

LUXslim TW

Flexible Constant Current Tunable White LED Module

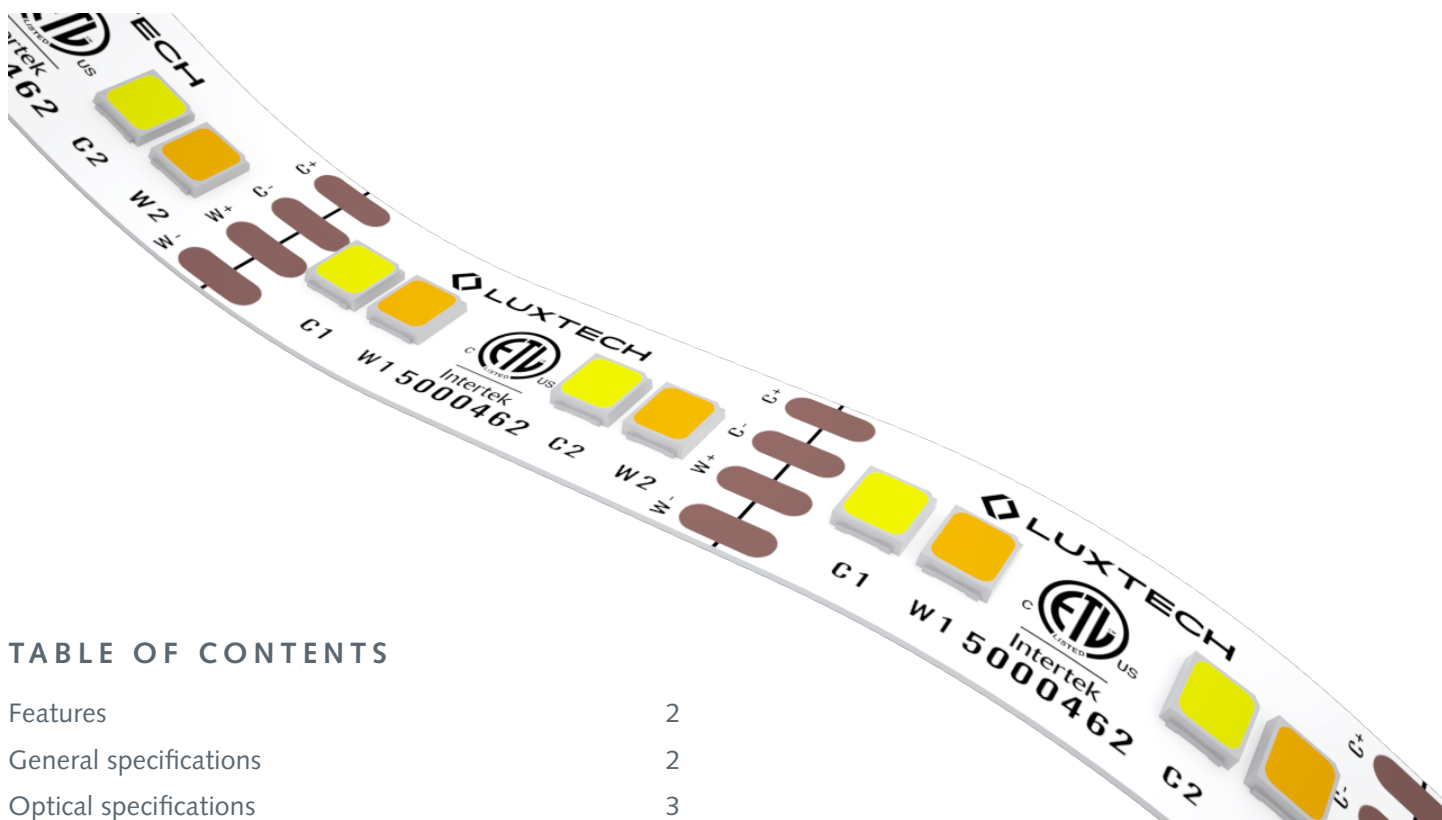


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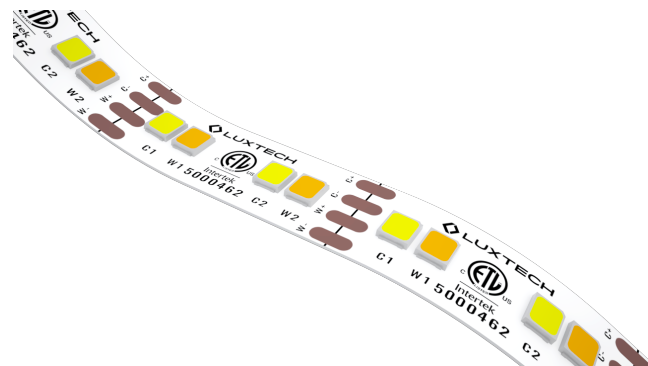
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LUXslim TW

Flexible Constant Current Tunable White LED Module

LUXTECH LUXslim Tunable White LED Modules bring human centric lighting to any fixture. A flexible, cuttable form factor, 90 CRI architectural-grade LEDs, and a standard tuning range from 27K to 65K provide high quality light at any CCT. It's perfect for slim form factors, round fixtures, and other exotic designs.



FEATURES

- » 5-Year Warranty
- » 2-Channel CCTs for Tunable White Applications
- » Flexible Form Factor
- » Polyimide PCB Substrate
- » Cuttable Every Inch
- » 10mm Width
- » Constant Current Input
- » White LEDs LM-80 Tested by Samsung
- » Specification Grade 3M 200MP Adhesive
- » 90 CRI Standard
- » UL Recognized Components

GENERAL SPECIFICATIONS

- » Forward Voltage: Nominal 36V
- » Max Output: 2380 lm/ft (65K 90 CRI White LEDs)
- » Nominal Efficacy: 138 lm/W (65K 90CRI, 770 lm/ft)
- » Tuning Range: 27K – 65K
- » LED Pitch: 0.5" Pitch Between LED Pairs
- » Color Rendering Index: 90+
- » L70 = 50,000 hrs for Ts = 85°C, 480 mA/ft
- » 1+2 oz Copper
- » Max Recommended Run Length: 8 ft
- » Beam Angle: 120°
- » Reel Length: 16.3' (5m)

Project ||

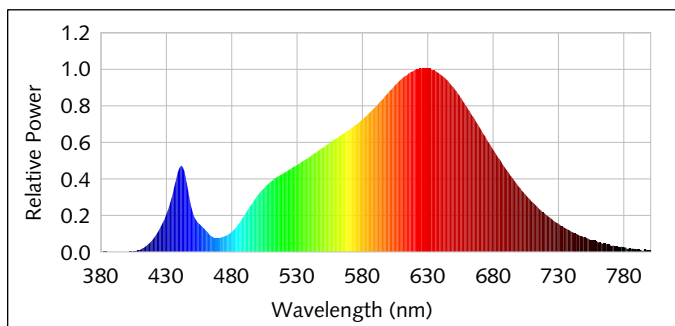
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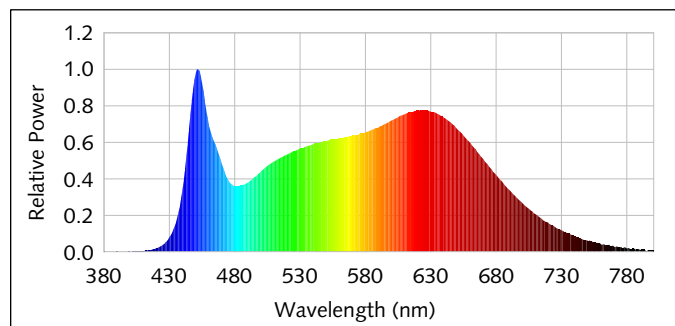
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION

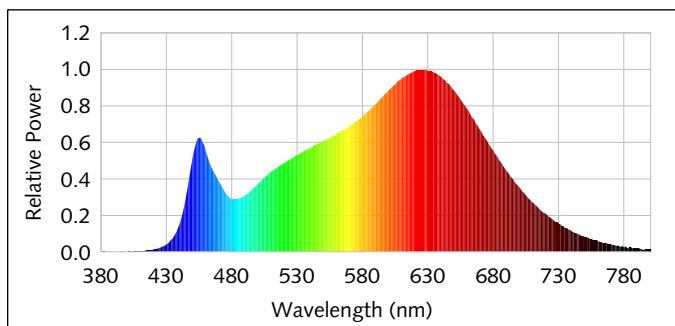
2700K



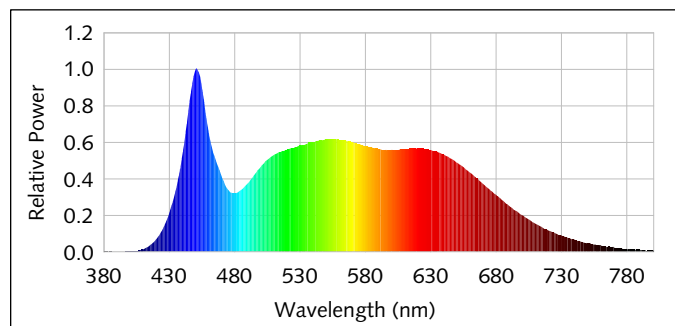
4000K



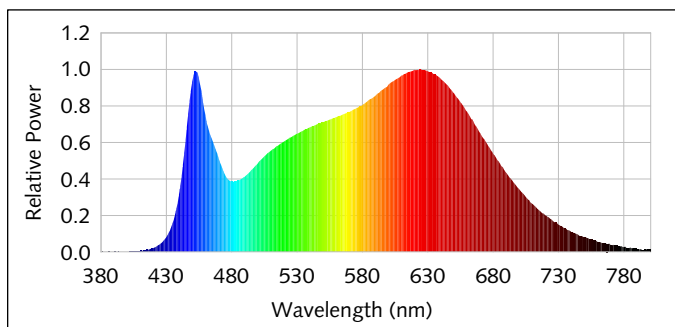
3000K



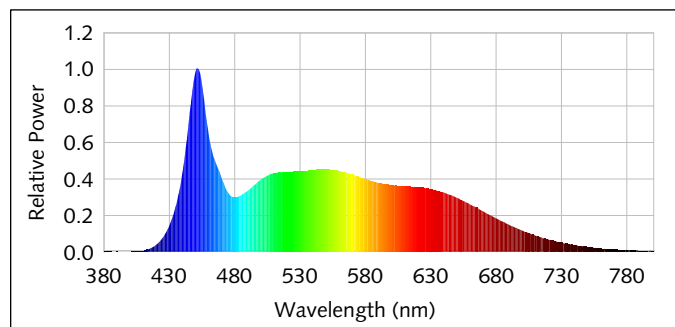
5000K



3500K



6500K



Project ||

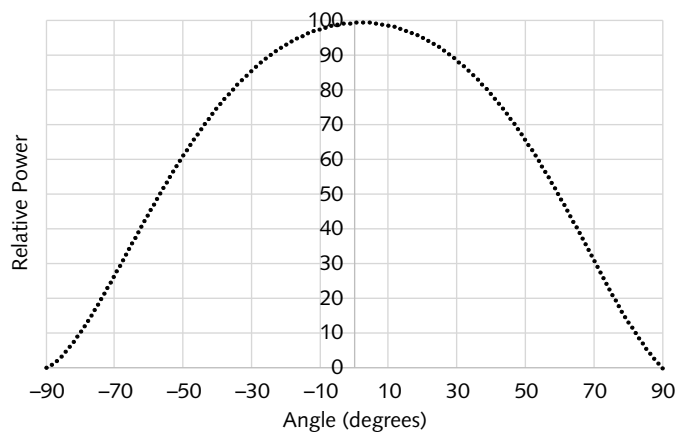
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OPTICAL SPECIFICATIONS

BEAM ANGLE

WHITE



Project ||

Type ||

Quantity ||

ELECTRICAL CHARACTERISTICS

Instructions: Multiply the length of your run of FLEX in inches by the desired flux and current to find the total values needed for your fixture.

27K 90 CRI CHANNEL, 25°C

1 INCH					
Current (mA/in)	4	8	21	33	45
Voltage (V)	31.4	32.3	33.6	34.6	35.4
Flux (lm/in)	17	32	84	125	175

1 FOOT					
Current (mA/ft)	50	100	250	400	540
Voltage (V)	31.4	32.3	33.6	34.6	35.4
Flux (lm/ft)	205	420	1010	1500	2100

8 FEET					
Current (mA)	400	800	2000	3200	4320
Voltage (V)	31.4	32.3	33.6	34.6	35.4
Flux (lm)	1640	3360	8080	12000	16800

65K 90 CRI CHANNEL, 25°C

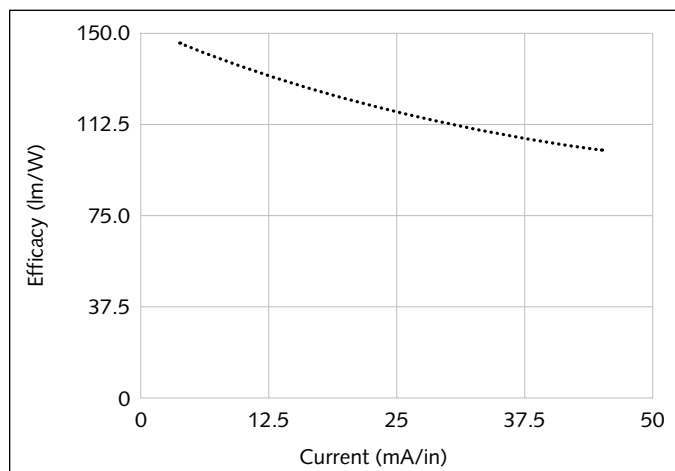
1 INCH					
Current (mA/in)	4	8	21	33	45
Voltage (V)	31.4	32.3	33.6	34.6	35.4
Flux (lm/in)	20	38	96	141	182

1 FOOT					
Current (mA/ft)	50	100	250	400	540
Voltage (V)	31.4	32.3	33.6	34.6	35.4
Flux (lm/ft)	234	453	1157	1693	2178

8 FEET					
Current (mA)	400	800	2000	3200	4320
Voltage (V)	31.4	32.3	33.6	34.6	35.4
Flux (lm)	1872	3624	9256	13544	17424

COLOR MIXING						
Approximated from nominal current of 250mA per foot. Flux derating relative to 6500K LEDs						
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 (%)	88%	90%	92%	94%	96%	100%
SDCM	3	6.5	8.5	8.5	6.5	3

EFFICACY VS. CURRENT



Project ||

Type ||

Quantity ||

ABSOLUTE MAXIMUM RATINGS

65K, 90CRI

WHITE	
Total Current (mA/in)	45
Voltage (V)	39
Flux, Cool Channel (lm/in)	198
Temperature, T _j (°C)	85

27K, 90CRI

WHITE	
Total Current (mA/in)	45
Voltage (V)	39
Flux, Warm Channel (lm/in)	175
Temperature, T _j (°C)	85

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.

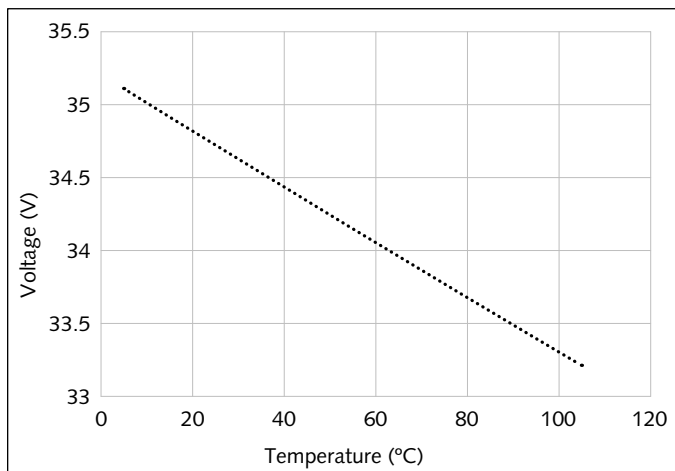
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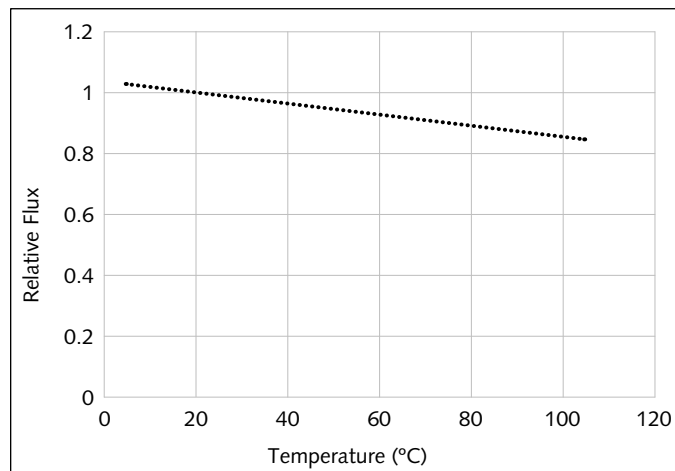
Quantity ||

TEMPERATURE DERATING

VOLTAGE VS. TEMPERATURE



FLUX VS. TEMPERATURE



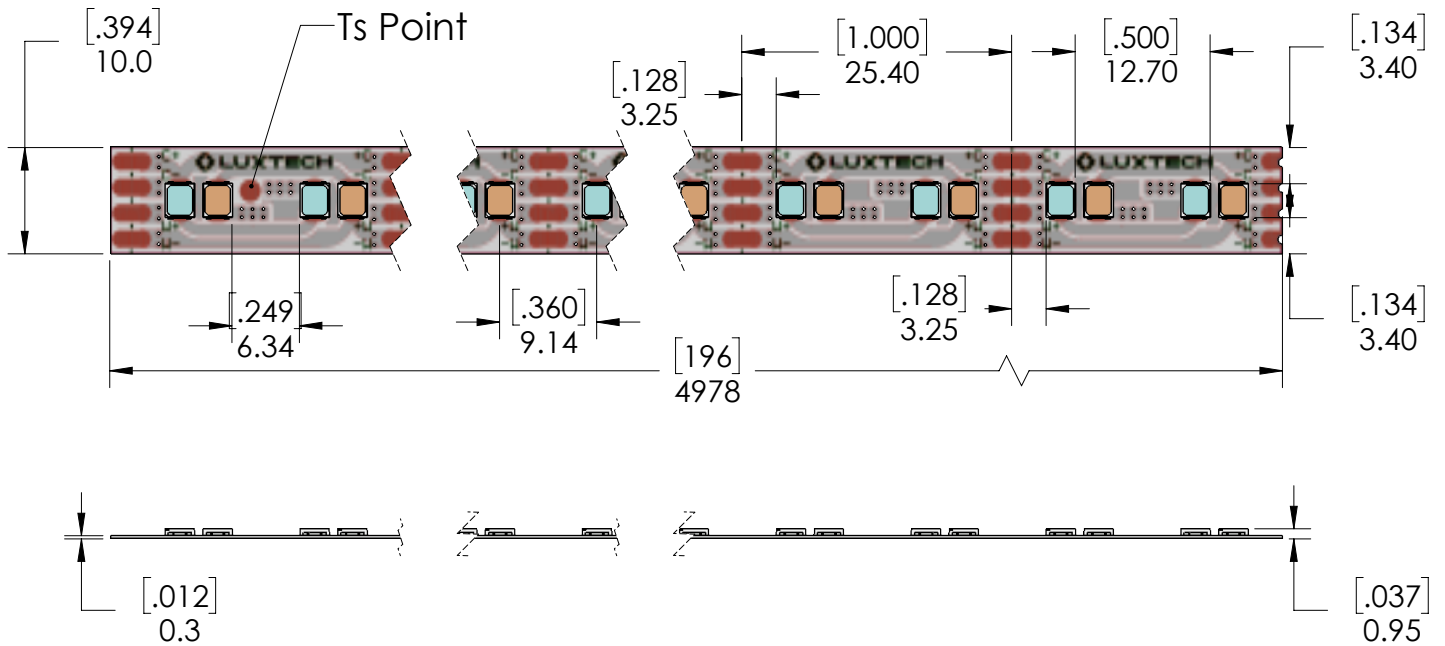
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MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



PRODUCT DIMENSIONS

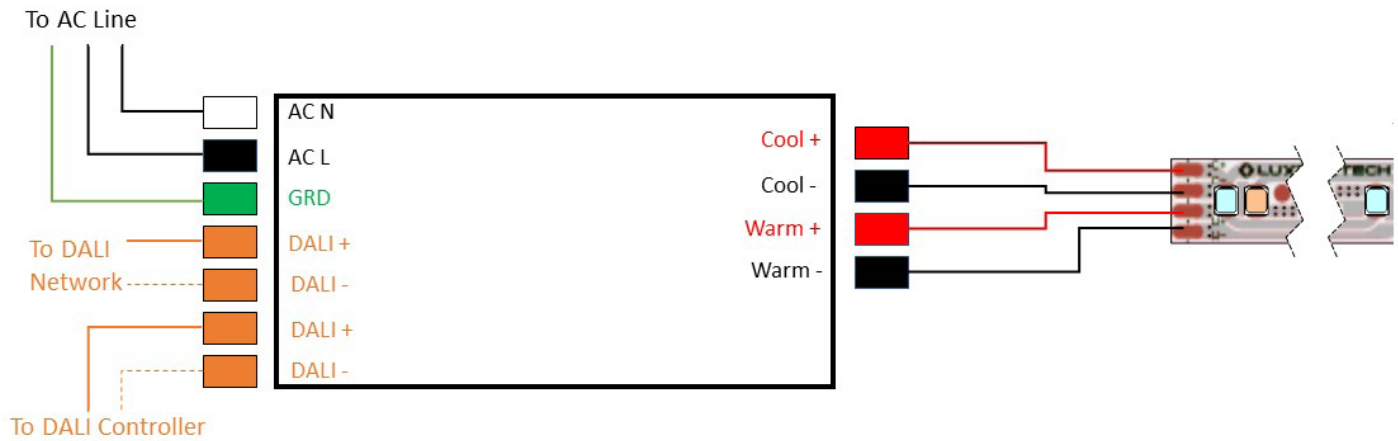
PARAMETER	SPECIFICATION (IN)
Reel Length	196.0
Width	0.39
Thickness	0.12
Solder Joint Length	0.078 +/- 0.010
Number of Solder Joints	9

Project ||

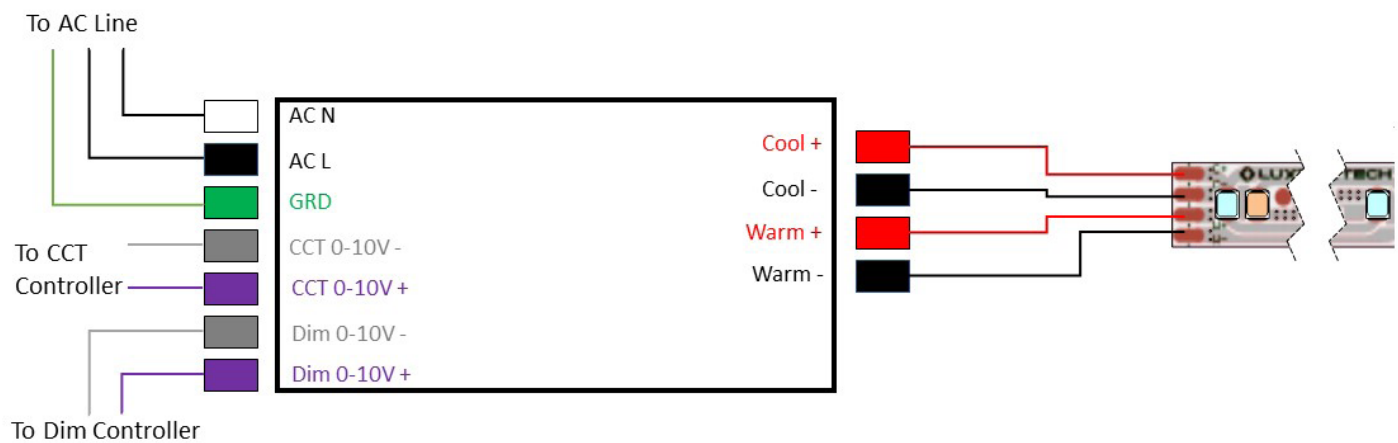
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DALI WIRING DIAGRAM



0-10V WIRING DIAGRAM



Project ||

Type ||

Quantity ||

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 and application guide available at [LUXTECH.com](https://www.luxtech.com)

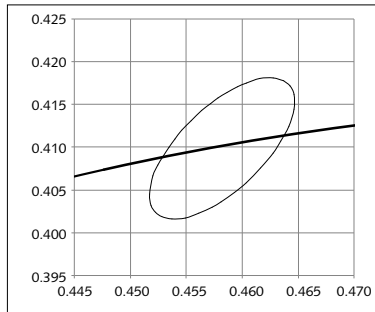
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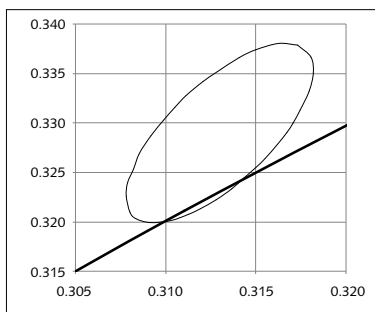
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COLOR BINNING INFORMATION

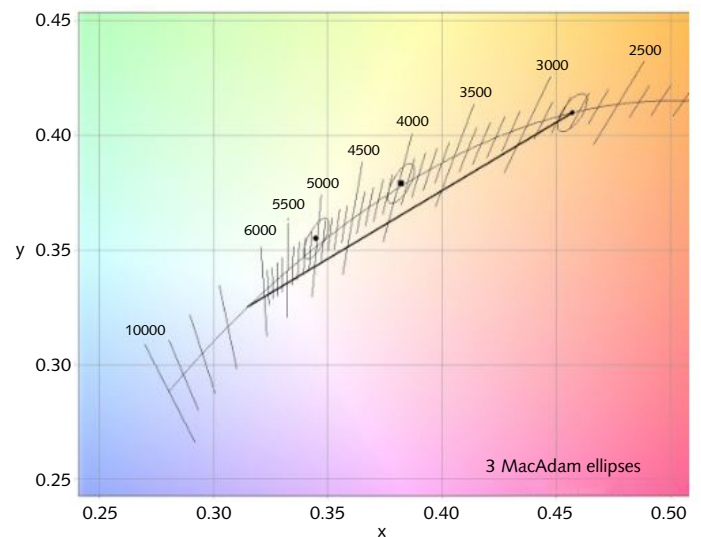
2700K 3-STEP



6500K 3-STEP



COLOR POINT DURING TUNING



Project ||

Type ||

Quantity ||

ORDERING INFORMATION

PRODUCT CODES

PRODUCT	CCT WARM	CRI WARM	CCT COOL	CRI COOL	REEL LENGTH (METERS)
LUXSLIM-CC-TW-10	27K	80	27K	80	5
	30K	90	30K	90	
	35K		35K		
	40K		40K		
	50K		50K		
	65K		65K		

*Normally stocked

EXAMPLE: FX-CC-TW-10-XXK-YY-ZZK-5

FORMERLY FX-CC-DN-10-XXK-YY-ZZK-5

SUGGESTED CONNECTORS

PRODUCT	MANUFACTURER	DESCRIPTION
OL11-SL10XB-4W	Onlumi	10mm 2 Channel Narrow Wire-to-Board Connector with Multicolored Wire
OL11-SL10XB-4	Onlumi	10mm 2 Channel Narrow Wire-to-Board Connector, No Wire
OL11-SL10BB-4W	Onlumi	10mm 2 channel Narrow Board-to-Board Connector with Multicolored Wire
OL11-SL10BXB-4	Onlumi	10mm 2 channel Narrow Board-to-Board Connector, No Wire
OL11-SEN10XB-4W	Onlumi	10mm 2 Channel Clear Hippo Wire-to-Board Connector with Multicolored Wire
OL11-SEN10XB-4	Onlumi	10mm 2 Channel Clear Hippo Wire-to-Board Connector, No Wire
OL11-SEN10BB-4W	Onlumi	10mm 2 channel Clear Hippo Board-to-Board Connector with Multicolored Wire
OL11-SEN10BB-4	Onlumi	10mm 2 channel Clear Hippo Board-to-Board Connector, No Wire



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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