

PRODUCT:

HIGH CRI LED FLEX STRIP Hybrid Color
FULL COLOR GAMUT



FEATURES:

- 12 mm width flexible PCB with adhesive backing
- 5-meter length per roll
- 95 CRI, 2700K / 6500K
- R / G / B
- 24V constant voltage compatible
- Cuttable every 6 LEDs (100 mm)



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 _A = 25 °C)							
PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Power per meter*	2700K	--	7.2	8	W	--	V _f = 24V
	6500K	--	7.2	8			
	R	--	4.8	5.3			
	G	--	4.8	5.3			
	B	--	4.8	5.3			
Luminous flux per meter	2700K	--	430	--	lm	--	V _f = 24V
	6500K	--	500	--			
	R	--	120	--			
	G	--	250	--			
	B	--	60	--			
Dominant wavelength	R	619	--	624	nm	±1	V _f = 24V
	G	518	--	523			
	B	465	--	470			
Correlated color temperature **	CCT _{2700K}	2625	2700	2775	K	--	V _f = 24V
	CCT _{6500K}	6250	6500	6750			
Color rendering index (2700K / 6500K)	R _a	95	--	--	--	--	V _f = 24V
TCS R9 (CRI Red) (2700K / 6500K)	R ₉	80	90	--	--	--	V _f = 24V
Viewing angle	2θ _{1/2}	--	120	--	Deg	±5	V _f = 24V

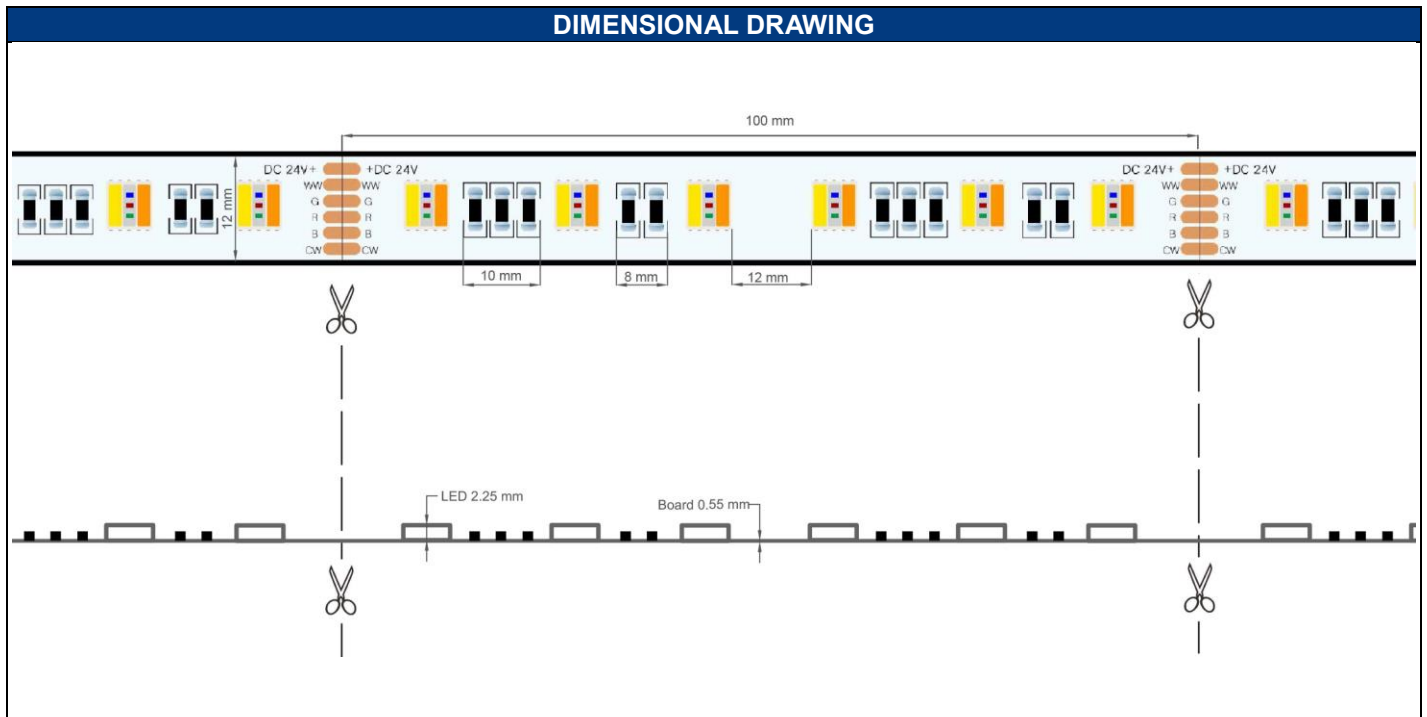
*Unless otherwise noted, specifications are based on a 1 meter segment.

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

ORDERING INFORMATION		
PART NUMBER	CCT	CHROMATICITY BINS
YJ-BC-HRB-RGBWW5050-24V-G03-2765	2700K ± 75K	27M
	6500K ± 250K	65M
YJ-BC-HRB-RGBWW5050-24V-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

*This data is for reference only.

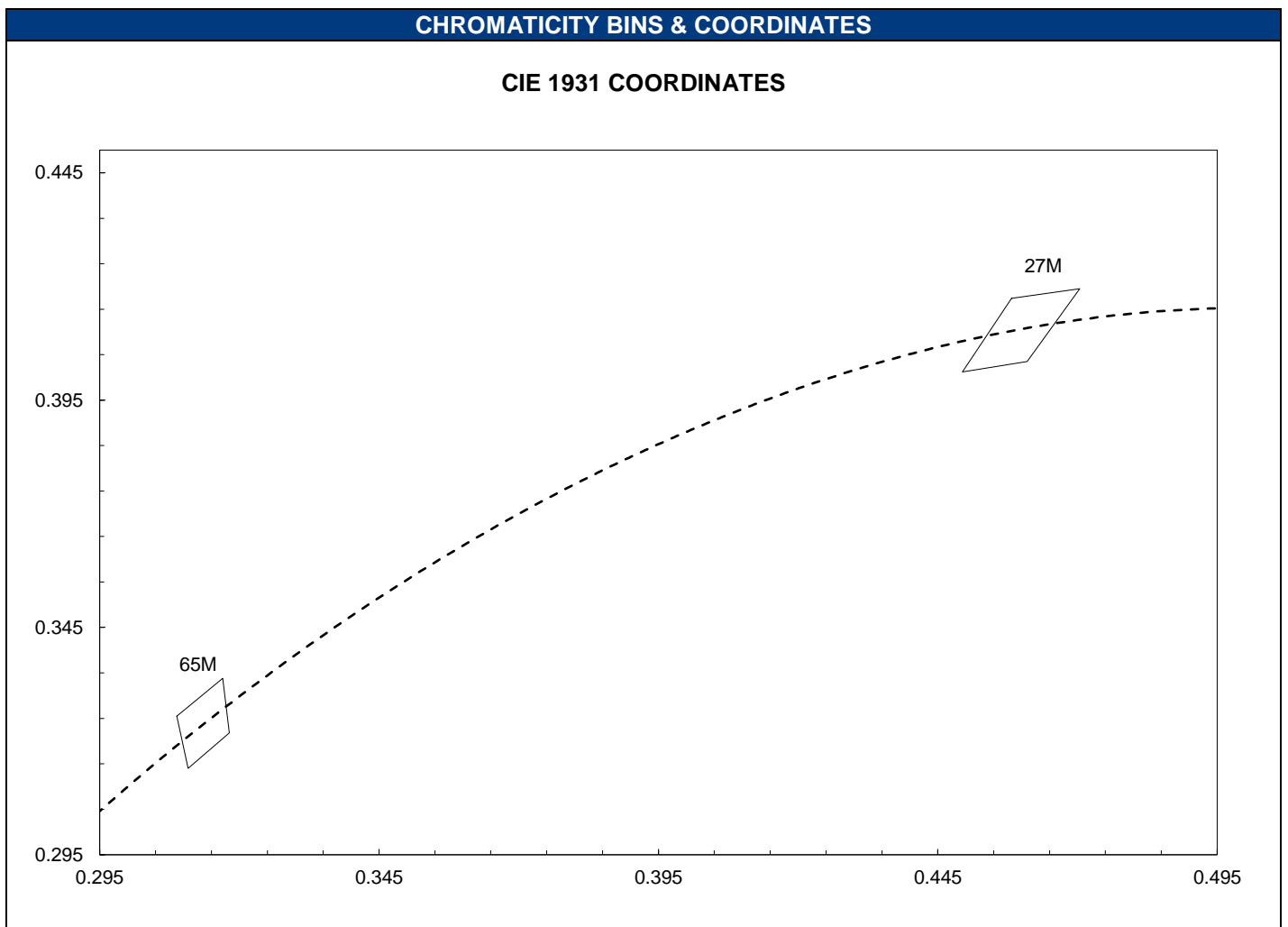




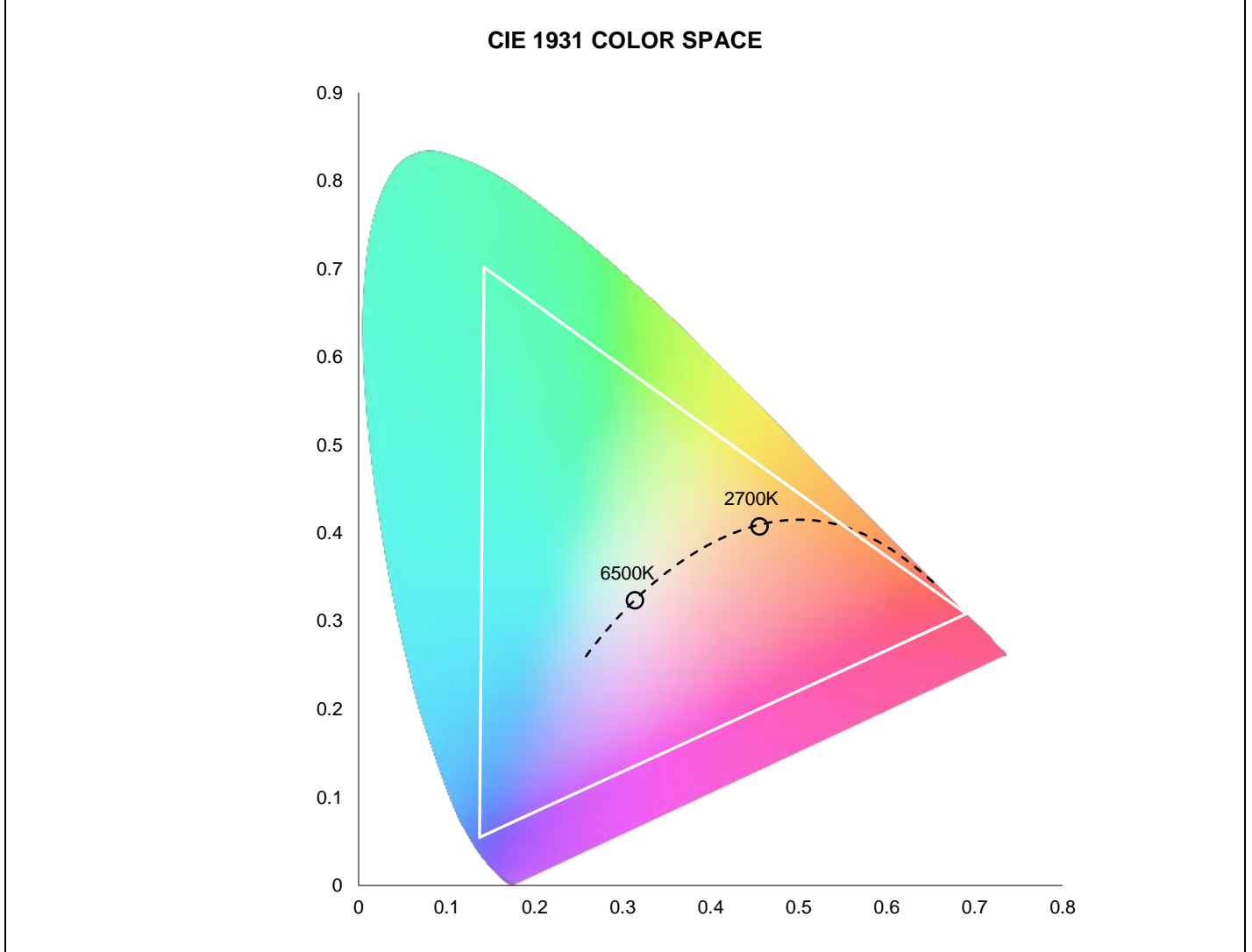
YJ-BC-HRB-RGBWW5050-24V-G03

High CRI LED Flex Strip

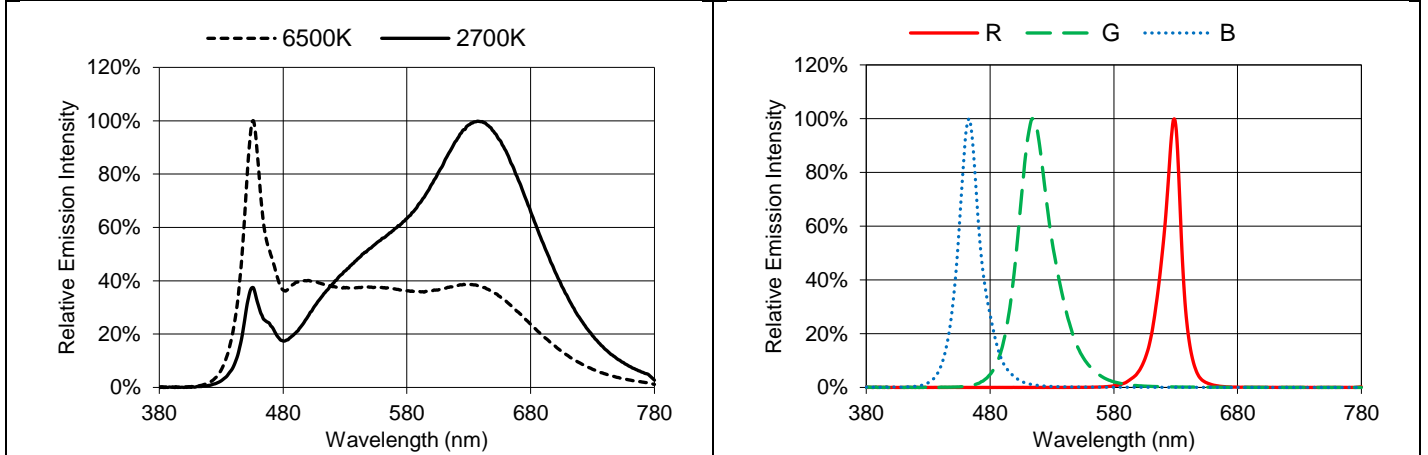
CHROMATICITY BINS & COORDINATES									
CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
6500K	65M	0.3088	0.3255	0.3108	0.3140	0.3182	0.3218	0.3170	0.3338
2700K	27M	0.4582	0.4174	0.4494	0.4012	0.4610	0.4035	0.4704	0.4195



TYPICAL COLOR GAMUT & WHITE POINTS



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.