

FLEX RGB

Standard RGB LED Tape

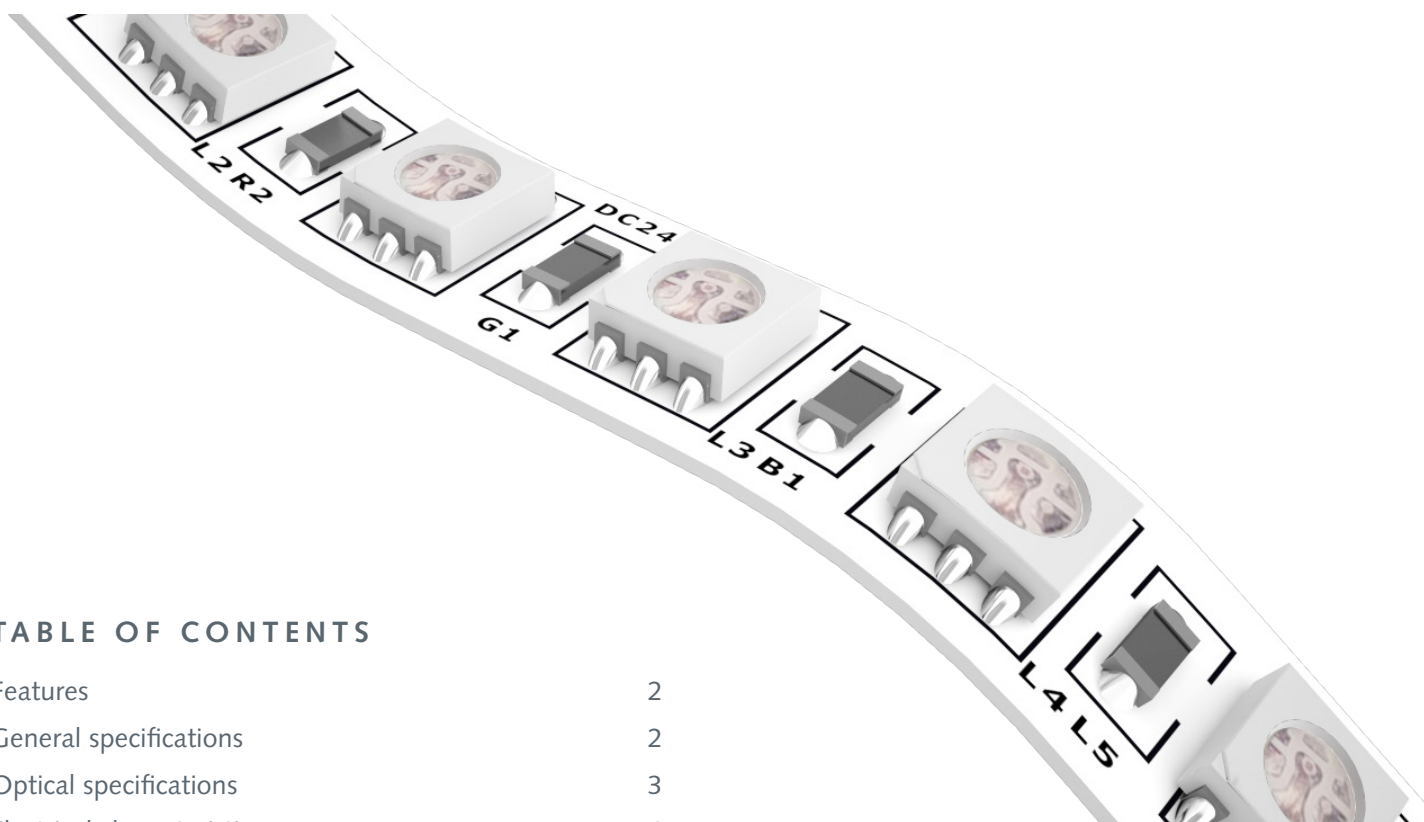


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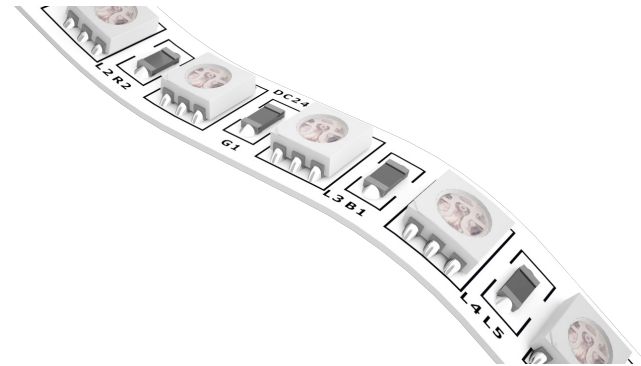
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Quantity ||

FLEX RGB

Standard RGB LED Tape

LUXTECH FLEX RGB offers RGB color changing capabilities in our familiar flexible form factor. With 24V constant voltage DMX control, FLEX RGB enlivens your environment in any fixture form factor.



FEATURES

- » Flexible LED Strip
- » Cuttable Every 2.5"
- » 24V Constant Voltage Input
- » DMX Controllable in 3 channels
- » RGB-in-one LEDs
- » Tight RGB LED binning for color consistency
- » Specification-Grade 3M VHB Adhesive
- » Low Profile 0.39" (10mm) Width

GENERAL SPECIFICATIONS

- » Forward Voltage: 24V Constant Voltage
- » LED Pitch: 0.42"
- » Reel Length: 16.4' (5m) or 65' (20m)
- » Minimum Bend Radius: 0.50"
- » RGB Max 6.57 W/ft
- » High Performance 1+2 oz Copper
- » Max Recommended Length: 15'
- » Beam Angle: 120°

Project ||

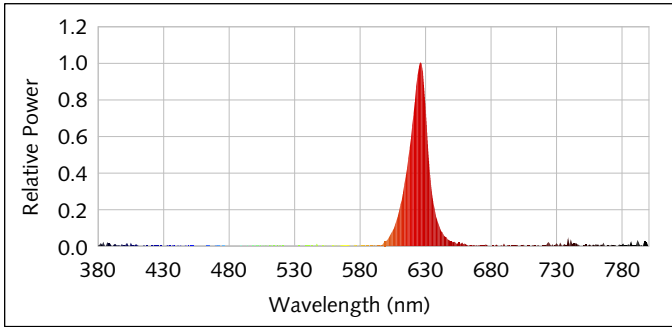
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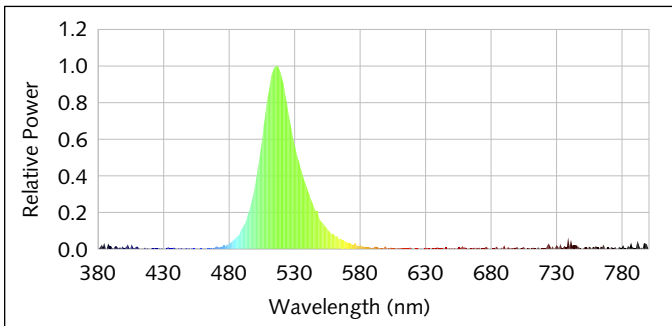
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION, RGB

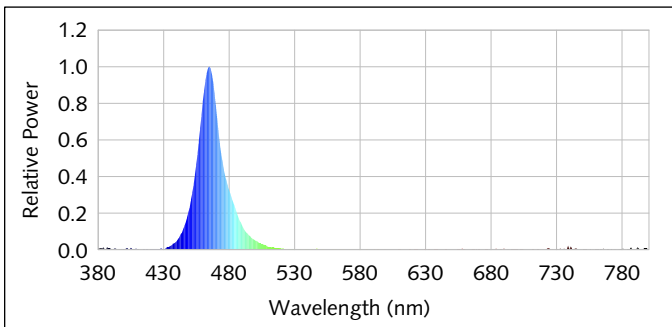
RED



GREEN

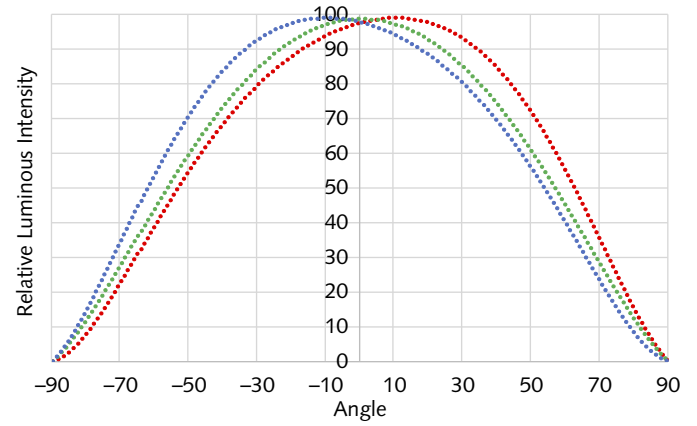


BLUE



BEAM ANGLE

RGB



ELECTRICAL CHARACTERISTICS

Assuming 25°C

To determine power per foot and output per foot for a single color, multiply the value per segment by 4.8 since there are 4.8 segments per foot. Each channel will be powered up to these nominal values or dimmed in order to mix different color combinations, so the power draw from the 24V driver will differ depending on the color selected but will not exceed 5.9 W/ft.

RED	
Current (mA/segment)	17.7
Voltage (V)	24
Radiant Flux (mcd/segment)	3000

BLUE	
Current (mA/segment)	15
Voltage (V)	24
Radiant Flux (mcd/segment)	2155

GREEN	
Current (mA/segment)	15.7
Voltage (V)	24
Radiant Flux (mcd/segment)	8125

Project ||

Type ||

Quantity ||

ABSOLUTE MAXIMUM RATINGS

RED	
Current (mA/segment)	19
Voltage (V)	26
Radiant Flux (mcd/segment)	3300
Temperature (°C)	85

GREEN	
Current (mA/segment)	17
Voltage (V)	26
Radiant Flux (mcd/segment)	8900
Temperature (°C)	85

BLUE	
Current (mA/segment)	16.7
Voltage (V)	26
Radiant Flux (mcd/segment)	2370
Temperature (°C)	85

COMPONENTS	
Max Recommended Run Length (ft)	15

Project ||

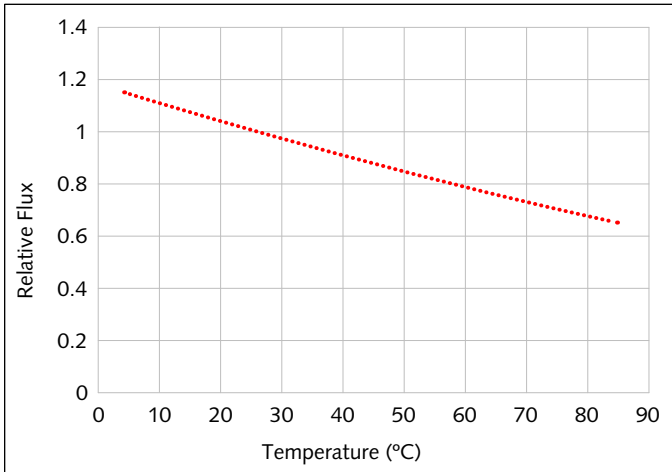
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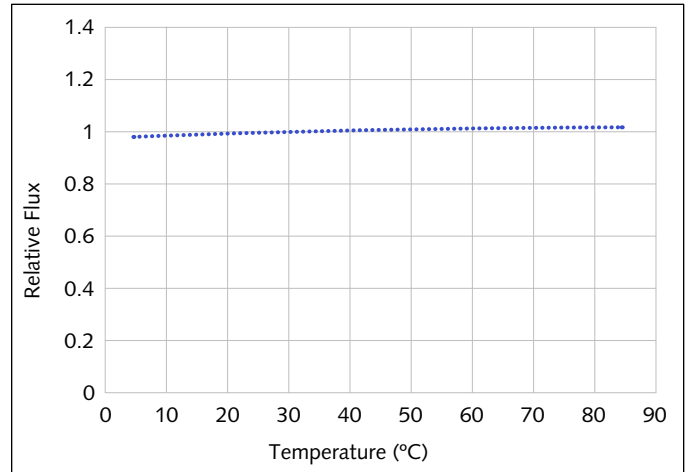
DERATING

FLUX VS. TEMPERATURE

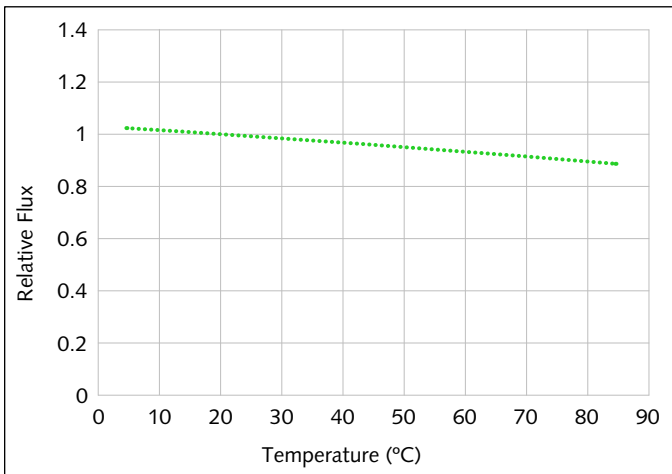
RED



BLUE



GREEN



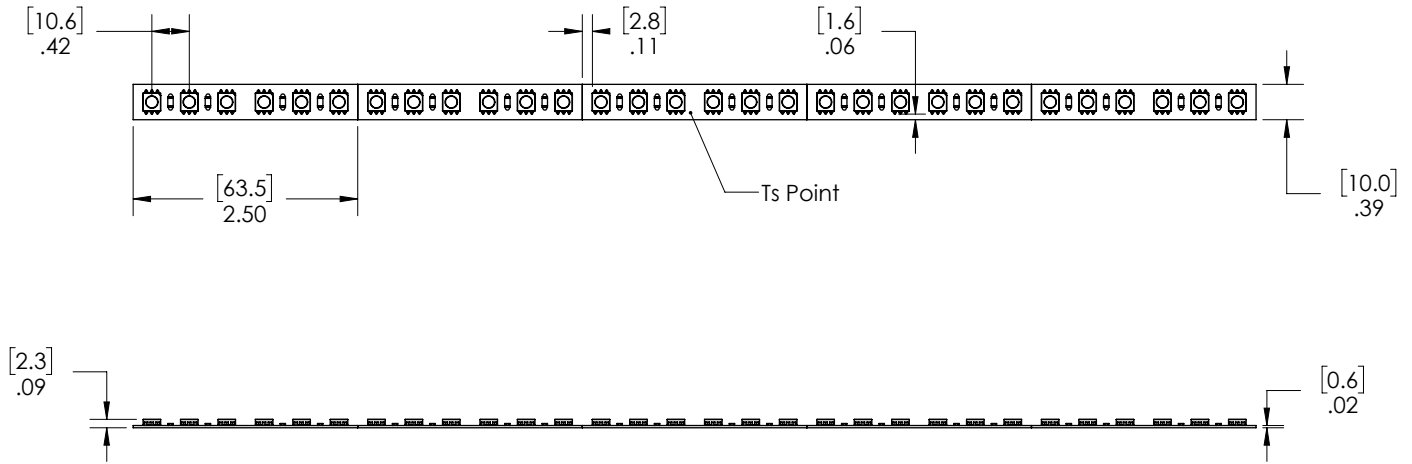
Project ||

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Quantity ||

MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



Units: Inches [mm]

PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN)
Reel Length	196.0
Width	0.394
Thickness	0.118
Solder Joint Length	0.078 +/- 0.010

ACCESSORIES AND DESIGN RESOURCES

DRIVER SELECTION

Recommended for use with EldoLED LinearDriver Constant 24V Constant Voltage DMX drivers.

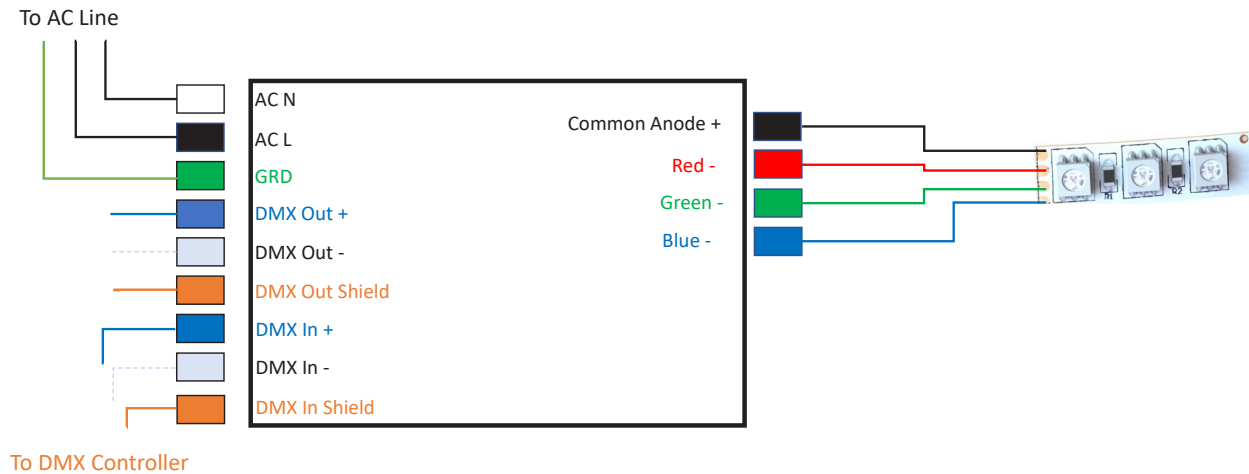
Design resources: CAD files available at LUXTECH.com

CONTROLLER SELECTION

Recommended for use with the following two-channel drivers:

RECOMMENDED BRANDS	MODEL	CONTROL TYPE	NEEDED ACCESSORIES
Lunatone	DALI Touchpanel	DALI	Lunatone PS2 30mA DALI Bus Power supply
Sunricher	SR-2812B(US)	DMX	12-24 VDC Power Supply

WIRING DIAGRAM



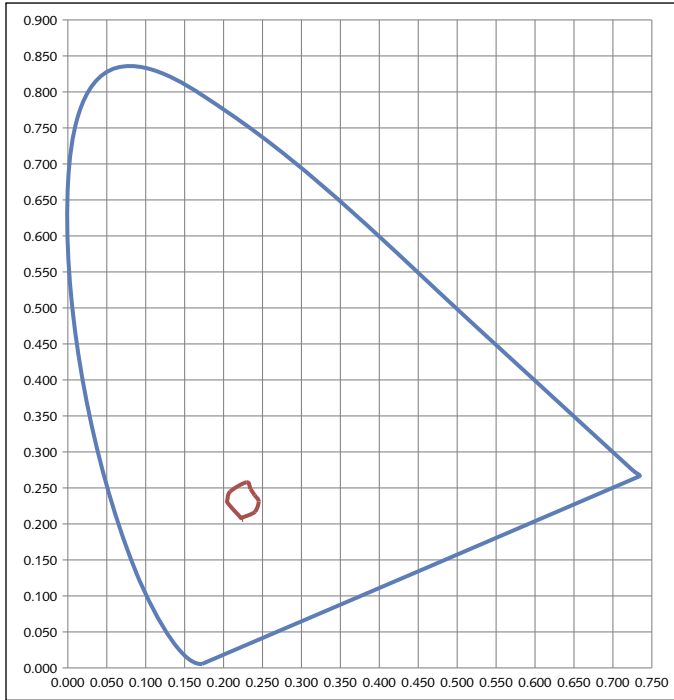
Project ||

Type ||

Quantity ||

COLOR BINNING INFORMATION

RGB SINGLE BIN



Project ||

Type ||

Quantity ||

ORDERING INFORMATION

PRODUCT ORDERING CODES

PRODUCT	REEL SIZE
FX-RGB-25	5m
	20m

EXAMPLE: FX-RGB-25-5M
ORDER IN INCREMENTS OF 16.4'

SUGGESTED CONNECTORS

PRODUCT	MANUFACTURER	DESCRIPTION
OL11-SL10XB-4W	Onlumi	10mm 4 Channel Narrow Wire-to-Board Connector with Multicolored Wire
OL11-SL10XB-4	Onlumi	10mm 4 Channel Narrow Wire-to-Board Connector, No Wire
OL11-SL10BB-4W	Onlumi	10mm 4 channel Narrow Board-to-Board Connector with Multicolored Wire
OL11-SL10BxB-4	Onlumi	10mm 4 channel Narrow Board-to-Board Connector, No Wire
OL11-SEN10XB-4W	Onlumi	10mm 4 Channel Clear Hippo Wire-to-Board Connector with Multicolored Wire
OL11-SEN10XB-4	Onlumi	10mm 4 Channel Clear Hippo Wire-to-Board Connector, No Wire
OL11-SEN10BB-4W	Onlumi	10mm 4 channel Clear Hippo Board-to-Board Connector with Multicolored Wire
OL11-SEN10BB-4	Onlumi	10mm 4 channel Clear Hippo Board-to-Board Connector, No Wire

REV. 1.75



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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