

OneCut Standard

1/2" Cuttable LED Module

Rigid/Linear LED Module

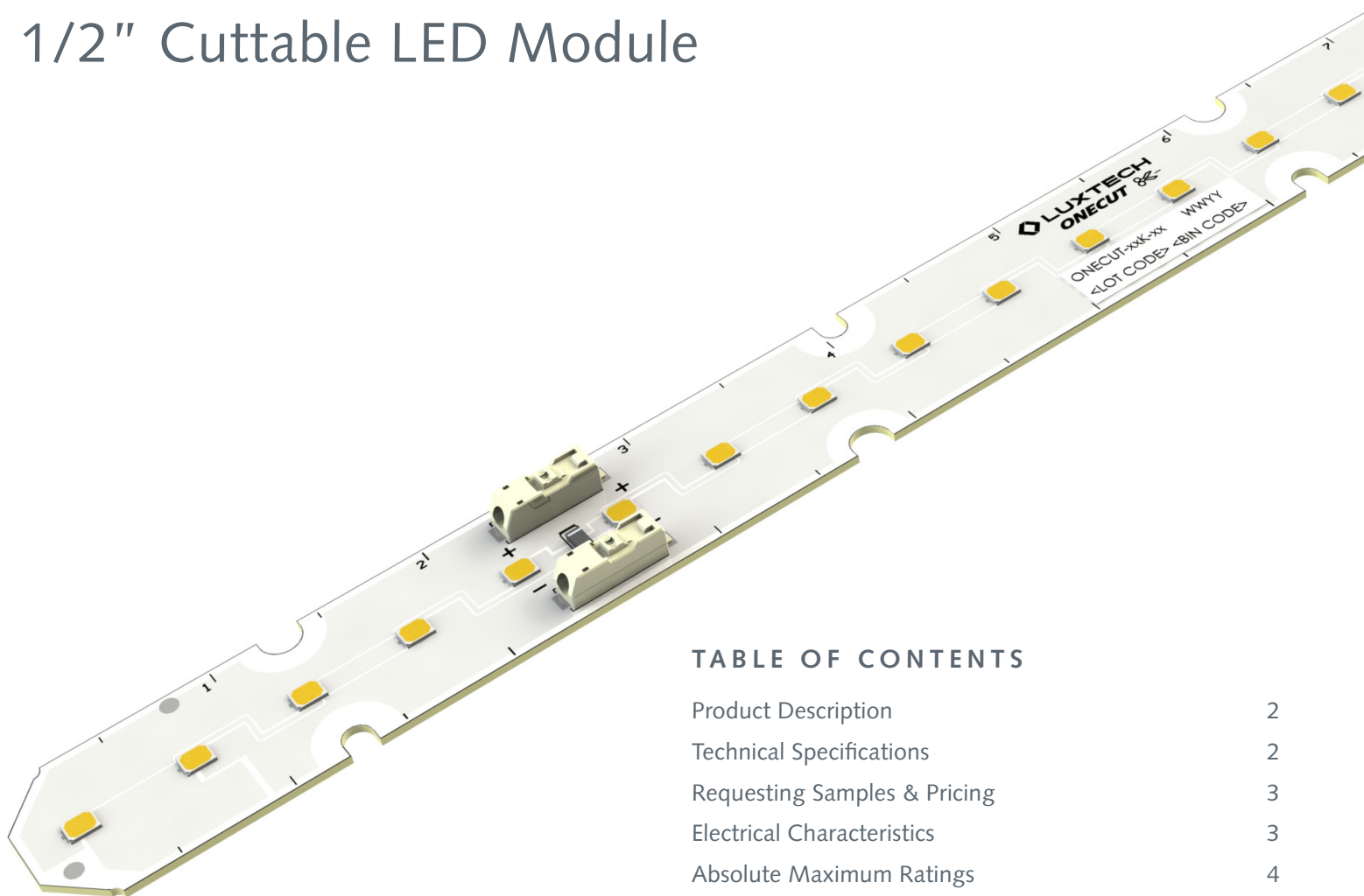
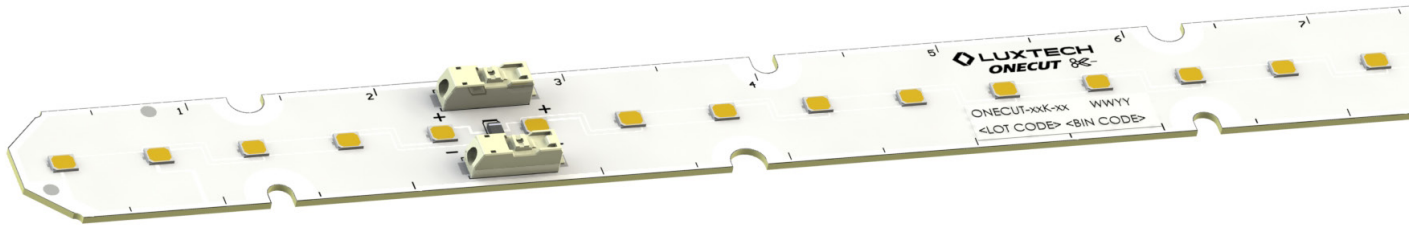


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About LUXTECH

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



Product Description

OneCut Standard is LUXTECH's flagship white linear module. Designed with people in mind, OneCut is constant current, cuttable every 1/2 inch and stocked with 90+ CRI LEDs standard. With a nominal 36V forward voltage, long runs are even more achievable at distances specified down to the 1/2 inch.

Technical Specifications

Mechanical Information:

- » 47" White Module
- » Cuttable Every 1/2 in
- » LED Pitch: 1/2 in
- » Width: 0.787 in (20mm)
- » Screw Size: #6, #8, M3, M4

Photometric Performance:

- » Nominal Lumen Output: 800 lm/ft (3500K, 90CRI)
- » Nominal Efficacy: 140 lm/W (3500K, 90CRI, 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: 33V (3500K, 90CRI, 800 lm/ft)
- » Compatible with Industry-Standard 36V Drivers (0-2.8A)
- » On Board ESD Protection
- » 1 oz Copper
- » Max Recommended Run Length: 8 ft
- » Wire Size: 18-24 AWG, solid or stranded

Lifetime Information:

- » LM-80 Tested LEDs by CREE
- » L80 > 72,000 Hrs for Ts = 55°C, 42mA Per Section
- » L80 = 60,500 Hrs for Ts = 105°C, 42mA Per Section
- » 5-Year Warranty

[Request Samples & Pricing Here](#)

REQUESTING SAMPLES & PRICING

Product Name	Color Temperature	CRI
ONECUT	27K	80
	30K*	90*
	35K*	
	40K*	
	50K	
	65K	

*Normally Stocking

Example: ONECUT-30K-90

ELECTRICAL CHARACTERISTICS

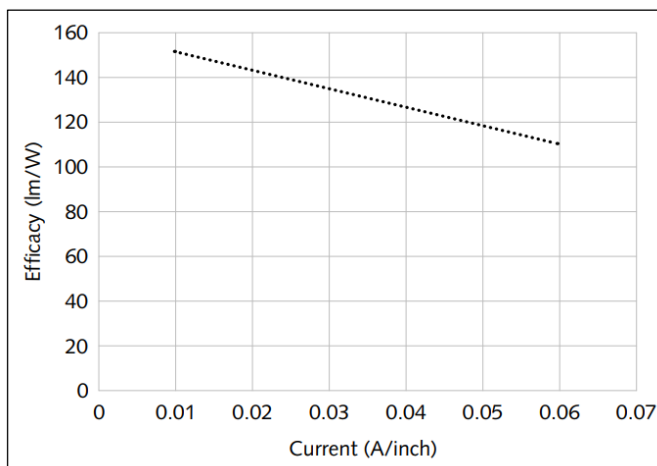
Assuming 3500K, 90 CRI, 45 °C

47"					
Current (mA)	235	470	705	1175	1645*
Voltage (V)	32	32.7	33.3	34.5	35.5
Flux (lm)	1087	2147	3177	5148	6988

EACH 1" SEGMENT					
Current (mA)	5	10	15	25	35*
Voltage (V)	32	32.7	33.3	34.5	35.5
Flux (lm)	23	46	68	110	149

*Max drive current is a recommendation based on a standard fixture setup.
Performances will vary based on specific installation and thermal conditions.

EFFICACY VS. CURRENT



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

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ABSOLUTE MAXIMUM RATINGS

Assuming 3500K, 90 CRI

PER 1" SEGMENT	
Current (mA)	60
Voltage (V)	39
Flux (lm)	233
Temperature (°C)	95

Absolute Max Drive Current = Board Length (in) x 60 (mA)

Recommended Max Drive Current = Board Length (in) x 35 (mA)

*Max recommended drive current is based on a standard fixture setup. LUXTECH advises to measure the solder point temperature (Ts) of each application to confirm it is below our recommended max temperature.

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

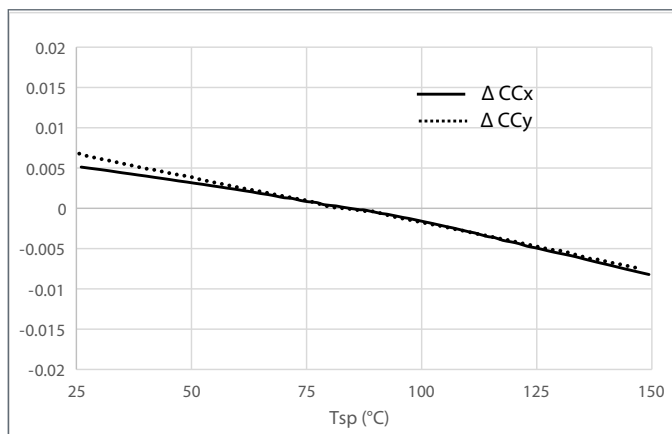
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DERATING

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

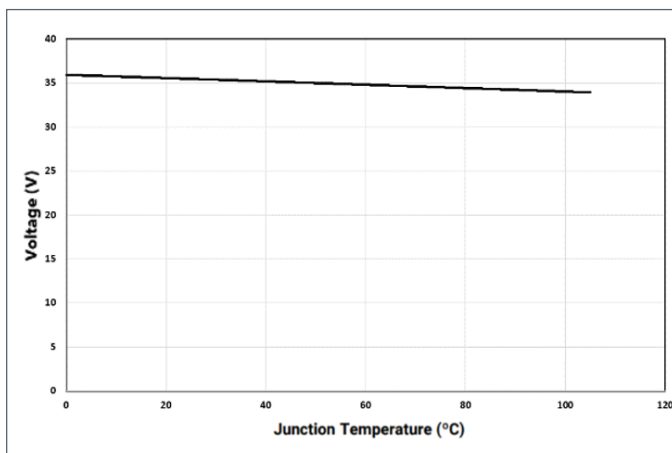
CRI	LIGHT OUTPUT
80 CRI	118%
90 CRI	100%

CHROMATICITY VS. TEMPERATURE

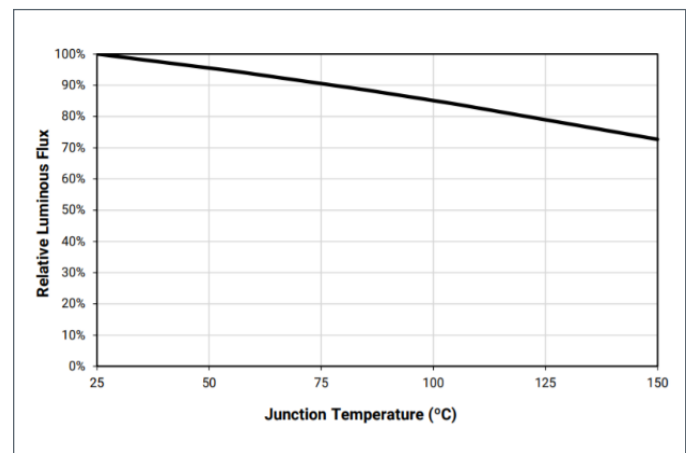


* Chromaticity Binned at 85 °C

VOLTAGE VS. TEMPERATURE



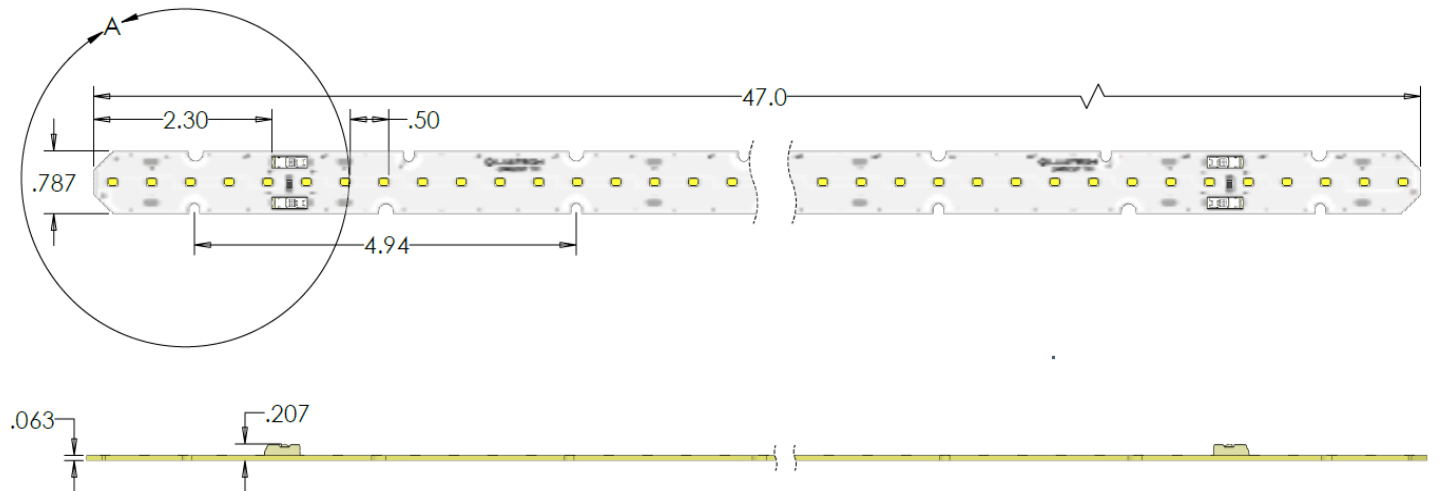
FLUX VS. TEMPERATURE



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MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



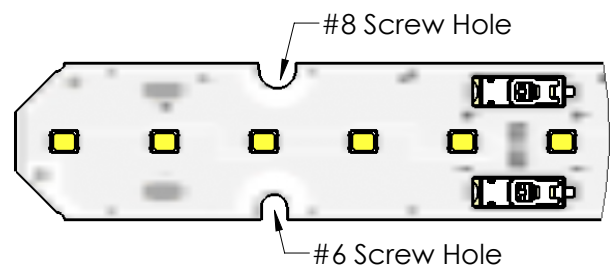
Units: [inches] mm

PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN)
Width	0.787
Length	47.0
LED Pitch	0.5
Cut Length	0.5
PCB Thickness	0.063
Module Thickness, to Connector Top	0.20
Solder Pad Spacing	4.00
Screw Hole Sizes	#6, #8, M3, M4
Distance from Connector to Board End	2.43

WIRING

PARAMETER	SPECIFICATION
Wire Size	18-24 AWG



DETAIL A

RECOMMENDED COMPATIBLE DRIVERS

BRAND	MODEL	WATTAGE (W)	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

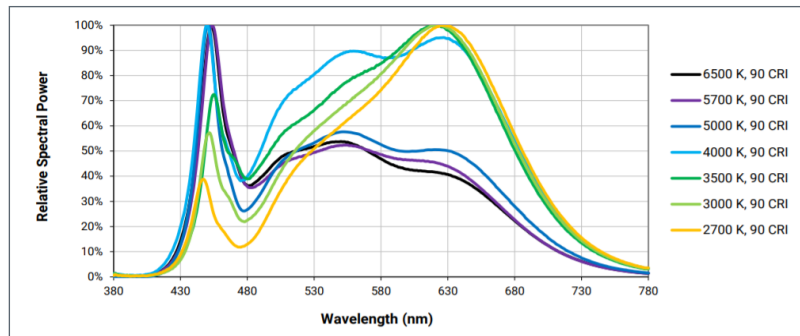
Design resources: Performance Calculator and CAD files available at [LUXTECH.com](https://luxtech.com)

[Request Samples & Pricing Here](#)

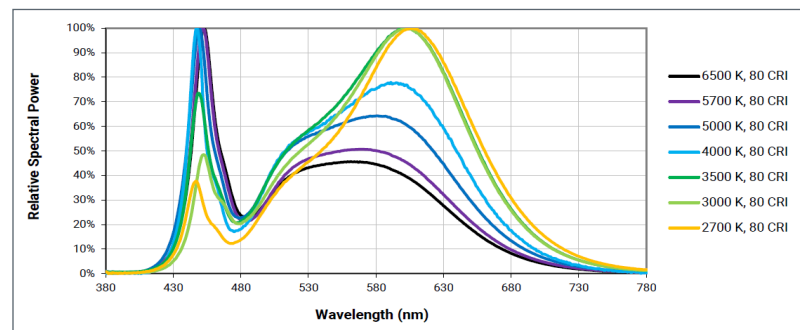
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION

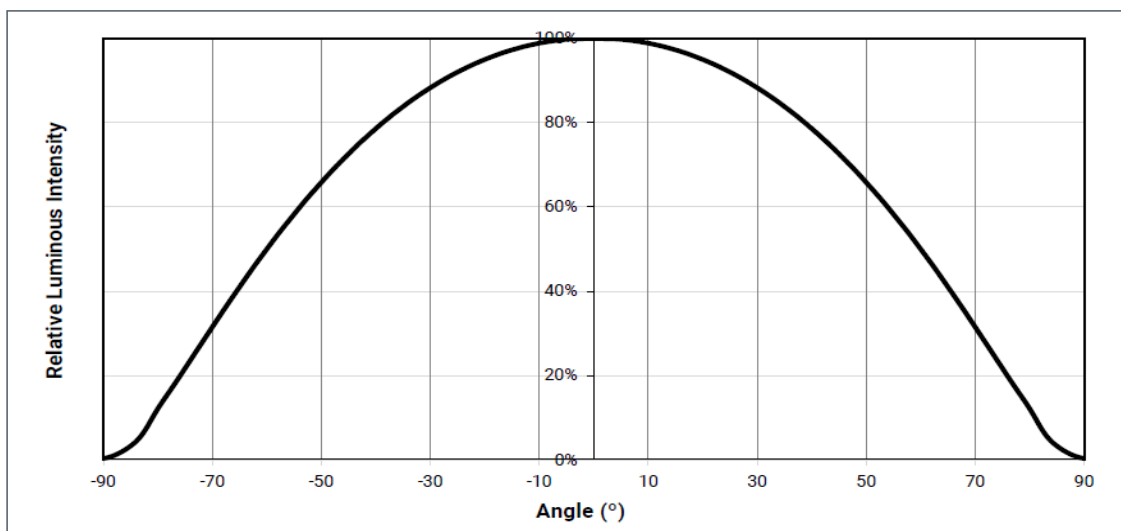
90 CRI



80 CRI



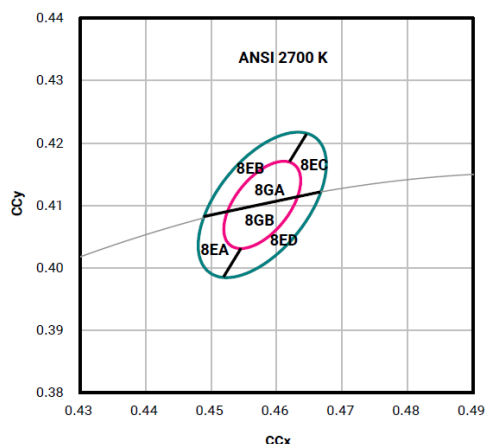
BEAM ANGLE



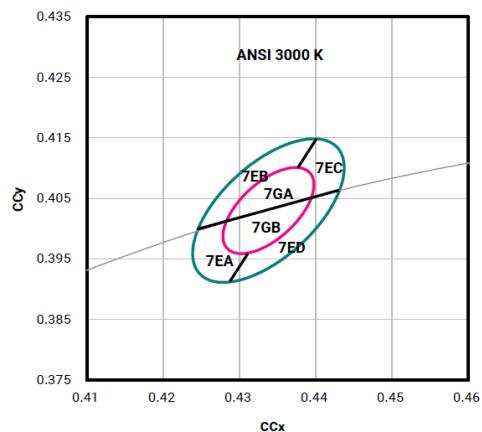
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COLOR BINNING INFORMATION

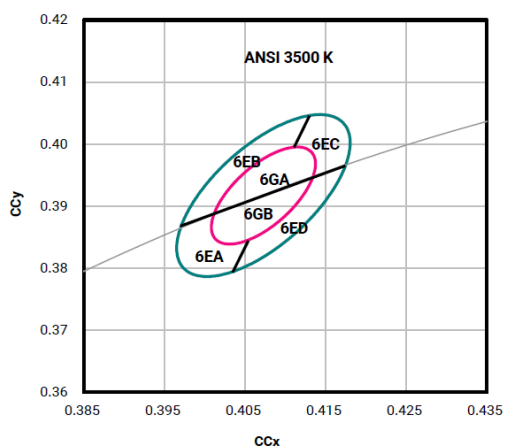
2700K 3-STEP (8GA, 8GB)



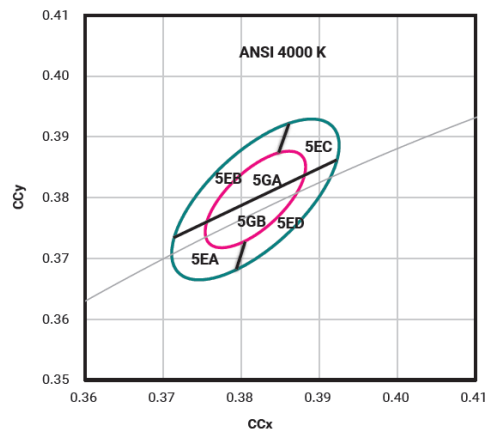
3000K 3-STEP (7GA, 7GB)



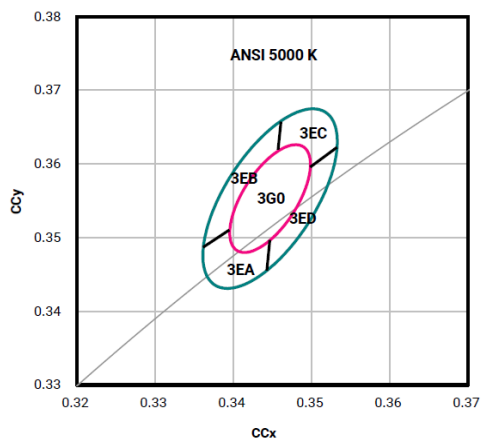
3500K 3-STEP (6GA, 6GB)



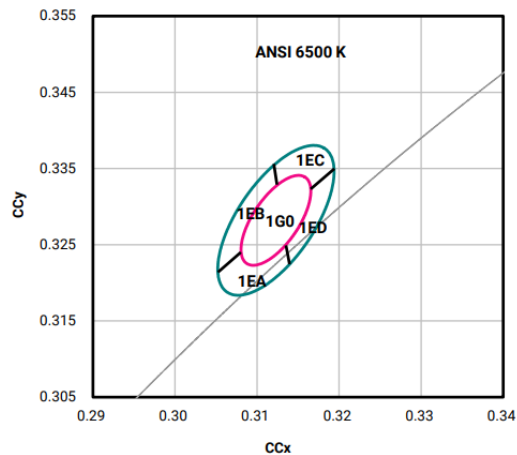
4000K 3-STEP (5GA, 5GB)



5000K 3-STEP (3G0)



6500K 3-STEP (1G0)



[Request Samples & Pricing Here](#)

ORDERING CODES

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ONECUT	27K	80
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	35K*	
	40K*	
	50K	
	65K	

*Normally Stocking

Example: ONECUT-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 from first release
- » Shipment of balance at end of term

EXPEDITE SERVICES

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