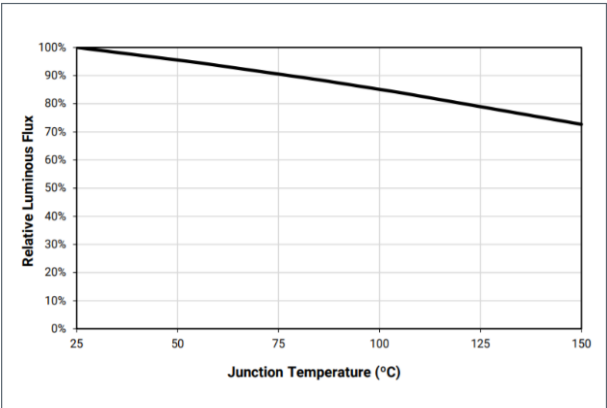
DERATING

COLOR TEMPERATURE	LIGHT OUTPUT
2700K	98%
3000K	100%
3500K	100%
4000K	103%
5000K	103%
6500K	103%

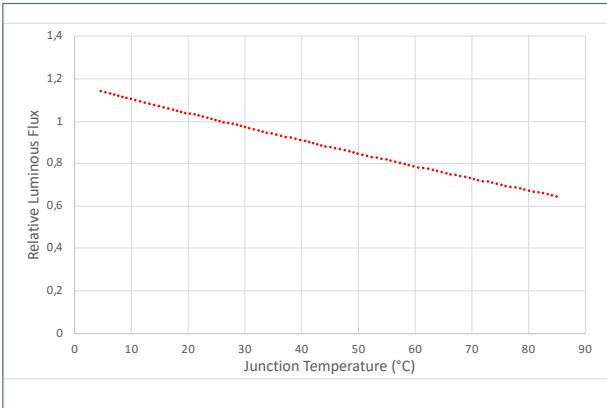
CRI	LIGHT OUTPUT
90 CRI	100%

FLUX VS. TEMPERATURE

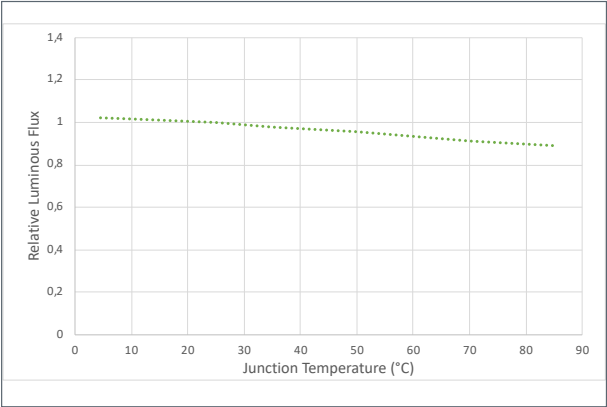
WHITE



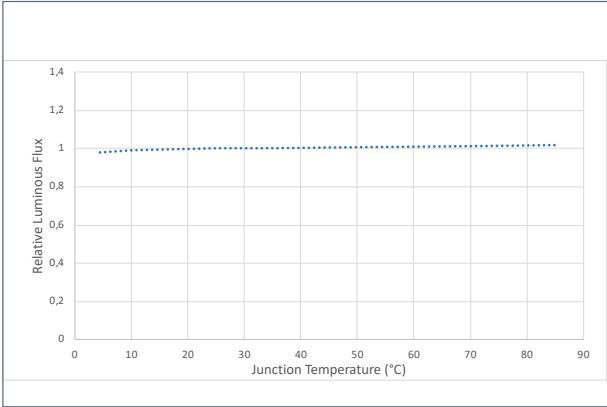
RED



GREEN



BLUE



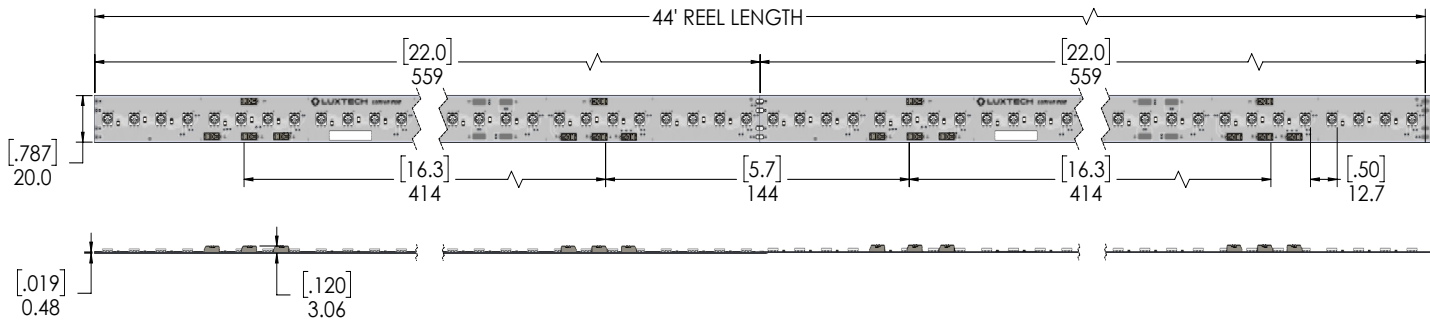
LUXroll™ Pro RGBW CV

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MECHANICAL CHARACTERISTICS

Technical Drawing
Units: [inches] mm

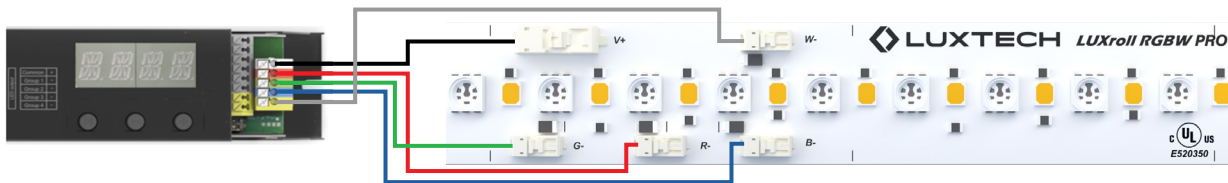


Product Dimensions

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

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

Design resources: CAD files available at [LUXTECH.com](#)

LUXroll™ Pro RGBW CV

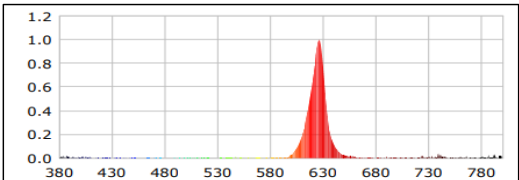
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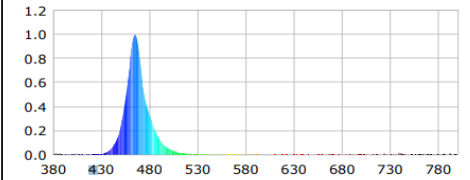
OPTICAL SPECIFICATIONS

Spectral Power Distribution

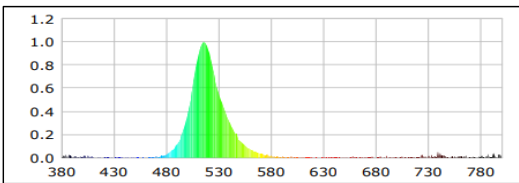
RED



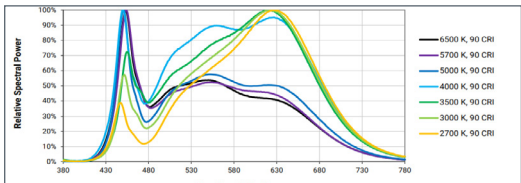
BLUE



GREEN

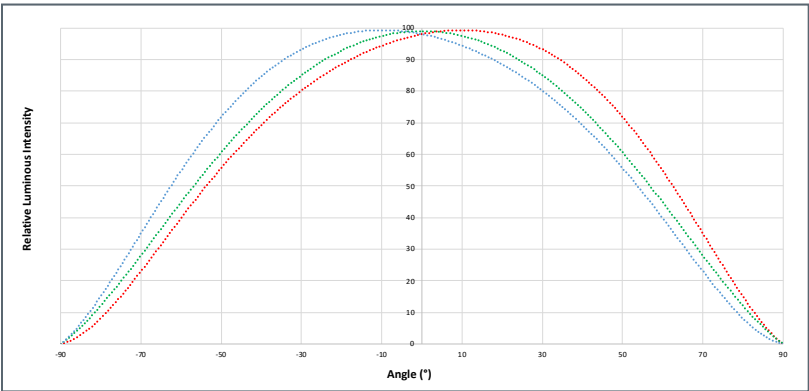


WHITE

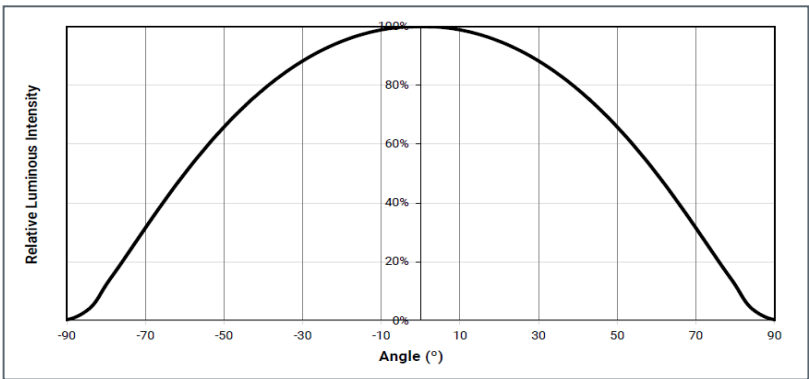


BEAM ANGLE

RGB



WHITE

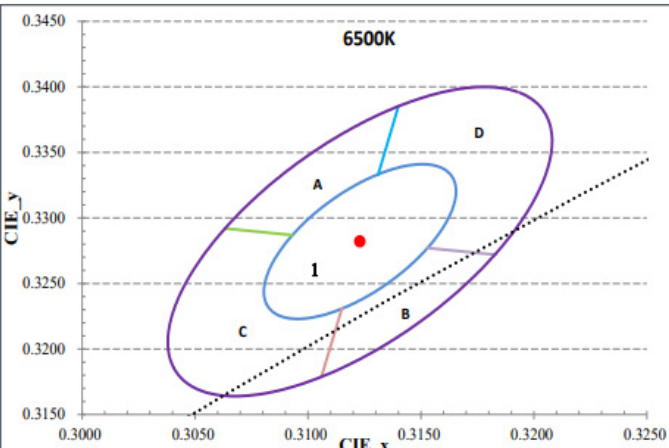
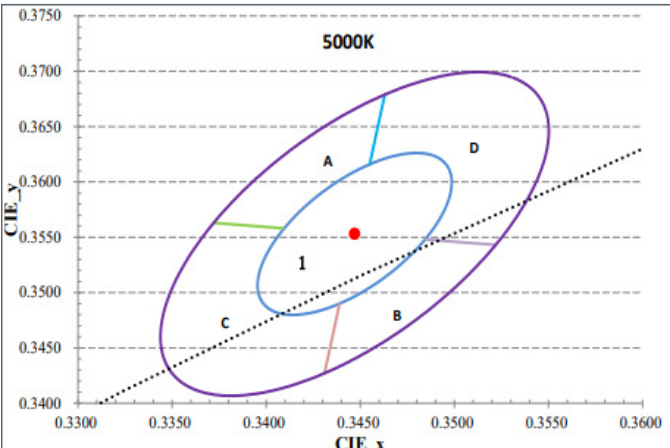
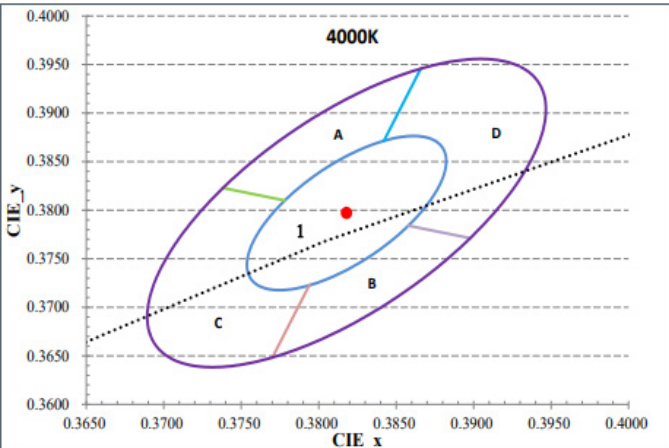
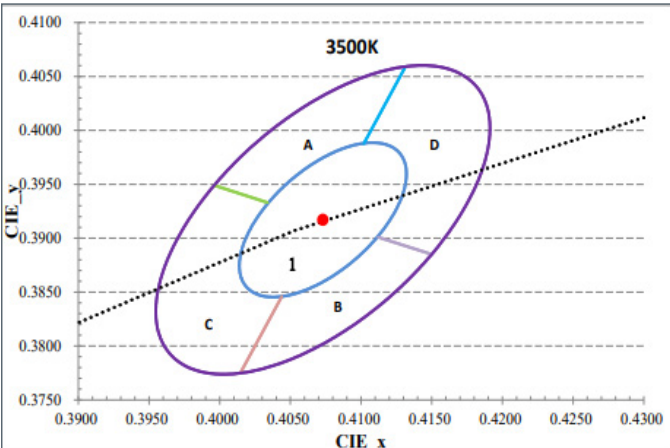
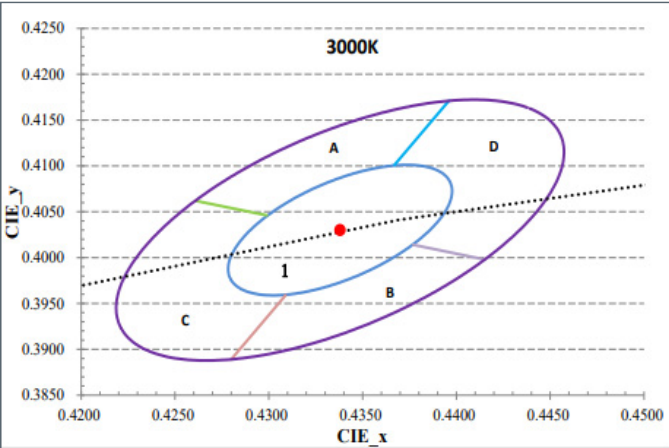
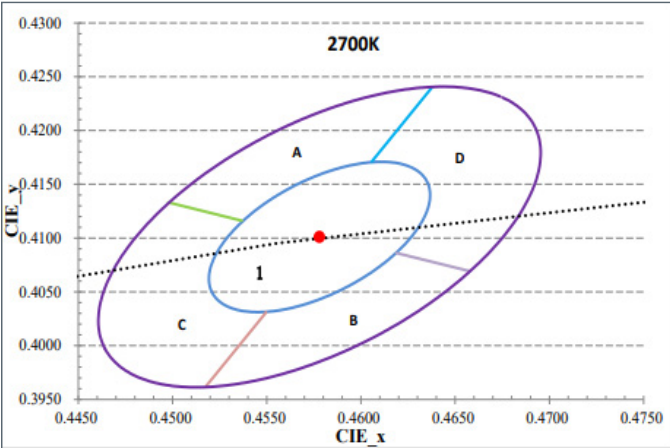


LUXroll™ Pro RGBW CV

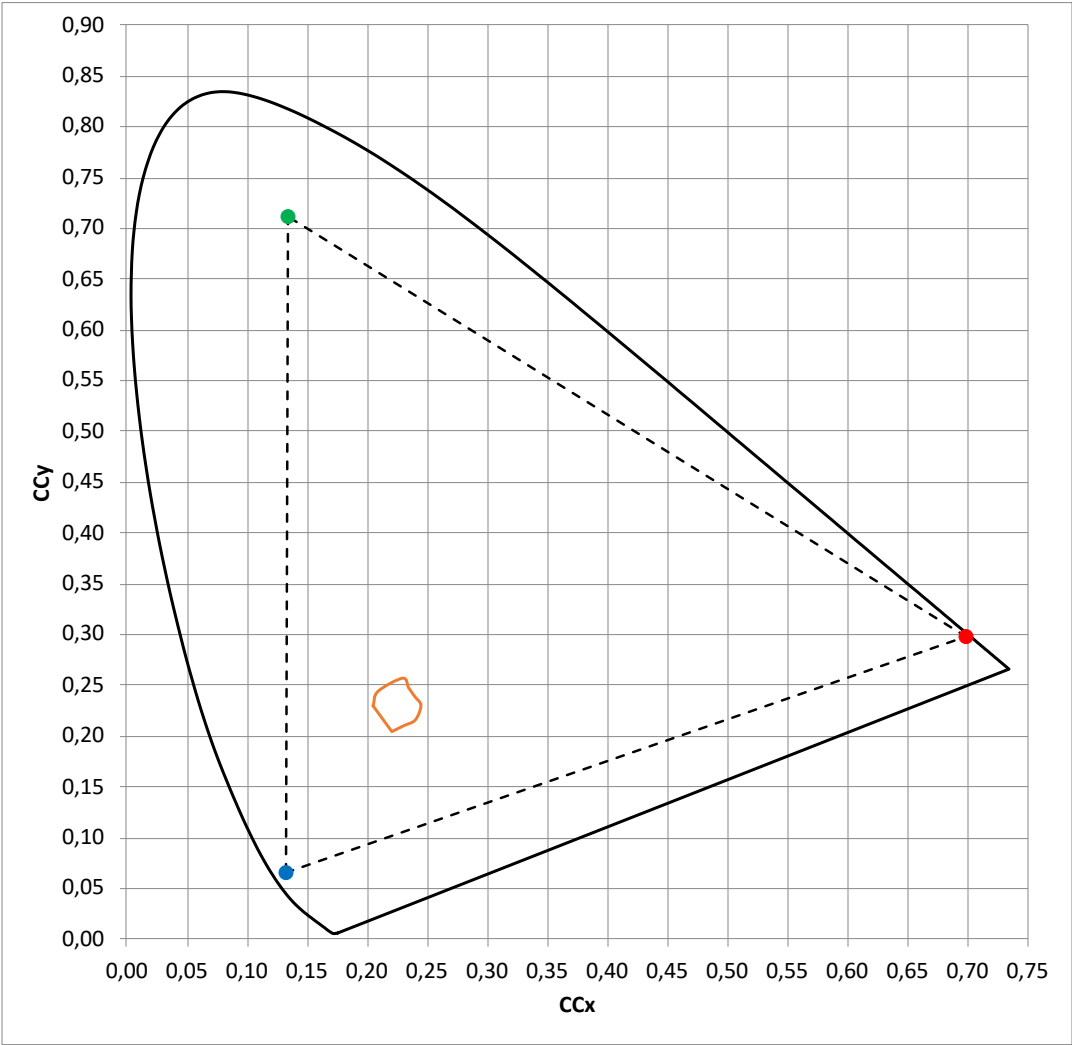
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COLOR BINNING INFORMATION



COLOR BINNING INFORMATION
RGB WHITE BIN



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*Normally Stocked

Part Number:
LT08-13-1A000-3590

Description:
LUXroll, Pro RGBW CV,
3500K, 90CRI, Tape,
44 ft reel

UOM: 44 ft reel

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 for first release
 - Shipment of balance at end of term

Expedite Services

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