

# OneCut HE

## High Efficiency Cuttable LED Module



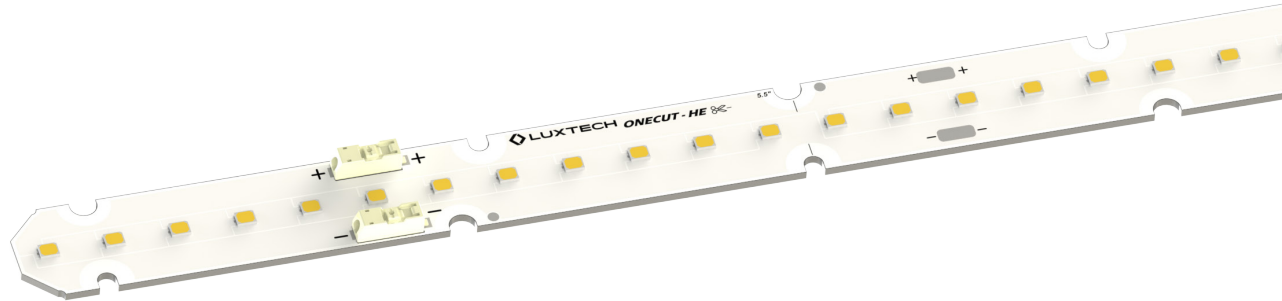
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## About LUXTECH

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



## Product Description

OneCut HE is LUXTECH's high efficiency white linear module. OneCut HE is constant current with a nominal efficacy of 176 lm/W at 2000 lm/ft.

## Technical Specifications

### Mechanical Information:

- » 44" White Module
- » Cuttable Every 5.5 in
- » LED Pitch: 0.46 in
- » Width: 0.787 in (20mm)
- » Screw Size: #6, #8, M3, M4

### Photometric Performance:

- » Nominal Lumen Output: 2000 lm/ft (5000K, 80CRI)
- » Nominal Efficacy: 176 lm/W (5000K, 80CRI, 2000 lm/ft)
- » Beam Angle: 120°
- » CCT Range: 2700K - 6500K
- » 80+ CRI Standard
- » 3-Step MacAdam Ellipse Color Binning

### Electrical Information:

- » Poke-In Connectors
- » Forward Voltage: 37.2V (5000K, 80CRI, 2000 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:

- » TM-21 L70 (6000h) > 36,000 Hrs for  $T_s = 85^\circ\text{C}$ , 65mA Per Section
- » TM-21 L70 (6000h) > 36,000 Hrs for  $T_s = 105^\circ\text{C}$ , 65mA Per Section
- » 5-Year Warranty

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## ELECTRICAL CHARACTERISTICS

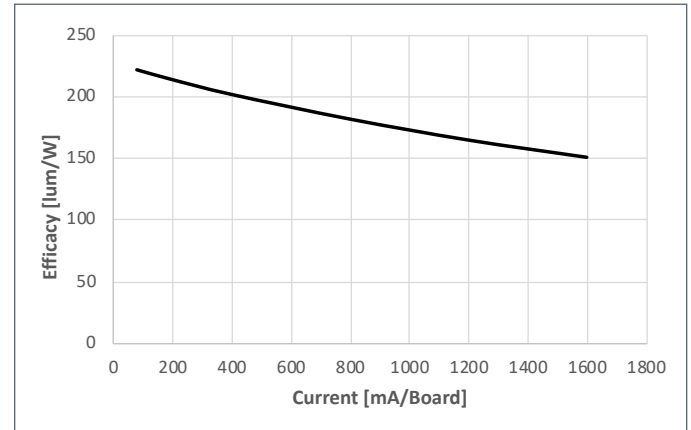
Assuming 5000K, 80 CRI, 45 °C

44"					
Current (mA)	200	400	800	1200	1600
Voltage (V)	32.8	33.9	35.9	37.7	39.4
Flux (lm)	1402	2737	5223	7485	9549
Power (W)	6.56	13.56	28.72	45.24	63.04
Flux (lm/ft)	382	746	1424	2041	2604
Power (W/ft)	1.8	3.7	7.8	12.3	17.2
Efficacy (lm/w)	214	202	182	165	151

EACH 5.5" SEGMENT					
Current (mA)	25	50	100	150	200
Voltage (V)	32.8	33.9	35.9	37.7	39.4
Flux (lm)	175	342	653	936	1194

\*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 10% on flux measurements.

## ABSOLUTE MAXIMUM RATINGS

Assuming 5000K, 80 CRI

PER 44" BOARD	
Current (mA)	1600
Voltage (V)	40
Flux (lm)	9549
Temperature (°C)	125

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

Absolute Max Drive Current = Board Length (in) x 36 (mA)

\*LUXTECH advises to measure the solder point temperature (Ts) of each application to confirm it is below our recommended max temperature.

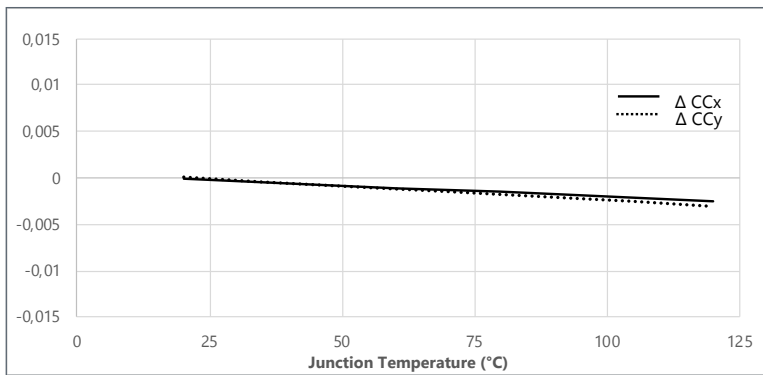
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# DERATING

80 CRI

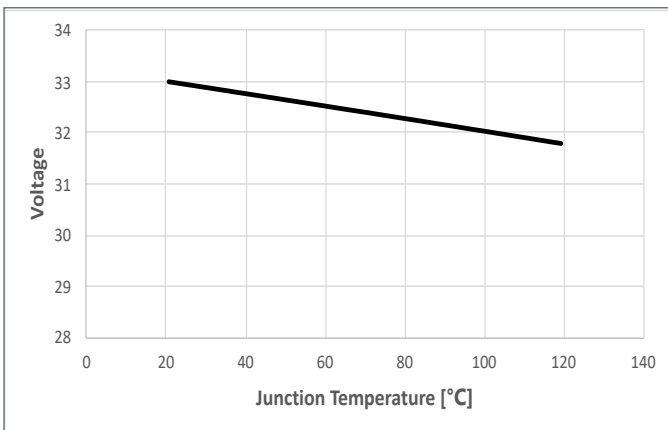
COLOR TEMPERATURE	LIGHT OUTPUT
2700K	95%
3000K	95%
3500K	95%
4000K	100%
5000K	100%
6500K	100%

## CHROMATICITY VS. TEMPERATURE

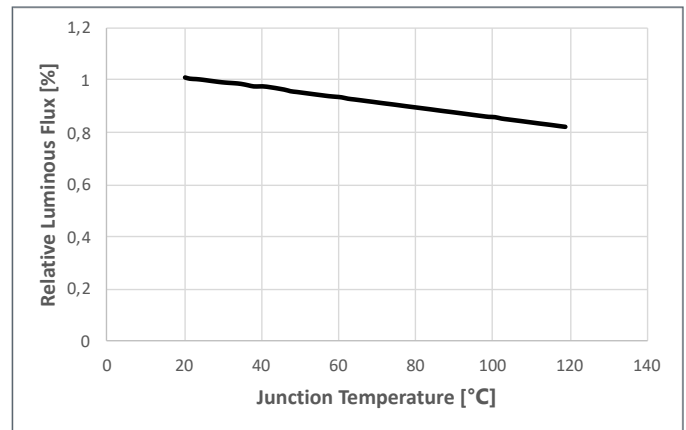


\*Chromaticity Binned at 85 °C

## VOLTAGE VS. TEMPERATURE



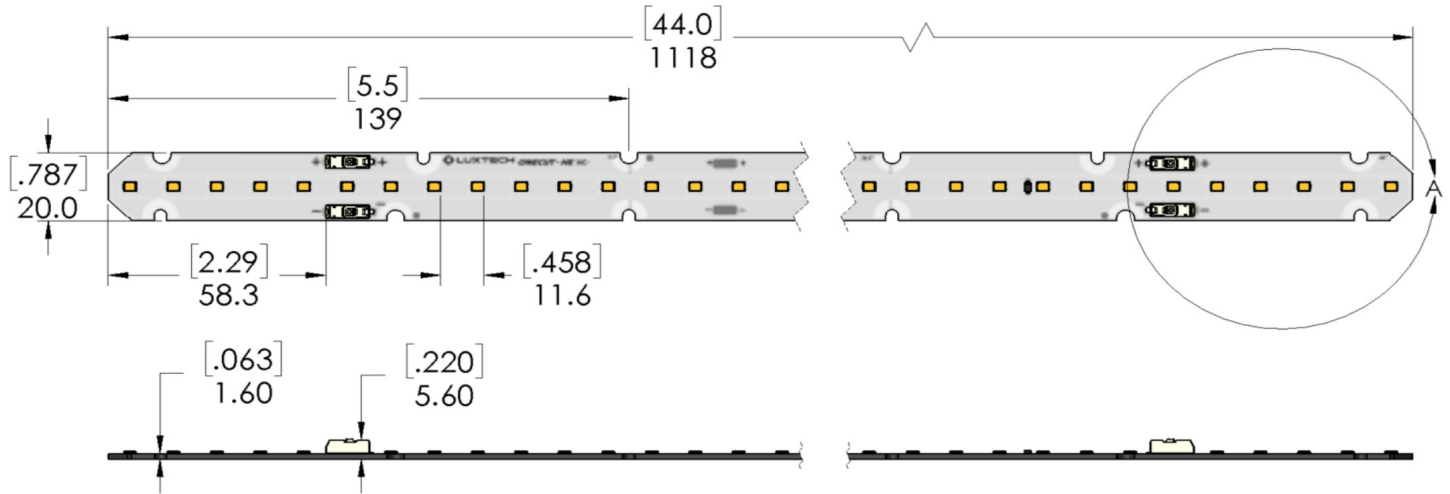
## FLUX VS. TEMPERATURE



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# MECHANICAL CHARACTERISTICS

## TECHNICAL DRAWING



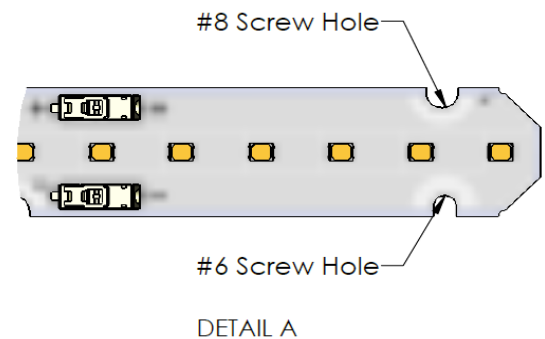
Units: [inches] mm

## PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN)
Width	0.787
Length	44.0
LED Pitch	0.458
Cut Length	5.5
PCB Thickness	0.063
Module Thickness, to Connector Top	0.22
Solder Pad Spacing	5.50
Distance from Connector to Board End	2.3
Screw Hole Sizes	#6, #8, M3, M4

## 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	1.5-55	0-10V
Osram	OPTOTRONIC Intelligent	150-1400	10-56	DALI / DEXAL

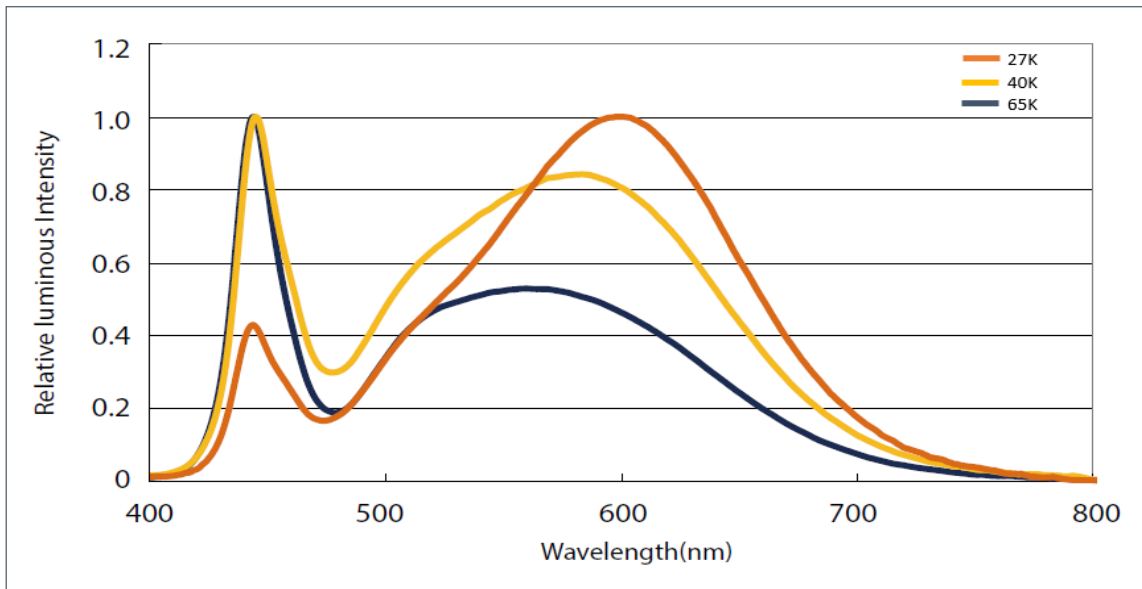
 Design resources: Performance Calculator and CAD files available at [LUXTECH.com](http://LUXTECH.com)

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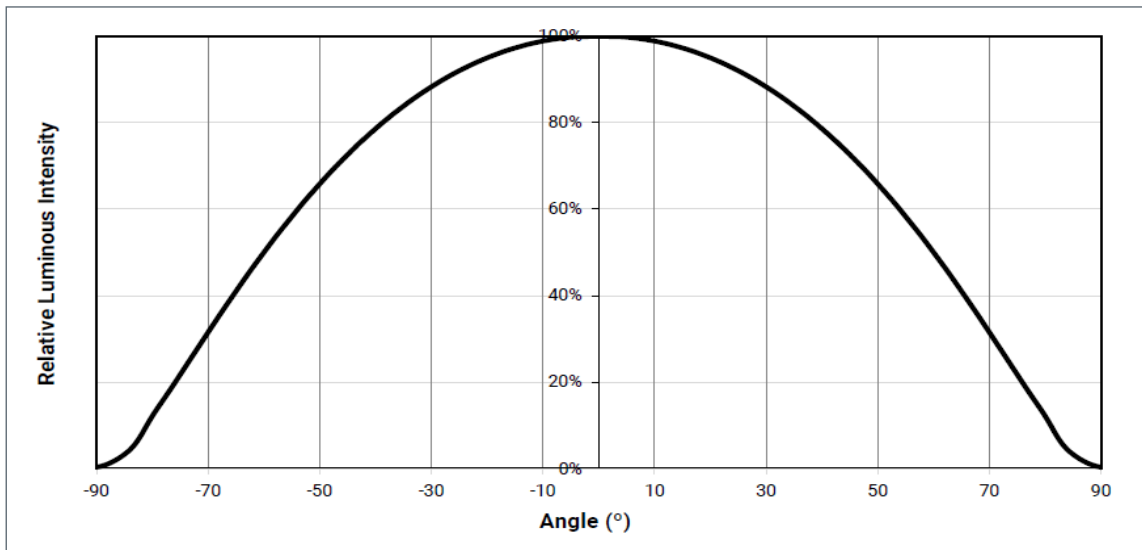
# OPTICAL SPECIFICATIONS

## SPECTRAL POWER DISTRIBUTION

80 CRI



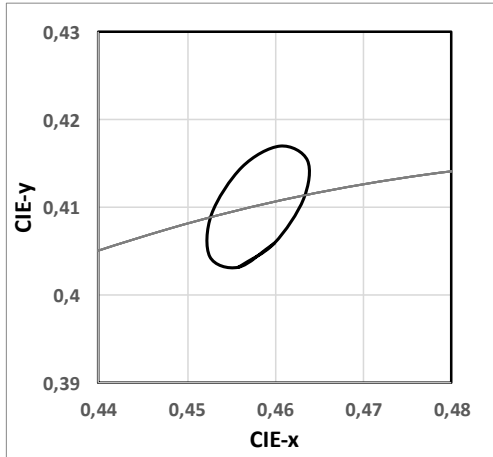
## BEAM ANGLE



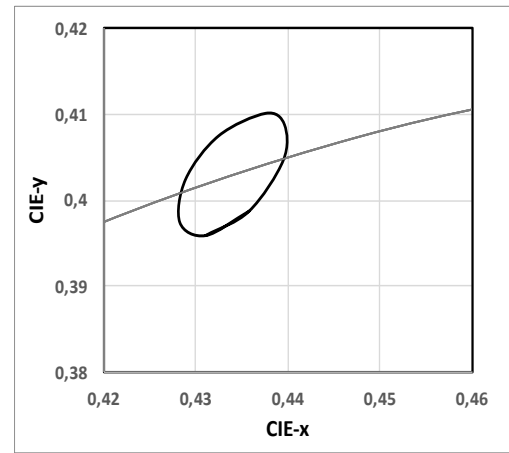
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## COLOR BINNING INFORMATION

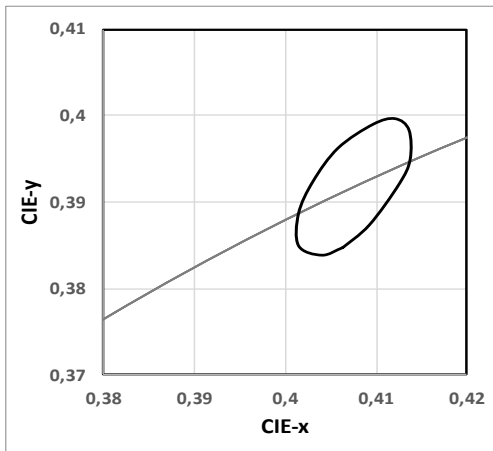
2700K 3-STEP



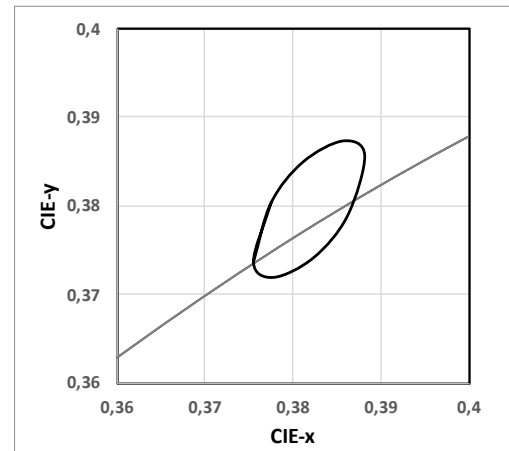
3000K 3-STEP



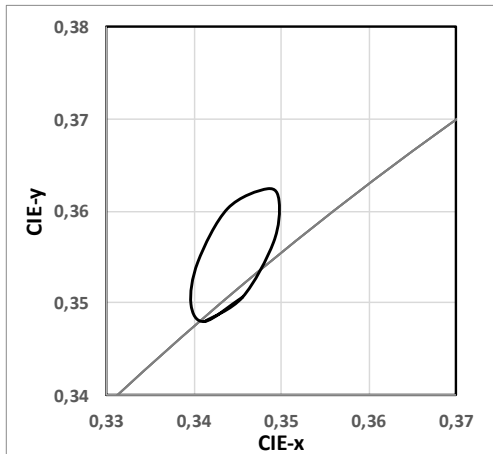
3500K 3-STEP



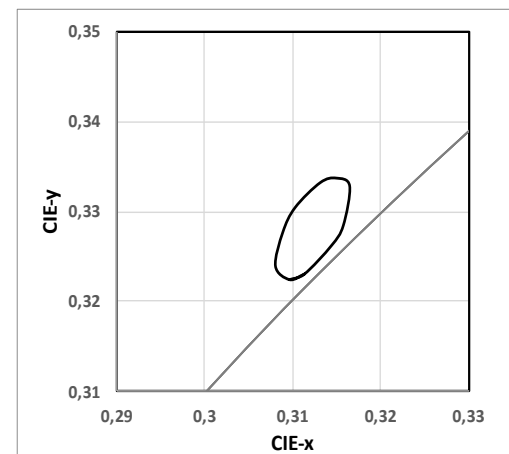
4000K 3-STEP



5000K 3-STEP



6500K 3-STEP



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## ORDERING CODES

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

\*Normally Stocking

Example: ONECUT-HE-40K-80

**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