

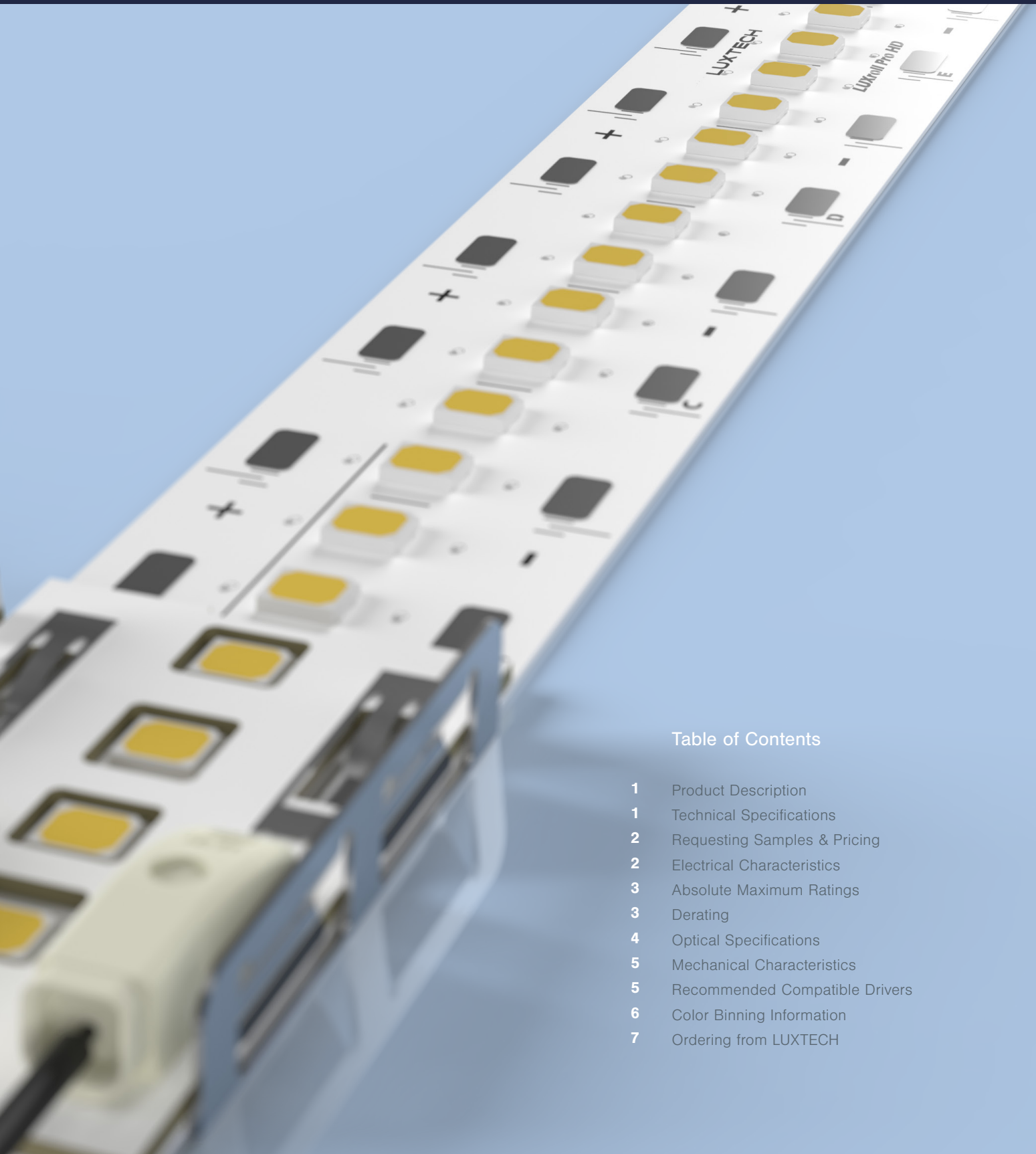


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LUXroll™ Pro CC HD

FLEXIBLE LED MODULE DATA SHEET

Request Samples & Pricing [Here](#)

PRODUCT DESCRIPTION

LUXroll Pro HD is LUXTECH's premium, high-performance, high-density flexible LED module. Designed to maximize performance and minimize waste, LUXroll Pro HD features the latest LED technology, delivering 90 CRI quality at 80 CRI performance. Its increased LED density creates even more opportunities for smooth, uniform illumination in applications where higher output and tighter optical control are required.

LUXroll Pro CC HD is a LED flex product with no connectors. Our Connex system allows you to place Connex connectors anywhere along the product. Connex can be paired with LUXroll Pro CC HD and be purchased as a kit, or sold as individual components.



TECHNICAL SPECIFICATIONS

Mechanical Information

- Flexible IP20 LED module
- Cuttable Every 0.5 in
- Specification-Grade 3M 300LSE Adhesive Backing
- LED Pitch: 0.25 in
- Width: 0.787 in (20mm)
- Reel Length: 16.5 ft

Photometric Performance

- Nominal Lumen Output: 800 lm/ft (3500K, 90CRI)
- Nominal Efficacy: 200 lm/W (3500K, 90CRI, 800 lm/ft)
- Beam Angle: 120°
- CCT Range: 2700K - 6500K
- 90+ CRI Standard
- 3-Step MacAdam Ellipse Color Binning

Electrical Information

- Forward Voltage: 32V (3500K, 90CRI, 800 lm/ft)
- Compatible with Industry-Standard Class 2 Drivers
- On Board ESD Protection
- Max Recommended Run Length: 8 ft

Lifetime Information

- LM-80 Tested LED
- L70 > 102,000 Hrs for Ts = 85°C, 60mA Per Inch
- L70 > 102,000 Hrs for Ts = 105°C, 60mA Per Inch
- 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	14 Pro CC HD	1 Yes	A No
6: PROTECTION	7: RESERVED	8: RESERVED	9: COLOR	
0 No	0 No Connex Kit K Connex Kit	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	*Normally Stocked Part Number: A. LT08-14-1A0K0-3590 B. LT08-14-1A000-3590 Description: A. LUXroll, Pro CC HD, 3500K, 90CRI, Tape, 30x Connex Kit, 121ft reel B. LUXroll, Pro CC HD, 3500K, 90CRI, Tape, 121ft reel

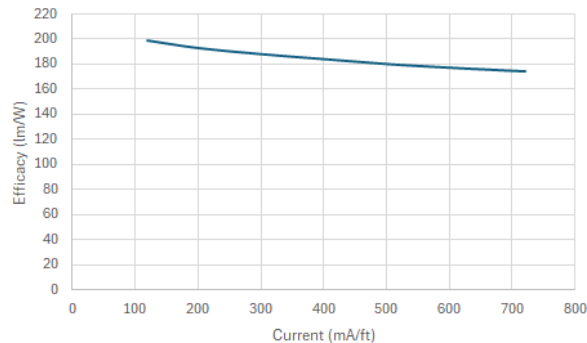
ELECTRICAL CHARACTERISTICS

Assuming 35K, 90 CRI, 25 °C

PER 1 FOOT SEGMENT							
Current (mA/ft)	120	200	300	400	500	600	720
Voltage (V)	32.1	32.4	32.8	33.1	33.4	33.6	33.9
Flux (lm/ft)	768	1253	1850	2436	3012	3578	4243
Efficacy (lm/W)	199	193	188	184	180	177	174

LUXroll HD Pro Product Calculator can be used to evaluate performance at various lengths, color temperatures, and drive currents. Visit product page to access the product calculator.

WHITE EFFICACY VS. CURRENT



- *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

PER 1 FOOT SEGMENT	
Current (mA/ft)	780
Temperature (°C)	105
COMPONENTS	
Max Recommended Run Length (ft)	8

Max Drive Current = Run Length (in) x 65 (mA)

*Max ratings determined from LED Specifications. LUXTECH advises to measure the solder point temperature (Ts) of each application to confirm it is below our recommended max temperature.

*Customer is responsible for ensuring all parameters are under the absolute maximum ratings.

*Thermal Considerations:
Each fixture design, power configuration and environment may affect thermal performance. It is the customer’s responsibility to validate that the LED module remains within safe temperature limits under actual use conditions. We recommend measuring LED case temperature in every new fixture, power combination and environment to determine the maximum safe drive current. Suitable tools include thermocouples placed adjacent to LEDs, infrared thermometers, or FLIR cameras. Do not exceed the specified maximum case temperature to avoid compromising performance or product life.

*Run length may exceed 8 feet but may cause a drop in light output

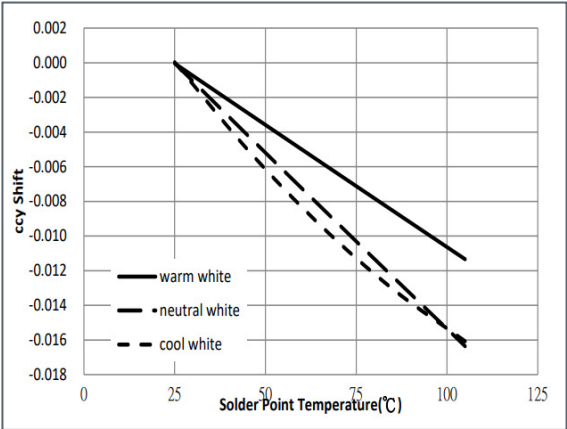
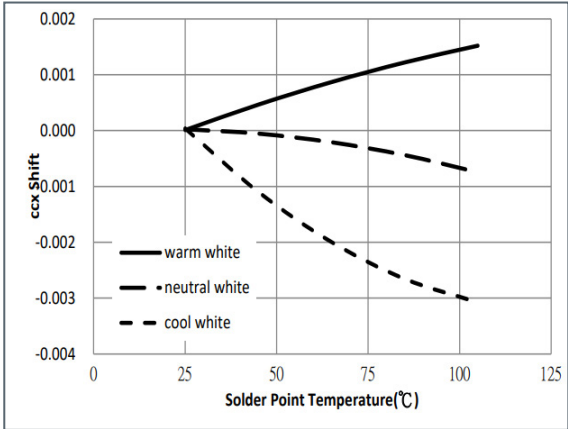
DERATING

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

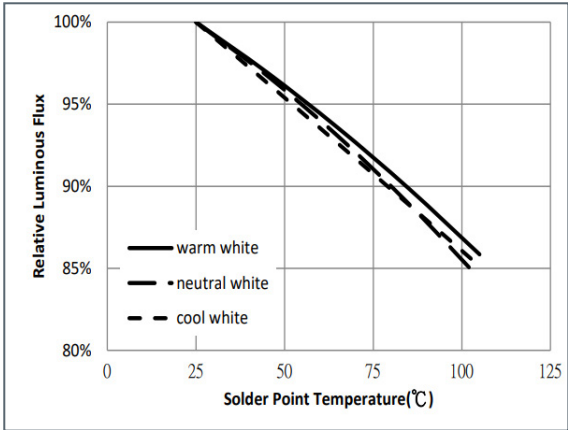
CRI	LIGHT OUTPUT
90 CRI	100%

CHROMATICITY VS. TEMPERATURE

Color binning @ 85 °C



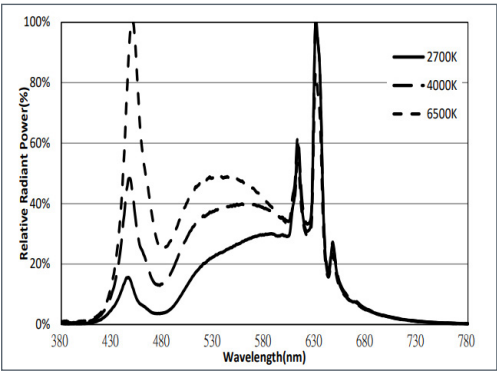
FLUX VS. TEMPERATURE



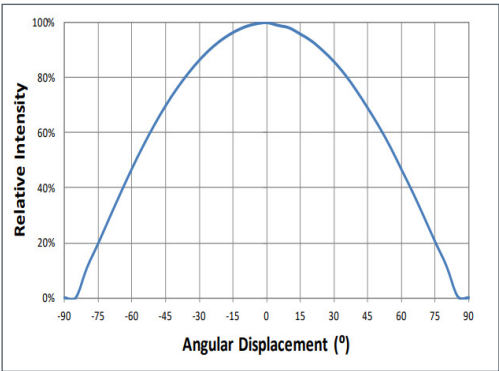
OPTICAL SPECIFICATIONS

Spectral Power Distribution

90 CRI



BEAM ANGLE



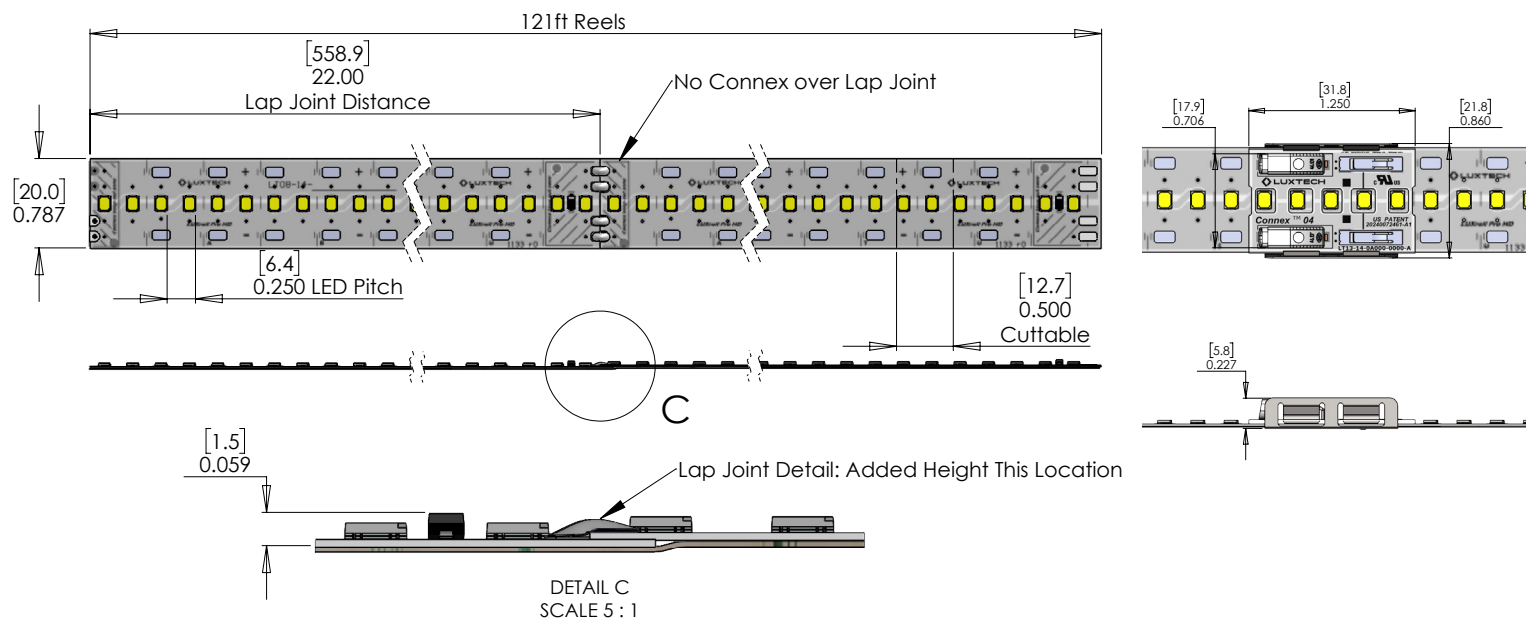
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MECHANICAL CHARACTERISTICS

Technical Drawing
Units: [inches] mm



Product Dimensions

PARAMETER	SPECIFICATION (IN)
Width	0.787"
Reel Length	121'
Cut Length	0.5"
Overall Height	0.059" (0.227" w/ Connex)
PCB Thickness	0.019"

Wiring

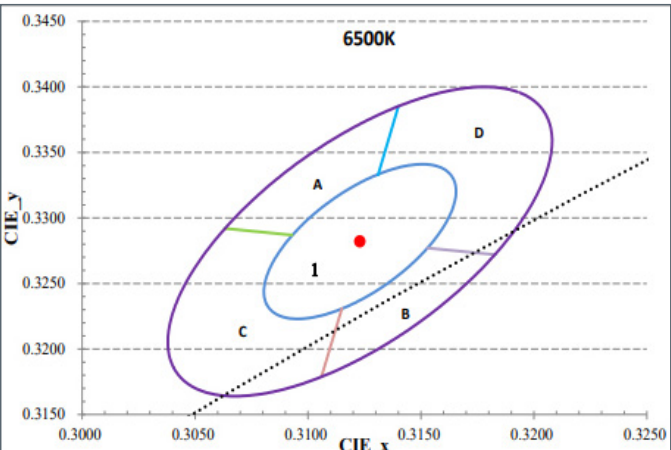
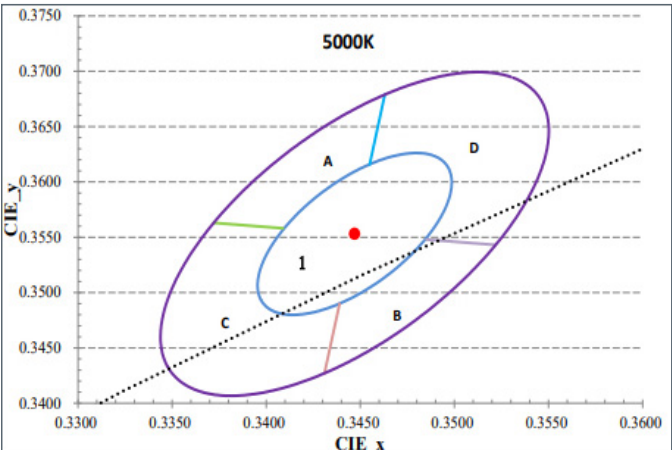
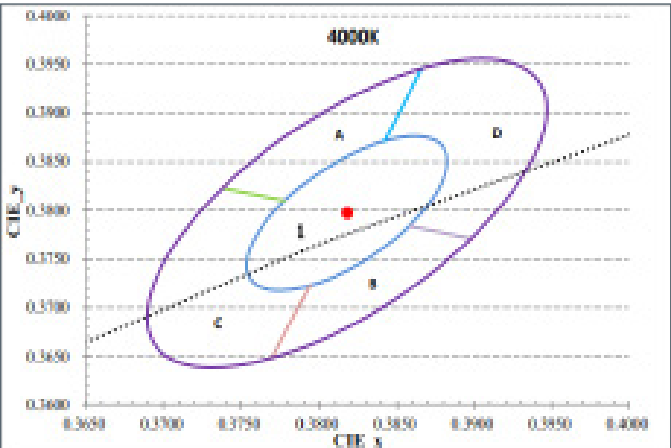
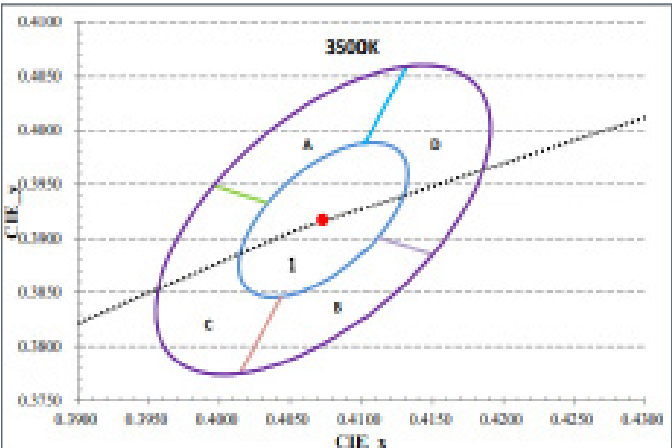
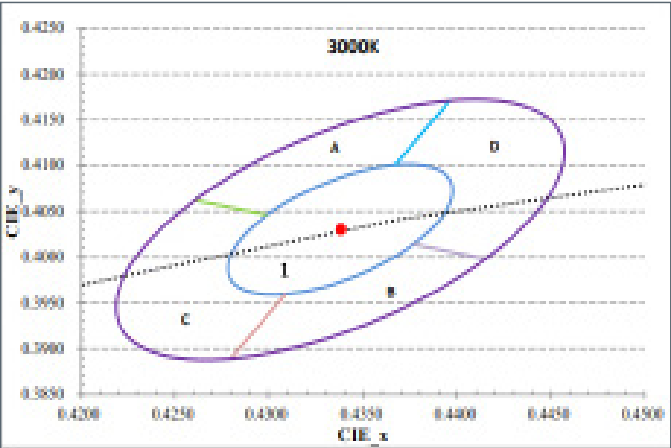
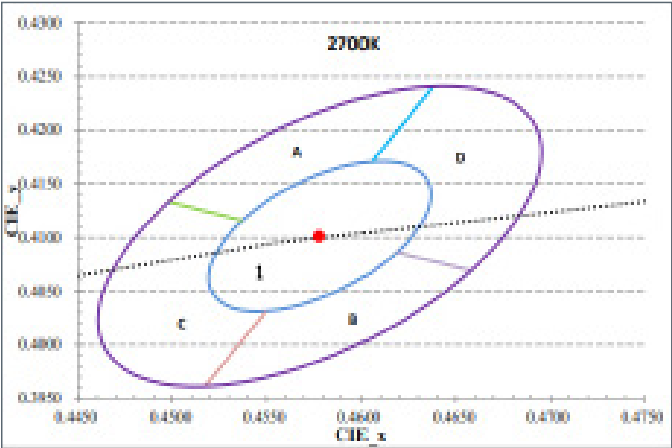
PARAMETER	SPECIFICATION
Wire Size	18-24 AWG

RECOMMENDED COMPATIBLE 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	15-55	0-10V
Osram	OPTOTRONIC Intelligent	150-1400	10-56	DALI/DEXAL

Design resources: Performance Calculator, CAD files, and Reference Guides available at [LUXTECH.com](#)

COLOR BINNING INFORMATION



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*Normally Stocked

Part Number:
A. LT08-14-1A0K0-3590
B. LT08-14-1A000-3590

Description:
A. LUXroll, Pro CC HD, 3500K, 90CRI, Tape, 30x Connex Kit, 121ft reel
B. LUXroll, Pro CC HD, 3500K, 90CRI, Tape, 121ft reel

Kit: One 121ft reel of LUXroll Pro CC HD + 30 Connex + 30 Clips

PRODUCT	DESCRIPTION	UOM	MINIMUM/MULTIPLE
LT08-14-1A0K0-3590-A	LUXroll, Pro CC HD, 3500K, 90CRI, Tape, 30x Connex Kit, 121ft reel	kit	1

For customers ordering individual products instead of a kit, see ordering information below:

PRODUCT	DESCRIPTION	UOM	MINIMUM/MULTIPLE
LT08-14-1A000-3590-A	LUXroll, Pro CC HD, 3500K, 90CRI, Tape, 121ft reel	121ft reel	1
LT13-14-0A000-0000-A	Connex, LUXroll Pro CC HD, 30 pc multiples	ea	30
Clip-Pro REV B	Clip for LUXTECH Pro, Packed in 30pc Bags	pc	30

If customization is required, contact sales: sales@LUXTECH.COM

Prototyping

- 4-6 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