



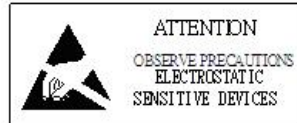
# YJ-BC-RB-2835M-24V-G03

## High CRI LED Flex Strip

**PRODUCT:**  
HIGH CRI&EFFICACY LED FLEX STRIP 2835M 24V



**FEATURES:**  
 10 mm width flexible PCB with adhesive backing  
 5-meter length per roll, 128 LEDs/meter  
 115lm/W with min.95 CRI, 5600K  
 15.5 W / meter (5 W / foot)  
 Cuttable every 8 LEDs (62.5 mm)  
 Weight 135g



**DESCRIPTION**

YUJILED S® high CRI LED flexible strips are extremely versatile and can be installed in a variety of linear and curved surfaces alike. Enhanced copper traces with precision SMT resistors provide consistently high power and brightness. 3M® adhesive backing allows for quick installation.

ELECTRICAL-OPTICAL CHARACTERISTICS (T <sub>A</sub> = 25 °C)							
PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Power per meter*	--	--	15.5	--	W/m	--	V <sub>f</sub> = 24V
Forward current per meter	I <sub>f</sub>	--	0.65	--	A	--	
Voltage drop percentage at 5m end	--	--	3%	--	--	--	
Luminous flux per meter	Φ <sub>5600K</sub>	--	1750	--	Lm	--	
Correlated color temperature	CCT <sub>5600K</sub>	5600K ± 100K			K	--	
Color rendering index	R <sub>a</sub>	95	98	--	--	--	
TCS R9 (CRI Red)	R <sub>9</sub>	90	93	--	--	--	
TLCI-2012	--	95	98	--	--	--	
TM 30-18	R <sub>f</sub>	90	95	--	--	--	
	R <sub>g</sub>	95	98	--	--	--	
SDCM**	--	1-2			Step	--	
Viewing angle	2θ <sub>1/2</sub>	--	120	--	Deg	±5	

\*Unless otherwise noted, specifications are based on a 1 meter segment. Due to electrical resistance, power draw per meter decreases approximately by 0.05A for each additional meter increase per segment.

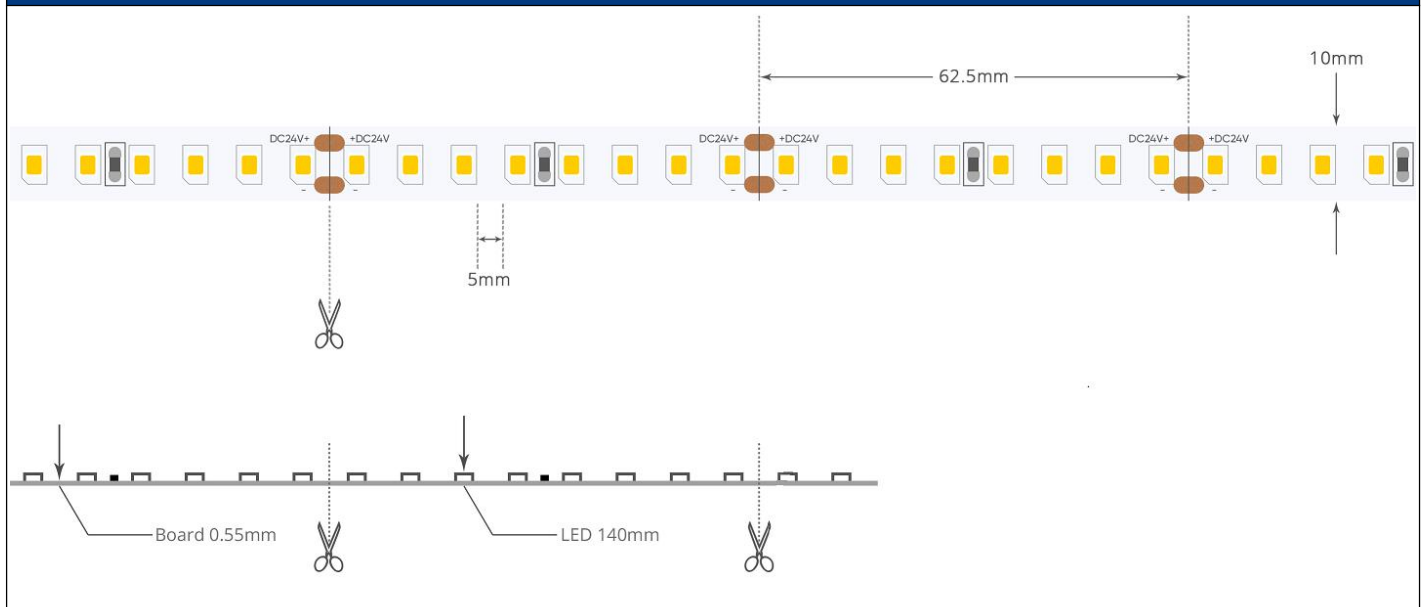
\*\*The SDCM value indicates that there is non discernible color difference among Yuji products at the same color temperature but different from the ANSI standard illuminant.

ORDERING INFORMATION		
PART NUMBER	CCT	CHROMATICITY BINS
YJ-BC-RB-2835M-24V-G03-56	5600K ± 100K	56M
YJ-BC-RB-2835M-24V-G03-XX	CUSTOM	

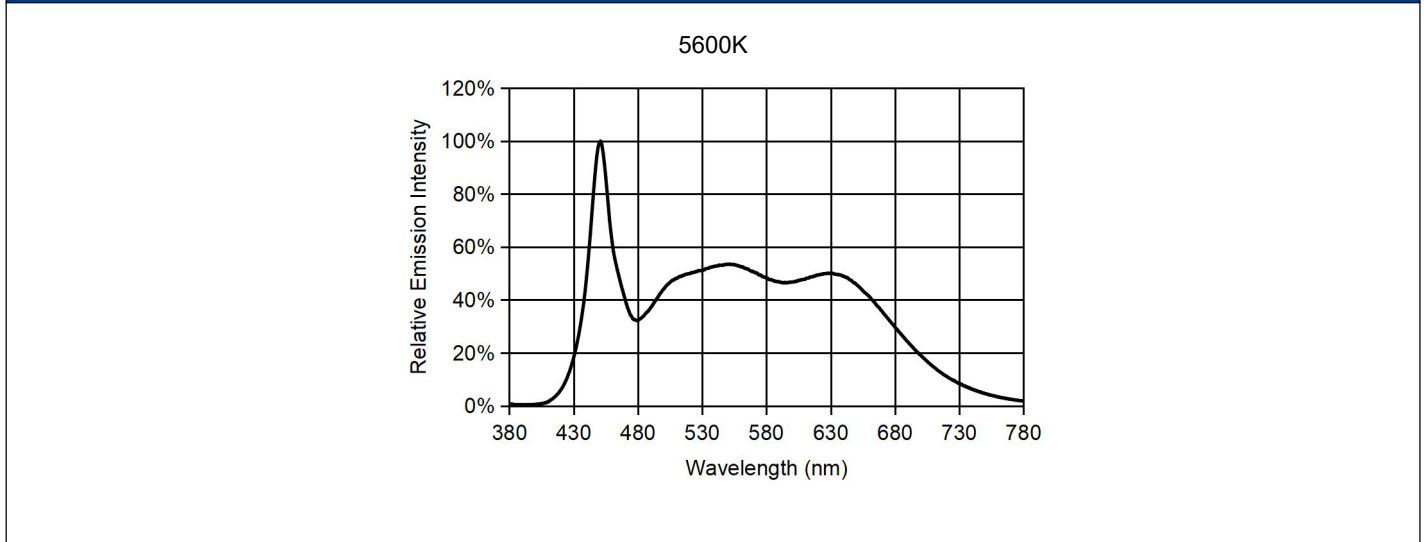
### ABSOLUTE MAXIMUM RATING ( $T_A = 25\text{ }^\circ\text{C}$ )

PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	$P_D$	18	W/m
Operating Temperature	$T_{opr}$	-40 ~ +85	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-30 ~ +85	$^\circ\text{C}$

### DIMENSIONAL DRAWING



### TYPICAL SPECTRAL DISTRIBUTION GRAPHS





#### ADDITIONAL NOTES

##### *SELECTING A POWER SUPPLY*

*The wattage/amperage requirement is directly proportional to the length of LED flexible strip installed. Calculate the power requirement by multiplying the total length in meters by the maximum wattage or amperage per meter. For additional power supply stability, we recommend specifying 25% additional power capacity above the requirement. For example, a 5 meter length would require 5 meters x 18 W / meter = 90W; for power supply stability, we would recommend a power supply that is capable of supplying at least W (90W + 25% x 90W).*

##### *DIMMING*

*Our LED flex strips are compatible with 1-10V and PWM dimming systems.*

##### *HEAT MANAGEMENT*

*Heatsinking is not necessary if product is used in standard indoor environments where ambient temperatures do not exceed 50°C. Our testing at Ta = 25°C shows LED solder point temperatures stabilizing at 68°C. Maximum allowed LED solder point temperature is 105°C.*