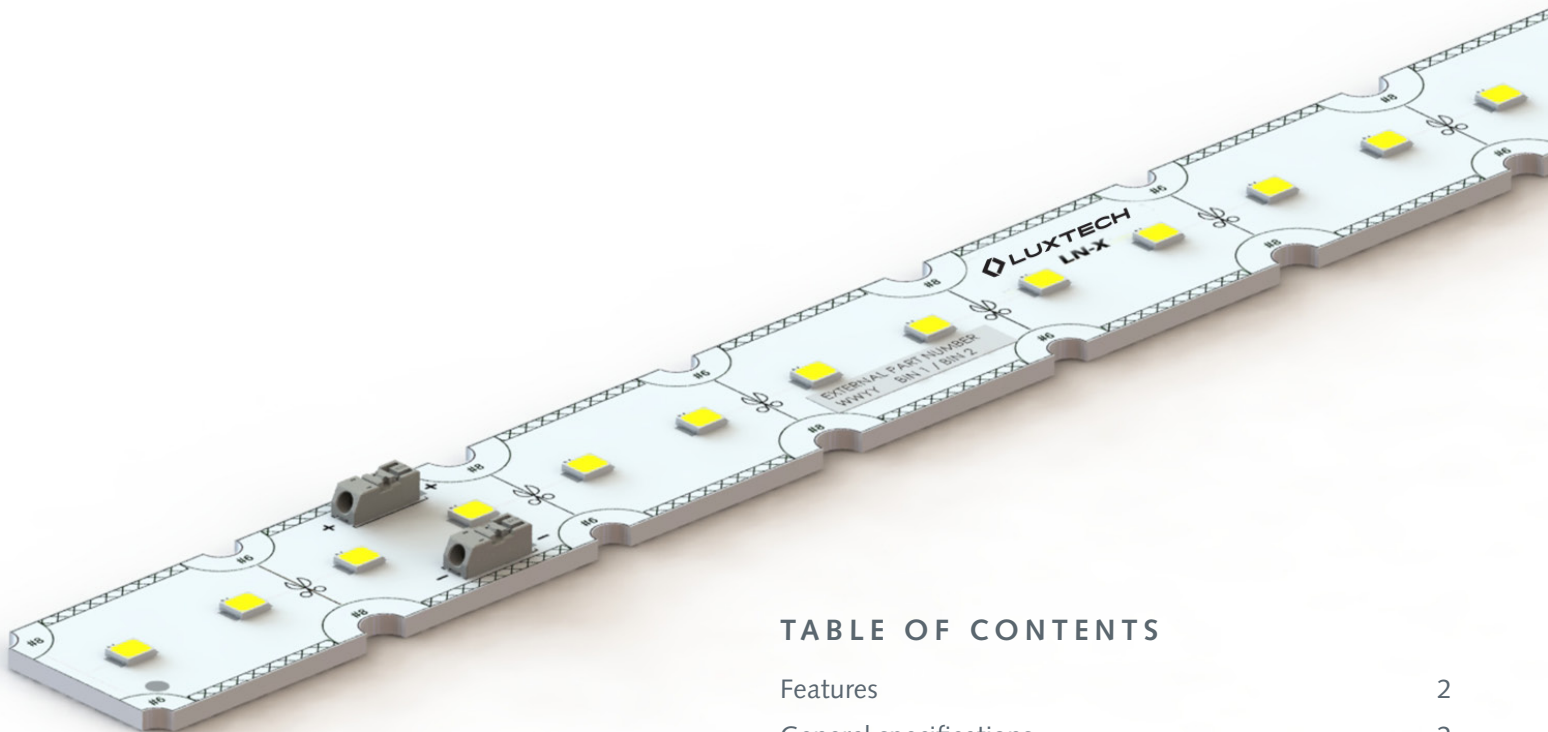


# LN-X

Cuttable LED Module



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Project ||

Type ||

Quantity ||

## LN-X

Cutable LED Module

The LN-X is LUXTECH's flagship white linear module. Designed with people in mind, the LN-X is constant current, cuttable every 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 inch.



### FEATURES

- » 5-Year Warranty
- » 22" Module Cuttable Every Inch
- » Low Profile 0.787" (20mm) Width
- » 50 mil Channel Keep Out
- » Nominal Efficacy: 140 lm/W (30K 90CRI, 1000 lm/ft)
- » 90+ CRI Standard
- » LM-80 Tested LEDs by Cree
- » 3-Step MacAdam Binning

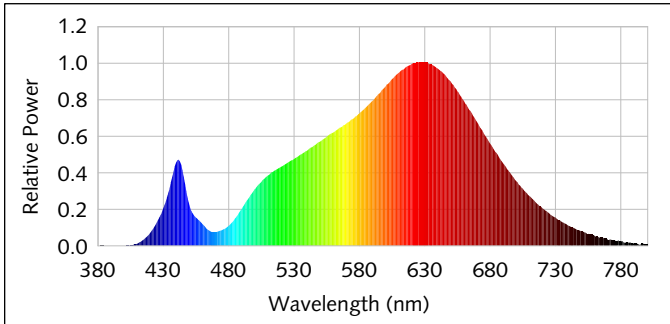
### GENERAL SPECIFICATIONS

- » Forward Voltage: 35V, +/- 4V
- » Max Output: 2600 lm/ft (3000K 90 CRI White LEDs)
- » LED Pitch: 0.5"
- » High Thermal Performance 1.6mm Aluminum MCPCB
- » L70 > 72,000 Hrs for Ts = 85°C, 40mA Per Section
- » 1 oz Copper
- » Beam Angle: 120°
- » Max Recommended Run Length: 8'
- » Wire Size: 20-24 AWG
- » Screw Size: #6 and #8

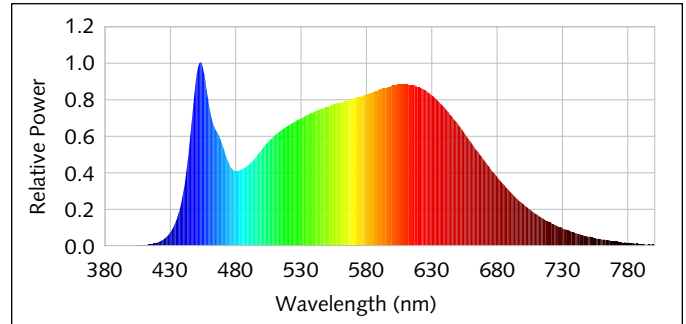
# OPTICAL SPECIFICATIONS

## SPECTRAL POWER DISTRIBUTION, WHITE

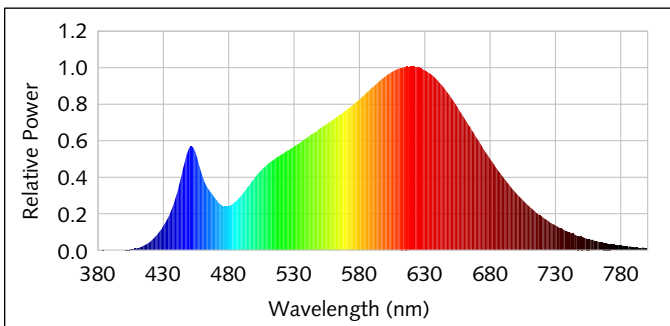
**2700K 3-STEP**



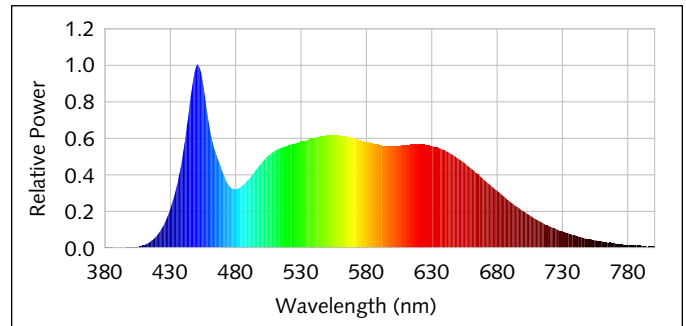
**4000K 3-STEP**



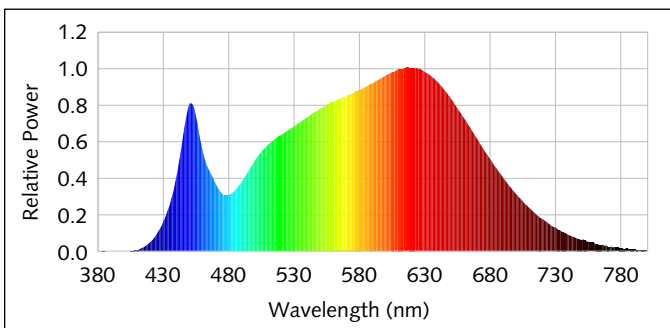
**3000K 3-STEP**



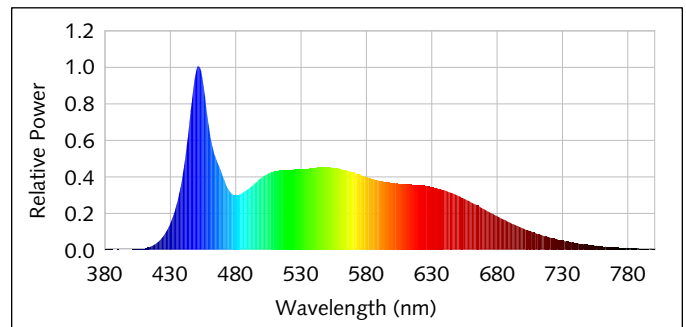
**5000K 3-STEP**



**3500K 3-STEP**



**6500K 3-STEP**



Project ||

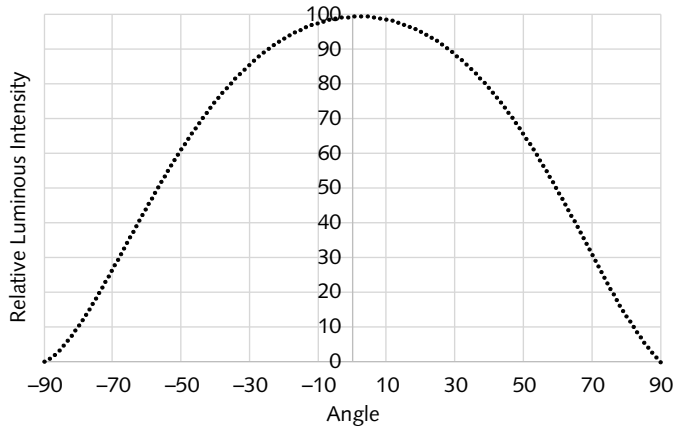
Type ||

Quantity ||

# OPTICAL SPECIFICATIONS

## BEAM ANGLE

WHITE



Project ||

Type ||

Quantity ||

## ELECTRICAL CHARACTERISTICS

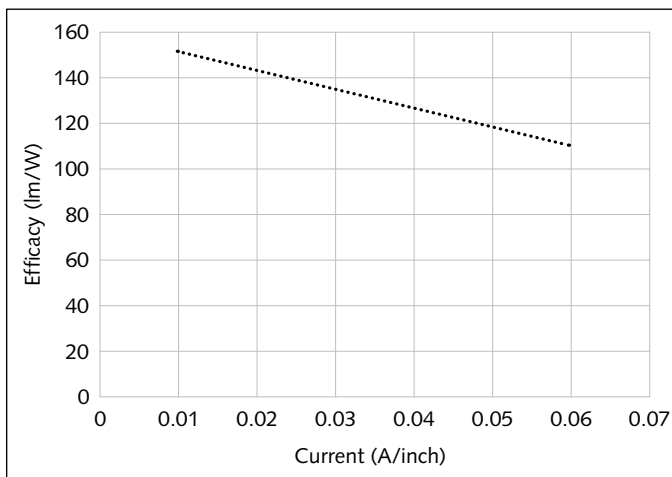
Assuming 30K, 90 CRI, 25°C

22"					
Current (mA)	220	440	660	990	1320
Voltage (V)	32.6	33.8	34.7	35.8	36.8
Flux (lm)	528	2024	2948	4202	5236

1"					
Current (mA)	10	20	30	45	60
Voltage (V)	32.6	33.8	34.7	35.8	36.8
Flux (lm)	24	92	134	191	238

## EFFICACY VS. CURRENT

WHITE



*Project* ||*Type* ||*Quantity* ||

## ABSOLUTE MAXIMUM RATINGS

### PER 1" SEGMENT

<b>Current (mA)</b>	60
<b>Voltage (V)</b>	39
<b>Flux (lm)</b>	270
<b>Temperature (°C)</b>	85

### COMPONENTS

<b>Max Connector Current (A)</b>	3
<b>Max Recommended Run Length (ft)</b>	8

Project ||

Type ||

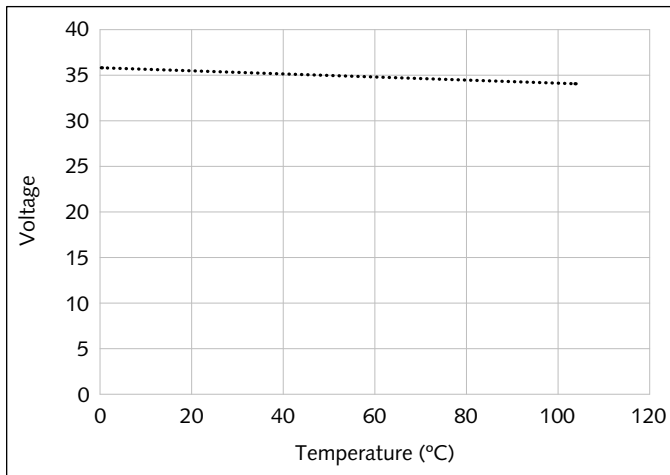
Quantity ||

## DERATING

COLOR TEMPERATURE	LIGHT OUTPUT
2700K	96%
3000K	100%
3500K	103%
4000K	106%
5000K	106%
6500K	106%

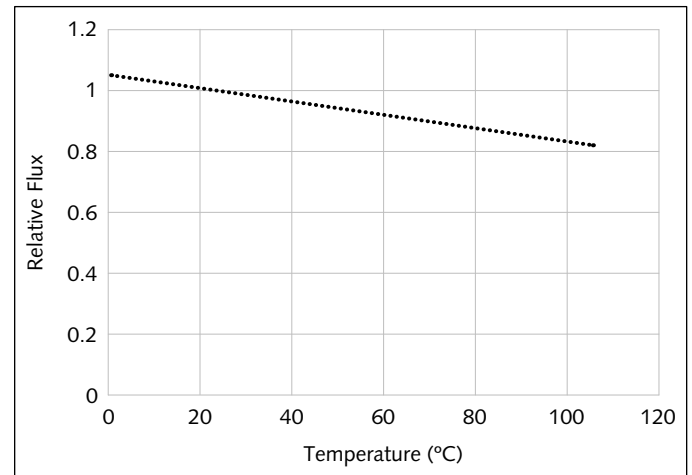
### VOLTAGE VS. TEMPERATURE

WHITE



### FLUX VS. TEMPERATURE

WHITE



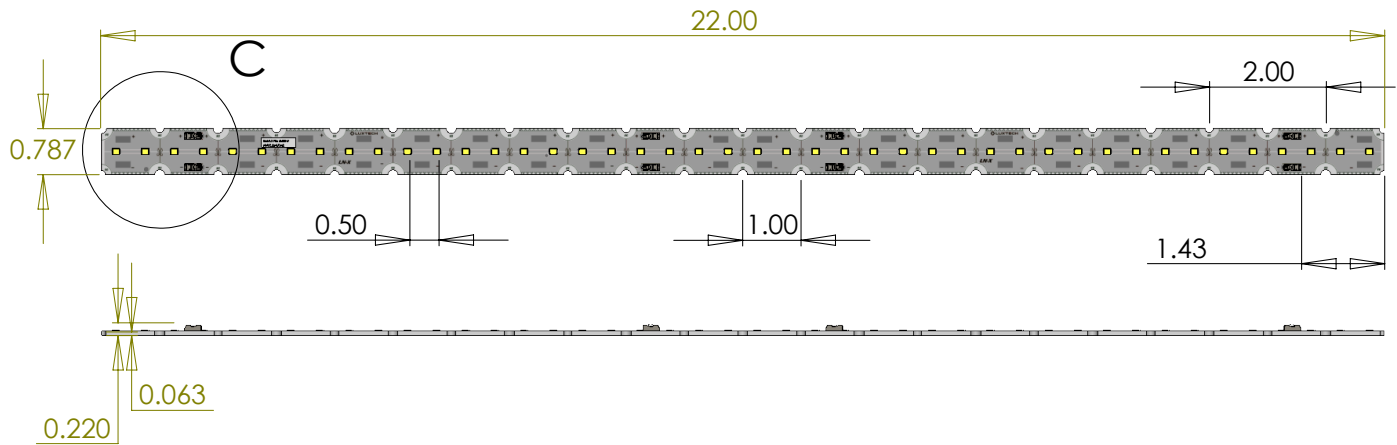
Project ||

Type ||

Quantity ||

# MECHANICAL CHARACTERISTICS

## TECHNICAL DRAWING



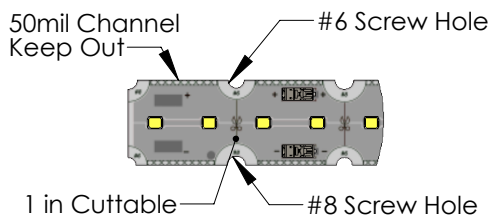
Units: Inches [mm]

## PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN)
Width	0.787
Length	22.0
Cut Length	1.0
PCB Thickness	0.06
Module Thickness, to Connector Top	0.22
Screw Hole Sizes	#6, #8
Connector to Board Edge Distance	1.43

## WIRING

PARAMETER	SPECIFICATION
Wire Size	20-24 AWG





*Project* ||

*Type* ||

*Quantity* ||

## ACCESSORIES AND DESIGN RESOURCES

### DRIVER SELECTION

BRAND	MODEL	PROGRAMMABLE DRIVE CURRENT (MA)	OUTPUT VOLTAGE (V)	DIMMING
<b>AC Electronics</b>	50CD1.4APC7	400-1400	15-55	0-10V
<b>EldoLED</b>	SOLOdrive 566/U (A/S/L)	150-1400	1.5-55	0-10V
<b>Philips</b>	Xitanium XR025C100V036XPM1	300-1000	18-36	0-10V
<b>Roal</b>	RSOZ070-60-Full	350-2100	30-56	0-10V
<b>Thomas Research Products</b>	LED55WPG1-055-C1500-D2	100-1500	12-55	0-10V

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

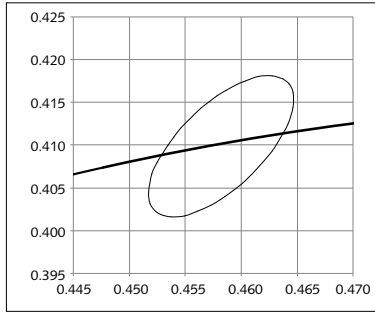
Project ||

Type ||

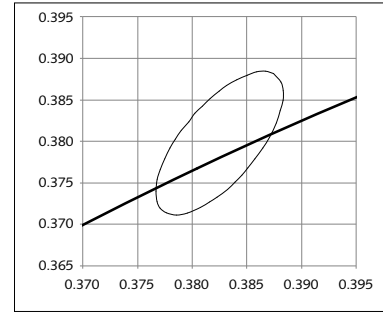
Quantity ||

## COLOR BINNING INFORMATION

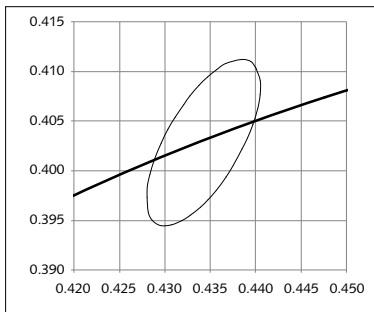
**2700K 3-STEP**



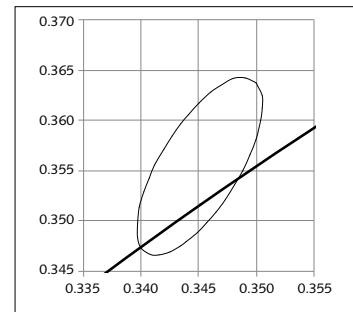
**4000K 3-STEP**



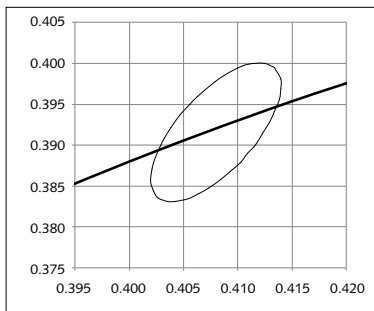
**3000K 3-STEP**



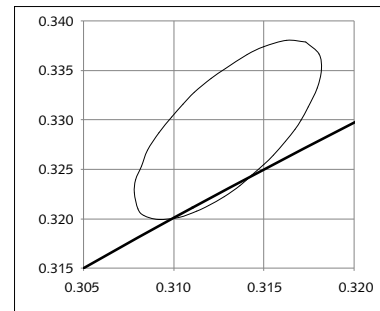
**5000K 3-STEP**



**3500K 3-STEP**



**6500K 3-STEP**



Project ||

Type ||

Quantity ||

## ORDERING INFORMATION

### PRODUCT CODES

PRODUCT	COLOR TEMP	CRI
LN-X-C	27K	90
	30K	
	35K	
	40K	

EXAMPLE: LN-X-C-30K-90

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REV. 1.4



*People Centric Lighting*

## ABOUT LUXTECH

LUXTECH is an LED component design and manufacturing company specializing in high quality LED modules and architectural grade lighting solutions. LUXTECH is a catalyst for health and well-being through human centric lighting systems. Our inventive custom engineering for natural lighting is advancing emotional wellness and productivity with the potential for global social impact. LUXTECH is located in Philadelphia's Old City neighborhood.

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