

YJ-BC-HRB-RGBWW5050-12V-G03

HIGH CRI LED FLEXI STRIP



High CRI LED Flexi Strip - Hybrid Colour
Full Colour Gamut

FEATURES

- 12mm width flexible PCB with adhesive backing
- 5m length per roll
- 95 CRI, 2700K / 6500K
- R / G / B
- 12V constant voltage compatible
- Cuttable every 3 LEDs (50mm)



DESCRIPTION

YUJILEDSD® 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	2700K	–	7.2	8	W	–	Vf=12V
	6500K	–	7.2	8			
	R	–	4.8	5.3			
	G	–	4.8	5.3			
	B	–	4.8	5.3			
Luminous flux per metre	2700K	–	460	–	lm	–	Vf=12V
	6500K	–	500	–			
	R	–	160	–			
	G	–	280	–			
	B	–	65	–			
Dominant wavelength	R	619	–	624	nm	±1	Vf=12V
	G	518	–	523			
	B	465	–	470			
Correlated colour temperature	CCT 2700K	2625	2700	2775	K	–	Vf=12V
	CCT 6500K	6250	6500	6750			
Colour rendering index (2700K / 6500K)	Ra	95	–	–	–	–	Vf=12V
TCS R9 (CRI Red) (2700K / 6500K)	R9	80	90	–	–	–	Vf=12V
Viewing angle	2θ1/2	–	120	–	Deg	±5	Vf=12V

ORDERING INFORMATION

Part Number	CCT	Chromaticity Bins
YJ-BC-HRB-RGBWW5050-12V-G03-2765	2700K ± 75K	27M
	6500K ± 250K	65M
YJ-BC-HRB-RGBWW5050-12V-G03-XXXX	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.

To order please contact us on +44 (0) 1229 582 430
F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
in company/marl-international-limited



YJ-BC-HRB-RGBWW5050-12V-G03

HIGH CRI LED FLEXI STRIP

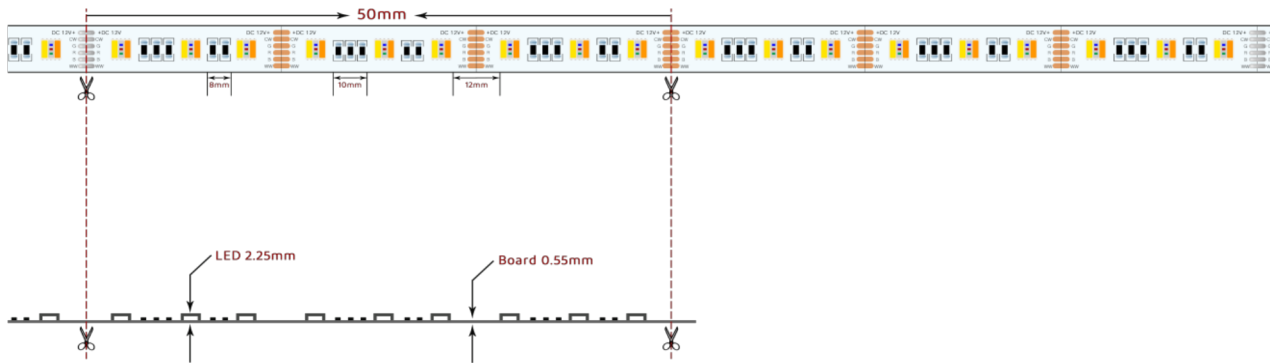


ABSOLUTE MAXIMUM RATING (TA = 25 °C)

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

* This data is for reference only

DIMENSIONAL DRAWING



ADDITIONAL NOTES

SELECTING A POWER SUPPLY

The wattage/ampere 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 ampere 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 18 W / metre = 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.

To order please contact us on +44 (0) 1229 582 430
 F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
 in company/marl-international-limited



YJ-BC-HRB-RGBWW5050-12V-G03

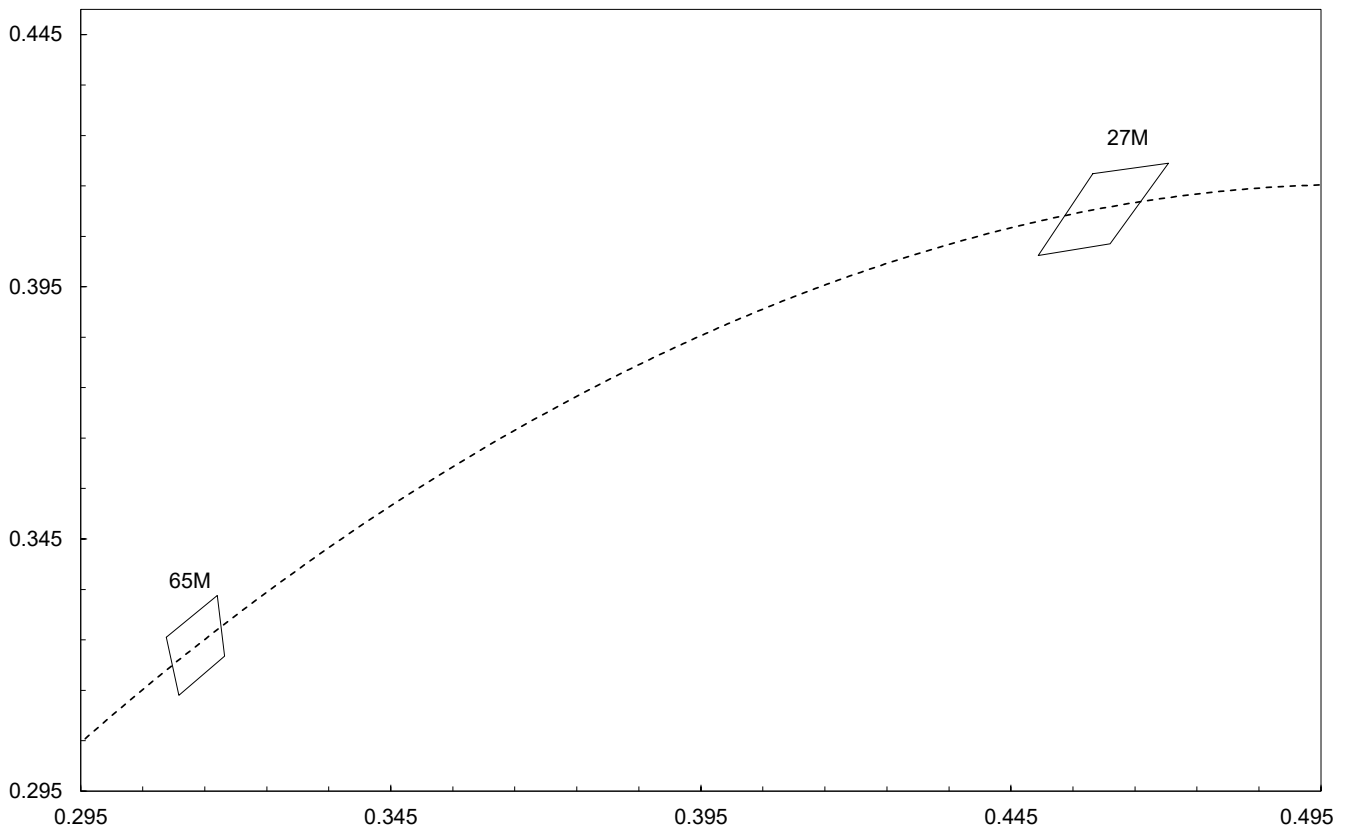
HIGH CRI LED FLEXI STRIP



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

CIE 1931 COORDINATES



To order please contact us on +44 (0) 1229 582 430
 F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
 in company.marl-international-limited

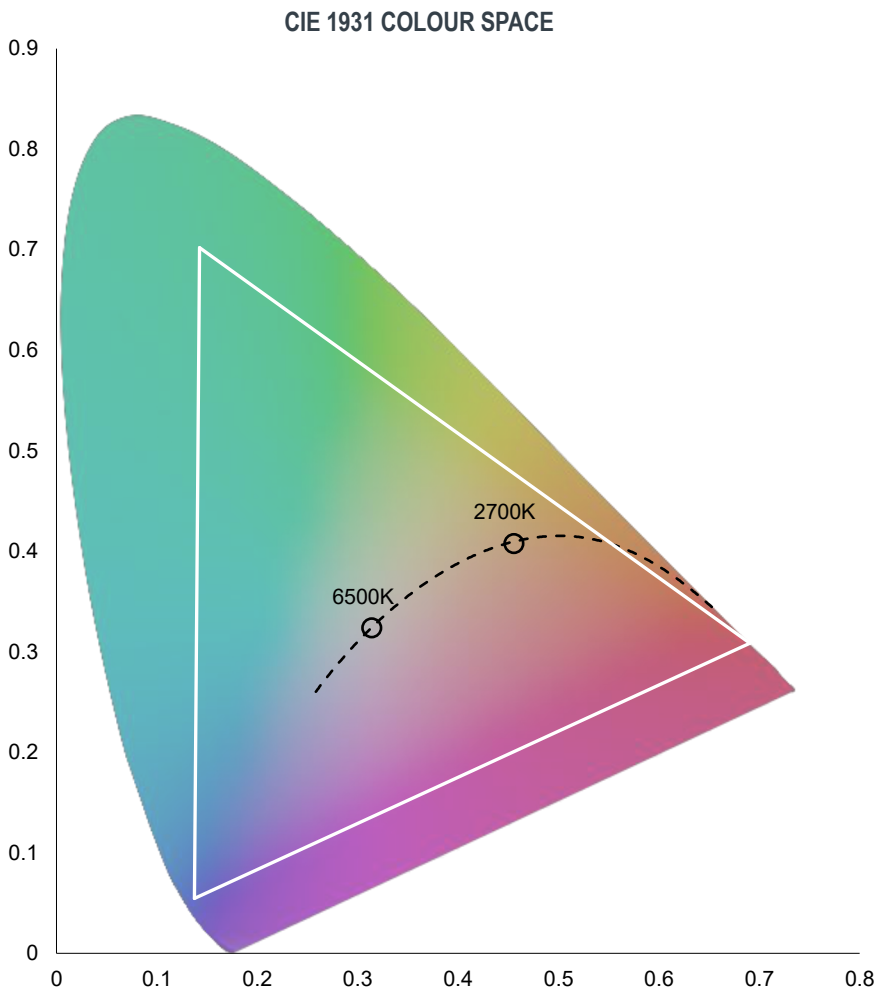


YJ-BC-HRB-RGBWW5050-12V-G03

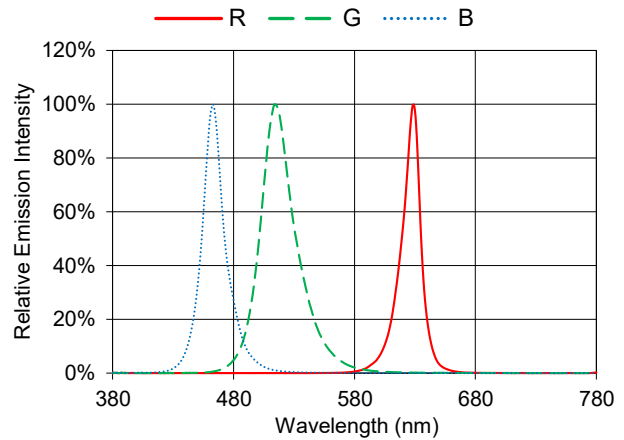
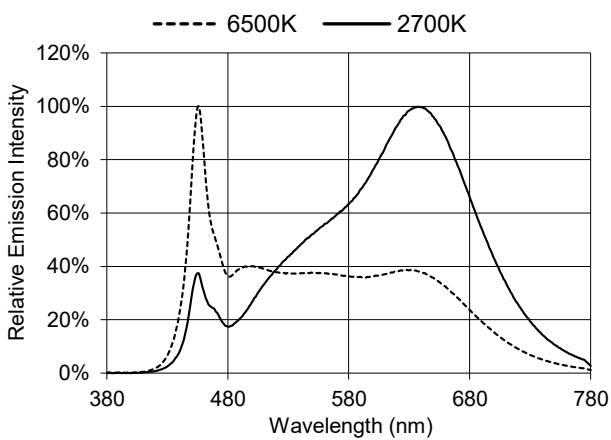
HIGH CRI LED FLEXI STRIP



TYPICAL COLOUR GAMUT & WHITE POINTS



TYPICAL SPECTRAL DISTRIBUTION GRAPHS



To order please contact us on +44 (0) 1229 582 430
 F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
 in company/marl-international-limited



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

HIGH CRI LED FLEXI STRIP



High CRI LED Flexi Strip - Hybrid Colour
Full Colour Gamut



FEATURES

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



DESCRIPTION

YUJILEDSD® 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	2700K	–	7.2	8	W	–	Vf=24V
	6500K	–	7.2	8			
	R	–	4.8	5.3			
	G	–	4.8	5.3			
Luminous flux per metre	2700K	–	430	–	lm	–	Vf=24V
	6500K	–	500	–			
	R	–	120	–			
	G	–	250	–			
Dominant wavelength	R	619	–	624	nm	±1	Vf=24V
	G	518	–	523			
	B	465	–	470			
Correlated colour temperature	CCT 2700K	2625	2700	2775	K	–	Vf=24V
	CCT 6500K	6250	6500	6750			
Colour rendering index (2700K / 6500K)	Ra	95	–	–	–	–	Vf=24V
TCS R9 (CRI Red) (2700K / 6500K)	R9	80	90	–	–	–	Vf=24V
Viewing angle	2θ1/2	–	120	–	Deg	±5	Vf=24V

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	

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.

To order please contact us on +44 (0) 1229 582 430
F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
in company/marl-international-limited



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

HIGH CRI LED FLEXI STRIP

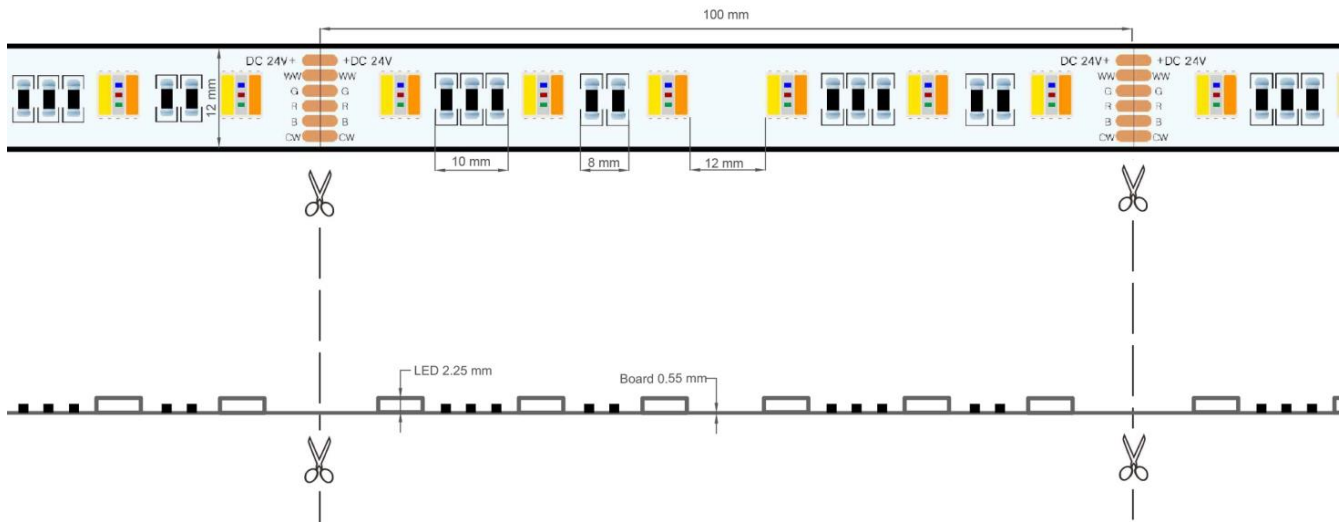


ABSOLUTE MAXIMUM RATING (TA = 25 °C)

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

* This data is for reference only

DIMENSIONAL DRAWING



ADDITIONAL NOTES

SELECTING A POWER SUPPLY

The wattage/ampere 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 ampere 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 18 W / metre = 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.

To order please contact us on +44 (0) 1229 582 430
 F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
 in company/marl-international-limited



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

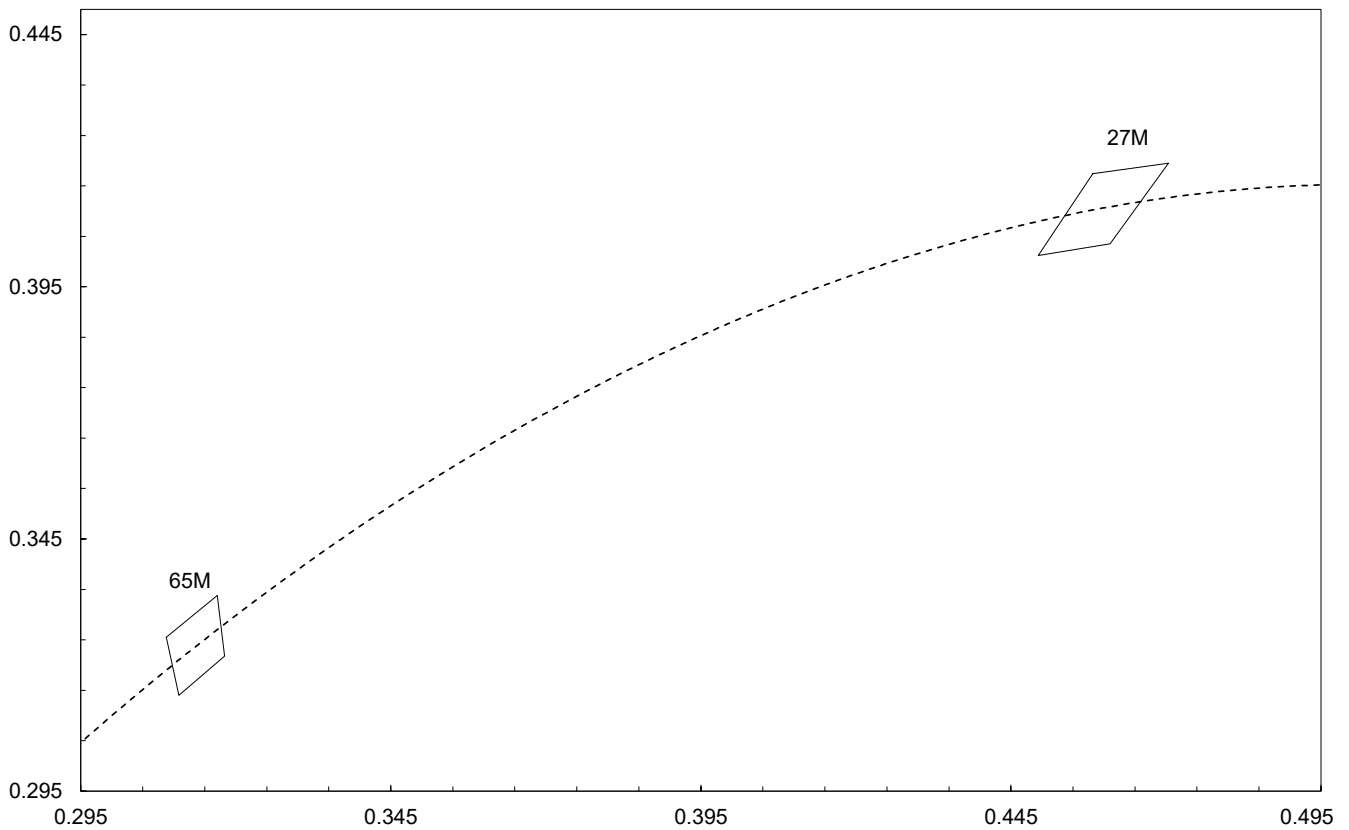
HIGH CRI LED FLEXI STRIP



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

CIE 1931 COORDINATES



To order please contact us on +44 (0) 1229 582 430
 F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
 in company.marl-international-limited

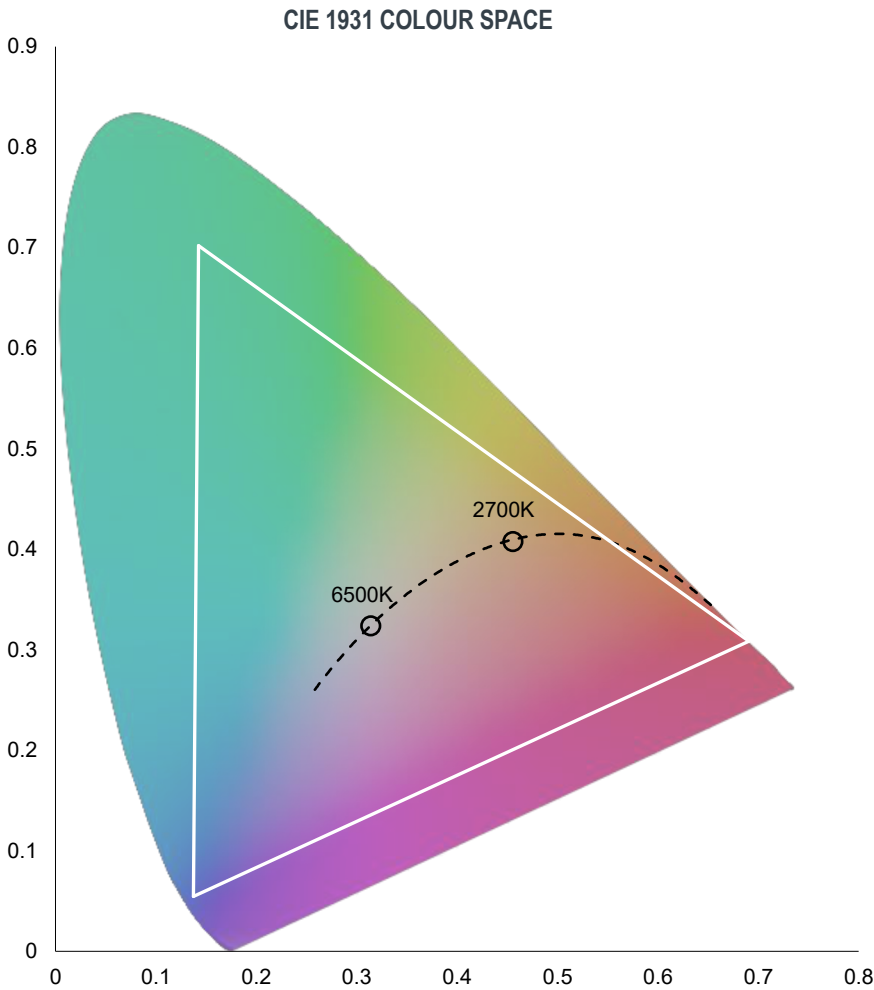


YJ-BC-HRB-RGBWW5050-24V-G03

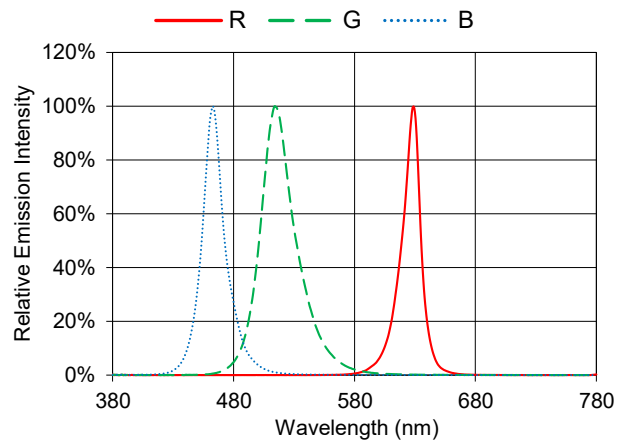
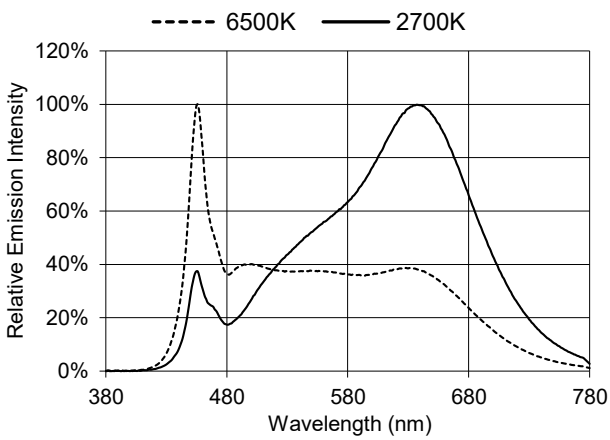
HIGH CRI LED FLEXI STRIP



TYPICAL COLOUR GAMUT & WHITE POINTS



TYPICAL SPECTRAL DISTRIBUTION GRAPHS



To order please contact us on +44 (0) 1229 582 430
 F +44 (0) 1229 585 155 | E sales@marl.co.uk | www.leds.co.uk
 in company/marl-international-limited

