

# LINEAR Warm Dim

Linear Warm Dim Constant Current LED Module



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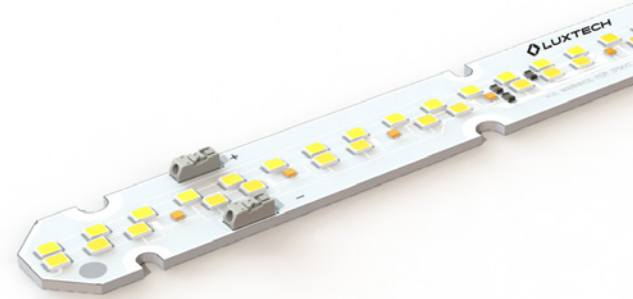
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## LINEAR Warm Dim

Linear Warm Dim Constant Current LED Module

LUXTECH LINEAR Warm Dim is a high-performance, high-efficacy LED module for architectural lighting applications. Each constant current module follows a halogen dimming curve passively when used with any constant current reduction dimmer. The Zhaga-compliant form factor is available in two lengths.



### FEATURES

- » 5-Year Warranty
- » Available in 11" and 22" Lengths
- » High Thermal Performance 1.6" Aluminum MCPCB
- » Low Profile 0.787" (20mm) Width
- » Constant Current Input
- » High Efficacy
- » LEDs LM-80 Tested by Samsung and Luminus
- » Dims Passively with Constant Current Reduction Dimming and Compatible Drivers
- » 90 CRI Standard
- » UL-Ready Components

### GENERAL SPECIFICATIONS

- » Forward Voltage: 36 V +/- 3.5V
- » Max Output: 1800 lm/ft
- » Color Rendering Index: 90+ throughout dimming range
- » L70 > 54,000 Hrs for Ts = 85°C at 120 mA LED current
- » 1 oz Copper
- » 20-24 AWG Connectors
- » Beam Angle: 120°
- » Max Recommended Run Length: 8'
- » Screw Size: #8 or #6

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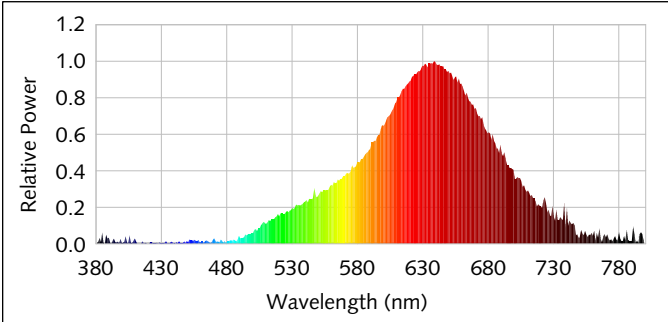
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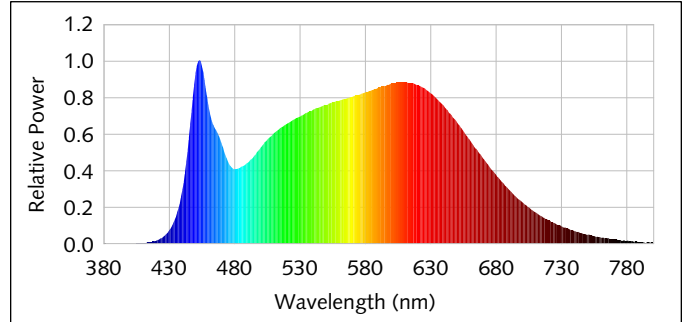
# OPTICAL SPECIFICATIONS

## SPECTRAL POWER DISTRIBUTION

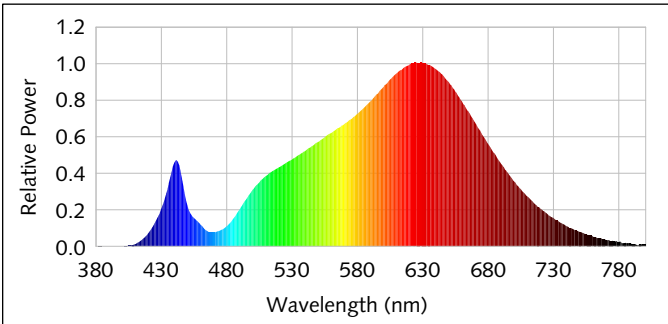
**1800K 5-STEP**



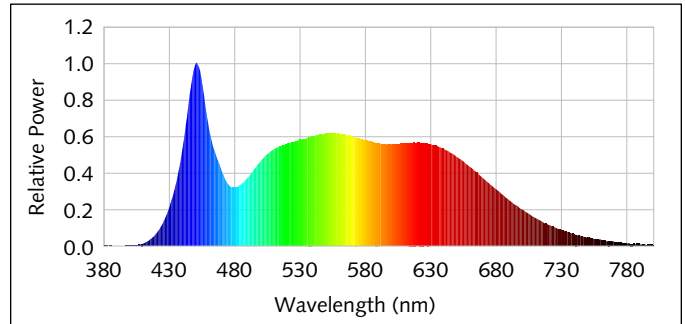
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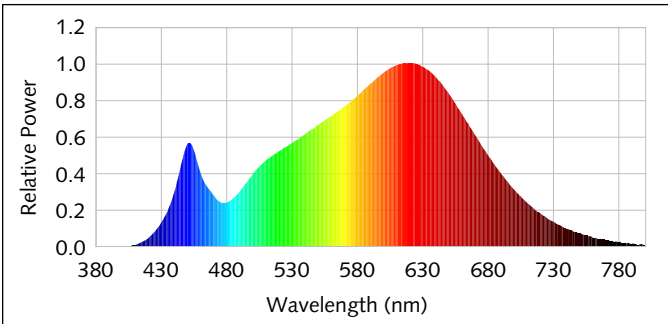
**2700K 3-STEP**



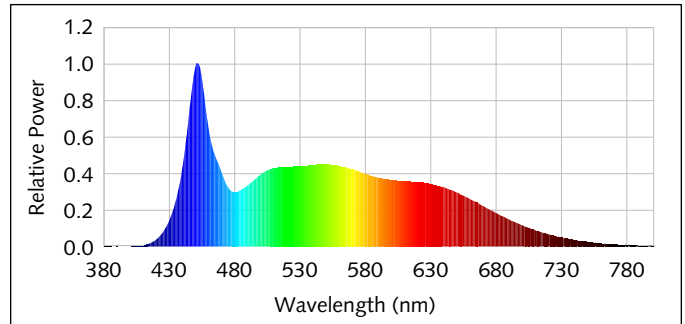
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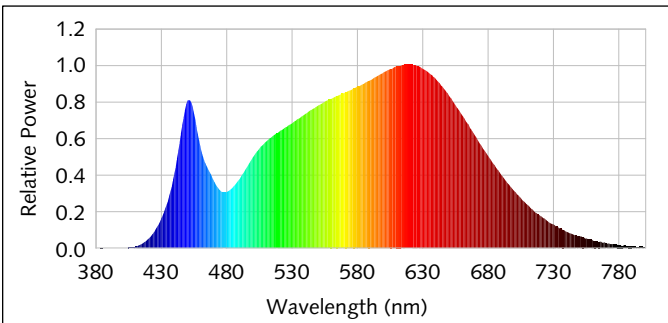
**3000K 3-STEP**



**6500K 3-STEP**



**3500K 3-STEP**



Project ||

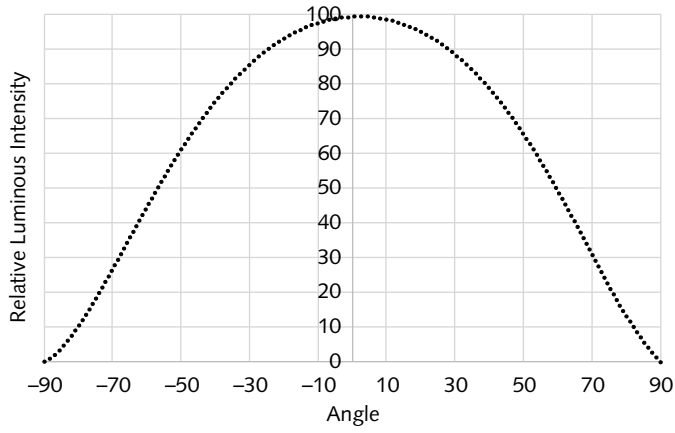
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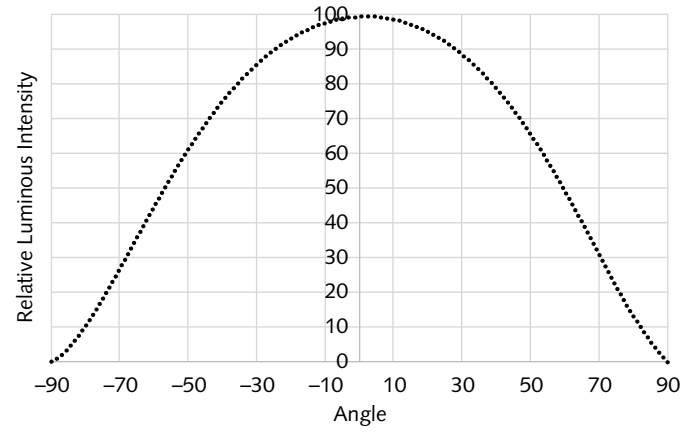
# OPTICAL SPECIFICATIONS

## BEAM ANGLE

18K



27K-65K



Project ||

Type ||

Quantity ||

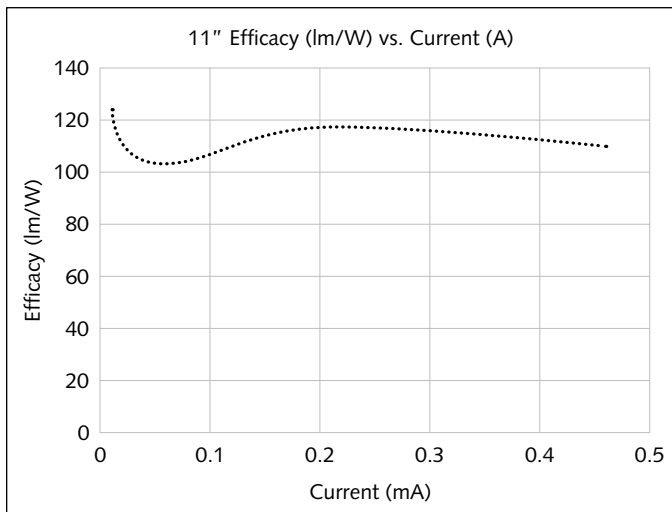
# ELECTRICAL CHARACTERISTICS

Assuming 25°C

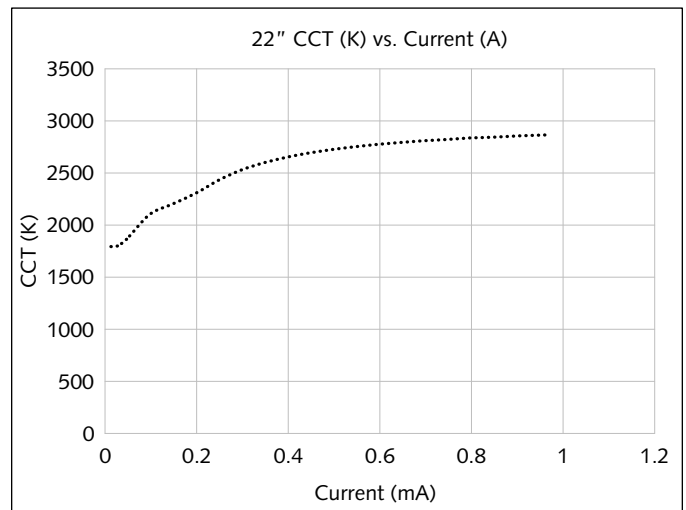
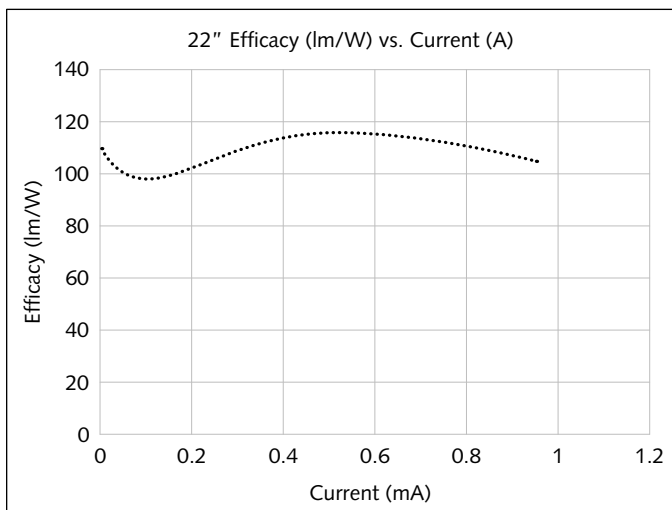
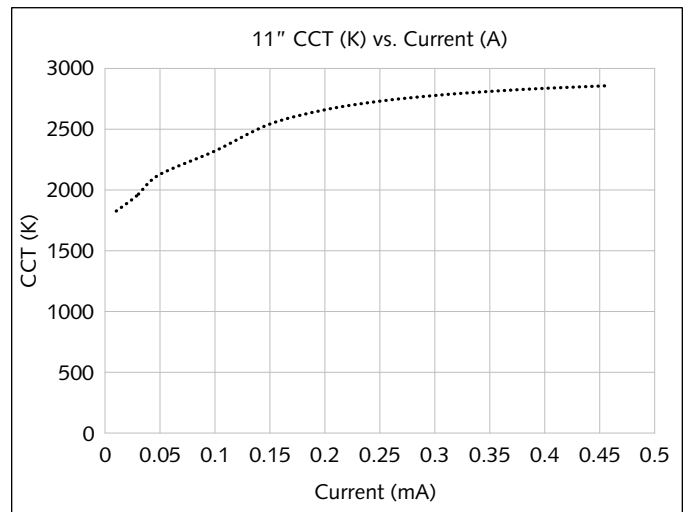
22"					
Current (mA)	10	100	300	650	960
Voltage (V)	21.3	27.4	32	34.6	36.6
CCT (K)	1800	2100	2530	2800	2900
Flux (lm)	25	280	1070	2725	3680

11"					
Current (mA)	10	50	150	325	480
Voltage (V)	22.5	27.4	32	34.6	36.6
CCT (K)	1800	2100	2530	2800	2900
Flux (lm)	25	280	555	1350	1770

## EFFICACY VS. CURRENT



## CCT VS. CURRENT



Project ||

Type ||

Quantity ||

## ABSOLUTE MAXIMUM RATINGS

WHITE	
Current (mA/ft)	480
Voltage (V)	39.5
CCT (K)	3000
Flux (lm/ft)	1800
Temperature (°C)	85

Project ||

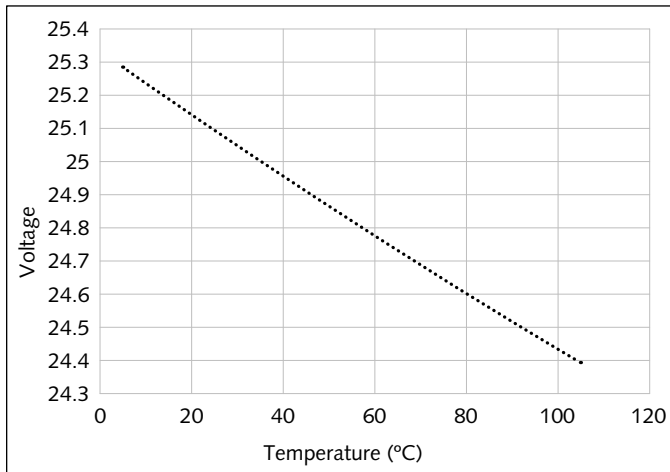
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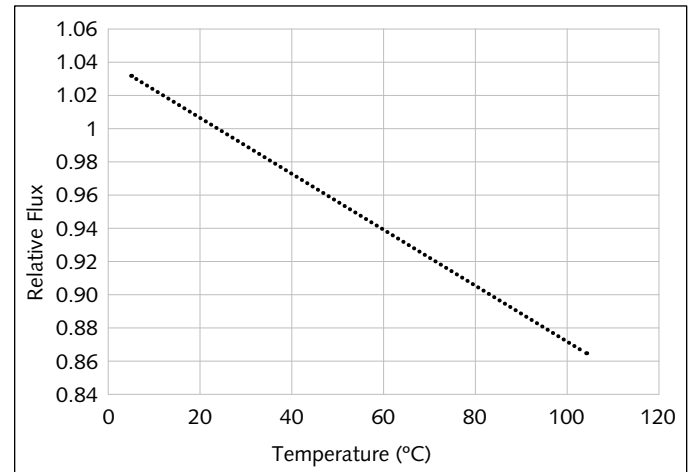
## DERATING

COLOR TEMPERATURE	LIGHT OUTPUT
2700K	97%
3000K	100%
3500K	106%
4000K	111%
5000K	111%
6000K	107%

### VOLTAGE VS. TEMPERATURE



### FLUX VS. TEMPERATURE



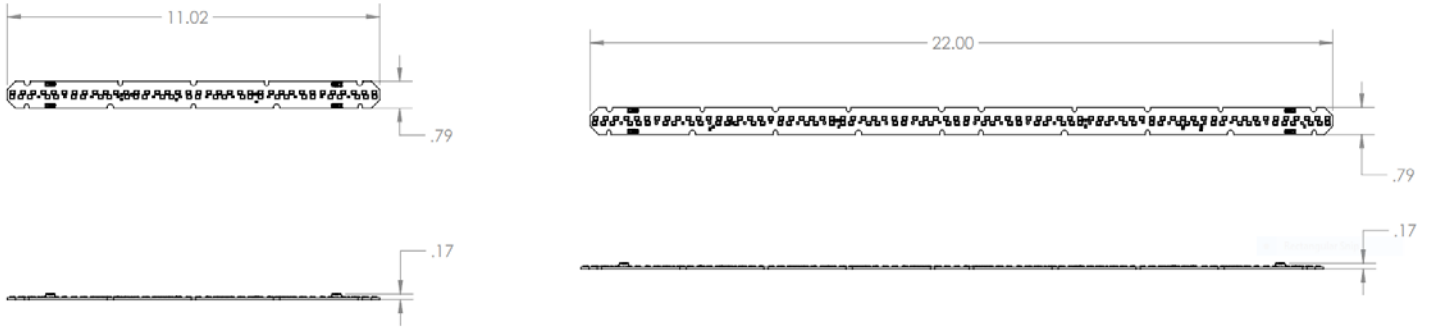
Project ||

Type ||

Quantity ||

# MECHANICAL CHARACTERISTICS

## TECHNICAL DRAWING



Units: Inches

## PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN) 11" MODULE	SPECIFICATION (IN) 22" MODULE
<b>Length</b>	11.02	22.00
<b>Width</b>	0.79	0.79
<b>Thickness</b>	0.17	0.17

## WIRING

PARAMETER	SPECIFICATION
<b>Wire Size</b>	20-24 AWG



Project ||

Type ||

Quantity ||

## ACCESSORIES AND DESIGN RESOURCES

### DRIVER SELECTION

Works with any Constant Current Reduction dimmer and compatible driver rated for the module's forward voltage.

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

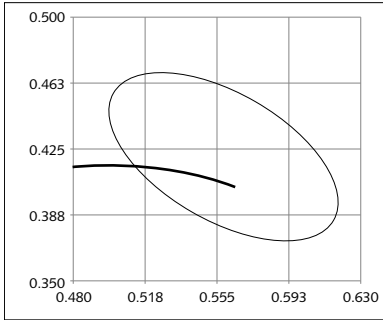
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Type ||

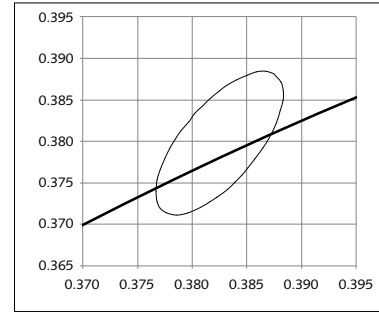
Quantity ||

# COLOR BINNING INFORMATION

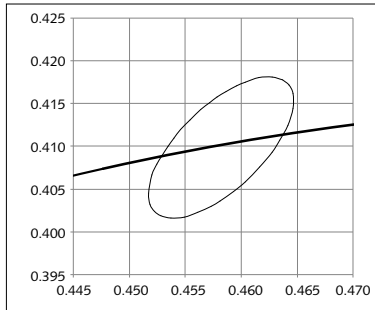
**1800K 3-STEP**



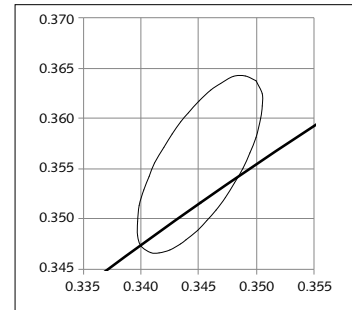
**4000K 3-STEP**



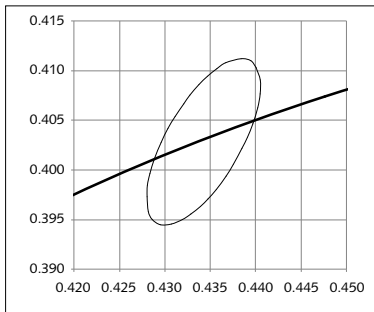
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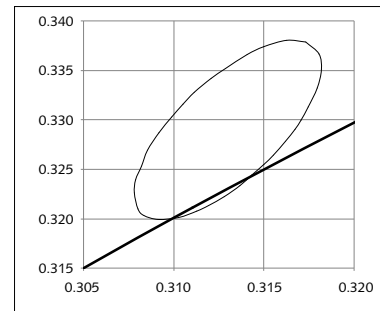
**5000K 3-STEP**



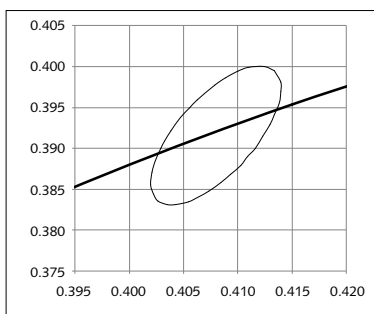
**3000K 3-STEP**



**6500K 3-STEP**



**3500K 3-STEP**



Project ||

Type ||

Quantity ||

## ORDERING INFORMATION

### PRODUCT CODES

PRODUCT	LENGTH	CCT COOL	CCT WARM	CRI
LN-WD	11	30K	18K	80
	22			90

EXAMPLE: LN-WD-22-30K-18K-90

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REV. 1.2



*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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