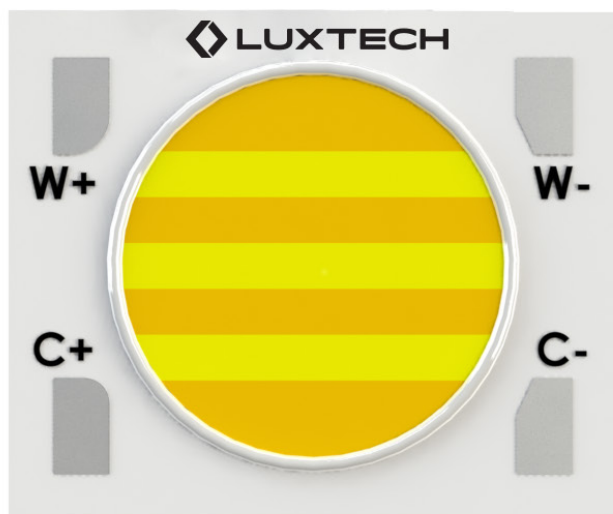


# 16mm Tunable White COB

Chip-on-board 2-Channel Tunable White LED Module



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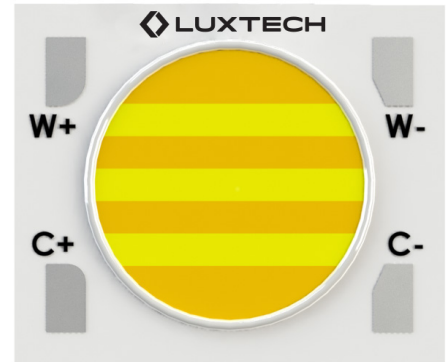
Type ||

Quantity ||

## 16mm Tunable White COB

Chip-on-board 2-Channel Tunable White LED Module

LUXTECH COB Tunable White enables independent CCT and dimming control. Ideal for human-centric lighting applications, COB Tunable White provides high-efficacy, 90+ CRI light across the entire CCT range.



### FEATURES

- » 5-Year Warranty
- » 2-channel CCTs for tunable white applications
- » Chip-on-board module
- » Ceramic substrate
- » CCT Range: 6500K-2700K
- » Constant Current Input
- » 100 lm/W
- » 3-Step MacAdam Binning
- » 90 CRI Standard

### GENERAL SPECIFICATIONS

- » Forward Voltage: 35 V +/- 3.5 V
- » Nominal Output: 2600 lm (6500K 90 CRI), 2400 lm (2700K 90 CRI) at 700mA
- » Color Rendering Index: 90+ Through Tuning Range
- » L70: 36,000 Hours (Calculated, 105 °C, 700 mA)
- » Board size: 20mm x 24mm
- » 16mm Diameter Light Emitting Surface

Project ||

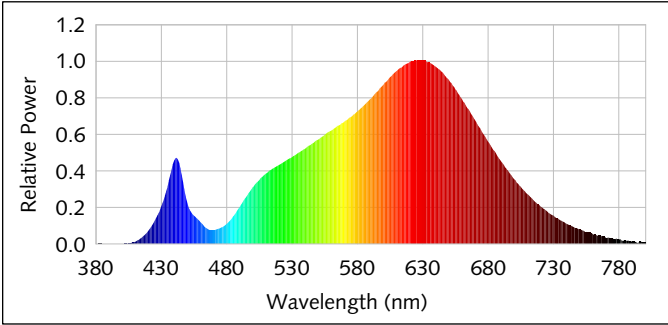
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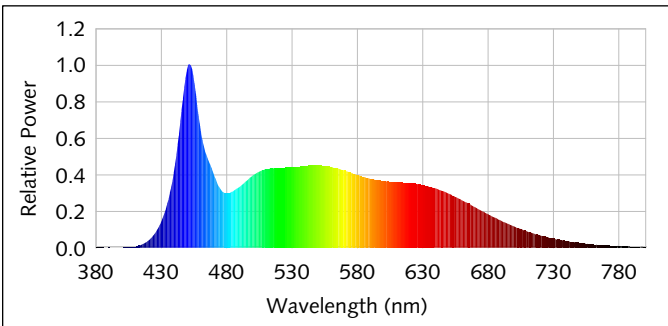
# OPTICAL SPECIFICATIONS

## SPECTRAL POWER DISTRIBUTION, WHITE

2700K 3-STEP



6500K 3-STEP



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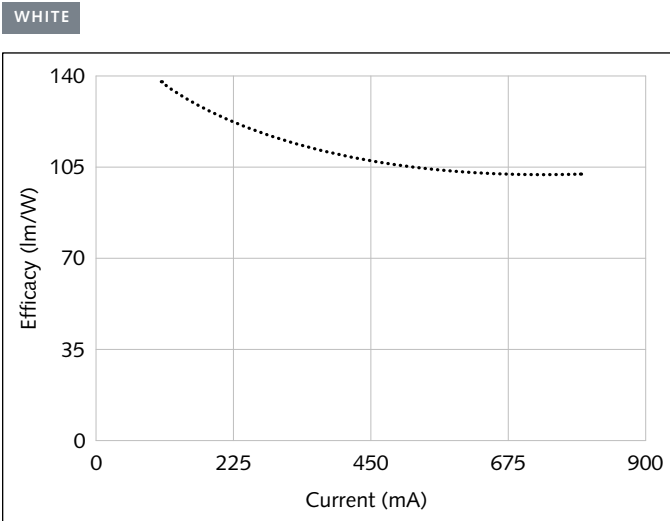
Quantity ||

## ELECTRICAL CHARACTERISTICS

Assuming 27K - 65K, 90CRI, 25°C

WHITE					
Current (mA)	100	250	350	600	800
Voltage (V)	32.4	33.8	34.4	36	37
Flux, Warm Channel (lm)	450	1000	1400	2250	3000

## EFFICACY VS. CURRENT



Project ||

Type ||

Quantity ||

## ABSOLUTE MAXIMUM RATINGS

65K, 90CRI

Current (mA)	800
Voltage (V)	38.5
Flux (lm)	3400
Temperature (°C)	85

Project ||

Type ||

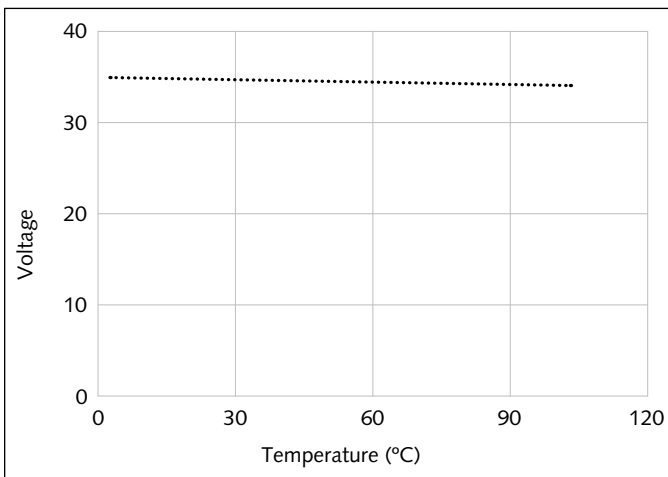
Quantity ||

## DERATING

COLOR TEMPERATURE	LIGHT OUTPUT
2700K	100%
3000K	103%
3500K	109%
4000K	114%
5000K	114%
6500K	110%

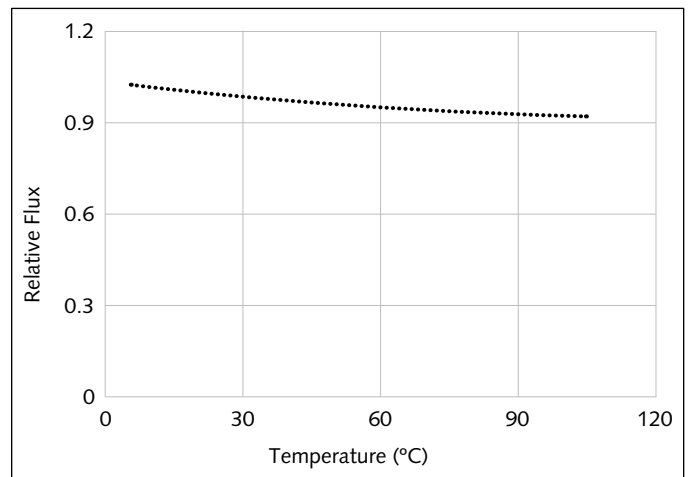
## VOLTAGE VS. TEMPERATURE

WHITE



## FLUX VS. TEMPERATURE

WHITE



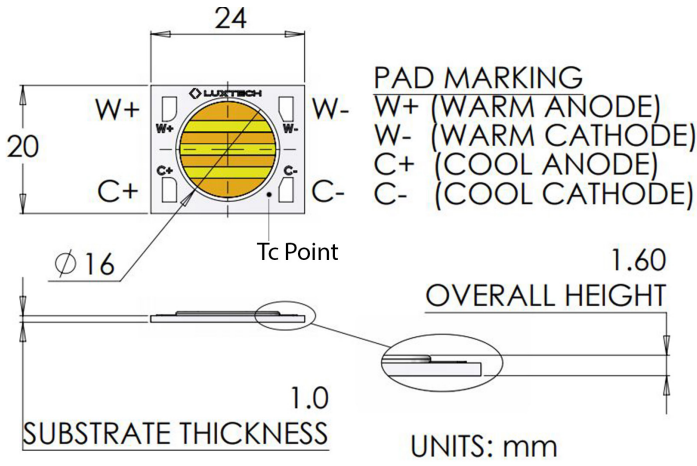
Project ||

Type ||

Quantity ||

# MECHANICAL CHARACTERISTICS

## TECHNICAL DRAWING



## PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN)
Length	0.945
Width	0.787
Thickness	0.063

Project ||

Type ||

Quantity ||

## ACCESSORIES AND DESIGN RESOURCES

### DRIVER SELECTION

Recommended for use with the following two-channel drivers:

RECOMMENDED BRANDS	MODEL	PROGRAMMABLE DRIVE CURRENT (MA)	OUTPUT VOLTAGE (V)	DIMMING	CONTROL
<b>EldoLED</b>	DualDrive 560/S	150-1400	1.5-55	DALI	DALI
<b>Moons</b>	MU050S150BQI201	150-1500	8-55	0-10V	0-10V

### HOLDER SELECTION

RECOMMENDED BRANDS	MODEL
<b>BJB</b>	47.319.2051.50

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



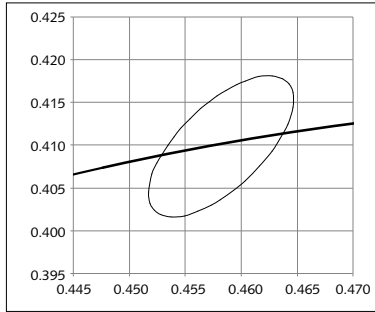
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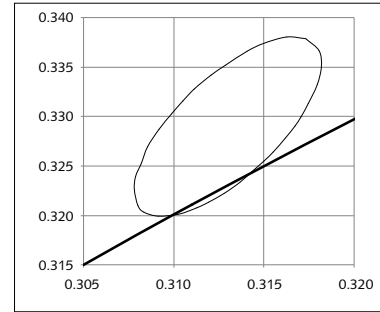
Quantity ||

# COLOR BINNING INFORMATION

**2700K 3-STEP**



**6500K 3-STEP**



Project ||

Type ||

Quantity ||

## ORDERING INFORMATION

### PRODUCT CODES

PRODUCT	CCT WARM	CCT COOL	CRI
COB-TW-16-2024	27K*	65K*	90*

\*Normally stocked

EXAMPLE: COB-TW-16-2024-27K-65K-90

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*Architectural-Grade LED Modules*

## 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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