

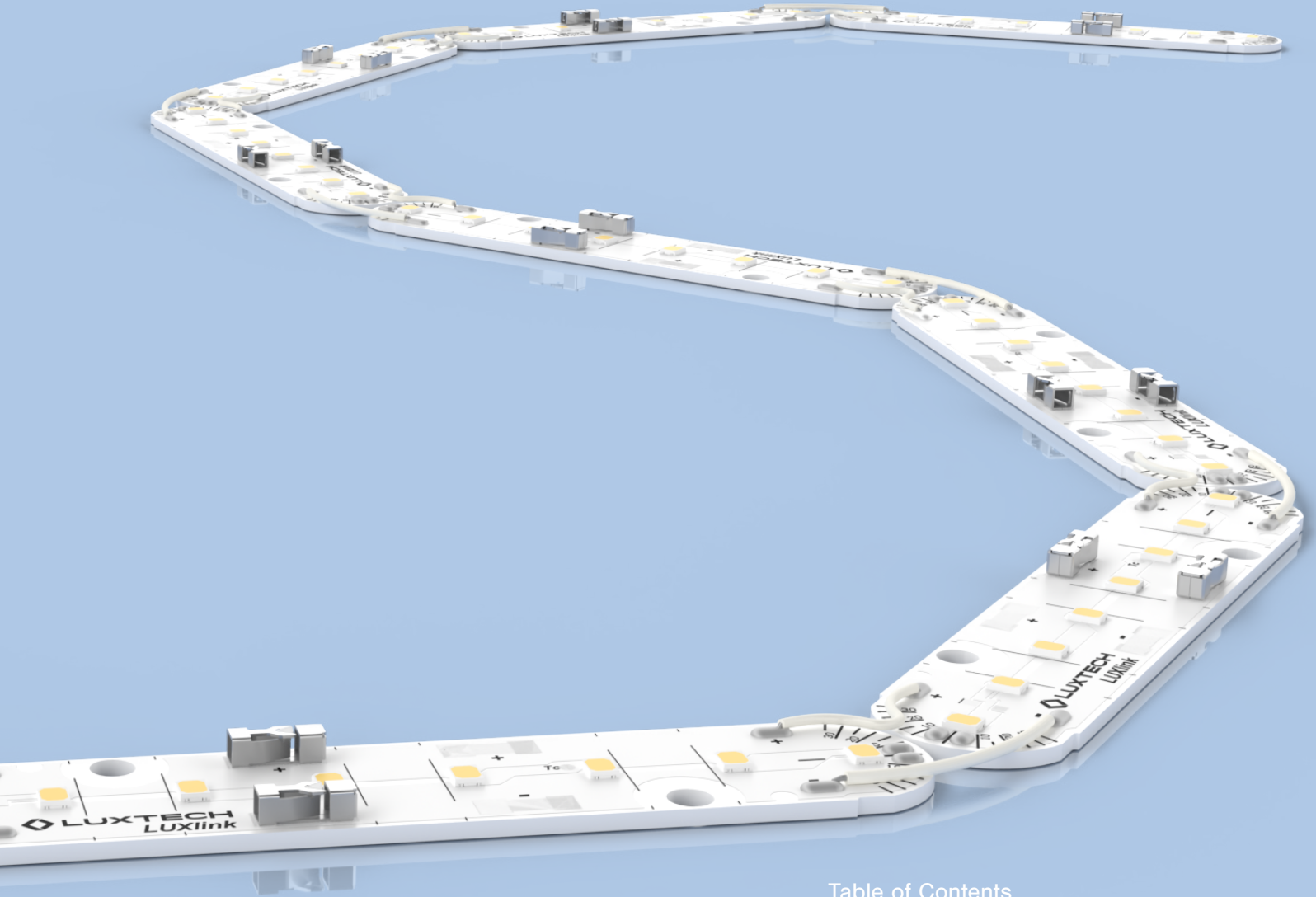
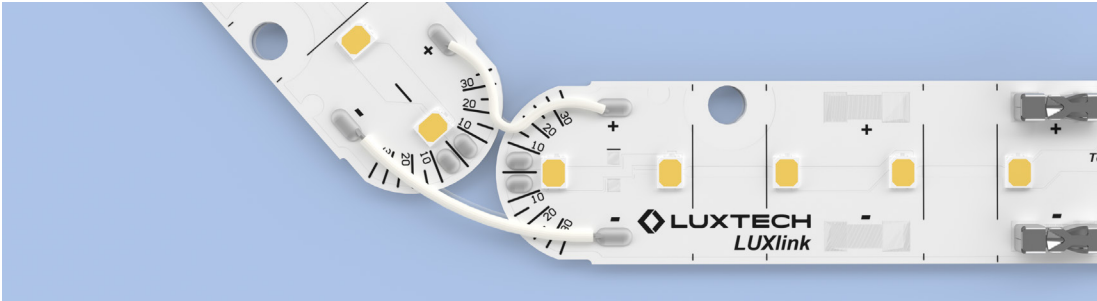


Table of Contents

1	Product Description
1	Technical Specifications
2	Requesting Samples & Pricing
2	Electrical Characteristics
3	Absolute Maximum Ratings
4	Derating
5	Mechanical Characteristics
5	Recommended Compatible Drivers
6	Optical Specifications
7	Color Binning Information
8	Ordering from LUXTECH

PRODUCT DESCRIPTION

LUXlinks enables luminaire manufactureres to create any custom curved fixture with a single standard LED module, minimizing installation labor and maximizing versatility across product sizes. Each section is built from pre-soldered 4" linked modules to form a 12' run, cuttable down to 1" to fill any curve or radius down to an 18" diameter.



TECHNICAL SPECIFICATIONS

Mechanical Information

- Pre-Soldered with 22 AWG Wire
- Min Bend Radius: 9 in
- Cuttable Every 1 in
- Specification-Grade 3M 300LSE Adhesive Backing
- LED Pitch: 0.5 in
- Width: 0.787 in (20mm)
- Total Unit Length: 12' (36x 4" sections)

Photometric Performance

- Nominal Lumen Output: 800 lm/ft (4000K, 80CRI)
- Nominal Efficacy: 173 lm/W (4000K, 80CRI, 800 lm/ft)
- Beam Angle: 120°
- CCT Range: 2700K - 6500K
- 90+ CRI Standard (80 CRI Available)
- 3-Step MacAdam Ellipse Color Binning

Electrical Information

- Poke-In Connectors
- Forward Voltage: 32.7V (4000K, 80CRI, 800 lm/ft)
- Compatible with Industry-Standard 36V Drivers (0-2.8A)
- On Board ESD Protection
- Max Recommended Run Length: 12 ft
- Connector Wire Size: 18-24 AWG, solid or stranded

Lifetime Information

- LM-80 Tested LEDs by CREE
- L80 > 72,000 Hrs for Ts = 55°C
- L80 = 60,500 Hrs for Ts = 105°C
- 5-Year Warranty

REQUESTING SAMPLES & PRICING

PRODUCT NAME	UNIT LENGTH	COLOR TEMPERATURE	CRI
LUXlink-CC	12 ft*	27K	80*
		30K*	90*
		35K*	
		40K*	
		50K	
		65K	

*Normally Stocked
Example: LUXlink-CC-12ft-30K-90

ELECTRICAL CHARACTERISTICS

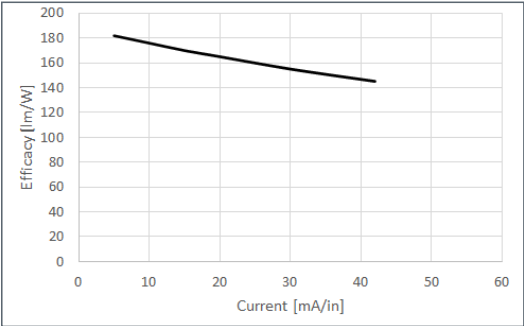
Assuming 40K, 80 CRI, 25 °C

PER 1 INCH					
Linear Flux (lm/ft)	400	800	1200	1600	2000
Current (mA/in)	6	12	18	24	31
Voltage (V)	31.9	32.7	33.5	34.2	34.9
Total Flux (lm/in)	33	67	100	133	167

PER 1 FOOT					
Linear Flux (lm/ft)	400	800	1200	1600	2000
Current (mA)	70	141	214	290	370
Voltage (V)	31.9	32.7	33.5	34.2	34.9
Total Flux (lm)	400	800	1200	1600	2000

PER 12 FEET					
Linear Flux (lm/ft)	400	800	1200	1600	2000
Current (mA)	839	1692	2571	3485	4445
Voltage (V)	31.9	32.7	33.5	34.2	34.9
Total Flux (lm)	4800	9600	14400	19200	24000

WHITE EFFICACY VS. CURRENT



*LUXTECH maintains a tolerance of 7% on flux measurements.
*Performances will vary based on specific installation and thermal conditions.

ABSOLUTE MAXIMUM RATINGS

Assuming 40K, 80 CRI

PER INCH	
Current (mA/ft)	60
Voltage (V)	39
Flux (lm/ft)	291
Temperature (°C)	95

COMPONENTS	
Max Connector Current (A)	9
Max Recommended Run Length (ft)	12

Max Drive Current = Run Length (in) x 60 (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.

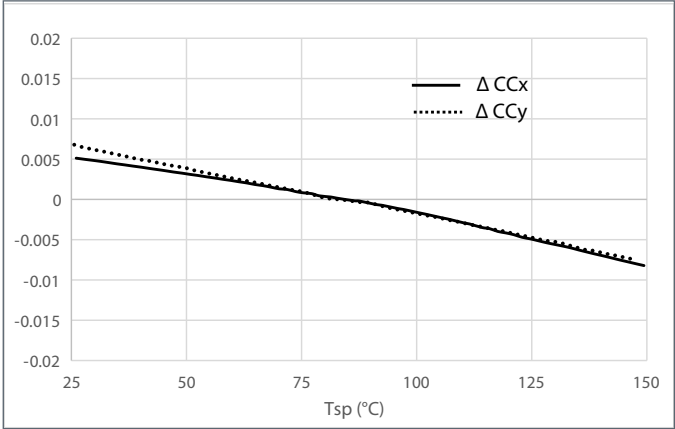
DERATING

COLOR TEMPERATURE (80CRI)	LIGHT OUTPUT
2700K	95%
3000K	96%
3500K	100%
4000K	103%
5000K	103%
6500K	103%

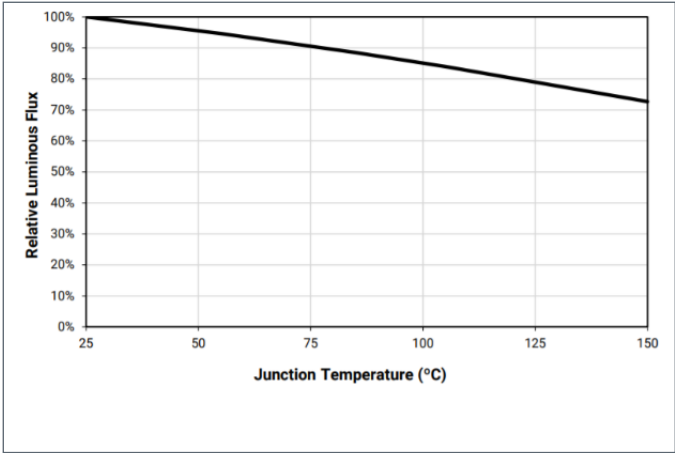
CRI	LIGHT OUTPUT
80 CRI	100%
90 CRI	88%

CHROMATICITY VS. TEMPERATURE

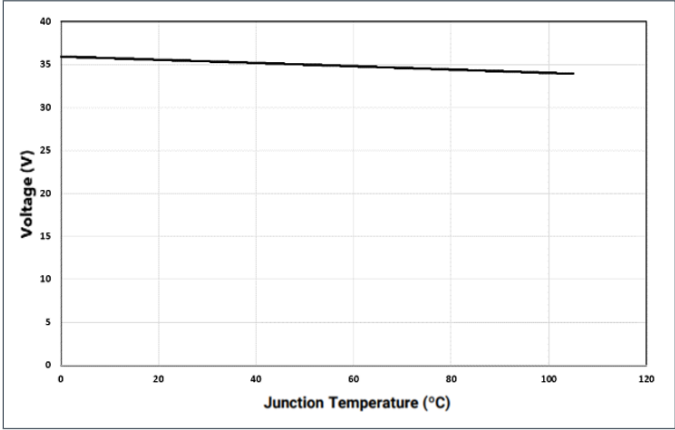
Chromaticity binned @ 85 °C



FLUX VS. TEMPERATURE

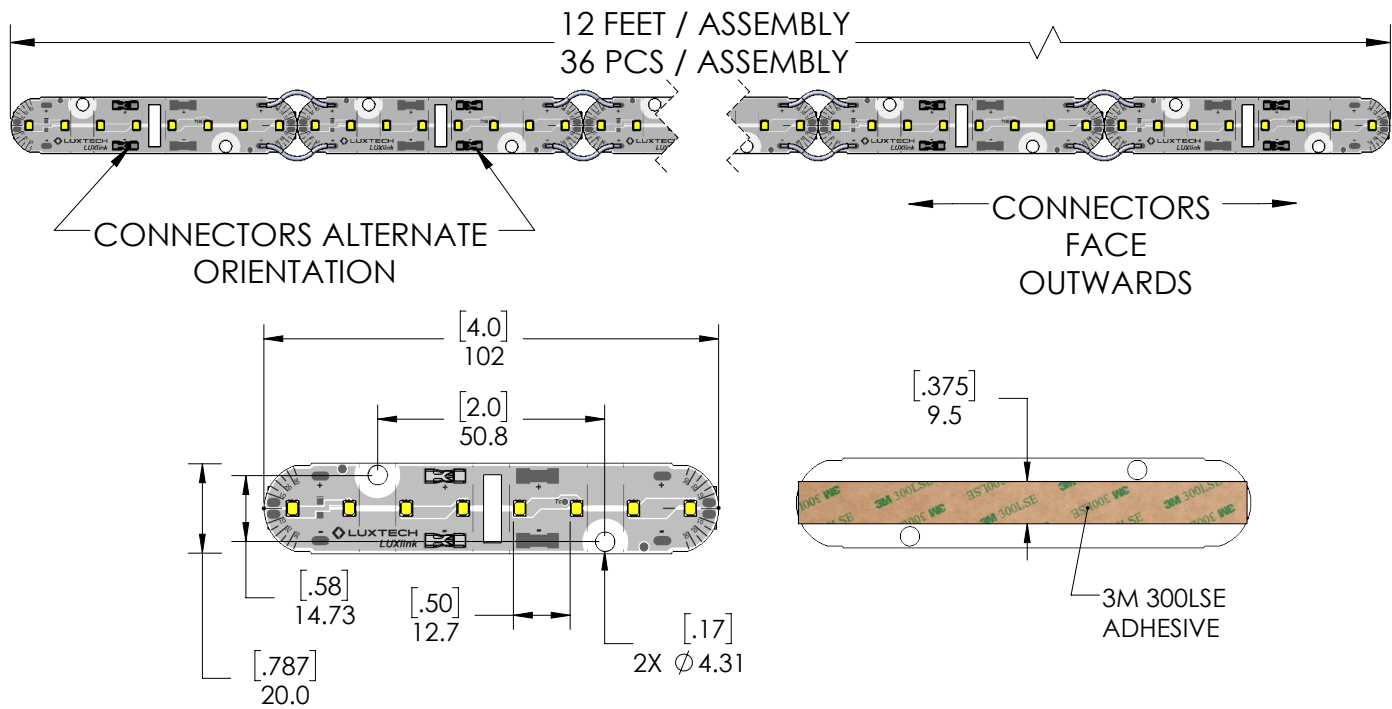


VOLTAGE VS. TEMPERATURE



MECHANICAL CHARACTERISTICS

Technical Drawing
Units: [inches] mm



Product Dimensions

PARAMETER	SPECIFICATION (IN)
Width	0.787
Length	12'
Link Length	4"
Cut Length	1"
PCB Thickness	0.063"
Module Thickness, to Connector Top	0.18"

Wiring

PARAMETER	SPECIFICATION
Wire Size	18-24 AWG

RECOMMENDED COMPATIBLE DRIVERS

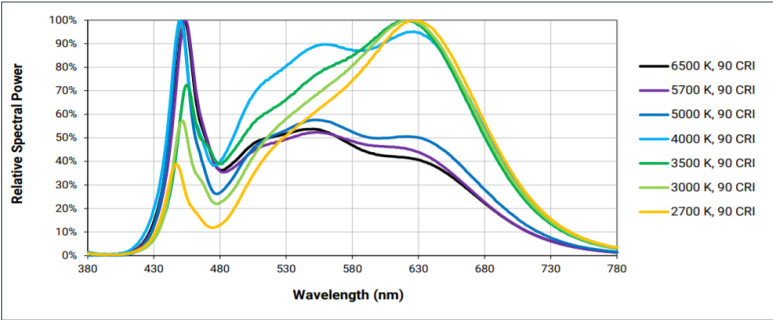
BRAND	MODEL	PROGRAMMABLE DRIVE CURRENT (MA)	OUTPUT VOLTAGE (V)	DIMMING
AC Electronics	AC-50CD1.4APC7	400-1400	15-55	0-10V
EldoLED	SOLOdrive 566/U (A/S/L)	150-1400	15-55	0-10V
Osram	OPTOTRONIC Intelligent	150-1400	10-56	DALI/DEXAL

Design resources: Performance Calculator and CAD files available at [LUXTECH.com](https://www.luxtech.com)

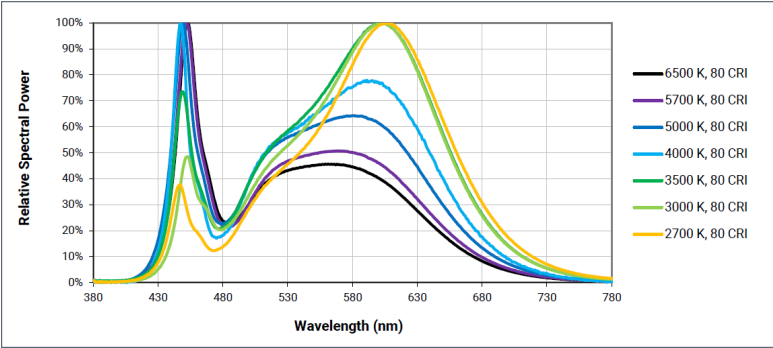
OPTICAL SPECIFICATIONS

Spectral Power Distribution

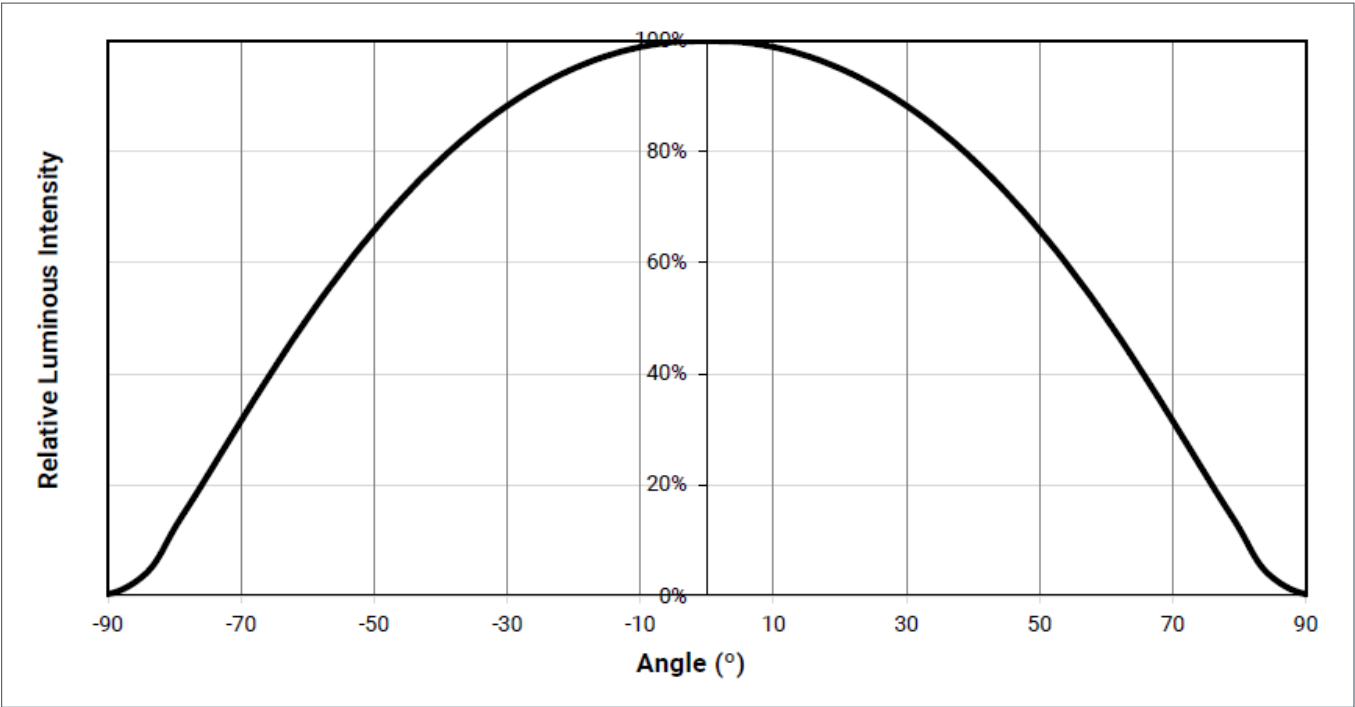
WHITE 90 CRI



WHITE 80 CRI



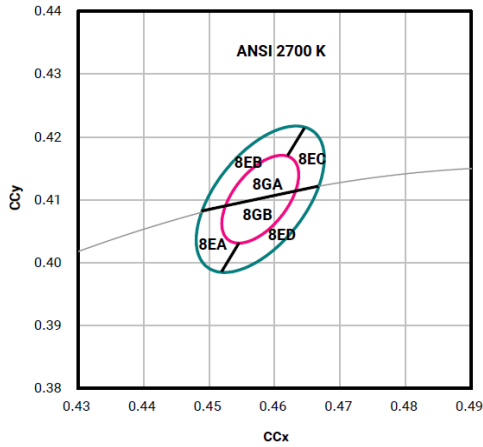
BEAM ANGLE



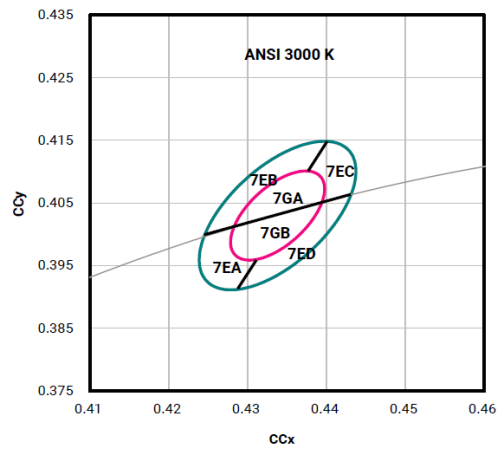
COLOR BINNING INFORMATION

Beam Angle

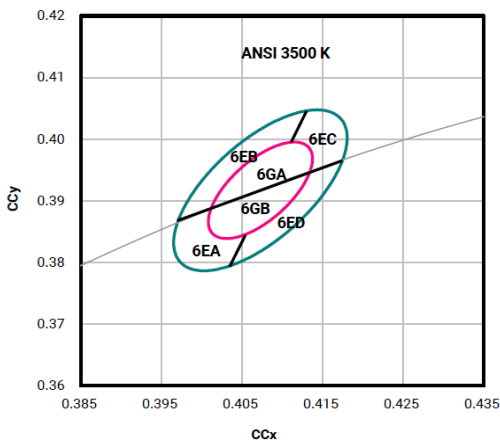
2700K 3-STEP (8GA, 8GB)



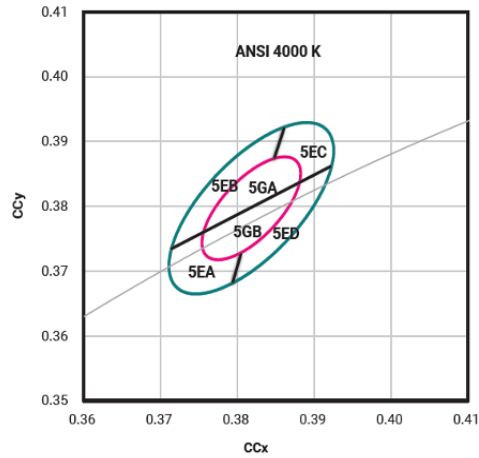
3000K 3-STEP (7GA, 7GB)



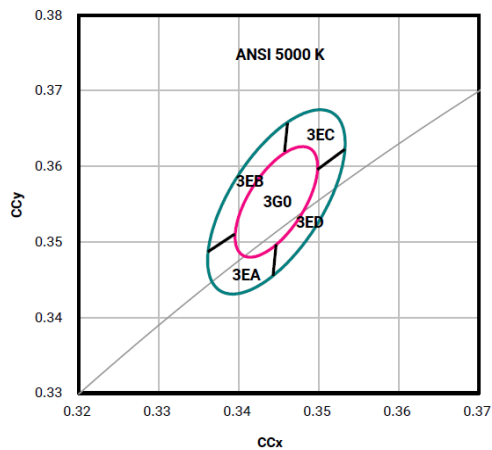
3500K 3-STEP (6GA, 6GB)



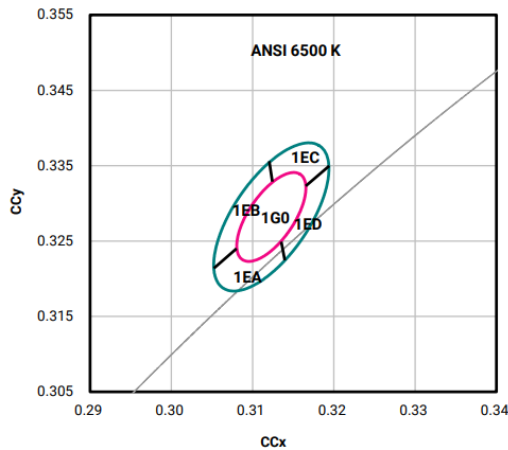
4000K 3-STEP (5GA, 5GB)



5000K 3-STEP (3G0)



6500K 3-STEP (1G0)



ORDERING CODES

PRODUCT NAME	UNIT LENGTH	COLOR TEMPERATURE	CRI
LUXlink-CC	12 ft*	27K	80*
		30K*	90*
		35K*	
		40K*	
		50K	
		65K	

*Normally Stocked

Example: LUXlink-CC-12ft-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 for first release
 - Shipment of balance at end of term

Expedite Services

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