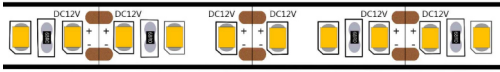


YJ-BC-RB-2835L-12V-G02

HIGH CRI LED FLEXI STRIP

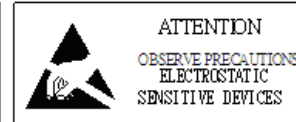


HIGH CRI LED FLEX STRIP
2835L 12V



FEATURES

- 10mm width flexible PCB with adhesive backing
- 5m length per roll
- 95 CRI, 2700K / 3200K / 4000K / 5000K / 5600K / 6500K
- 15W/m (4.6W/ft)
- 12V constant voltage compatible
- Cuttable every 3 LEDs (25mm)



DESCRIPTION

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 *	–	–	15	18	W	–	Vf=12V
Forward current per metre	If	–	1.25	1.5	A	–	Vf=12V
Luminous flux per metre	2700K	–	900	–	lm	–	Vf=12V
	3200K	–	900	–			
	4000K	–	1000	–			
	5000K	–	1000	–			
	5600K	–	1300	–			
Correlated colour temperature	6500K	–	1300	–	K	–	Vf=12V
	CCT 2700K	2625±75	2700	2775±75			
	CCT 3200K	3125±75	3200	3275±75			
	CCT 4000K	3900±100	4000	4100±100			
	CCT 5000K	4850±150	5000	5150±150			
CCT 5600K	5450±150	5600	5750±150	K	–	Vf=12V	
	CCT 6500K	6250±250	6500				6750±250
Colour rendering index	Ra**	95	–	–	–	–	Vf=12V
TCS R9 (CRI Red)	R9	–	90	–	–	–	Vf=12V
Chromaticity Coordinates	(X,Y)	–	–	–	–	±0.005	–
Viewing angle	2θ1/2	–	120	–	Deg	±5	Vf=12V

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. Due to electrical resistance, power draw per metre decreases approximately by 0.05A for each additional metre increase per segment.

**Ra minimum 93 at 6500K.

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-RB-2835L-12V-G02

HIGH CRI LED FLEXI STRIP



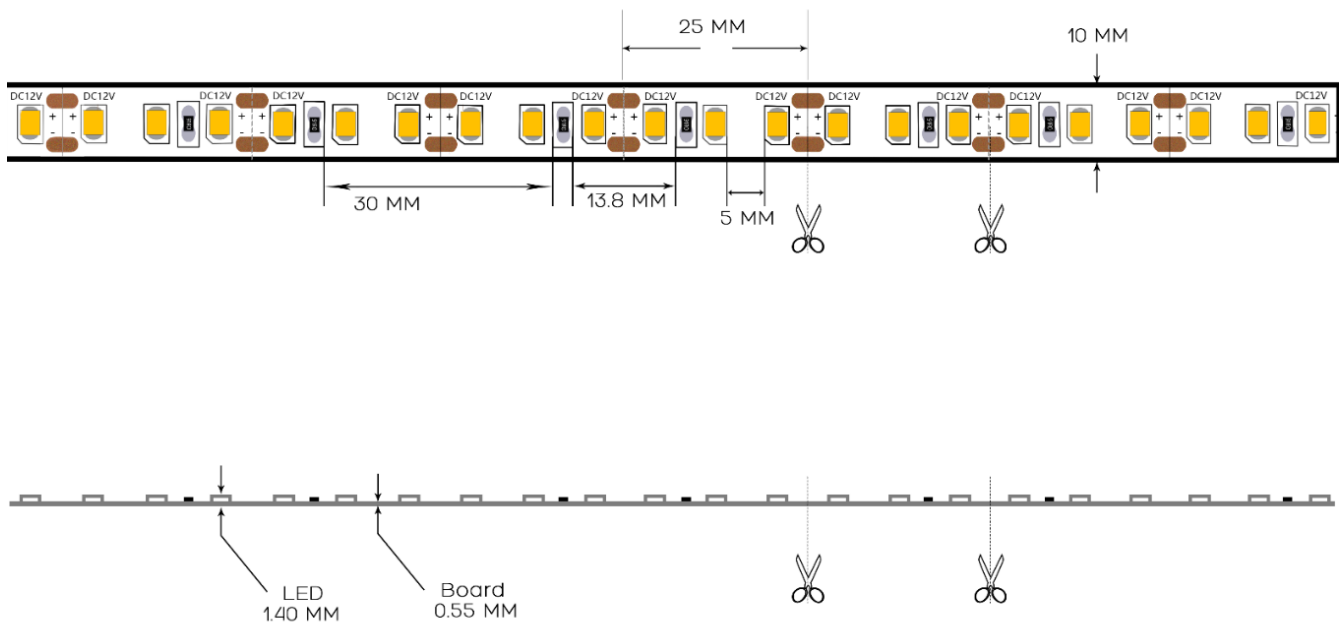
ORDERING INFORMATION

Part Number	CCT	Chromaticity Bins
YJ-BC-RB-2835L-12V-G02-27	2700K ± 150K	27L, 27R
YJ-BC-RB-2835L-12V-G02-32	3200K ± 150K	32L, 32R
YJ-BC-RB-2835L-12V-G02-40	4000K ± 200K	40L, 40R
YJ-BC-RB-2835L-12V-G02-50	5000K ± 300K	50L, 50R
YJ-BC-RB-2835L-12V-G02-56	5600K ± 300K	56L, 56R
YJ-BC-RB-2835L-12V-G02-65	6500K ± 500K	65L, 65R
YJ-BC-RB-2835L-12V-G02-XX	CUSTOM	

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 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 (60W + 25% x 60W).

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.

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-RB-2835L-12V-G02

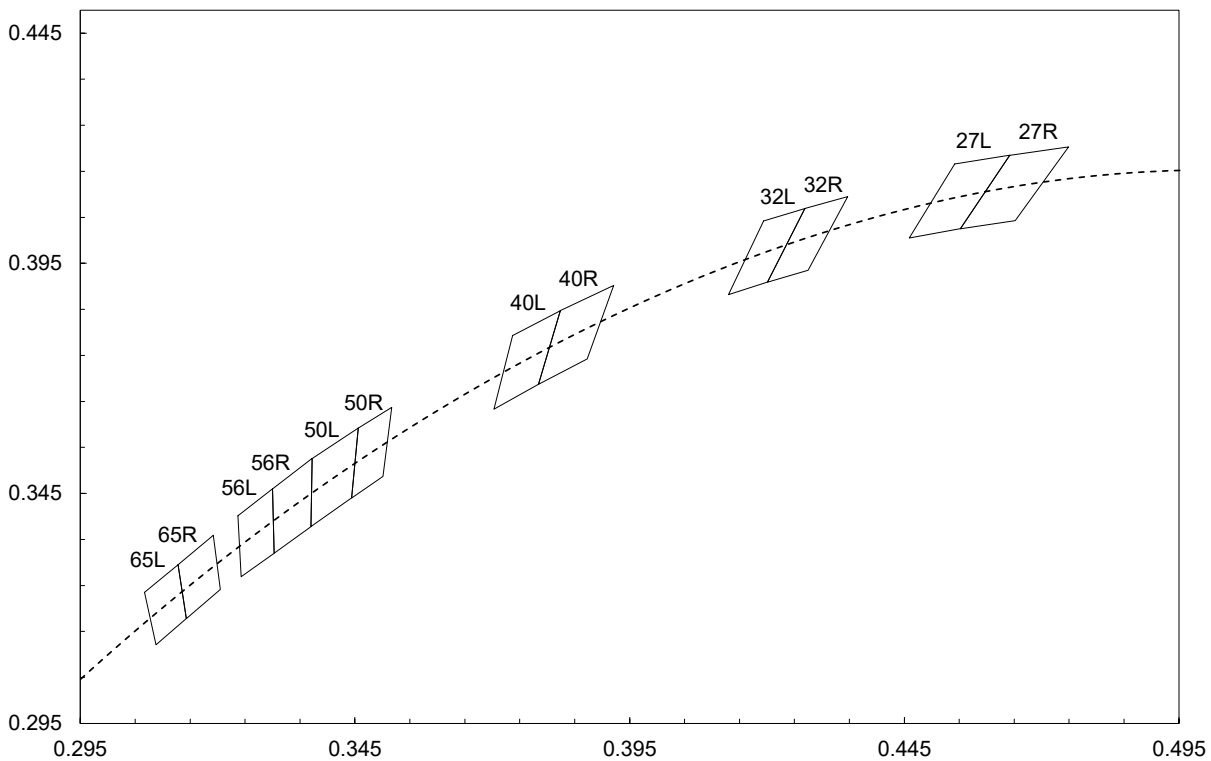
HIGH CRI LED FLEXI STRIP



CHROMATICITY BINS & COORDINATES

CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
6500K	65L	0.3067	0.3235	0.3088	0.3121	0.3143	0.3178	0.3128	0.3295
	65R	0.3128	0.3295	0.3143	0.3178	0.3205	0.3241	0.3192	0.3359
5600K	56L	0.3237	0.3401	0.3243	0.3269	0.3303	0.3320	0.3300	0.3460
	56R	0.3300	0.3460	0.3303	0.3320	0.3370	0.3378	0.3372	0.3526
5000K	50L	0.3372	0.3526	0.3370	0.3378	0.3444	0.3440	0.3456	0.3592
	50R	0.3456	0.3592	0.3444	0.3440	0.3501	0.3487	0.3517	0.3637
4000K	40L	0.3737	0.3793	0.3703	0.3633	0.3784	0.3687	0.3824	0.3847
	40R	0.3824	0.3847	0.3784	0.3687	0.3873	0.3742	0.3921	0.3902
3200K	32L	0.4194	0.4042	0.4130	0.3882	0.4201	0.3909	0.4269	0.4069
	32R	0.4269	0.4069	0.4201	0.3909	0.4275	0.3935	0.4347	0.4095
2700K	27L	0.4542	0.4166	0.4459	0.4005	0.4552	0.4025	0.4642	0.4185
	27R	0.4642	0.4185	0.4552	0.4025	0.4652	0.4043	0.4749	0.4203

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



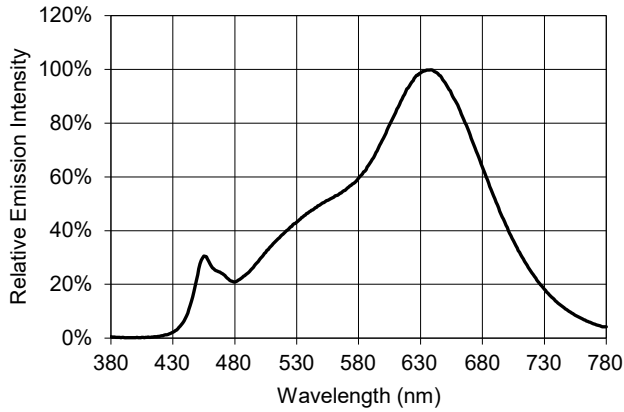
YJ-BC-RB-2835L-12V-G02

HIGH CRI LED FLEXI STRIP

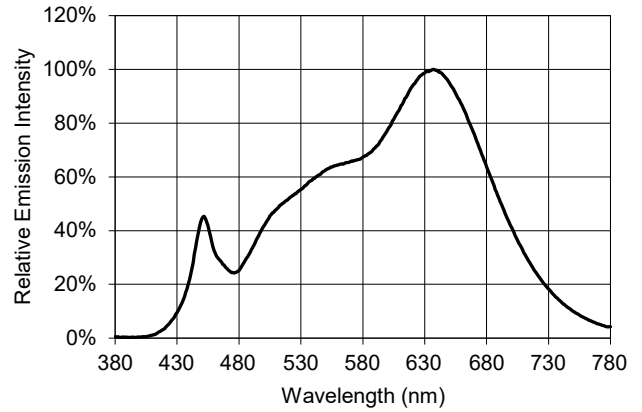


TYPICAL SPECTRAL DISTRIBUTION GRAPHS

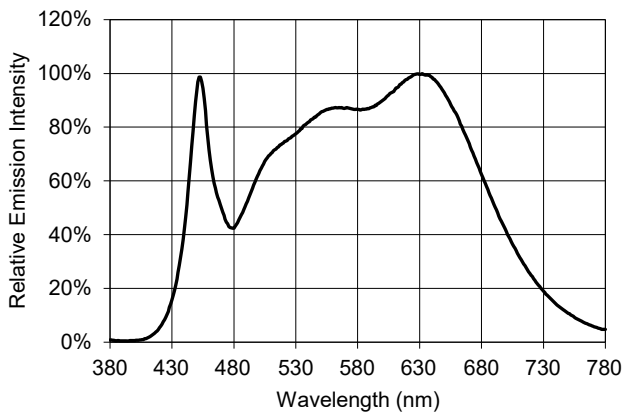
2700K



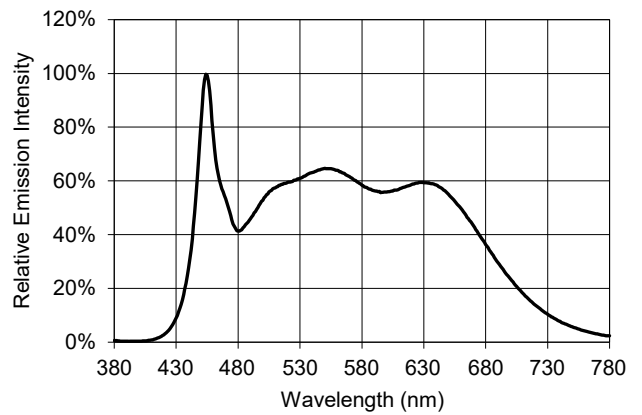
3200K



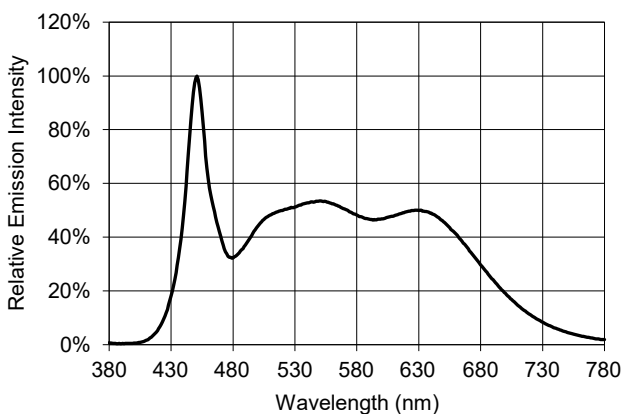
4000K



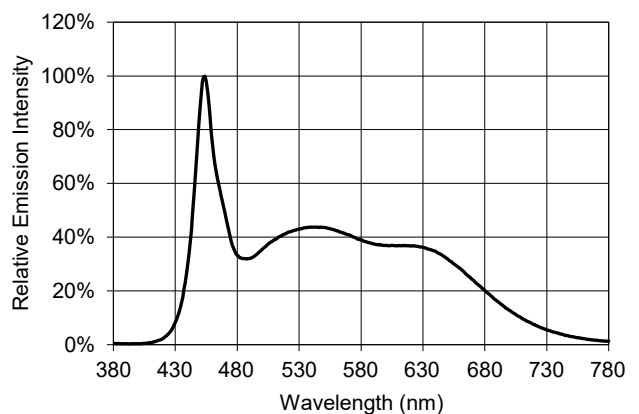
5000K



5600K



6500K



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-RB-2835L-24V-G02

HIGH CRI LED FLEXI STRIP

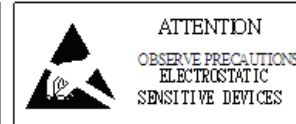


HIGH CRI LED FLEX STRIP
2835L 24V



FEATURES

- 10mm width flexible PCB with adhesive backing
- 5m length per roll
- 95 CRI, 2700K / 3200K / 4000K / 5000K / 5600K / 6500K
- 15W/m (4.6W/ft)
- 24V constant voltage compatible
- Cuttable every 6 LEDs (50mm)



DESCRIPTION

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 *	–	–	15	18	W	–	Vf=24V
Forward current per metre	If	–	0.65	0.75	A	–	Vf=24V
Luminous flux per metre	2700K	–	900	–	lm	–	Vf=24V
	3200K	–	900	–			
	4000K	–	1000	–			
	5000K	–	1000	–			
	5600K	–	1300	–			
Correlated colour temperature	6500K	–	1300	–	K	–	Vf=24V
	CCT 2700K	2625±75	2700	2775±75			
	CCT 3200K	3125±75	3200	3275±75			
	CCT 4000K	3900±100	4000	4100±100			
	CCT 5000K	4850±150	5000	5150±150			
CCT 5600K	5450±150	5600	5750±150	K	–	Vf=24V	
	CCT 6500K	6250±250	6500				6750±250
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

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.

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-RB-2835L-24V-G02

HIGH CRI LED FLEXI STRIP



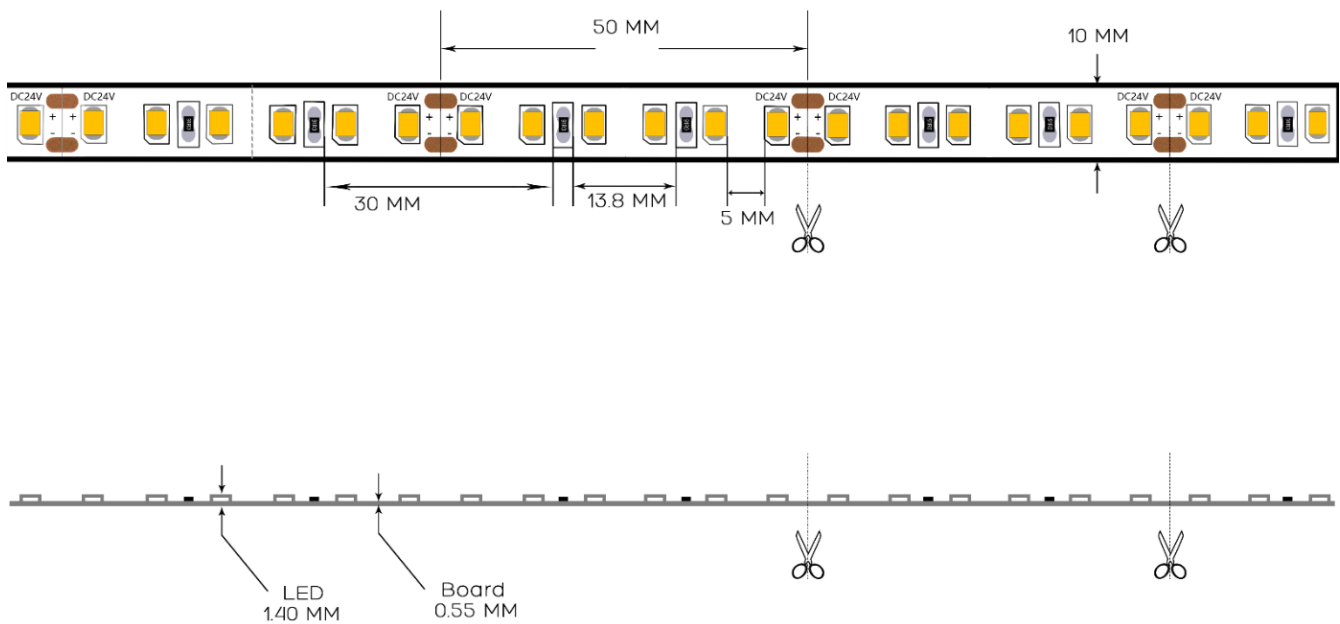
ORDERING INFORMATION

Part Number	CCT	Chromaticity Bins
YJ-BC-RB-2835L-24V-G02-27	2700K ± 150K	27L, 27R
YJ-BC-RB-2835L-24V-G02-32	3200K ± 150K	32L, 32R
YJ-BC-RB-2835L-24V-G02-40	4000K ± 200K	40L, 40R
YJ-BC-RB-2835L-24V-G02-50	5000K ± 300K	50L, 50R
YJ-BC-RB-2835L-24V-G02-56	5600K ± 300K	56L, 56R
YJ-BC-RB-2835L-24V-G02-65	6500K ± 500K	65L, 65R
YJ-BC-RB-2835L-24V-G02-XX	CUSTOM	

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 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 (60W + 25% x 60W).

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.

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-RB-2835L-24V-G02

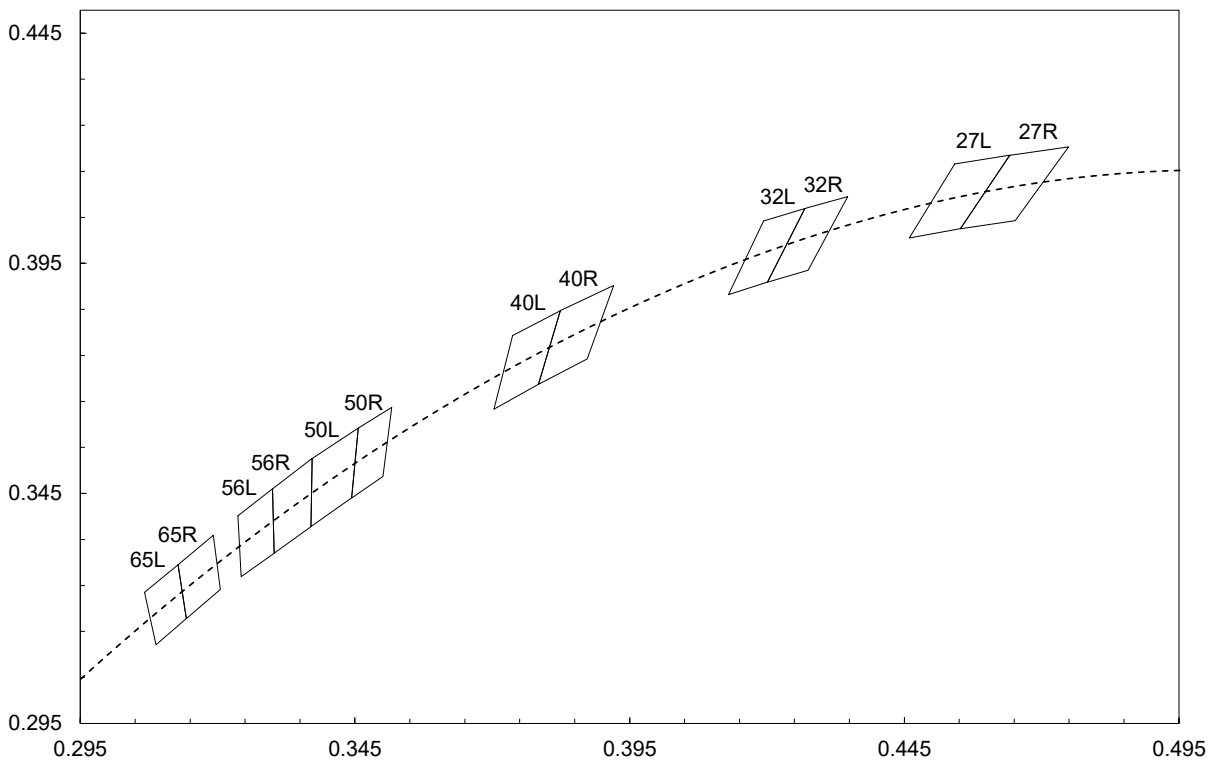
HIGH CRI LED FLEXI STRIP



CHROMATICITY BINS & COORDINATES

CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
6500K	65L	0.3067	0.3235	0.3088	0.3121	0.3143	0.3178	0.3128	0.3295
	65R	0.3128	0.3295	0.3143	0.3178	0.3205	0.3241	0.3192	0.3359
5600K	56L	0.3237	0.3401	0.3243	0.3269	0.3303	0.3320	0.3300	0.3460
	56R	0.3300	0.3460	0.3303	0.3320	0.3370	0.3378	0.3372	0.3526
5000K	50L	0.3372	0.3526	0.3370	0.3378	0.3444	0.3440	0.3456	0.3592
	50R	0.3456	0.3592	0.3444	0.3440	0.3501	0.3487	0.3517	0.3637
4000K	40L	0.3737	0.3793	0.3703	0.3633	0.3784	0.3687	0.3824	0.3847
	40R	0.3824	0.3847	0.3784	0.3687	0.3873	0.3742	0.3921	0.3902
3200K	32L	0.4194	0.4042	0.4130	0.3882	0.4201	0.3909	0.4269	0.4069
	32R	0.4269	0.4069	0.4201	0.3909	0.4275	0.3935	0.4347	0.4095
2700K	27L	0.4542	0.4166	0.4459	0.4005	0.4552	0.4025	0.4642	0.4185
	27R	0.4642	0.4185	0.4552	0.4025	0.4652	0.4043	0.4749	0.4203

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



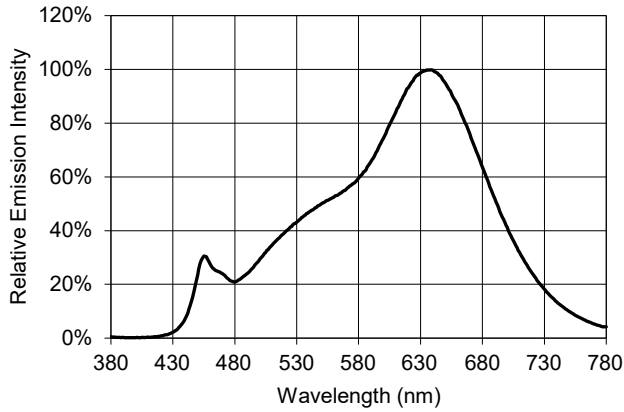
YJ-BC-RB-2835L-24V-G02

HIGH CRI LED FLEXI STRIP

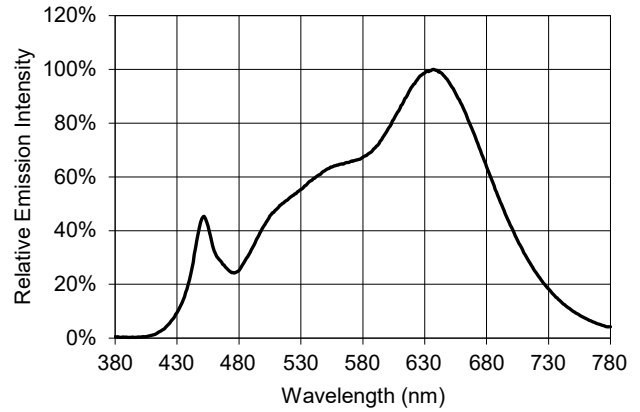


TYPICAL SPECTRAL DISTRIBUTION GRAPHS

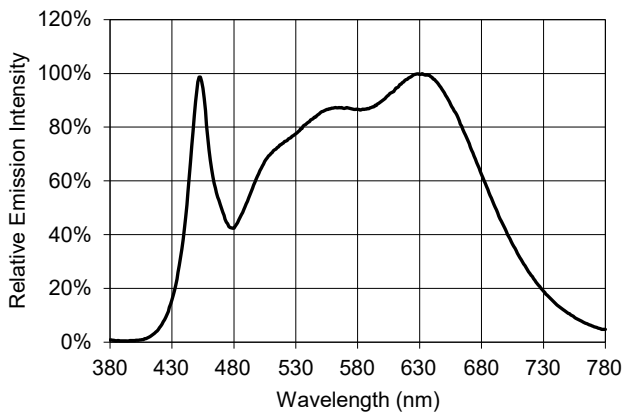
2700K



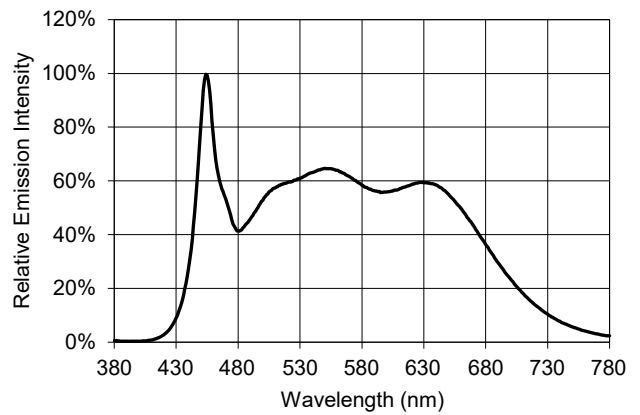
3200K



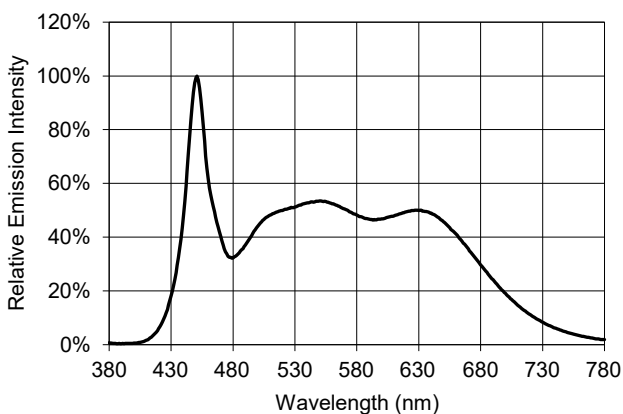
4000K



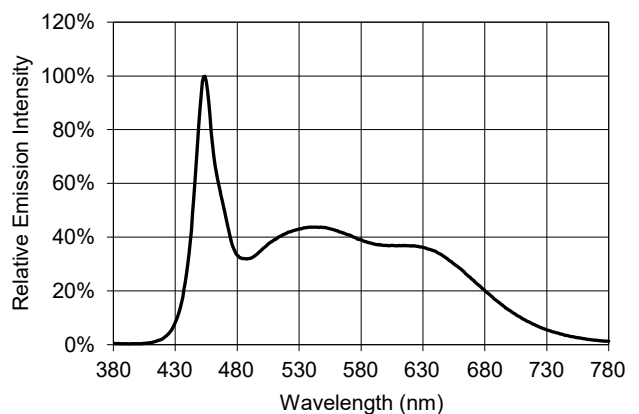
5000K



5600K



6500K



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

