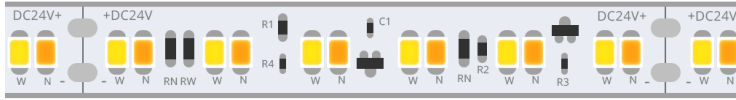


YJ-BC-HRB-PTW-2835L-24V-G03

DIM-TO-WARM HIGH CRI LED FLEXI STRIP



Dim-to-warm HIGH CRI LED FLEX STRIP Hybrid
Colour Temperature 2835 24V (PWM dimming)

FEATURES

- 10mm width flexible PCB with adhesive backing
- 5m length per roll
- 98 CRI
- PWM (1500Hz) Dimmable 3000K-1800K
- Dim to warm, CCT and brightness dim at the same time
- 16.80 W/m (5.10W/foot)
- 24V constant voltage compatible
- 168 LEDs per metre, cuttable every 12 LEDs (71.43 mm)
- Weight 150g



DESCRIPTION

Dim-to-warm 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 (TA = 25°C)

Parameter	Symbol	Value			Unit	Tolerance	Condition
		Min.	Typ.	Max.			
Power per metre *	-	-	-	16.80	W	-	Vf=24V
Forward current per metre	If	-	-	0.70	A	-	Vf=24V
Luminous flux per metre	Φ1800K + Φ3000K	-	-	1000	lm	-	Vf=24V
Correlated colour temperature	CCT 1800K	1700	1800	1900	K	-	Vf=24V
	CCT 3000K	2850	3000	3150			
M/P ratio	CCT 1800K	-	0.304	-	-	-	
	CCT 3000K	-	0.571	-			
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-HRB-PTW-2835L-24V-G02-3018	1800K ± 100K	18M
	3000K ± 150K	30M
YJ-BC-HRB-PTW-2835L-24V-G02-XXXX	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.
* Unless otherwise noted, specifications are based on a 1 metre segment. Due to electrical resistance, power draw per metre decreases approximately by 0.05A for each additional metre increase per segment.

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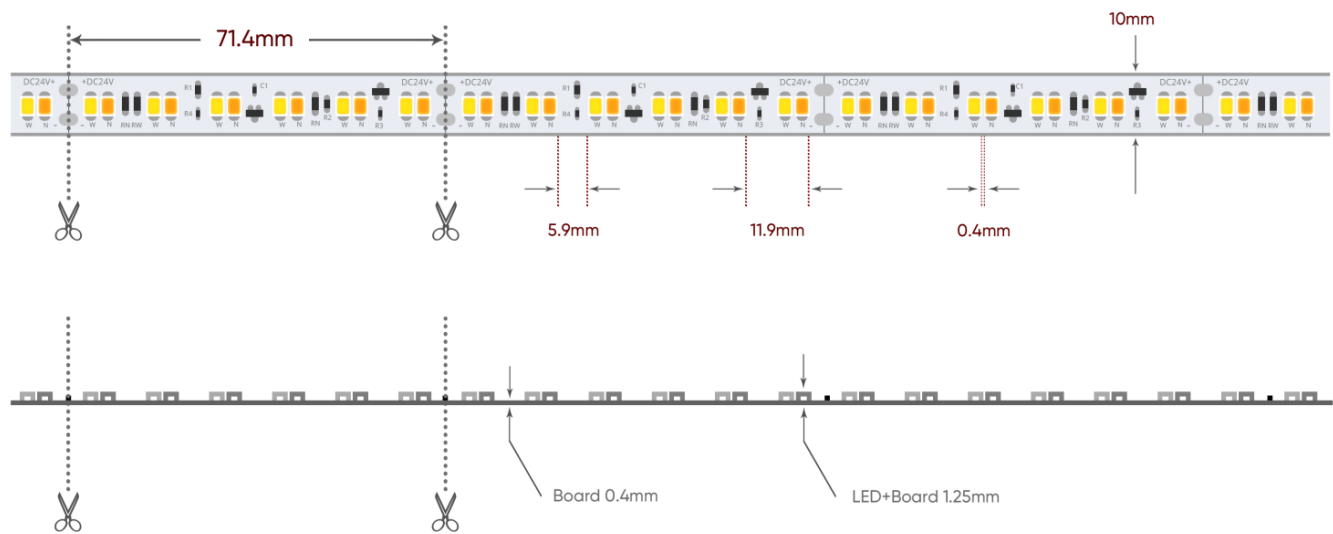
DIM-TO-WARM HIGH CRI LED FLEXI STRIP



ABSOLUTE MAXIMUM RATING (TA = 25 °C)

Parameter	Symbol	Limit	Unit
Power Consumption	Pd	18	W/m
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-30 ~ +85	°C

DIMENSIONAL DRAWING



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 20% additional power capacity above the requirement. For example, a 5 metre length would require 5 metres x 20 W / metre = 100W; for power supply stability, we would recommend a power supply that is capable of supplying at least W (100W + 20% x 100W).

DIMMING

Our LED flex strips are compatible with 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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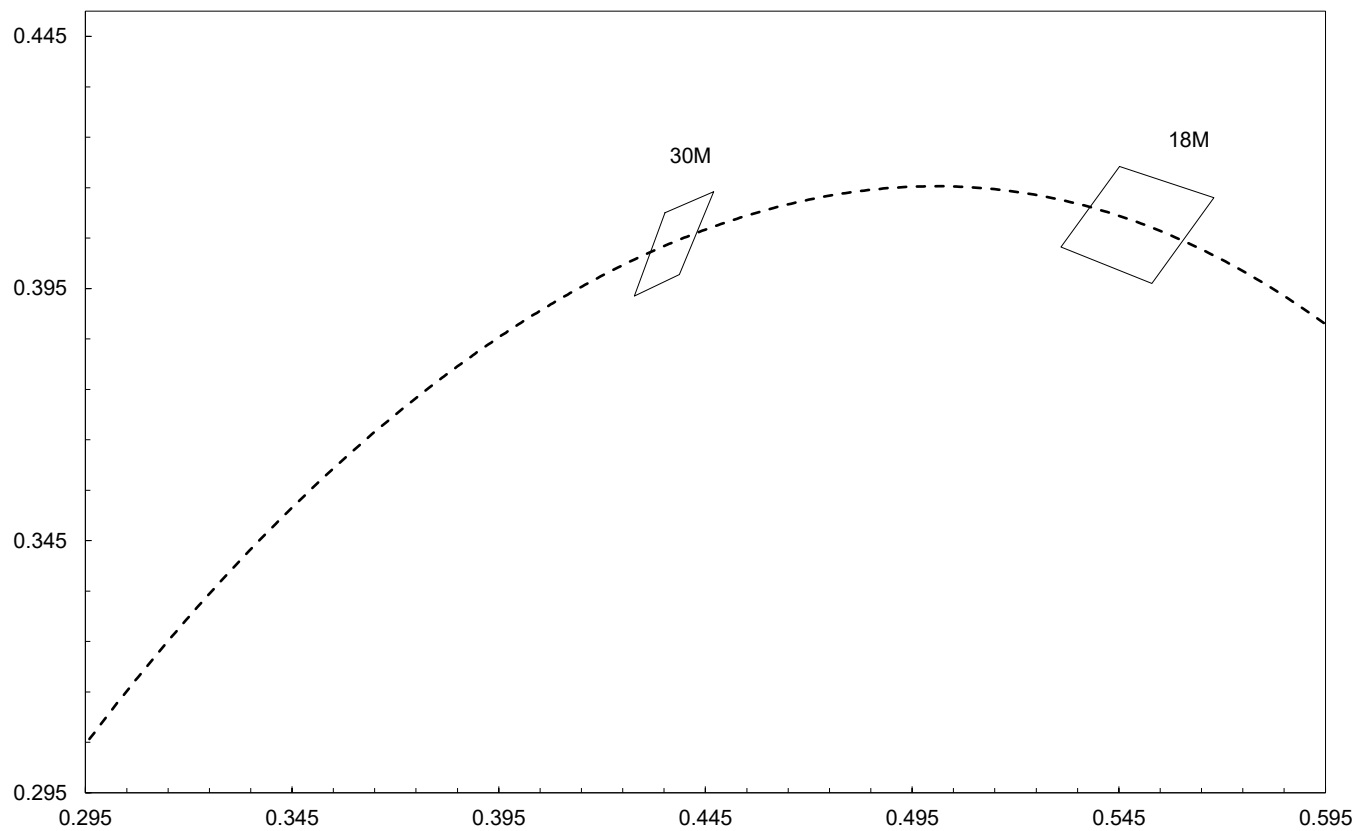
DIM-TO-WARM HIGH CRI LED FLEXI STRIP



CHROMATICITY BINS & COORDINATES

CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
3000K	30M	0.4352	0.4100	0.4278	0.3935	0.4387	0.3978	0.4470	0.4142
1800L	18M	0.5452	0.4192	0.5310	0.4032	0.5530	0.3960	0.5680	0.4130

CIE 1931 COORDINATES



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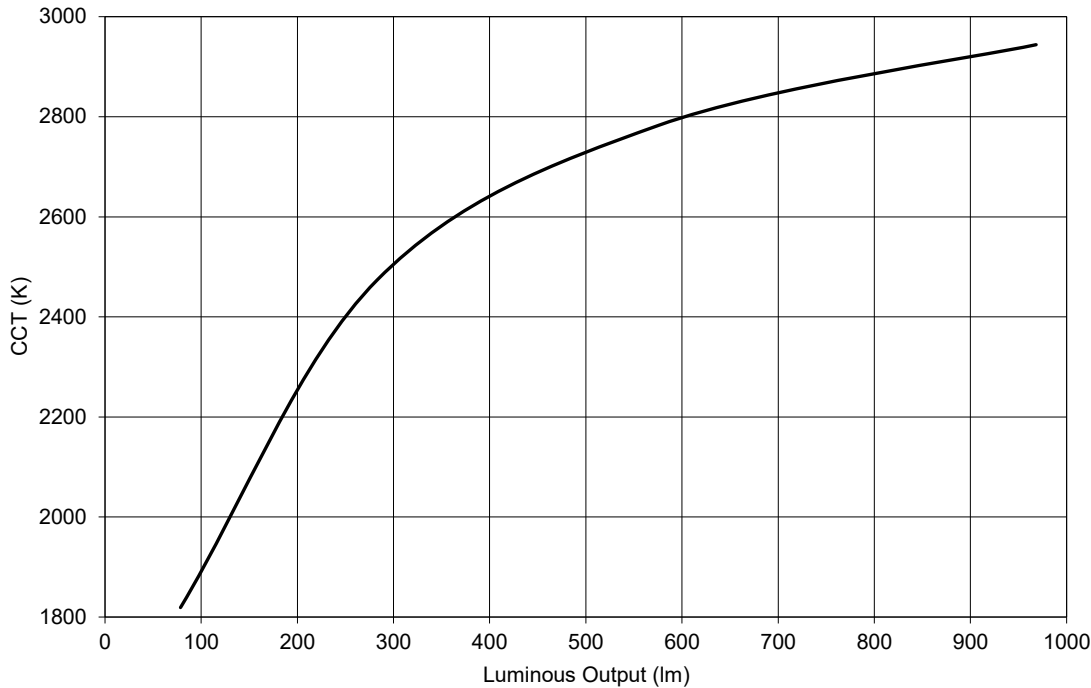


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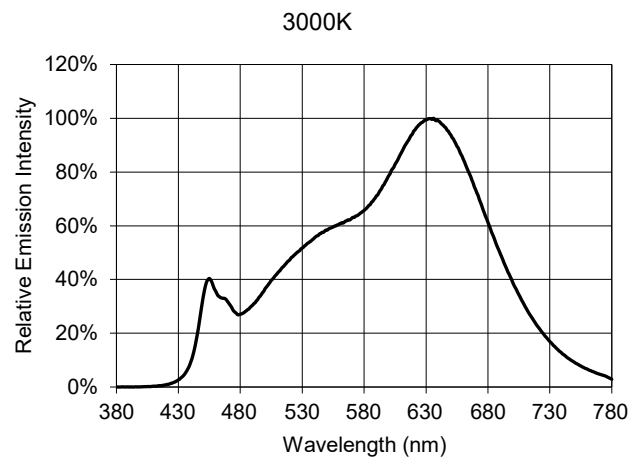
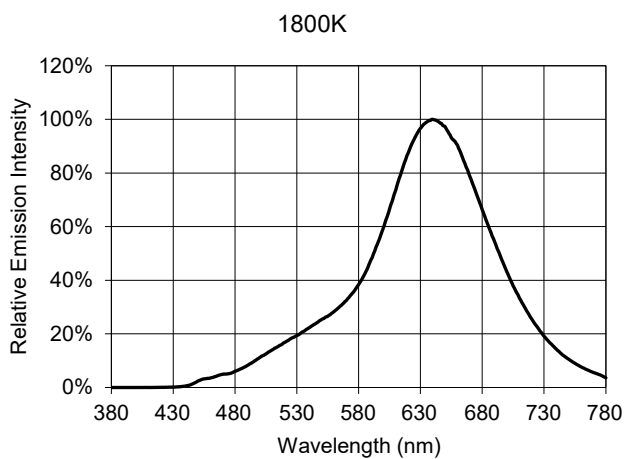
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DIMMING CURVE



TYPICAL SPECTRAL DISTRIBUTION GRAPHS



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