

PRODUCT:

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



FEATURES:

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



DESCRIPTION

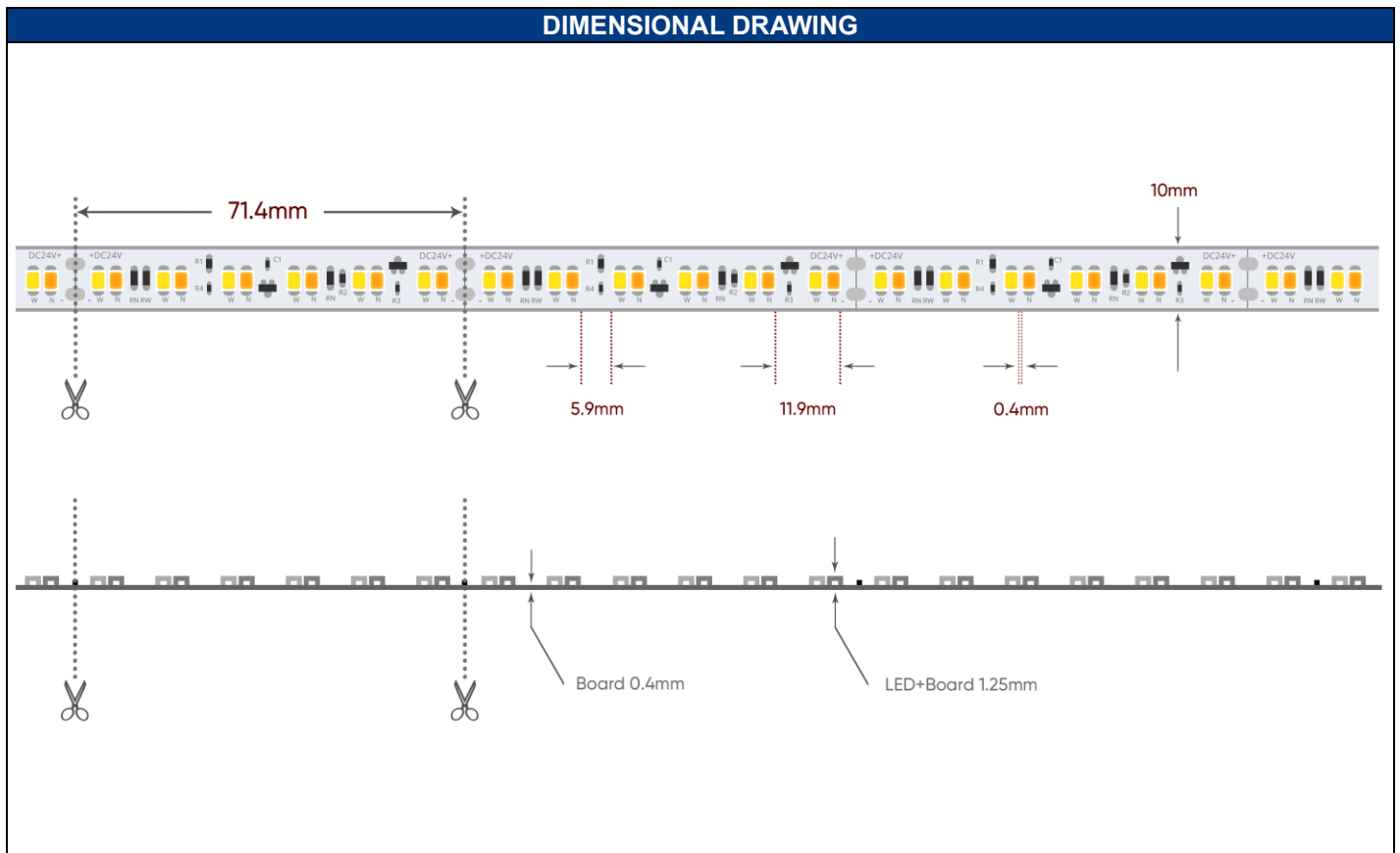
Dim-to-warm high CRI LED flexible strips are extremely versatile and can be installed in a variety of linear and curved surfaces alike. Enhanced copper traces with precision SMT resistors provide consistently high power and brightness. 3M® adhesive backing allows for quick installation.

ELECTRICAL-OPTICAL CHARACTERISTICS (T _A = 25 °C)							
PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Power per meter*	--	--	--	16.80	W	--	V _f = 24V
Forward current per meter	I _f	--	--	0.70	A	--	V _f = 24V
Luminous flux per meter	Φ _{1800K} + Φ _{3000K}	--	--	1000	lm	--	V _f = 24V
Correlated color temperature	CCT _{1800K}	1800 ± 100			K	--	V _f = 24V
	CCT _{3000K}	3000 ± 150					
M/P ratio	CCT _{1800K}	--	0.304	--	--	--	V _f = 24V
	CCT _{3000K}	--	0.571	--			
Color rendering index	R _a	--	95	--	--	--	V _f = 24V
TCS R9 (CRI Red)	R ₉	--	90	--	--	--	V _f = 24V
Chromaticity coordinates	(X,Y)	--	--	--	--	± 0.005	--
Viewing angle	2θ _{1/2}	--	120	--	Deg	± 5	V _f = 24V

*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.

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-G03-XXXX	CUSTOM	

ABSOLUTE MAXIMUM RATING (T _A = 25 °C)			
PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P _D	18	W/m
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-30 ~ +85	°C

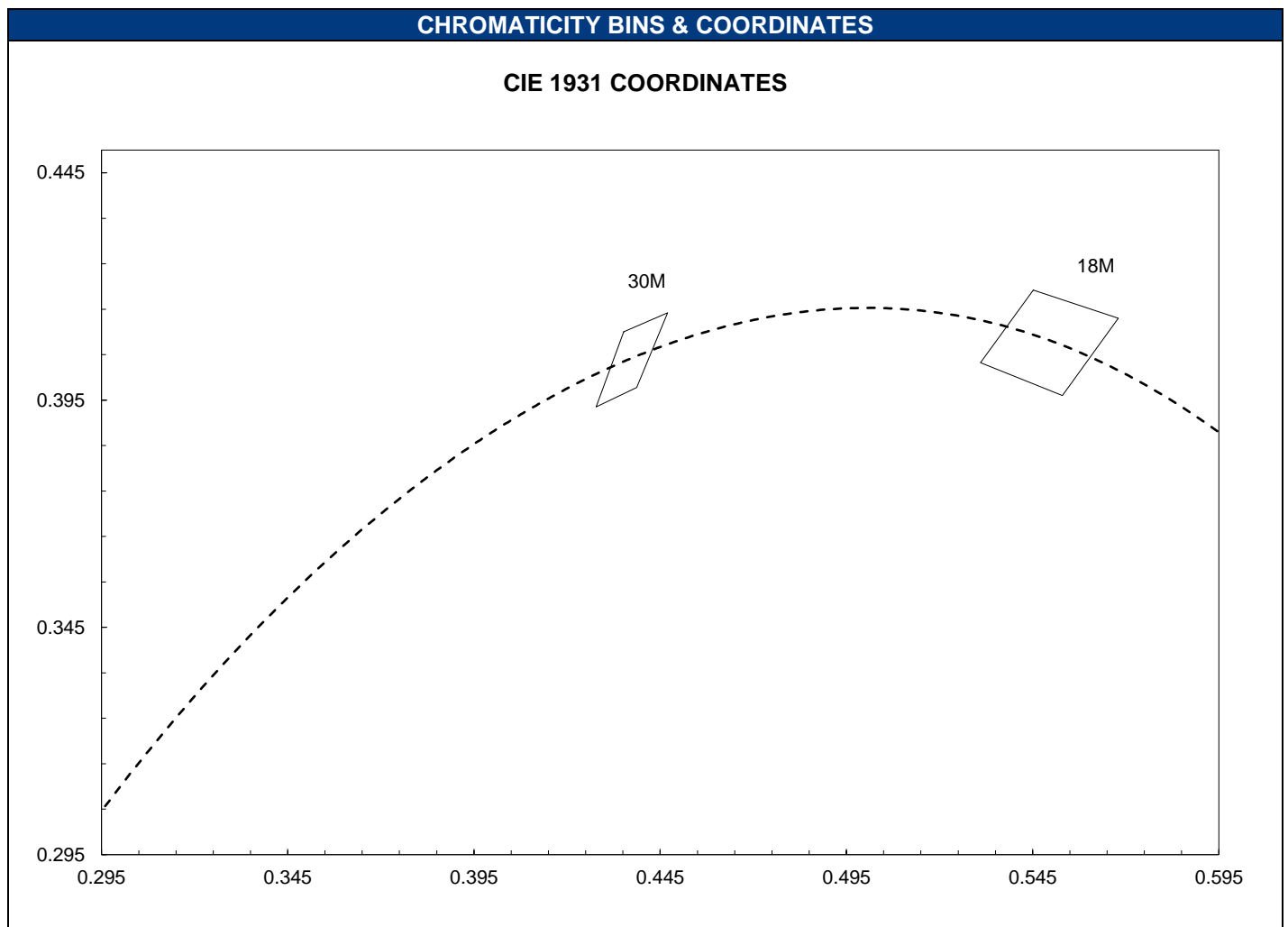


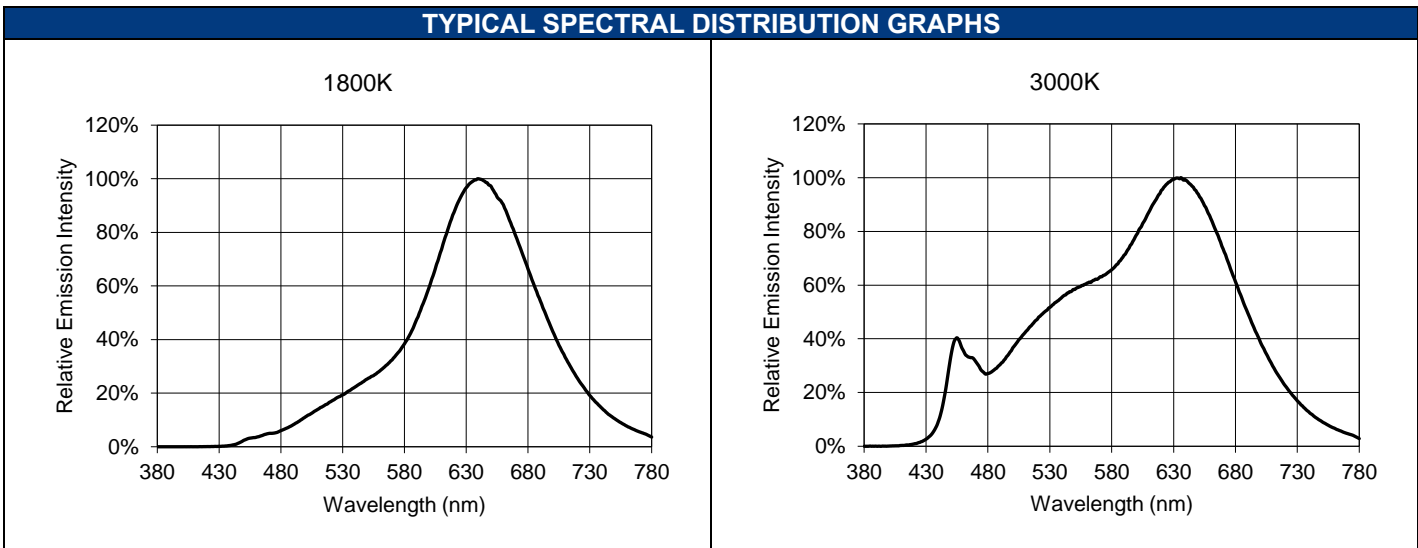
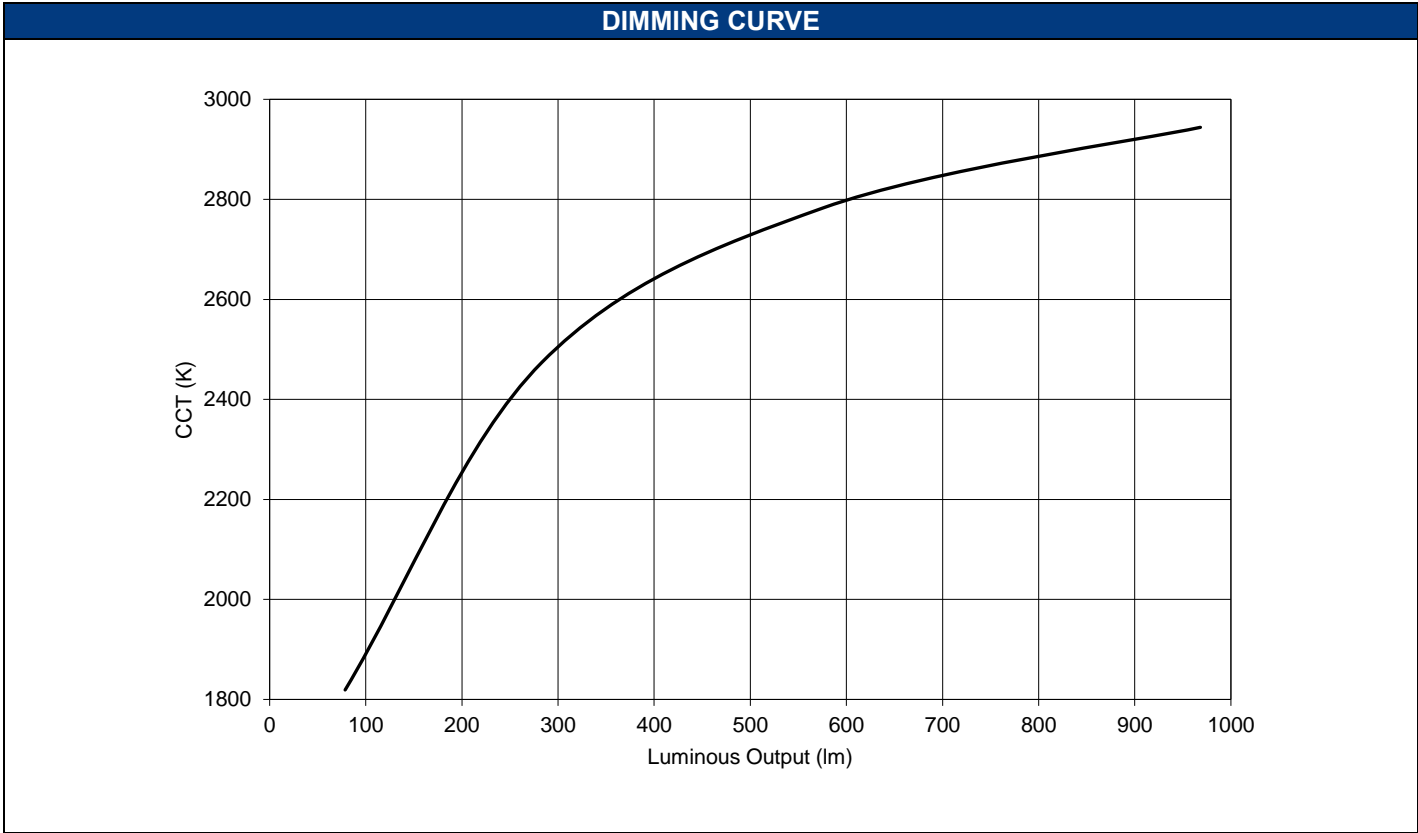


YJ-BC-HRB-PTW-2835L-24V-G03

Dim-to-warm High CRI LED Flex 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
1800K	18M	0.5452	0.4192	0.5310	0.4032	0.5530	0.3960	0.5680	0.4130







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 20% additional power capacity above the requirement. For example, a 5 meter length would require 5 meters x 20 W / meter = 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 $T_a = 25^\circ\text{C}$ shows LED solder point temperatures stabilizing at 68°C. Maximum allowed LED solder point temperature is 105°C.