

LN-X

Cuttable LED Module

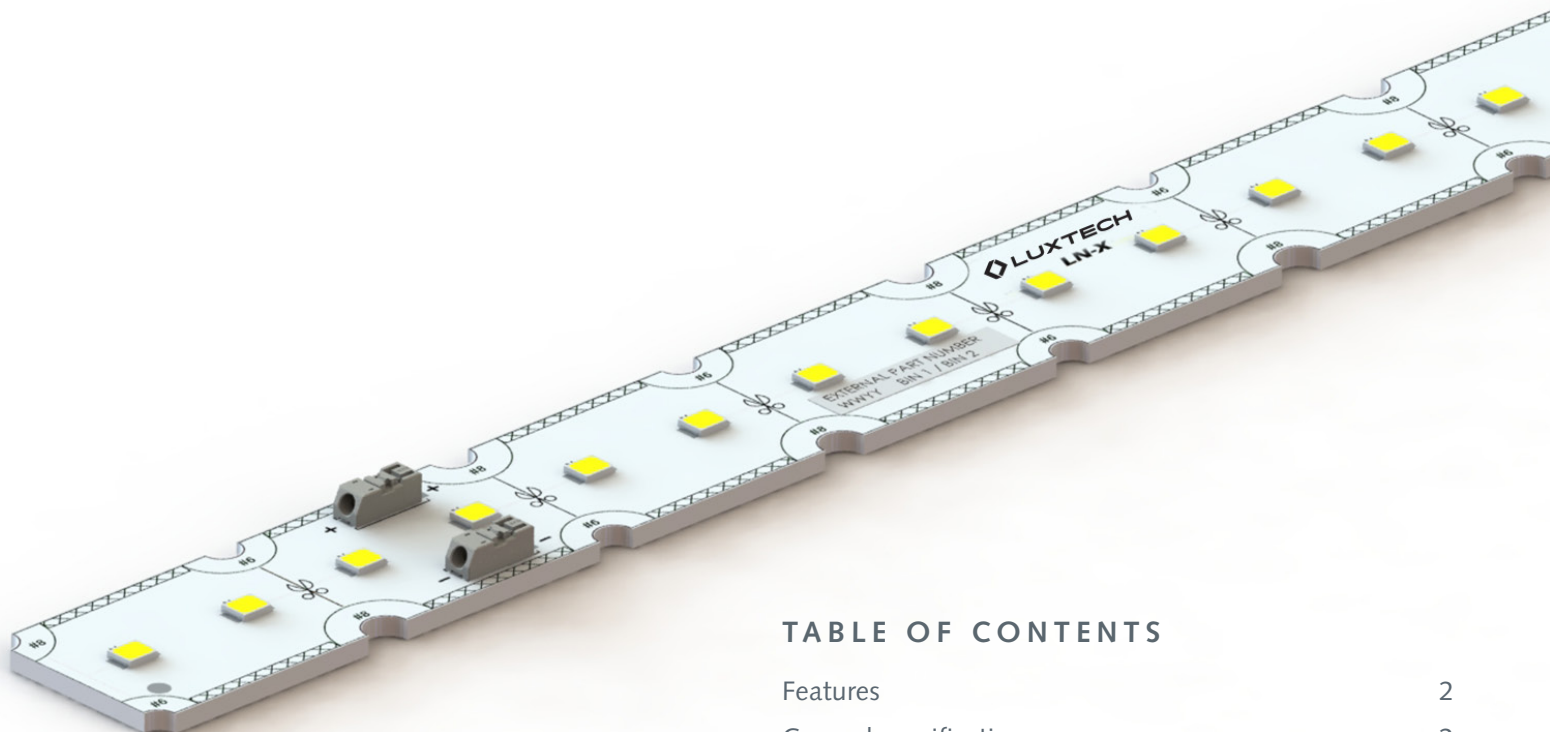


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Project ||

Type ||

Quantity ||

LN-X

Cuttable 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: 132 lm/W (90+ CRI)
- » 90+ CRI Standard
- » LM-80 Tested LEDs by Samsung
- » 3-Step MacAdam Binning

GENERAL SPECIFICATIONS

- » Forward Voltage: 35V, +/- 4V
- » Max Output: 2000 lm/ft (3000K 90 CRI White LEDs)
- » LED Pitch: 0.5"
- » High Thermal Performance 1.6mm Aluminum MCPCB
- » L70 > 60,000 Hrs for Ts = 55°C, 40mA Per Section
- » L70 = 49,000 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

Project ||

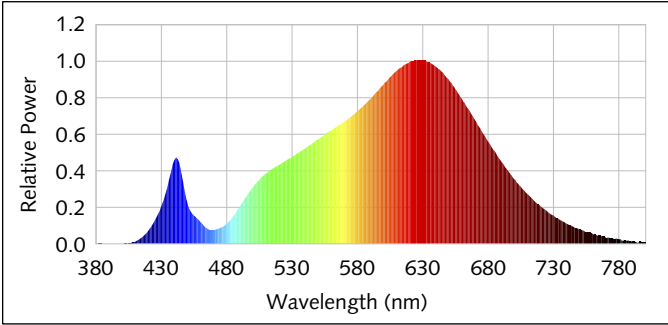
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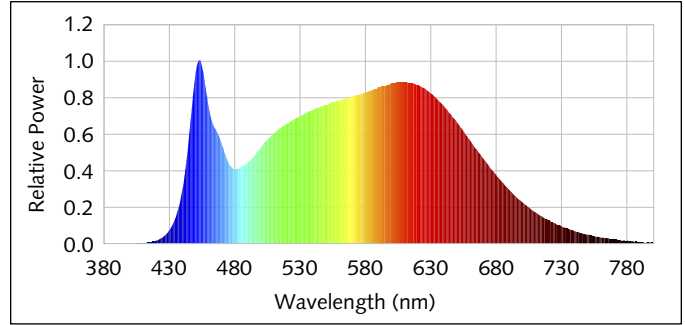
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION, WHITE

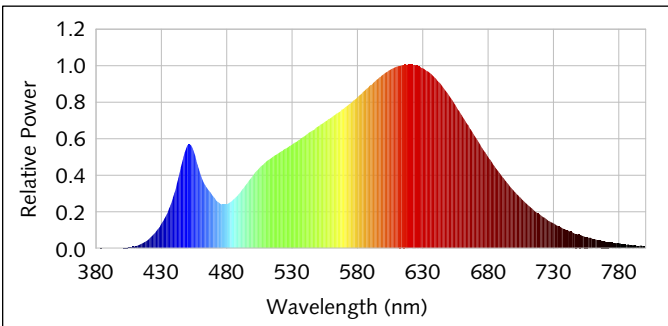
2700K 3-STEP



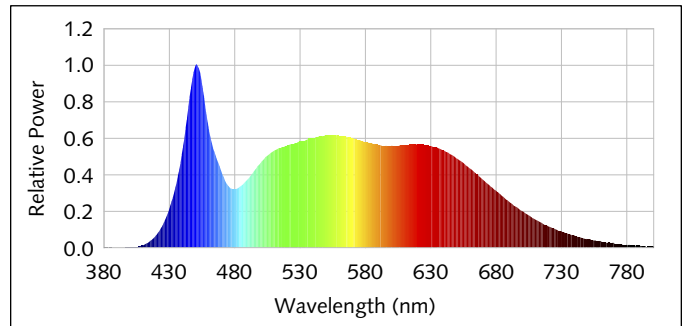
4000K 3-STEP



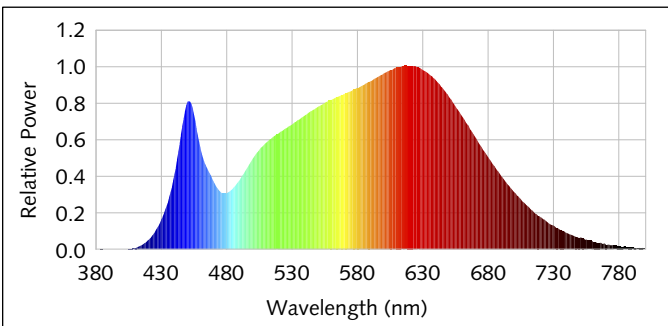
3000K 3-STEP



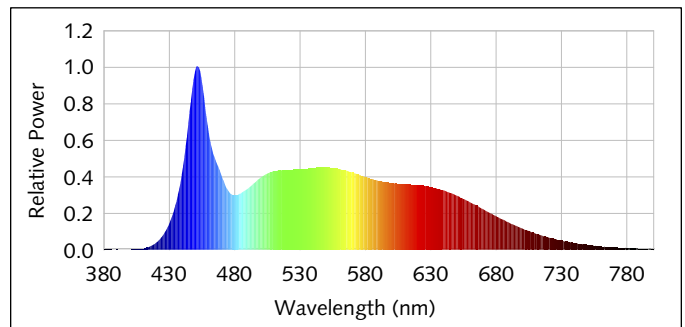
5000K 3-STEP



3500K 3-STEP



6500K 3-STEP



Project ||

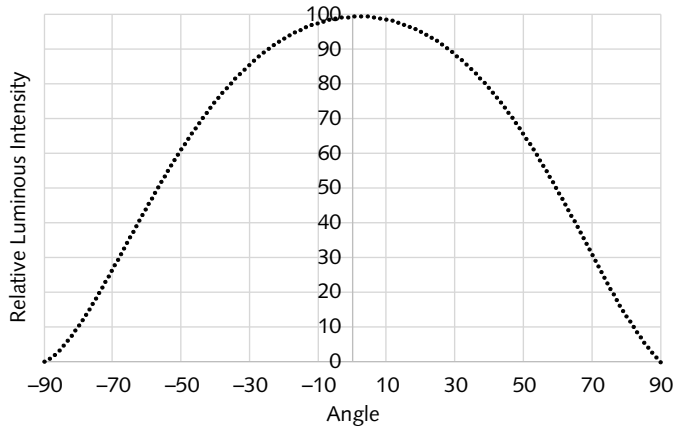
Type ||

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OPTICAL SPECIFICATIONS

BEAM ANGLE

WHITE



Project ||

Type ||

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ELECTRICAL CHARACTERISTICS

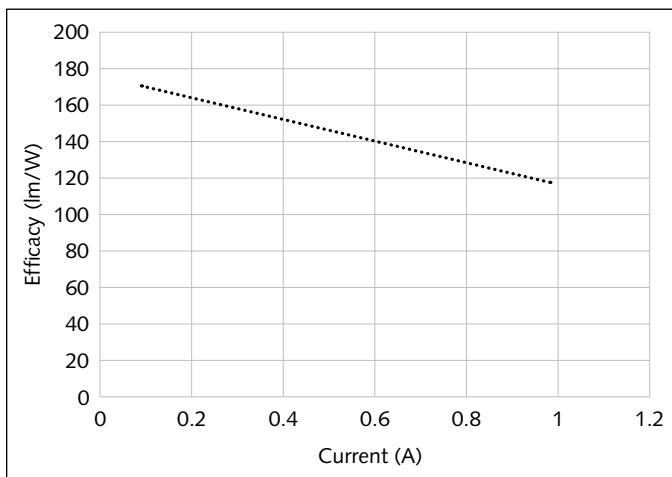
Assuming 35K 90 CRI, 25°C

22"					
Current (mA)	100	300	550	880	1100
Voltage (V)	31.4	32.48	33.62	35	36.3
Flux (lm)	475	1340	2280	3360	4035

1"					
Current (mA)	5	15	25	40	50
Voltage (V)	31.4	32.48	33.62	35	36.3
Flux (lm)	22	60	104	152	183

EFFICACY VS. CURRENT

WHITE



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ABSOLUTE MAXIMUM RATINGS

PER 22" MODULE

Current (mA)	1100
Voltage (V)	39
Flux (lm)	4035
Temperature (°C)	85

COMPONENTS

Max Connector Current (A)	3
Max Recommended Run Length (ft)	8

Project ||

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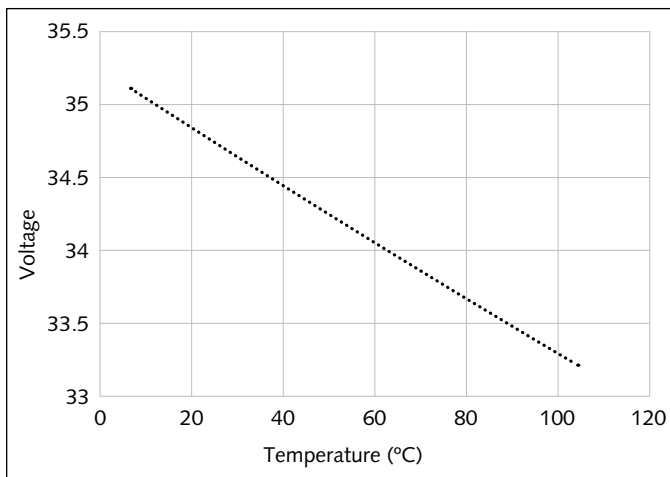
Quantity ||

DERATING

COLOR TEMPERATURE	LIGHT OUTPUT
2700K	97%
3000K	100%
3500K	106%
4000K	111%
5000K	111%
6500K	107%

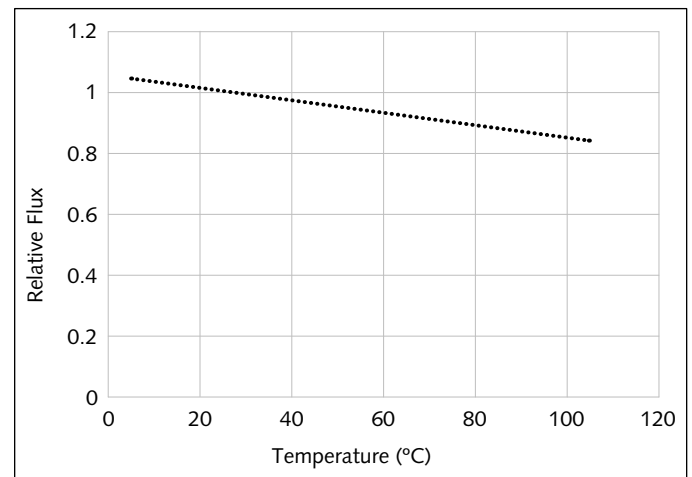
VOLTAGE VS. TEMPERATURE

WHITE



FLUX VS. TEMPERATURE

WHITE



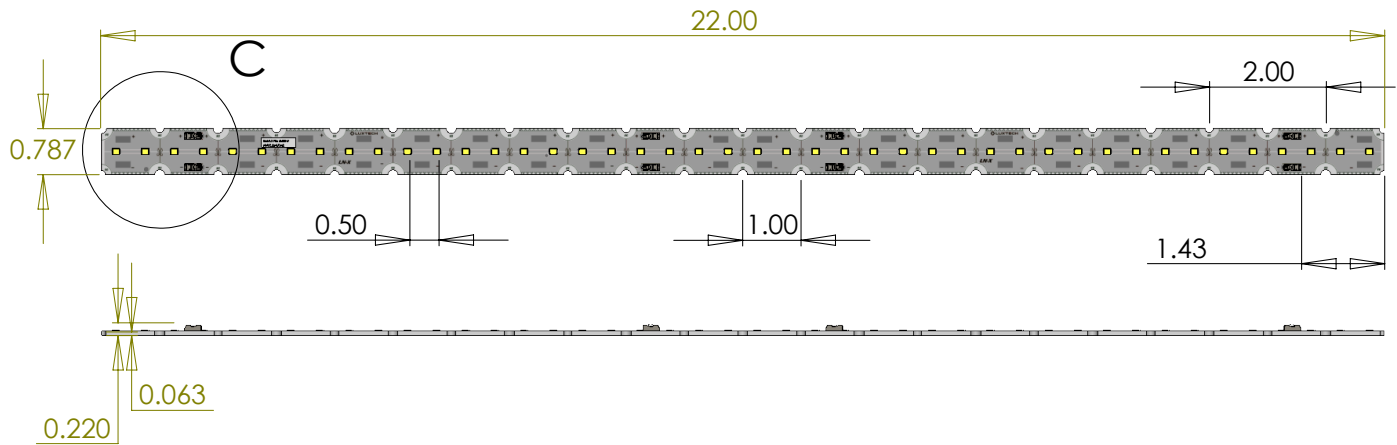
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MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



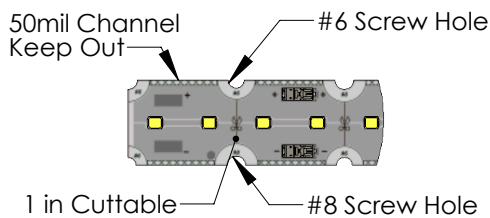
Units: Inches [mm]

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



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ACCESSORIES AND DESIGN RESOURCES

DRIVER SELECTION

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

Design resources: Calculator and CAD files available at LUXTECH.com

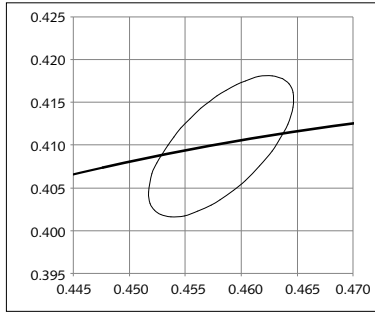
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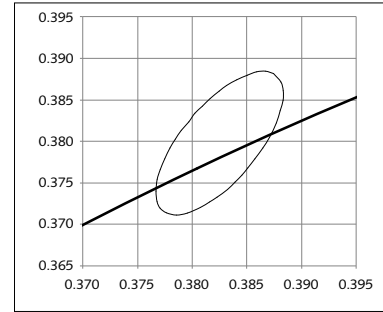
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COLOR BINNING INFORMATION

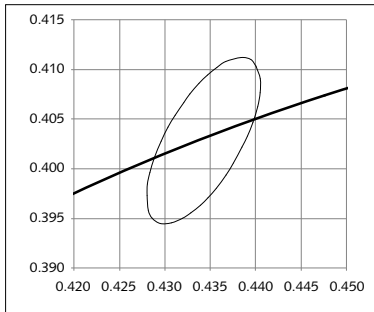
2700K 3-STEP



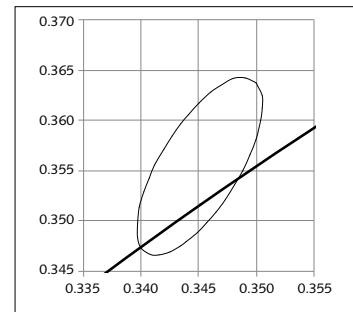
4000K 3-STEP



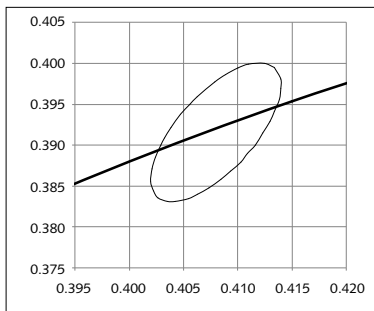
3000K 3-STEP



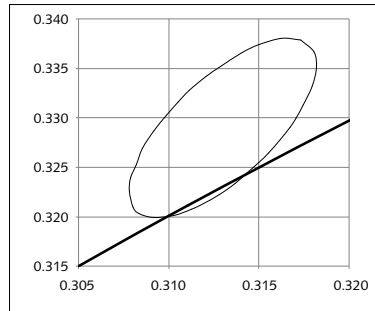
5000K 3-STEP



3500K 3-STEP



6500K 3-STEP



Project ||

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ORDERING INFORMATION

PRODUCT CODES

PRODUCT	COLOR TEMP	CRI
LN-X	27K	90
	30K	
	35K	
	40K	
	50K	
	65K	

EXAMPLE: LN-X-30K-90

REV. 1.3



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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