

# YJ-BC-IP65RB-2835L-24V-G03

## HIGH CRI LED FLEXI STRIP



High CRI LED Flexi Strip 2835L 24V



### FEATURES

- 12mm width flexible PCB with adhesive backing
- 5m length per roll
- 95 CRI, 2700K / 5600K
- 13W/m (3.9W/foot)
- 24V constant voltage compatible
- Uncuttable
- Protection rating IP65
- Weight 310g



### DESCRIPTION

YUJILEDSS® high CRI LED IP65 flexible strips are extremely versatile and can be installed in a variety of linear and curved surfaces alike. The optimised LED and protective coating prevent dust and jet water at low pressure, keeping high colour rendering and accurate colour simultaneously. 3M® adhesive backing allows for quick installation.

### ELECTRICAL-OPTICAL CHARACTERISTICS (TA = 25 °C)

Parameter	Symbol	Value			Unit	Tolerance	Condition
		Min.	Typ.	Max.			
Power per metre *	–	–	13	14.3	W	–	Vf=24V
Forward current per metre	If	–	0.54	0.60	A	–	Vf=24V
Luminous flux per metre	2700K	–	700	–	lm	–	Vf=24V
	5600K	–	850	–			
Correlated colour temperature **	CCT 2700K	2625	2700	2775	K	–	Vf=24V
	CCT 5600K	5400	5600	5800			
Colour rendering index	Ra	95	–	–	–	–	Vf=24V
TCS R9 (CRI Red)	R9	–	90	–	–	–	Vf=24V
Chromaticity Coordinates	(X,Y)	–	–	–	–	±0.005	–
Viewing angle	2θ1/2	–	120	–	Deg	±5	Vf=24V

### ORDERING INFORMATION

Part Number	CCT	Chromaticity Bins
YJ-BC-IP65RB-2835L-24V-G03-27	2700K ± 75K	27M
YJ-BC-IP65RB-2835L-24V-G03-56	5600K ± 200K	56M
YJ-BC-IP65RB-2835L-24V-G03-XX	CUSTOM	

### NOTES

Intensities (Iv) and colour shades of white (X-Y co-ordinates) may vary between LEDs within a batch. All LED components are supplied in anti-static packaging.

\* Unless otherwise noted, specifications are based on a 1 metre segment.

\*\* CCT range is tested under Yuji Everfine standard equipment which shall prevail, CIE1931 chromaticity coordinate tolerance ±0.0015 as reference.

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# YJ-BC-IP65RB-2835L-24V-G03

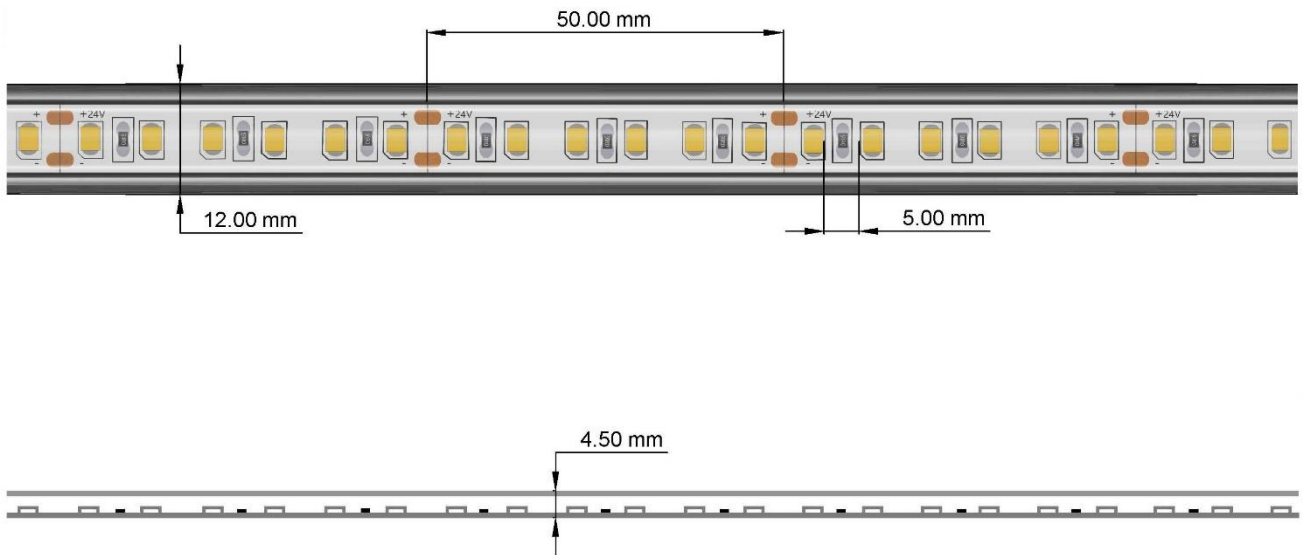
## HIGH CRI LED FLEXI STRIP



### ABSOLUTE MAXIMUM RATING (TA = 25 °C)

Parameter	Symbol	Limit	Unit
Power Consumption	Pd	14.3	W/m
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-30 ~ +85	°C

### DIMENSIONAL DRAWING



### CHROMATICITY BINS & COORDINATES

CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
5600K	56M	0.3257	0.3420	0.3262	0.3285	0.3346	0.3358	0.3348	0.3506
2700K	27M	0.4582	0.4174	0.4494	0.4012	0.4610	0.4035	0.4704	0.4195

### 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 metres by the maximum wattage or amperage per metre. For additional power supply stability, we recommend specifying 25% additional power capacity above the requirement. For example, a 5 metre length would require 5 metres x 14.3 W / metre = 71.5W; for power supply stability, we would recommend a power supply that is capable of supplying at least W (71.5W + 25% x 71.5W).

#### DIMMING

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

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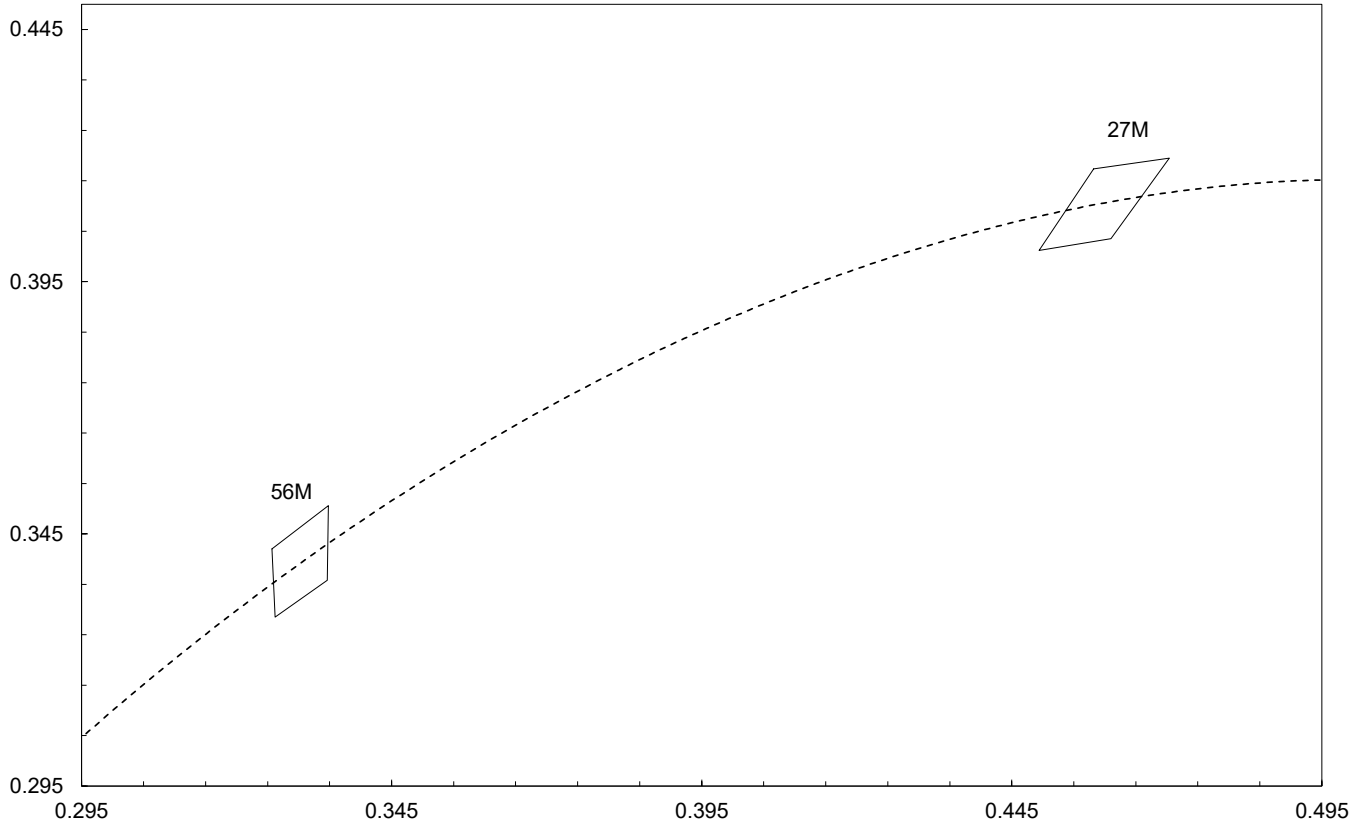


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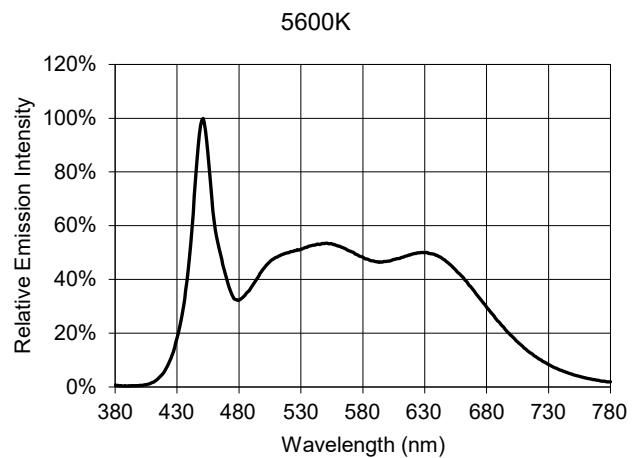
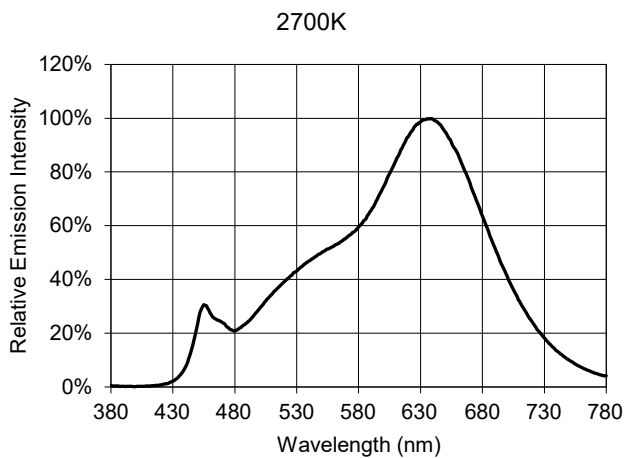
## HIGH CRI LED FLEXI STRIP



### CIE 1931 COORDINATES



### TYPICAL SPECTRAL DISTRIBUTION GRAPHS



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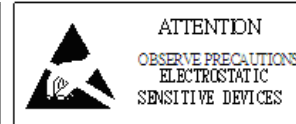


High CRI LED Flexi Strip 2835L 24V



### FEATURES

- 12mm width flexible PCB with adhesive backing
- 5m length per roll
- 95 CRI, 2700K / 5600K
- 13W/m (3.9W/foot)
- 24V constant voltage compatible
- Uncuttable
- Protection rating IP67
- Weight 450g



### DESCRIPTION

YUJILEDSS® high CRI LED IP67 flexible strips are extremely versatile and can be installed in a variety of linear and curved surfaces alike. The optimised LED and protective coating make it possible to soak in water ( $\leq 1\text{m}$ ), keeping high colour rendering and accurate colour simultaneously. 3M® adhesive backing allows for quick installation.

### ELECTRICAL-OPTICAL CHARACTERISTICS (TA = 25 °C)

Parameter	Symbol	Value			Unit	Tolerance	Condition
		Min.	Typ.	Max.			
Power per metre *	–	–	13	14.3	W	–	Vf=24V
Forward current per metre	If	–	0.55	0.60	A	–	Vf=24V
Luminous flux per metre	2700K	–	700	–	lm	–	Vf=24V
	5600K	–	820	–			
Correlated colour temperature **	CCT 2700K	2625	2700	2775	K	–	Vf=24V
	CCT 5600K	5400	5600	5800			
Colour rendering index	Ra	95	–	–	–	–	Vf=24V
TCS R9 (CRI Red)	R9	–	90	–	–	–	Vf=24V
Chromaticity Coordinates	(X,Y)	–	–	–	–	$\pm 0.005$	–
Viewing angle	2 $\theta$ 1/2	–	120	–	Deg	$\pm 5$	Vf=24V

### ORDERING INFORMATION

Part Number	CCT	Chromaticity Bins
YJ-BC-IP67RB-2835L-24V-G03-27	2700K $\pm$ 75K	27M
YJ-BC-IP67RB-2835L-24V-G03-56	5600K $\pm$ 200K	56M
YJ-BC-IP67RB-2835L-24V-G03-XX	CUSTOM	

### NOTES

Intensities (lv) and colour shades of white (X-Y co-ordinates) may vary between LEDs within a batch. All LED components are supplied in anti-static packaging.

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\*\* CCT range is tested under Yuji Everfine standard equipment which shall prevail, CIE1931 chromaticity coordinate tolerance  $\pm 0.0015$  as reference.

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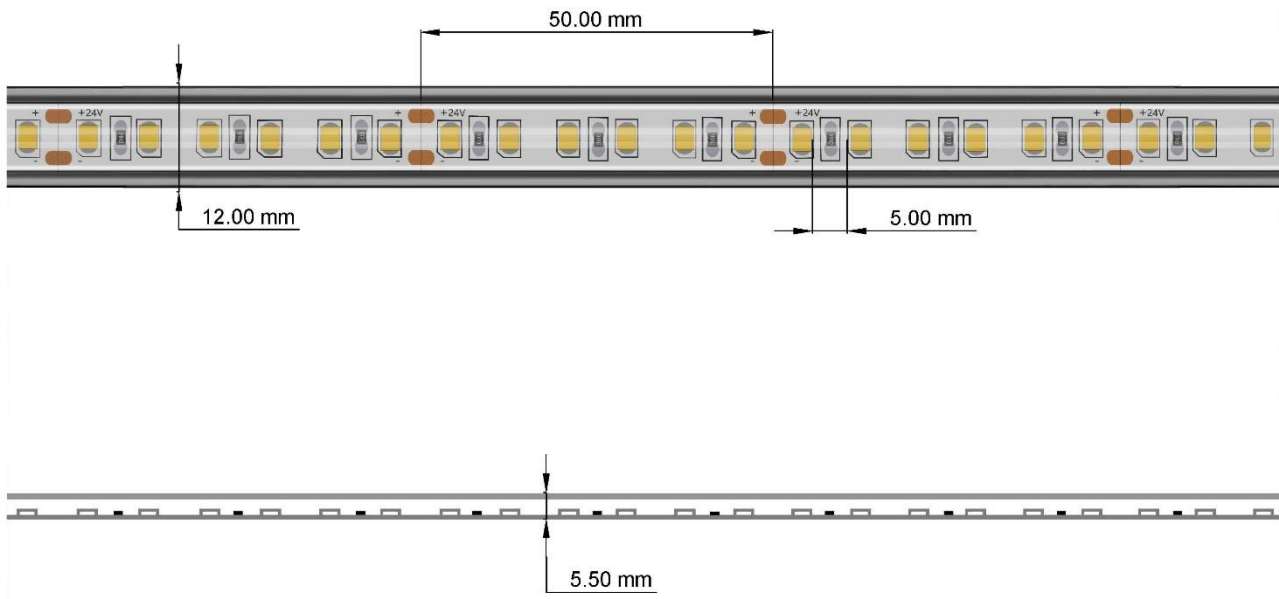
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Parameter	Symbol	Limit	Unit
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### DIMENSIONAL DRAWING



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#### 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 stabilising at 68°C. Maximum allowed LED solder point temperature is 105°C.

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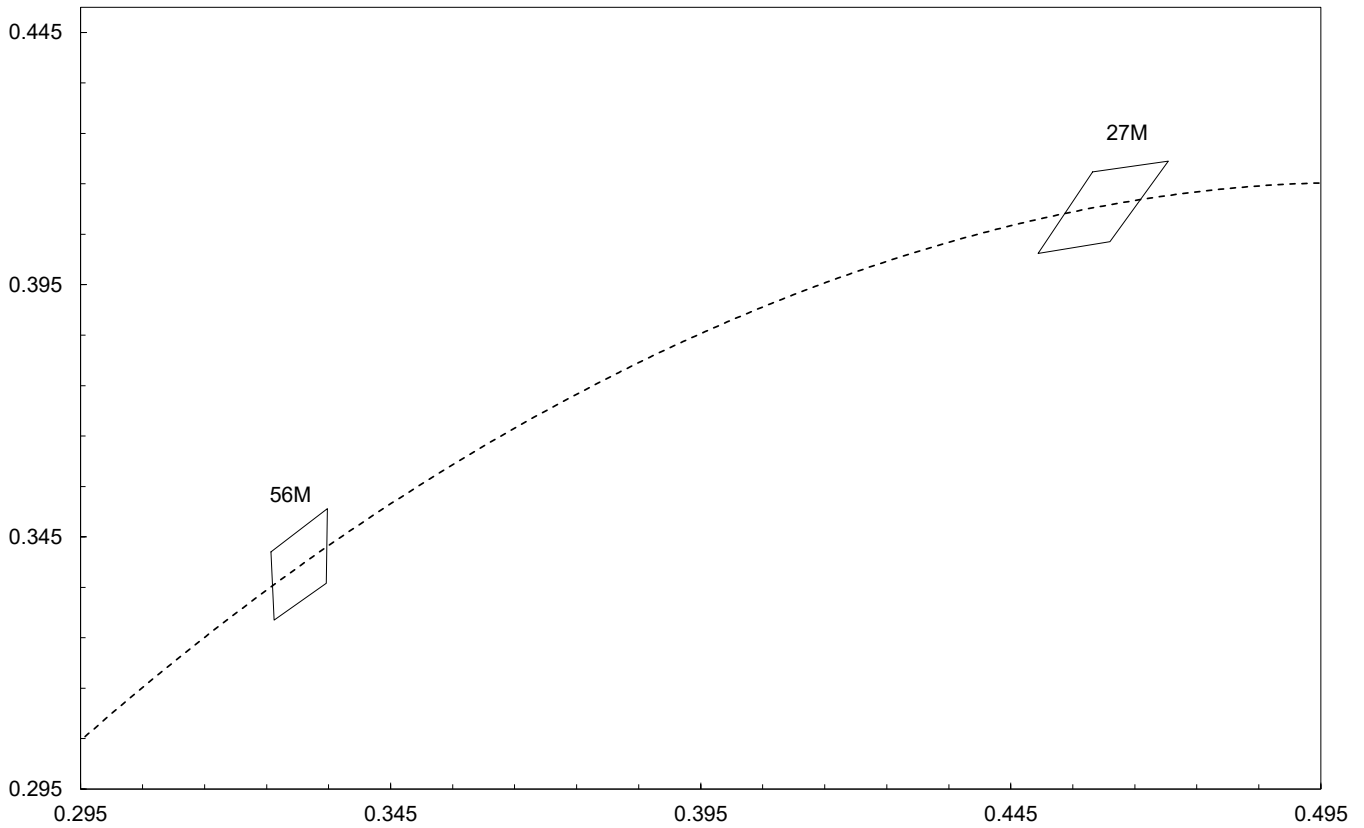


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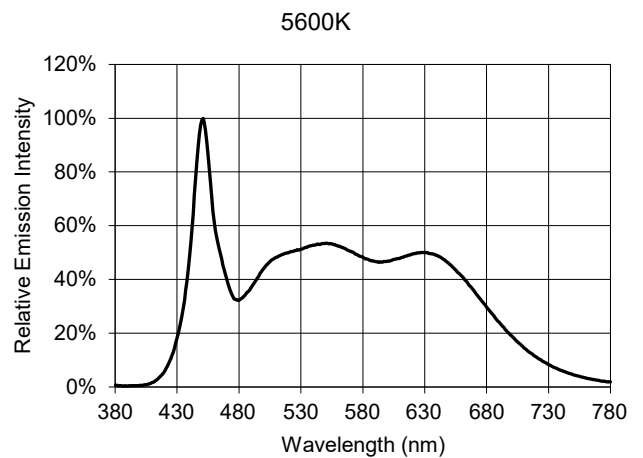
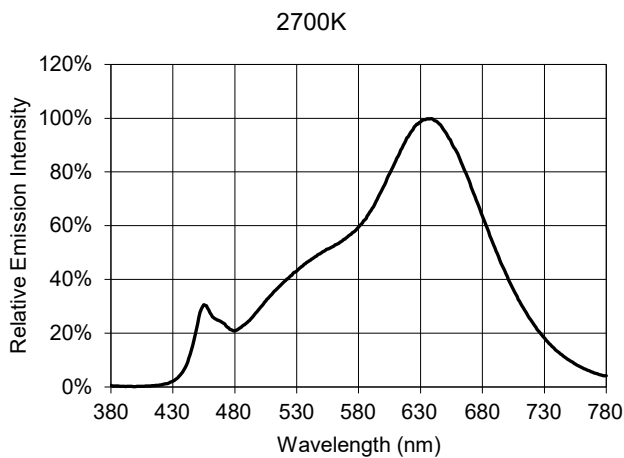
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