

Linear Dynamic White

Two Channel Dynamic White LED Module

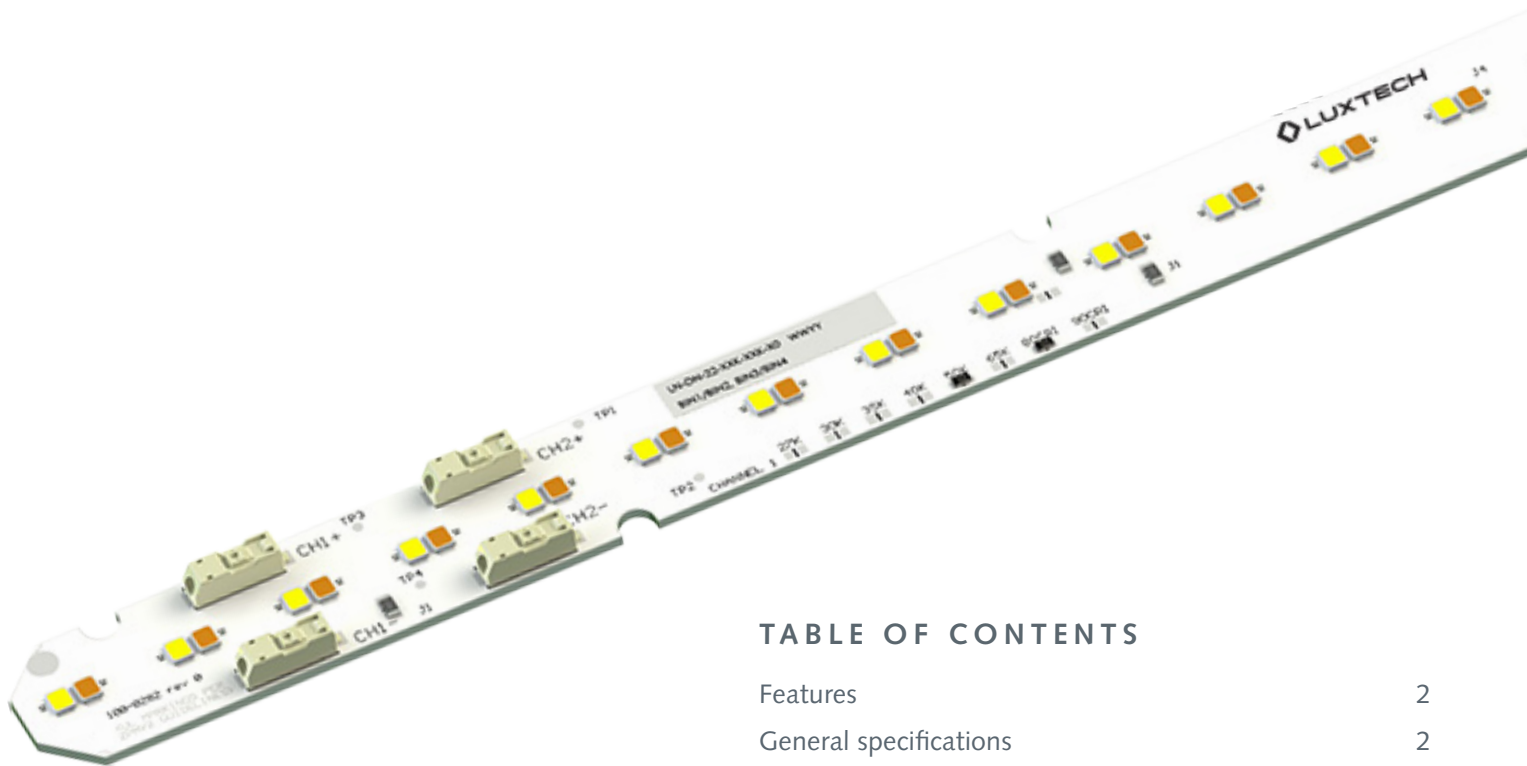


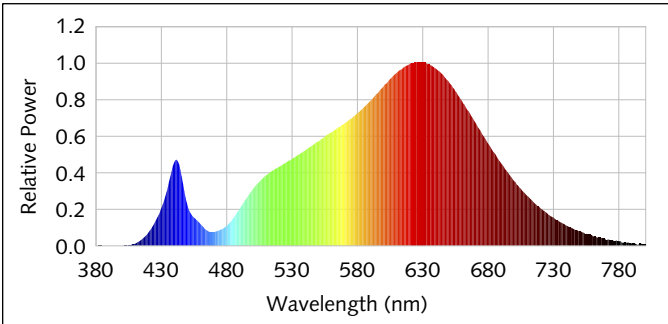
TABLE OF CONTENTS

Features	2
General specifications	2
Optical specifications	3
Electrical characteristics	5
Absolute maximum ratings	6
Derating	7
Mechanical characteristics	8
Accessories and design resources	9
Color binning information	11
Ordering information	12
About LUXTECH	13

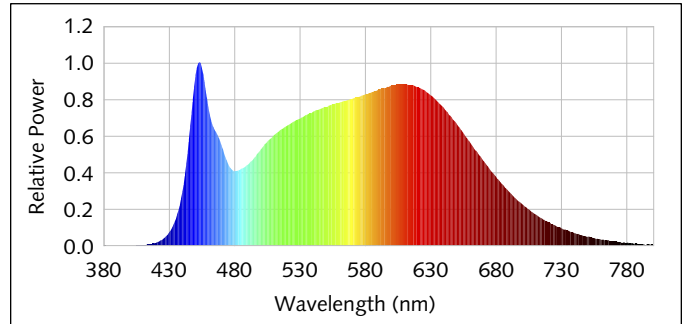
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION, WHITE

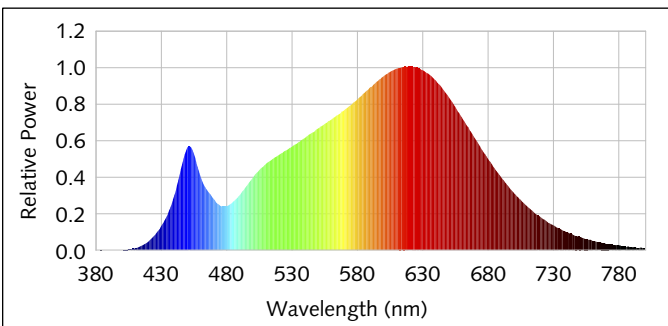
2700K 3-STEP



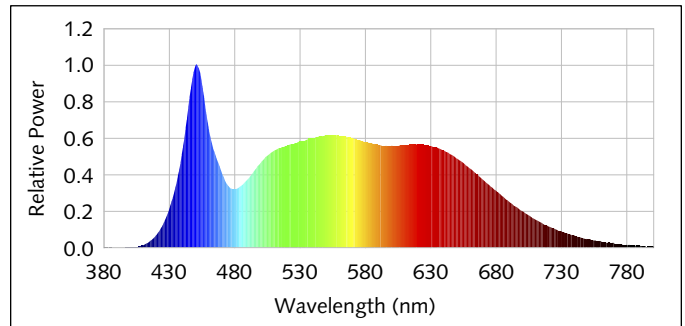
4000K 3-STEP



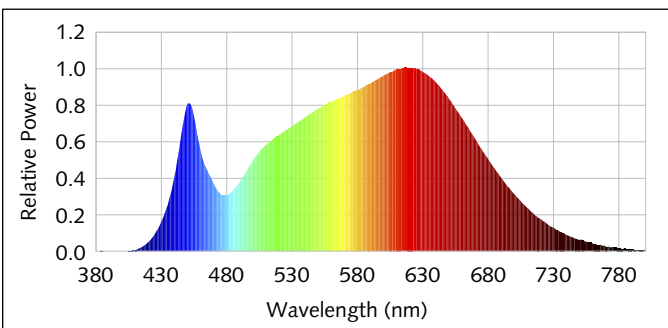
3000K 3-STEP



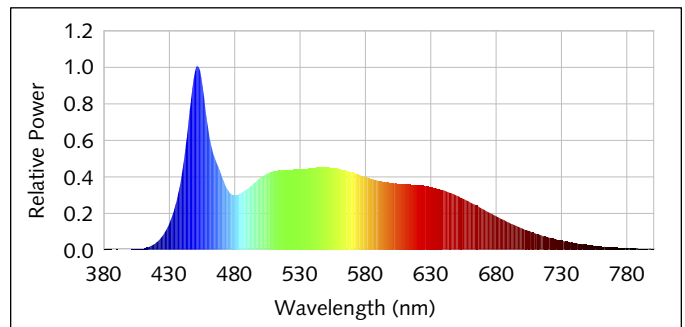
5000K 3-STEP



3500K 3-STEP



6500K 3-STEP



Project ||

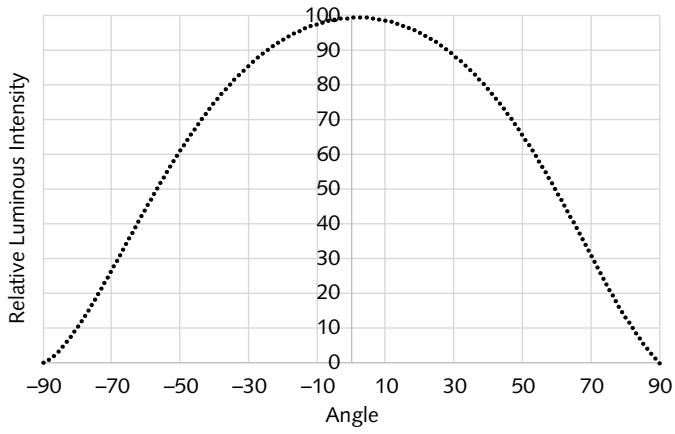
Type ||

Quantity ||

OPTICAL SPECIFICATIONS

BEAM ANGLE

WHITE



Project ||

Type ||

Quantity ||

ELECTRICAL CHARACTERISTICS

25°C

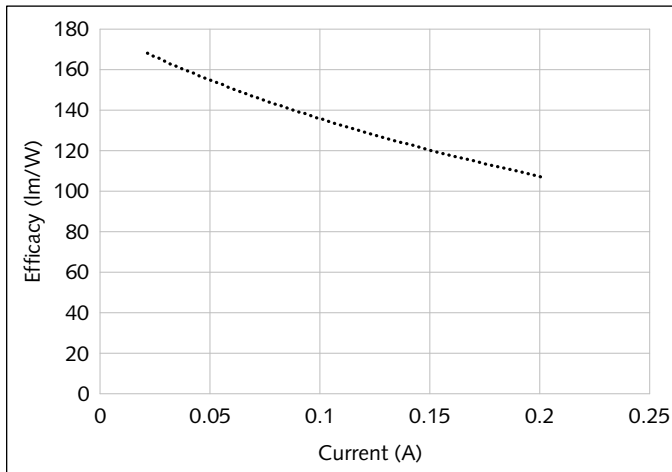
65K, 90 CRI					
Current (mA)	80	200	400	600	800
Voltage (V)	24.1	25.2	26.8	28.2	29.4
Flux (lm)	324	770	1440	2016	2510

27K, 90 CRI					
Current (mA)	80	200	400	600	800
Voltage (V)	24.1	25.2	26.8	28.2	29.4
Flux (lm)	292	698	1303	1825	2272

Color Mixing	Flux derating relative to 6500K LEDs			Approximated from nominal current of 250mA per foot		
CCT (K)	2700	3000	3500	4000	5000	6500
Current, 27K (%)	100%	83%	67%	52%	30%	0%
Current, 65K (%)	0%	17%	33%	48%	70%	100%
Flux (%)	91%	92%	94%	96%	98%	100%
SDCM	3	6.5	8.5	8.5	6.5	3

EFFICACY VS. CURRENT

WHITE



Project ||

Type ||

Quantity ||

ABSOLUTE MAXIMUM RATINGS

65K, 90 CRI	
Current (mA)	800
Voltage (V)	30
Flux, Cool Channel (lm)	2760
Temperature (°C)	85

27K, 90 CRI	
Current (mA)	800
Voltage (V)	30
Flux, Cool Channel (lm)	2500
Temperature (°C)	85

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

Absolute maximum values are determined from LED LM80 lifetime measurements. Both channels may be activated simultaneously with each channel receiving up to the maximum current (for a total current into the module of 1080 mA/ft) so long as the LED case temperature does not exceed 85°C.

Project ||

Type ||

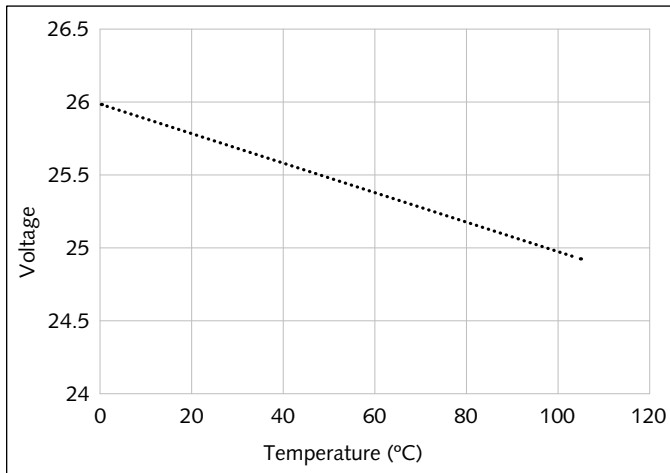
Quantity ||

DERATING

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

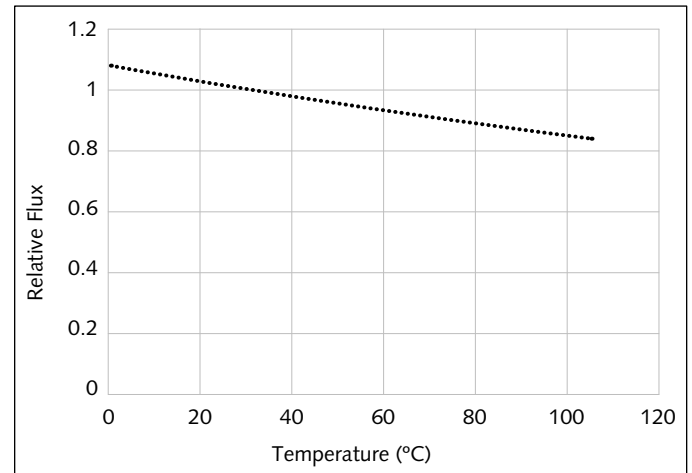
VOLTAGE VS. TEMPERATURE

WHITE



FLUX VS. TEMPERATURE

WHITE



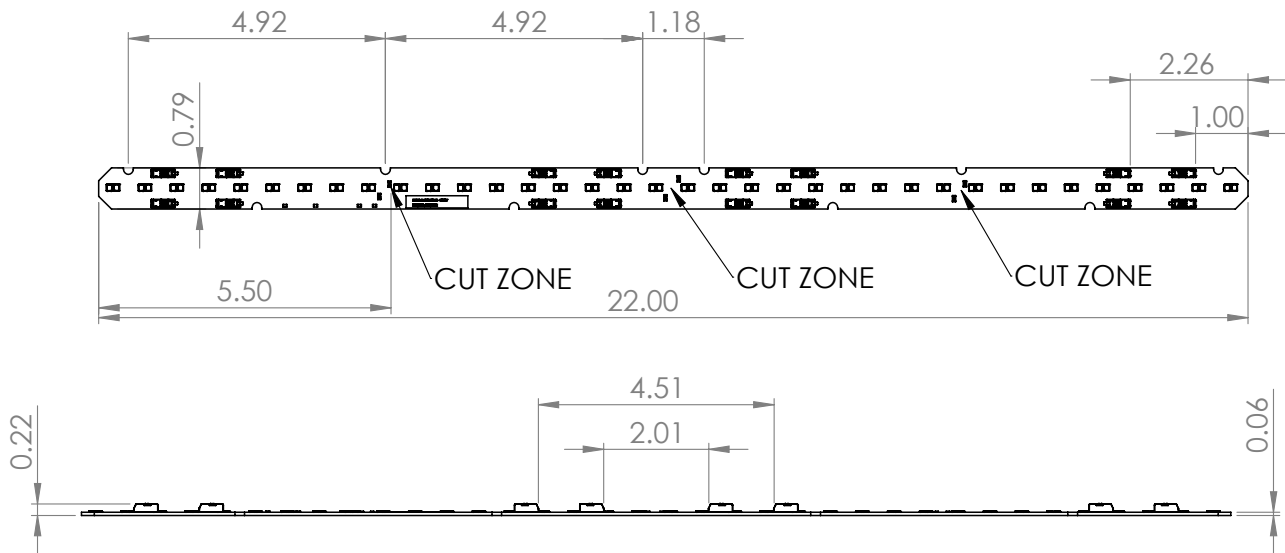
Project ||

Type ||

Quantity ||

MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



Units: Inches

PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN)
Length	22.0
Width	0.787
PCB Thickness	0.06
Module Thickness, to Connector Top	0.22
Screwhole sizes	#6, #8
Connector to board edge distance	1.43

WIRING

PARAMETER	SPECIFICATION
Wire Size	18-22 AWG

ACCESSORIES AND DESIGN RESOURCES

DRIVER SELECTION

Recommended for use with the following two-channel drivers.

BRAND	MODEL	PROGRAMMABLE DRIVE CURRENT (MA)	OUTPUT VOLTAGE (V)	DIMMING	CONTROL
EldoLED	DUALDrive 1060/M	200mA - 1050mA	2V - 57V	CCR, PWM	DALI
	DUALDrive 560/L	150mA - 1400mA	2V - 55V	CCR, PWM	DALI
	DUALDrive 1060/S	200mA - 1050mA	2V - 57V	CCR, PWM	DALI
	DUALDrive 560/S	150mA - 1400mA	2V - 55V	CCR, PWM	DALI
Moons	MU050S150BQI501	150mA - 1500mA	8V - 55V	CCR, PWM	DALI
	MU050S150BQI201	150mA - 1500mA	8V - 55V	CCR	0-10V

CONTROLLER SELECTION

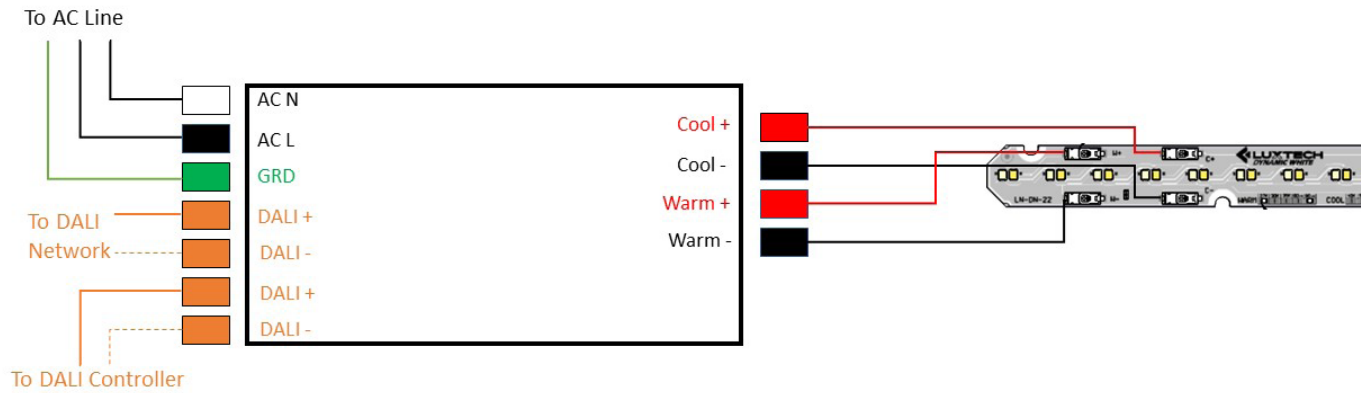
Recommended for use with the following controllers.

BRAND	MODEL	CONTROL TYPE	NEEDED ACCESSORIES
Lunatone	DALI Touchpanel	DALI	Lunatone PS2 30mA DALI Bus Power supply
Lutron	Maestro	0-10V Dimmer	1x dimmer per channel
Legrand	Radiant	0-10V Dimmer	1x dimmer per channel
Leviton	Decora DS710-10Z	0-10V Dimmer	1x dimmer per channel

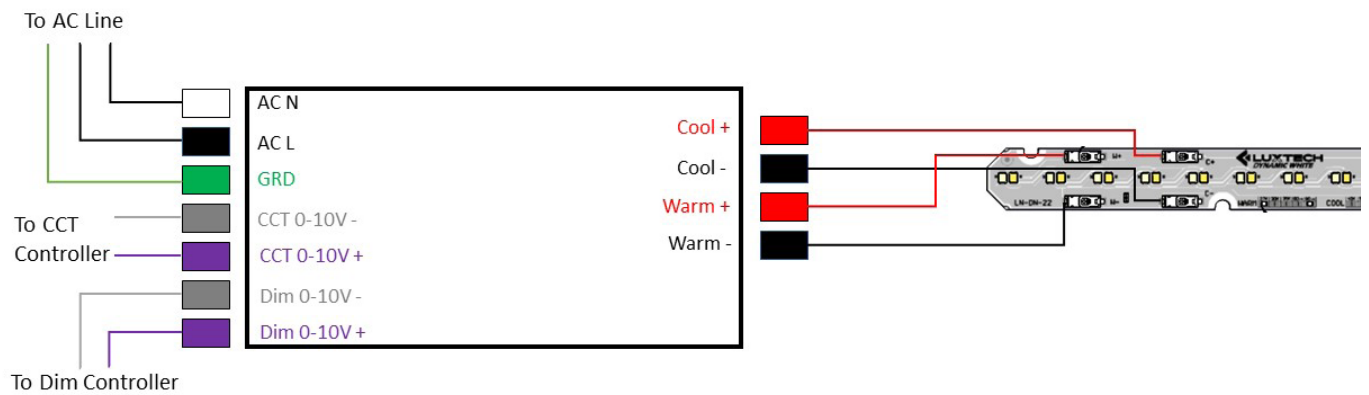
Design resources: CAD files available at LUXTECH.com

ACCESSORIES AND DESIGN RESOURCES

DALI WIRING DIAGRAM



0-10V WIRING DIAGRAM



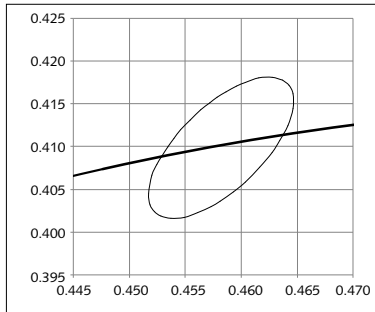
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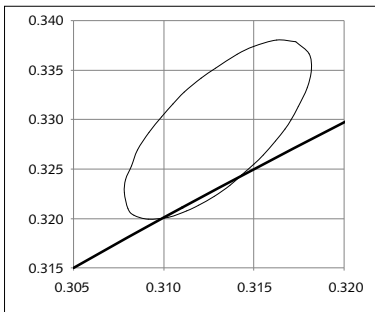
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COLOR BINNING INFORMATION

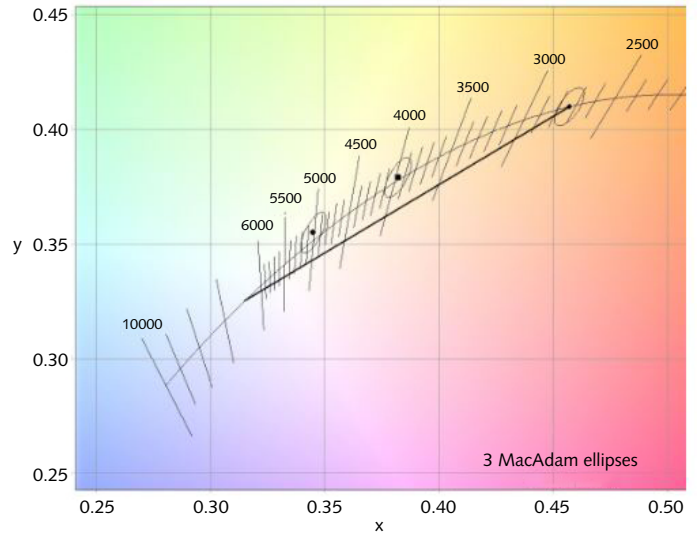
2700K 3-STEP



6500K 3-STEP



COLOR POINT DURING TUNING



Project ||

Type ||

Quantity ||

ORDERING INFORMATION

PRODUCT CODES

PRODUCT	CCT WARM	CCT COOL	CRI
LN-DN-22	27K	27K	80
	30K	30K	90
	35K	35K	
	40K	40K	
	50K	50K	
	65K	65K	

EXAMPLE: LN-DN-22-27K-65K-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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