

Plus Series

RGB Mixes-Light Series

LED RGB + LED W High Density



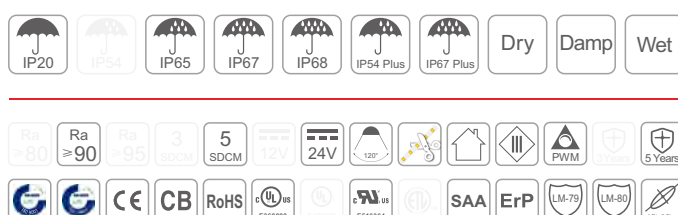
LED Flexible Strip

Features

The CMLP Series is a flexible, efficient, highly customizable RGB+W LED Strip. At 5.5 watts per foot and 220 lumens per foot, the CMLP boasts very high density with 73LED/ft., optimal for achieving dot-free linear performance while affixing into aluminum profile. Universal 0.39in. width with RGB and very high efficacy white LED. Color mixing effect is comparable to the 4in1 LED with two LEDs mounted closely. The DTWP Series offers maximum customization with multiple channel options and a segment length of 1.97". UL and CE listed with a 5-year warranty.

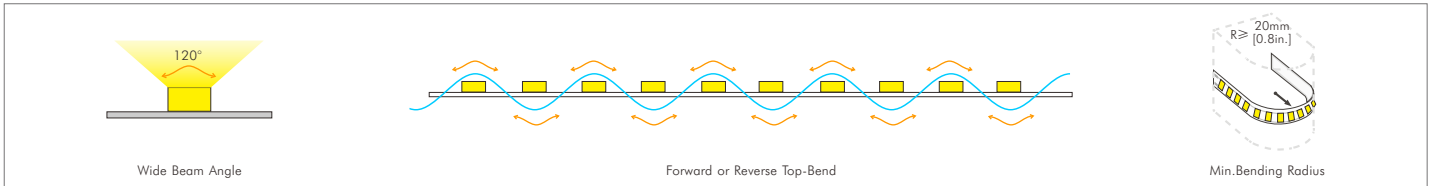
Application

The CMLP is engineered to be indirect decorative lighting for tables, showcases, shelving, cabinetry, corridors, stairways, coves, ceilings, and suitable for countless other applications.

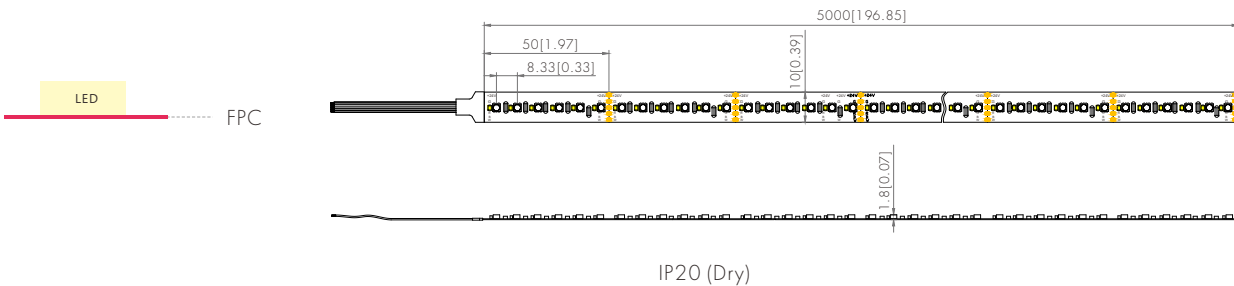


LED Flexible Strip

Diagram & Dimension



Unit: mm[in.]



Specification

Part No.	Dimension (L*W*H)	IP Rating	Lumen Flux±10% @Red	Lumen Flux±10% @Green	Lumen Flux±10% @Blue	Lumen Flux±10% @White&CRI90&4000K	Light Efficiency @White&CRI90&4000K
CMLP-9688S	5000*10*1.8mm [197*0.39*0.07in.]	IP20 [dry]	100lm/M [31lm/ft.]	390lm/M [119lm/ft.]	75lm/M [23lm/ft.]	720lm/M [220lm/ft.]	120lm/W
CMLP-9688S	5000*10*2.3mm [197*0.39*0.09in.]	IP54 Thin [Damp]	100*90%lm/M [31*90%lm/ft.]	390*90%lm/M [119*90%lm/ft.]	75*90%lm/M [23*90%lm/ft.]	720*90%lm/M [220*90%lm/ft.]	120*90%lm/W
CMLP-9688S	5000*12*4mm [197*0.47*0.16in.]	IP65 [wet]	100*95%lm/M [31*95%lm/ft.]	390*95%lm/M [119*95%lm/ft.]	75*95%lm/M [23*95%lm/ft.]	720*95%lm/M [220*95%lm/ft.]	120*95%lm/W
CMLP-9688S	5000*12*4mm [197*0.47*0.16in.]	IP67 [wet]	100*90%lm/M [31*90%lm/ft.]	390*90%lm/M [119*90%lm/ft.]	75*90%lm/M [23*90%lm/ft.]	720*90%lm/M [220*90%lm/ft.]	120*90%lm/W
CMLP-9688S	5000*12*4mm [197*0.47*0.16in.]	IP68 [wet]	100*90%lm/M [31*90%lm/ft.]	390*90%lm/M [119*90%lm/ft.]	75*90%lm/M [23*90%lm/ft.]	720*90%lm/M [220*90%lm/ft.]	120*90%lm/W
CMLP-9688S	5000*10*5mm [197*0.39*0.2in.]	IP54 Plus [Damp]	100*95%lm/M [31*95%lm/ft.]	390*95%lm/M [119*95%lm/ft.]	75*95%lm/M [23*95%lm/ft.]	720*95%lm/M [220*95%lm/ft.]	120*95%lm/W
CMLP-9688S	5000*12*5mm [197*0.47*0.2in.]	IP67 Plus [wet]	100*95%lm/M [31*95%lm/ft.]	390*95%lm/M [119*95%lm/ft.]	75*95%lm/M [23*95%lm/ft.]	720*95%lm/M [220*95%lm/ft.]	120*95%lm/W

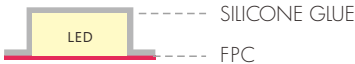
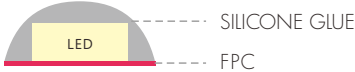
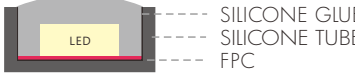
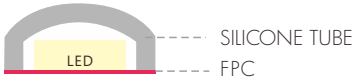
Notice:

- (1) The lumen flux value above is base on 1M[3.28ft.] length, it need to be measured and considered separately for other longer lengths.
- (2) Energy efficiency class of regulation (EU) 2019/2020 is E(CRI90) for 4000K in IP20, it varies depending on CRI, CCT and IP rating.

LED Flexible Strip

IP Rating & Coding



CODE	IP RATING	SKETCH MAP	FEATURE
N	IP20 DC L.V. Series Dry Location		Non-Waterproof
L	IP54 Thin DC L.V. Series Damp Location		Silicone Spraying/Nano Coating Process Anti Splash Water Small Size Change Semi-Seal
C	IP54 DC L.V. Series Damp Location		Silicone Dripping Process Anti Splash Water Small Size Change Semi-Seal
A	IP65 DC L.V. Series Wet Location		Silicone Tube Process Anti Spray Water Tiny Color Shift Full-Seal
B	IP67 DC L.V. Series Wet Location		Silicone Pouring Process Immerse In Water For Short Time (depth ≤ 1 meter & less than 30 minutes) Full-Seal
E	IP68 DC L.V. Series Wet Location		Silicone Injection Process Immerse In Water For Long Time (depth ≤ 1 meter & within the warranty period) Full-Seal
K	IP54 Plus DC L.V. Series Damp Location		Silicone Extrusion Process Anti Splash Water Small Size Change Tiny Color Shift Semi-Seal
H	IP67 Plus Thin DC L.V. Series Wet Location		Silicone Extrusion Process Immerse In Water For Short Time (depth ≤ 1 meter & less than 30 minutes) Small Size Change, Tiny Color Shift Full-Seal
H	IP67 Plus DC L.V. Series Wet Location		Silicone Extrusion Process Immerse In Water For Short Time (depth ≤ 1 meter & less than 30 minutes) Tiny Color Shift Full-Seal

LED Flexible Strip

Ordering Information

MODEL	COLOR	LENGTH	IP	VOLTAGE
CMLP-9688S	RGB+W	16.4	20	24V
	RGB+W	16.4' Reel	54	24 Volt DC
		CU	65	
		Custom Length	67	
			68	
			54P	
			67P	

Accessories

FS-CMLP-9688S-WL Wire lead connector

Recommended Power Supplies

Dimmable with 0-10v, ELV, MLV, TRIAC

Item Number	Description	Max/Min Load	Input Voltage	Output Voltage	Dimmable	Dimensions
PS-TSLC-UNV-24V-30WDHV2	30W	30W / 3W	100-277V AC	24V DC	Yes*	6.49"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-60WDHV2	60W	60W / 6W	100-277V AC	24V DC	Yes*	7.4"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-96WDHV2	96W	96W / 9.6W	100-277V AC	24V DC	Yes*	8.66"L x 3.6"W x 1.61"H
PS-TSLC-UNV-24V-288WDHV2	288W (3 x 96W)	288W / 28.8W	100-277V AC	24V DC	Yes*	11.85"L x 4.25"W x 1.8"H



LED Flexible Strip

Specification

General Parameters		Photoelectric Parameters	
Standard Length	5M [16.4ft.] (power fed on one side)	Power $\pm$ 10%	18W/M [5.5W/ft.] (RGB: 12W/M[3.7W/ft.], W: 6W/M[1.8W/ft.])
Min. Unit & LED QTY	50mm [1.97in.] & 6LEDs	Input Voltage	24VDC
LED Type	SMD2835 3in1 RGB + SMD2216 White	LED Current	RGB: 25mA/LED, W: 12.5mA/LED
LED QTY	240LEDs/M [73LEDs/ft.]	LED CCT & Wavelength	R: 615~625nm, G: 510~525nm, B: 460~470nm W: 2700K&3000K&3500K&4000K&5000K&6500K
PCB Type	3oz white FPC, OSP°C	SDCM	W: ErP & ANSI Norm, 5 step
Operating Ambient	Ta(working): -20~45°C [-4~113°F] & Tstg(storage): -20~60°C [-4~140°F]	CRI	W: Ra $\geq$ 90
Warranty	5 years	Beam Angle	120°
Lifespan	\	Dimming Method	PWM (dimmable driver like RF, Bluetooth, 0/1-10V, Triac, DALI, DMX, WIFI etc.)
Certification	CE, UL, CB, SAA, RoHS, LM80		

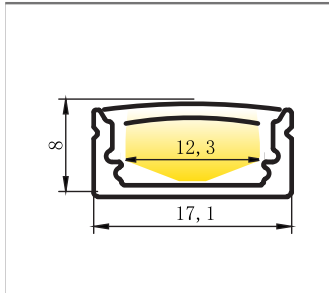
Note:

- 1: Dimension and optical parameters such as lumen flux, CCT, CRI and SDCM. of the waterproof product may vary compared with the IP20 version.
- 2: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6500K is the same, compared with 4000K.
- 3: Transmittance for IP54 Thin/IP54/IP67/IP68, 2700K/3000K is 95%, 3500K/4000K is 90%, 5000K/6500K is 80%; transmittance for IP65/IP54 Plus/ IP67 Plus Thin/IP67 Plus is 95%.
- 4: Applying with extra heat sink is proposed.
- 5: 3M 300LSE yellow adhesive tape attached on backside, is standard configuration of Plus Series.
- 6: One end of 200mm[7.87in.] brown/green/red/blue/white PVC cable or waterproof connector kit according to specific IP rating, is standard configuration of Plus Series.
- 7: Transparent reel and silvery ESD bag, are standard configuration of Plus Series.
- 8: Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.
- 9: Power maintenance rate=actual measured power in a certain length/(a same certain length*actual measured power in 1M[3.28ft.] length);
Brightness maintenance rate=actual measured brightness on the tail section in a certain length/actual measured brightness on the first section in a same certain length. (Generally, there are few cases of full power operation for mixed-color like RGB/RGBW/RGBWCCT/RGBWCCT)

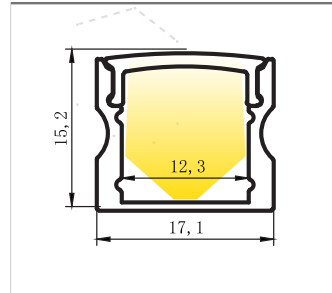
POWER & BRIGHTNESS vs. LENGTH CHARACTERISTIC (POWER FED ON ONE SIDE)					
Length Of Single Product	1M [3.28ft.]	2M [6.56ft.]	3M [9.84ft.]	4M [13.1ft.]	5M [16.4ft.]
Actual Measured Power	18.2W (RGB+W)	35W (RGB+W)	51.4W (RGB+W)	65.7W (RGB+W)	78.3W (RGB+W)
Power Maintenance Rate	100% (RGB+W)	97.2% (RGB+W)	95.2% (RGB+W)	91.3% (RGB+W)	87% (RGB+W)
Brightness Maintenance Rate	99.9% (RGB+W)	98% (RGB+W)	94.6% (RGB+W)	91.4% (RGB+W)	88.4% (RGB+W)

Channel

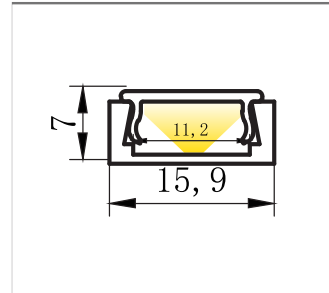
For additional details, please refer to channel catalog.



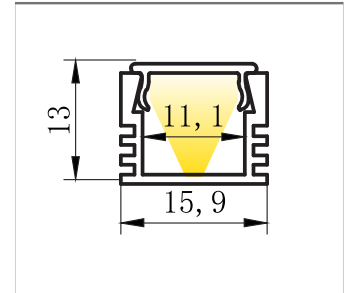
6733



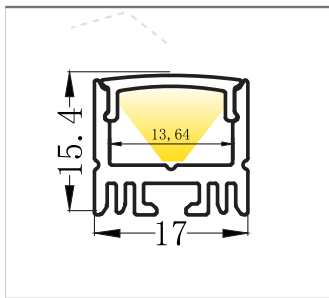
6760



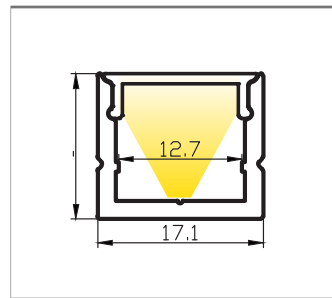
5928



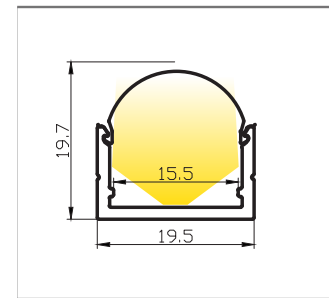
6351



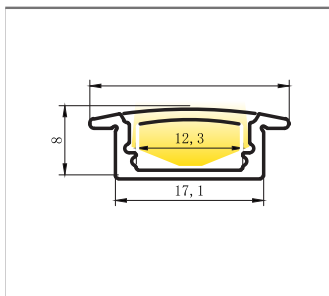
6759



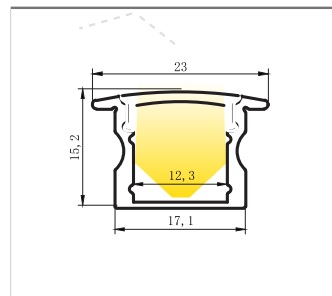
6760



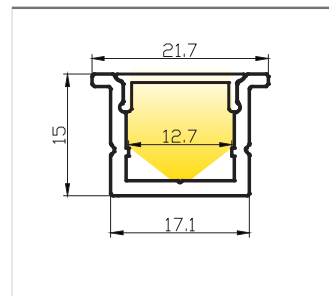
7679-A



9831



9860



8367