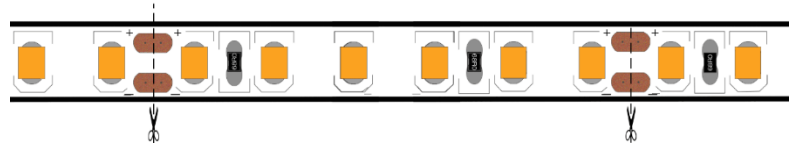
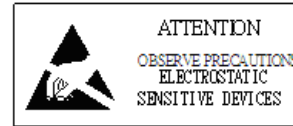


PRODUCT:
HIGH CRI LED FLEX STRIP CL-2835L 24V



FEATURES:
 10 mm width flexible PCB with adhesive backing
 5 meter length
 95 CRI, 2400K/2700K/3200K/3500K/4000K
 15 W / meter (4.6 W / foot)
 24V constant voltage compatible
 50K hour lifetime
 Cuttable every 6 LEDs (50 mm)



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 (T _c = 25 °C)							
PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Power per meter*	--	--	15	18	W	--	V _f = 24V
Forward Current per meter	I _f	--	0.65	0.75	A	--	V _f = 24V
		--					
Luminous flux per meter	Φ _{2400K}	800	--	850	lm	--	V _f = 24V
	Φ _{2700K}	850		950			
	Φ _{3200K}	900		1000			
	Φ _{3500K}	900		1000			
	Φ _{4000K}	950		1050			
Color temperature	CCT _{2400K}	2300	2400	2500	K	--	V _f = 24V
	CCT _{2700K}	2550	2700	2850			
	CCT _{3200K}	3050	3200	3350			
	CCT _{3500K}	3350	3500	3650			
	CCT _{4000K}	3800	4000	4200			
Color rendering index	R _a	95	--	--	--	--	V _f = 24V
TCS R9 (CRI Red)	R ₉	--	70	--	--	--	V _f = 24V
Chromaticity coordinates	(X,Y)	--	--	--	--	±0.005	--
Viewing angle	2θ _{1/2}	--	120	--	Deg	±5	V _f = 24V

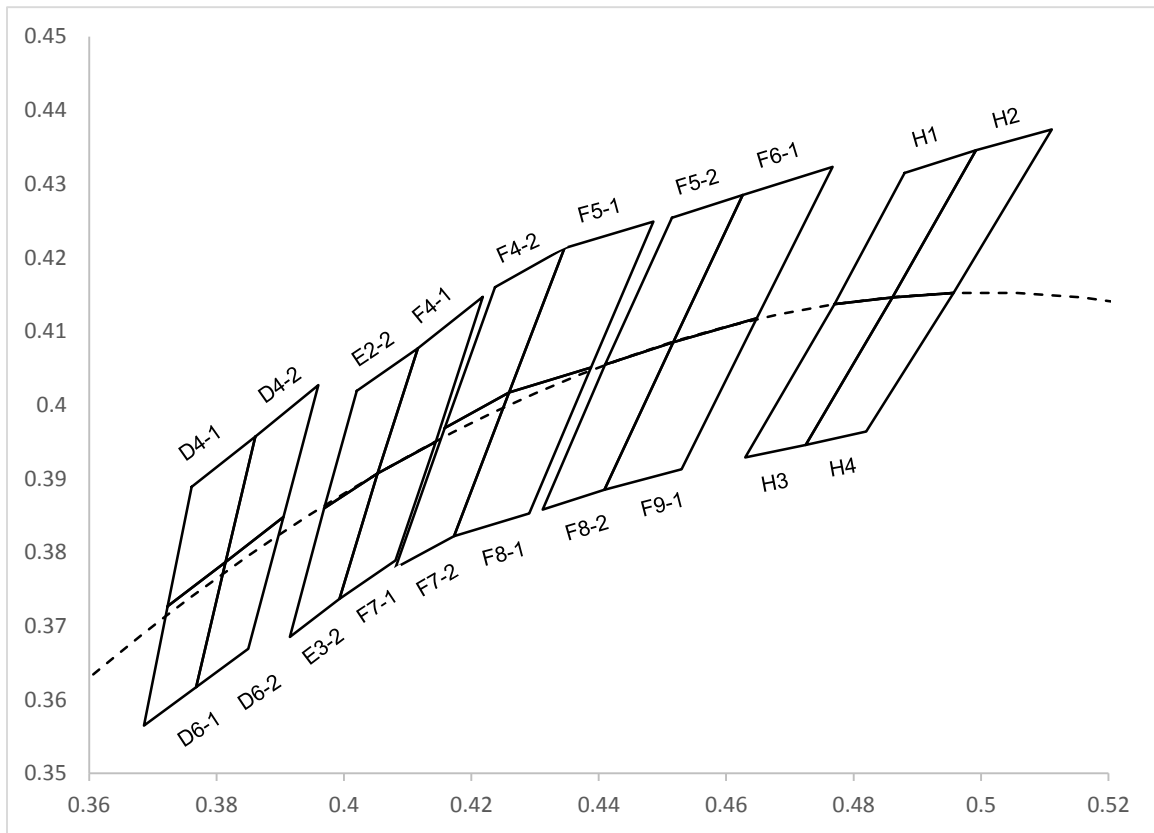
*Unless otherwise noted, specifications are based on a 1 meter segment. Due to electrical resistance, power draw per meter decreases approximately by 0.05A for each additional meter increase per segment.

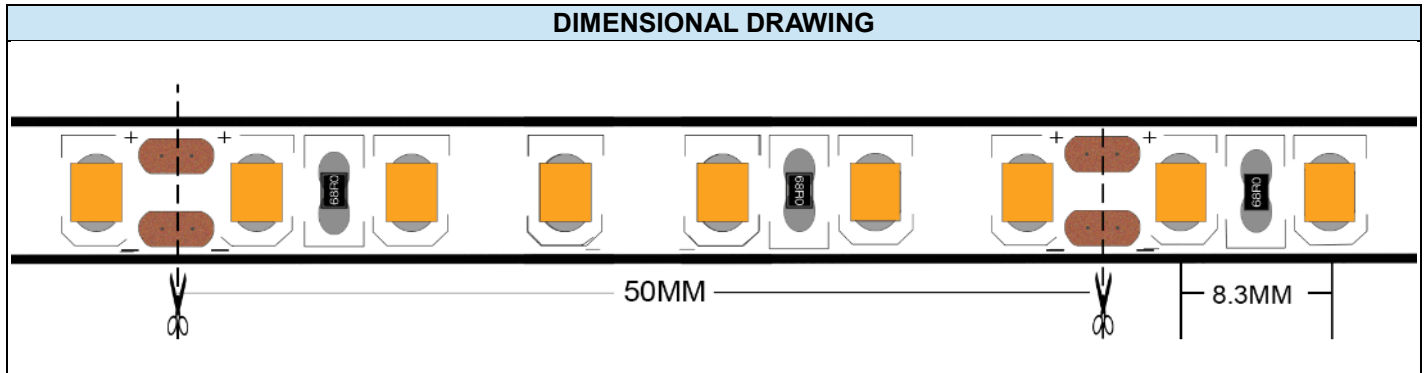
ORDERING INFORMATION				
PRODUCT	LED TYPE	VOLTAGE	CCT	DENSITY
RB - Flex Strip	BC-2835L	24V	24 – 2400K 27 – 2700K 32 – 3200K 35 – 3500K 40 – 4000K	120 – 120 LED/M
E.G. CL-RB-2835L-24V-27-120				

CHROMATICITY BINS & COORDINATES									
CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
4000K	D4-1	0.3761	0.3889	0.3723	0.3727	0.3814	0.3787	0.3861	0.3957
	D4-2	0.3861	0.3957	0.3814	0.3787	0.3905	0.3848	0.3960	0.4027
	D6-1	0.3723	0.3727	0.3686	0.3565	0.3768	0.3617	0.3814	0.3787
	D6-2	0.3814	0.3787	0.3768	0.3617	0.3850	0.3669	0.3905	0.3848
3500K	E2-2	0.4020	0.4019	0.3969	0.3860	0.4053	0.3907	0.4116	0.4077
	F4-1	0.4116	0.4077	0.4053	0.3907	0.4144	0.3950	0.4218	0.4147
	E3-2	0.3969	0.3860	0.3915	0.3685	0.3993	0.3737	0.4053	0.3907
	F7-1	0.4053	0.3907	0.3993	0.3737	0.4081	0.3789	0.4144	0.3950
3200K	F4-2	0.4237	0.4160	0.4158	0.3969	0.4259	0.4017	0.4346	0.4213
	F7-2	0.4158	0.3969	0.4081	0.3779	0.4173	0.3822	0.4259	0.4017
	F5-1	0.4346	0.4213	0.4259	0.4017	0.4388	0.4051	0.4486	0.4249
	F8-1	0.4259	0.4017	0.4173	0.3822	0.4291	0.3853	0.4388	0.4051
2700K	F6-1	0.4626	0.4285	0.4517	0.4085	0.4648	0.4118	0.4767	0.4323
	F9-1	0.4517	0.4085	0.4409	0.3885	0.4530	0.3913	0.4648	0.4118
	F5-2	0.4515	0.4254	0.4410	0.4055	0.4517	0.4085	0.4626	0.4285
	F8-2	0.4410	0.4055	0.4312	0.3858	0.4409	0.3885	0.4517	0.4085
2400K	H1	0.4880	0.4315	0.4770	0.4137	0.4861	0.4146	0.4992	0.4346
	H2	0.4992	0.4346	0.4861	0.4146	0.4957	0.4152	0.5111	0.4374
	H3	0.4770	0.4137	0.4630	0.3929	0.4725	0.3946	0.4861	0.4146
	H4	0.4861	0.4146	0.4725	0.3946	0.482	0.3964	0.4957	0.4152

CHROMATICITY BINS & COORDINATES

CIE 1931 COORDINATES





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 (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 $T_a = 25^\circ\text{C}$ shows LED solder point temperatures stabilizing at 68°C. Maximum allowed LED solder point temperature is 105°C.