

FLEX Swerve 18V

Architectural Axial LED Tape



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FLEX Swerve 18V

Architectural Axial LED Tape

FLUXTECH FLEX Swerve not only flexes but also bends axially. Luminaire designers are no longer limited to illumination in a single plane. This high-performance, specification grade LED tape is cuttable in convenient 2" increments and accepts constant current input.



FEATURES

- » 5-Year Warranty
- » Flexible LED strip
- » Polyimide substrate
- » Cuttable every 1.97"
- » 0.31" (8mm) Width
- » Constant Current Input
- » White LEDs LM-80 Tested by Nichia
- » Specification-Grade 3M VHB Adhesive
- » 3-Step MacAdam Binning
- » 90 CRI Standard
- » Axially bendable over 90 degrees, radially bendable up to 90 degrees

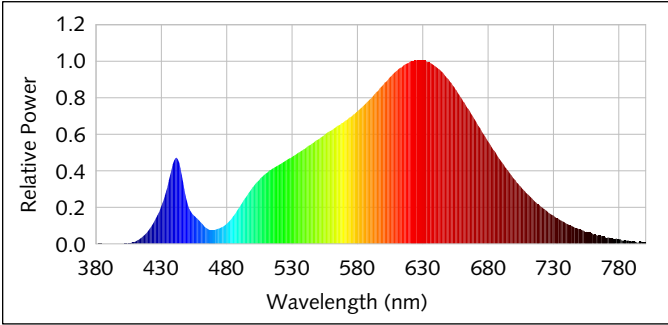
GENERAL SPECIFICATIONS

- » Forward Voltage: 18V
- » Max Output: 2280 lm/ft (3000K 90 CRI White LEDs)
- » LED Pitch: 0.66"
- » Color Rendering Index: 90+
- » L70 > 36,000 hours at 105°C
- » 1+1 oz Copper
- » R9: 50+
- » Beam Angle: 120°
- » Max Recommended Run Length: 7'
- » Beam Angle: 120°
- » 125 lm/W Nominal Efficacy
- » 16.4' reels

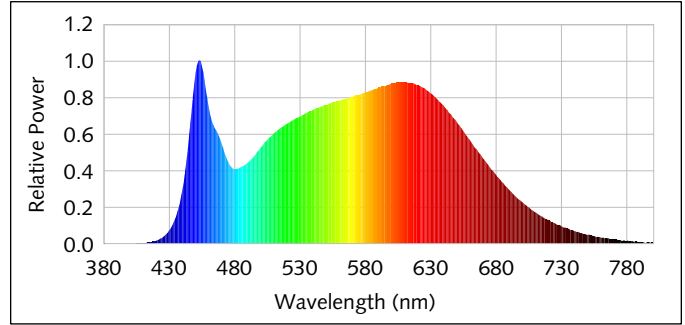
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION, WHITE

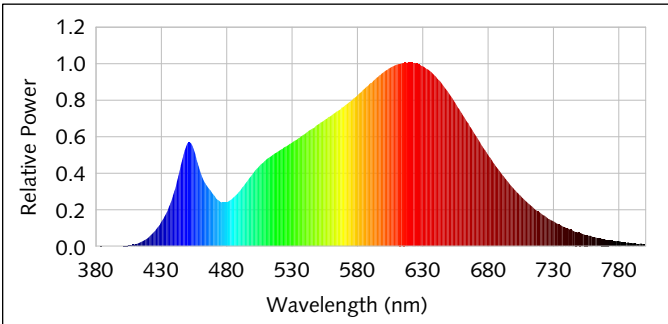
2700K 3-STEP



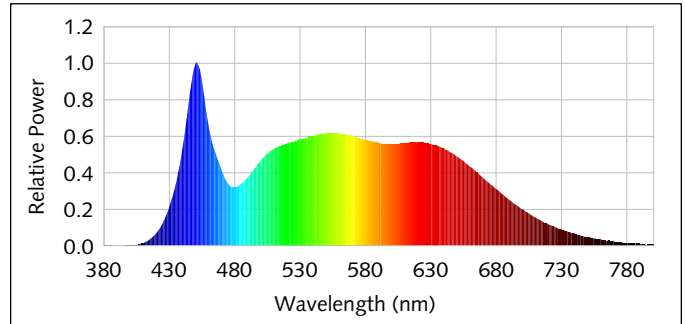
4000K 3-STEP



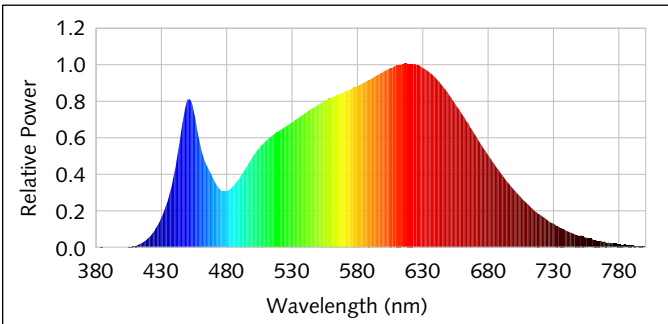
3000K 3-STEP



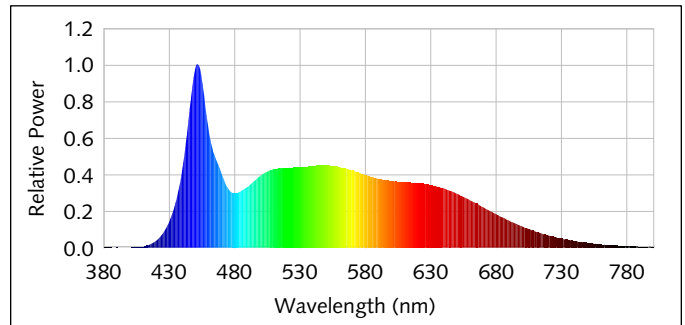
5000K 3-STEP



3500K 3-STEP



6500K 3-STEP



Project ||

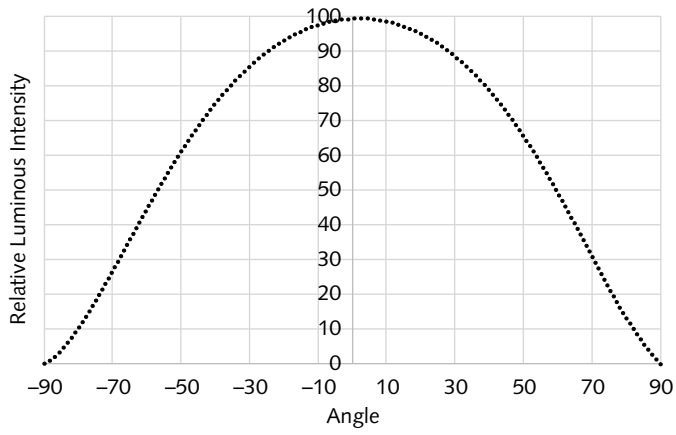
Type ||

Quantity ||

OPTICAL SPECIFICATIONS

BEAM ANGLE

WHITE



Project ||

Type ||

Quantity ||

ELECTRICAL CHARACTERISTICS

Assuming 35K 90 CRI, 25°C

2 FEET					
Current (mA)	200	300	780	1800	2160
Voltage (V)	16	16.2	17.1	18.9	19.5
Flux (lm/ft)	280	430	870	1740	2280

4 FEET					
Current (mA)	400	600	1560	3600	4320
Voltage (V)	16	16.2	17.1	18.9	19.5
Flux (lm/ft)	280	430	870	1740	2280

6 FEET					
Current (mA)	600	900	2340	5400	6480
Voltage (V)	16	16.2	17.1	18.9	19.5
Flux (lm/ft)	280	430	870	1740	2280

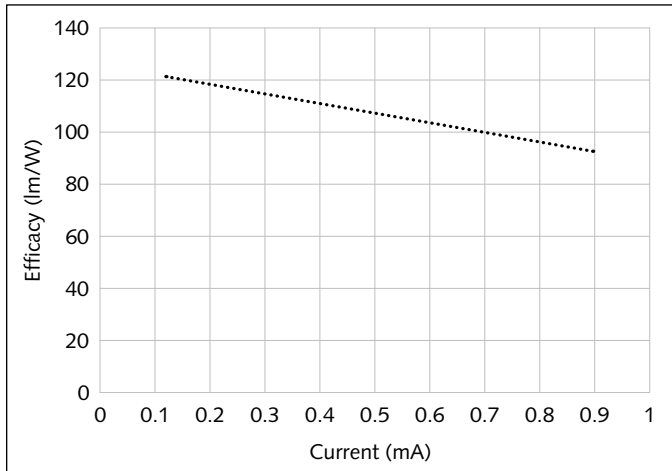
INSTRUCTIONS

Determine the drive current for your application:

1. Start with the target length and lumens/ft to determine the nominal drive current.
2. Multiply by the de-rating factor for the target color temperature.
3. Multiply by the re-rating factor for the expected case temperature.
4. Pick a driver that is compatible with the calculated drive current and compliance voltage range.

EFFICACY VS. CURRENT

WHITE



Project ||

Type ||

Quantity ||

ABSOLUTE MAXIMUM RATINGS

30K, 90CRI

Current (mA/ft)	1080
Voltage (V)	20
Flux (lm/ft)	2280
Temperature (°C)	85

Project ||

Type ||

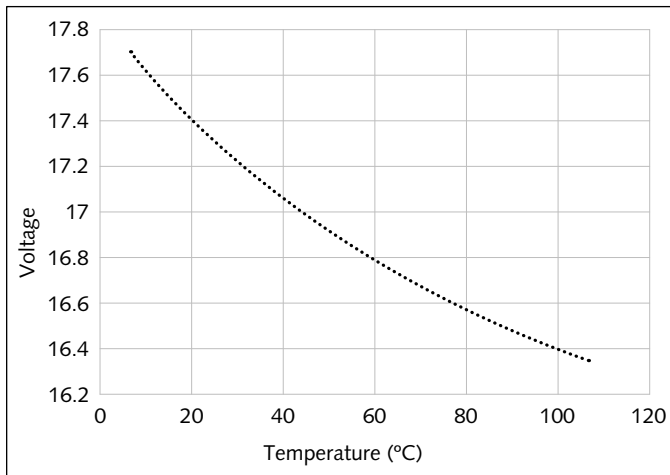
Quantity ||

DERATING

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

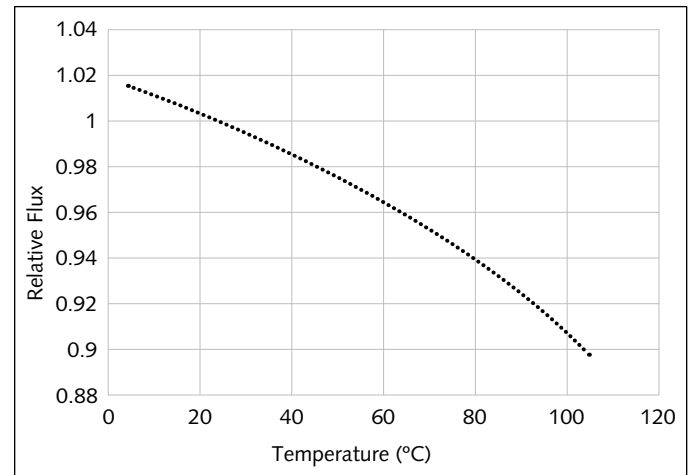
VOLTAGE VS. TEMPERATURE

WHITE



FLUX VS. TEMPERATURE

WHITE



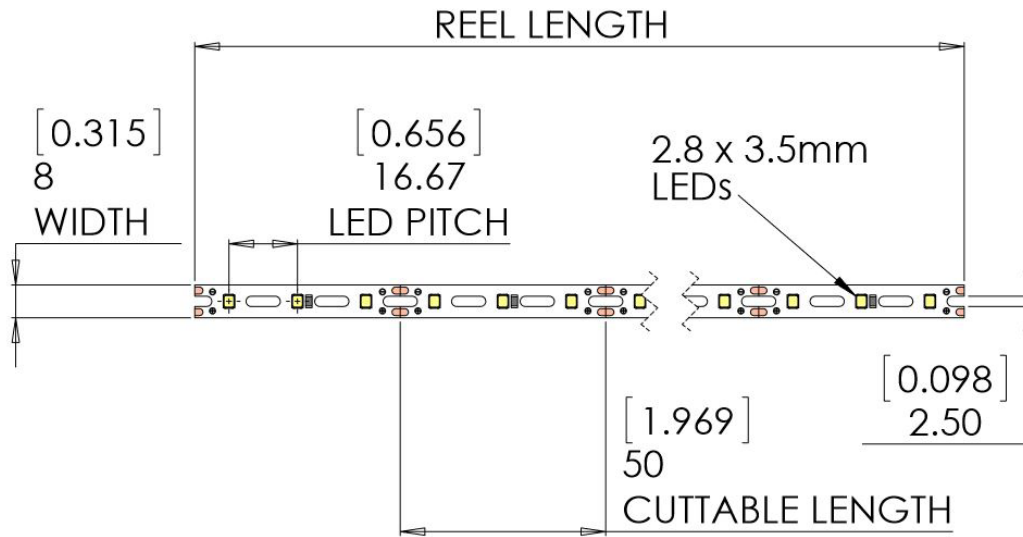
Project ||

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MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



Units: [Inches] mm

PRODUCT DIMENSIONS

DIMENSION	VALUE (IN)
Length	200.0
Width	0.31
Thickness	0.12
Cuttable Length	1.97
LED Pitch	0.66

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ACCESSORIES AND DESIGN RESOURCES

CAD files available at LUXTECH.com

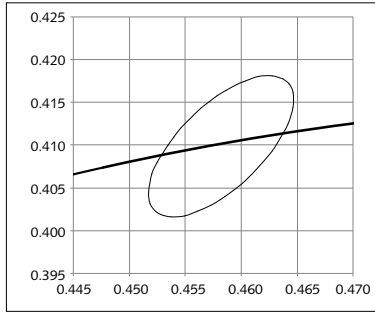
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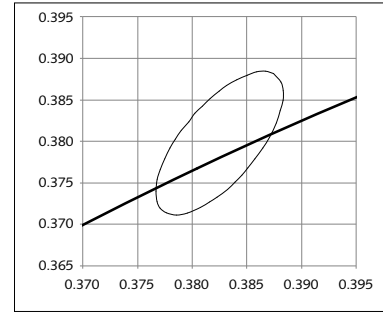
Quantity ||

COLOR BINNING INFORMATION

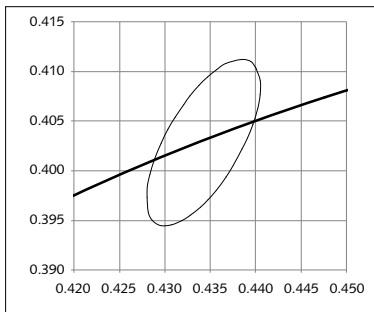
2700K 3-STEP



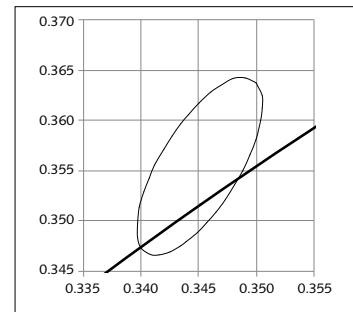
4000K 3-STEP



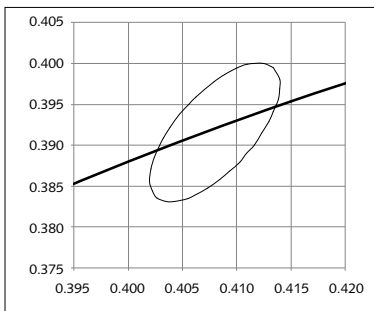
3000K 3-STEP



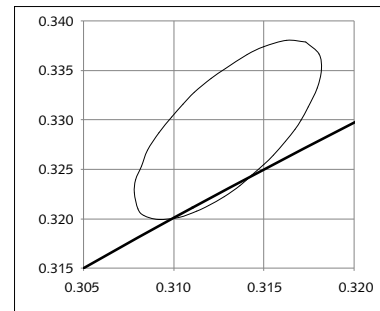
5000K 3-STEP



3500K 3-STEP



6500K 3-STEP



Project ||

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ORDERING INFORMATION

PRODUCT CODES

PRODUCT	COLOR TEMP	CRI
FX-SW-20-18V	27K	80
	30K	90
	35K	
	40K	
	50K	
	65K	

EXAMPLE: FX-SW-20-18V-35K-90
ORDER IN INCREMENTS OF 16.4'

ACCESSORY CODES

PRODUCT	TYPE	DESCRIPTION
FX-CN-8	WB	8mm Wire-to-Board Connector with Wires
	WB-N	8mm Wire-to-Board Connector, No Wires
	BB-W	8mm Board-to-Board Connector with Wires
	BB-N	8mm Board-to-Board Connector, No Wires

EXAMPLE: FX-CN-8-WB

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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