



# Class B-C Standard Strips

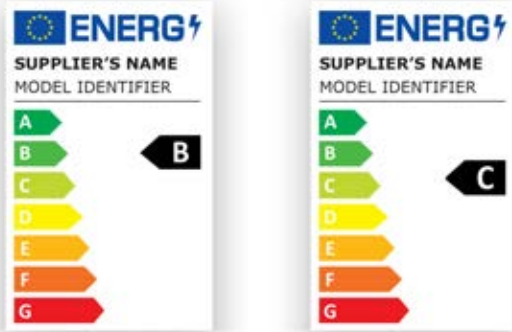
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LED strips expert Company in China  
Energy Class meets B, C since 1st Sep, 2021

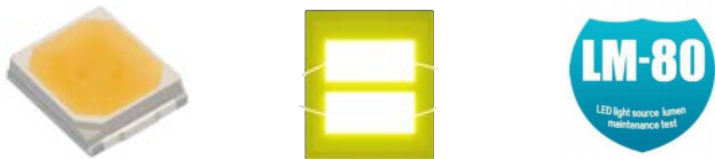


# FEATURES

1. High efficiency up to 196lm/W, meets class B,C

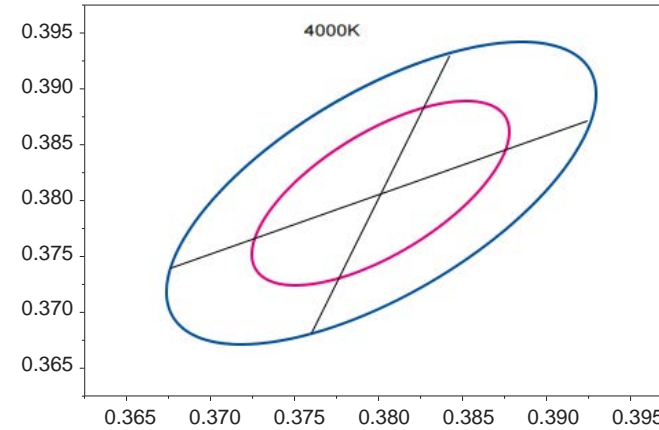


2. Quality SMD2835 0.2W LED provides unparalleled design-in Flexibility for LED strips application.



- > 2 x chips high quality package
- > Thermal Resistance up to 20°C/W
- > Electrostatic Discharge(HBM) up to 2000V
- > Calculated L70 lifetime up to 53,000 hours
- > Reported TM-21 L70 lifetime up to 36,000 hours

3. SDCM(standard deviation of color matching) within six-step, IES60081:2010 standard



LEDs follows a 3 step and a 5 step ellipse with subgroups to ensure a similar white color impression of the light.

Color space	Center X	Center Y	a	b	Rotation Angle
3-Step	0.3818	0.3797	0.0040	0.0094	54.0000
5 Step	0.3818	0.3797	0.0067	0.0156	54.0000

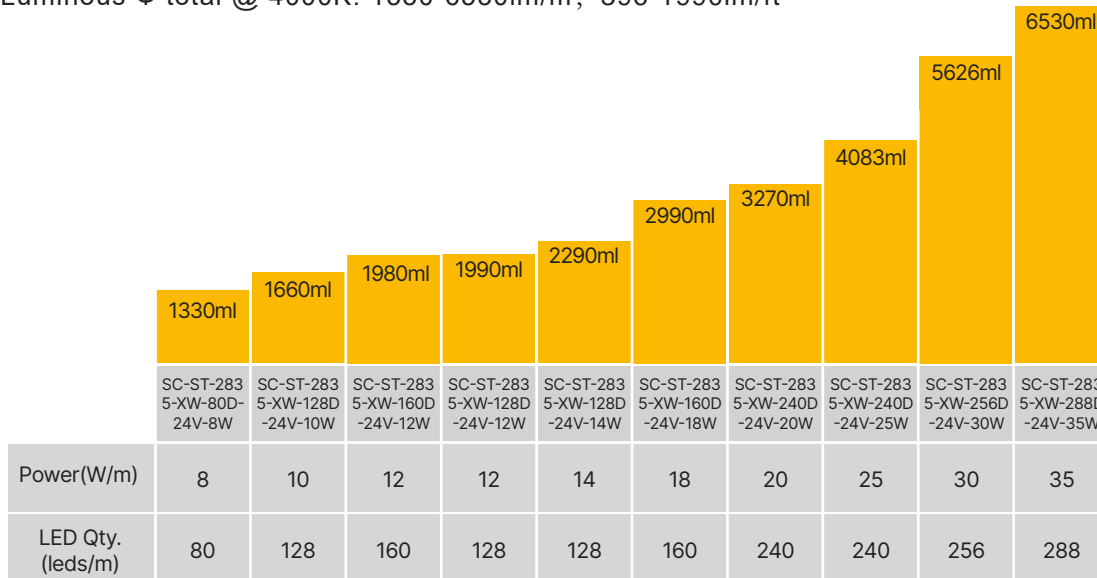
Point	X	y	Point	X	y
1	0.3914	0.3838	5	0.3875	0.3816
2	0.3856	0.3920	6	0.3842	0.3872
3	0.3714	0.3731	7	0.3754	0.3752
4	0.3788	0.3679	8	0.3802	0.3726

# FEATURES

## 4. Flexible luminous and cutting configurations to comply with various different system solutions

Power : 5-35W/m, 1.5-10.7W/fts

Luminous  $\Phi$  total @ 4000K: 1330-6530lm/m, 396-1990lm/ft



**Notes :**

1. Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram.
  2. Tolerance: Lumen/Power/CCT $\pm$ 5%, Ra $\pm$ 2.0; CIE X/Y:  $\pm$ 0.005.
- All measurements were made under the standardized environment of Signcomplex.

## Cutting Length:



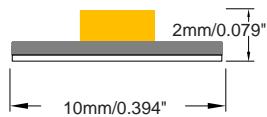
## APPLICATION

Signcomplex class B-C standard strips complementary portfolio with optimized performance and bin construction for the white type, it also an effective inforcement of economic version. it provides the perfect balance between performance and cost efficiency for a variety of applications.

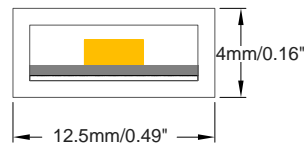


# SPECIFICATION

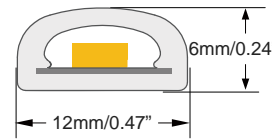
Model	CCT (available)	Efficiency (lm/W)	Lumen (lm/m)	LED Qty. (leds/m)	Power (w/m)	CLASS	
SC-ST-2835-XW-80D-24V-8W	2700K 3000K 3500K 4000K 5000K 5700K 6500K	166	1330	80	8	C	LED Type: 2835 Width: 10mm/12mm Beam angle: 120° DC Voltag: 24V CRI: 80 or 90
SC-ST-2835-XW-80D-24V-10W		163	1633	80	10	C	
SC-ST-2835-XW-128D-24V-10W		166	1660	128	10	C	
SC-ST-2835-XW-128D-24V-12W		166	1990	128	12	C	
SC-ST-2835-XW-128D-24V-14W		164	2290	128	14	C	
SC-ST-2835-XW-160D-24V-12W		165	1980	160	12	C	
SC-ST-2835-XW-160D-24V-18W		166	2990	160	18	C	
SC-ST-2835-XW-240D-24V-20W		164	3270	240	20	C	
SC-ST-2835-XW-240D-24V-25W		163	4083	240	25	C	
SC-ST-2835-XW-162D-24V-10W		195	1950	162	10	B	
SC-ST-2835-XW-198D-24V-10W		196	1956	198	10	B	
SC-ST-2835-XW-256D-24V-30W		188	5626	256	30	B	
SC-ST-2835-XW-288D-24V-35W	187	6530	288	35	B		



IP20: Non-waterproof



IP65: Silicon sleeved



IP65: Silicon extrusion

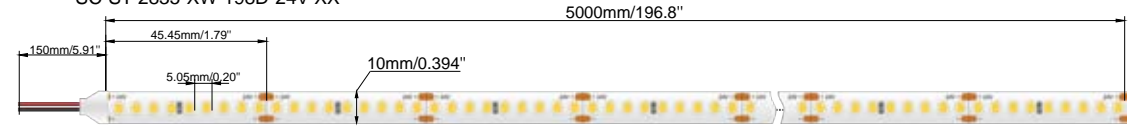
NOTE: IP64 slim PU glue potted and IP67 silicon extrusion and glue potted have color shift issue, contact sales for specific information

# DIMENSIONS (Unit: mm/inch)

SC-ST-2835-XW-80D-24V-XX



SC-ST-2835-XW-198D-24V-XX



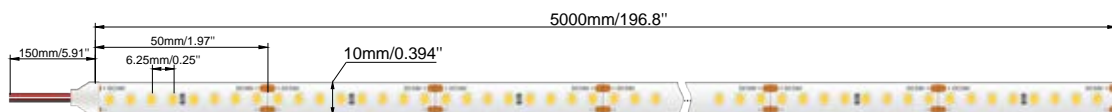
SC-ST-2835-XW-128D-24V-XX



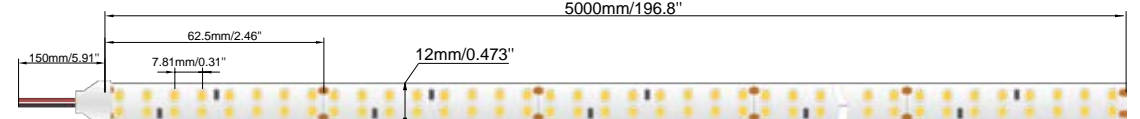
SC-ST-2835-XW-240D-24V-XX



SC-ST-2835-XW-160D-24V-XX



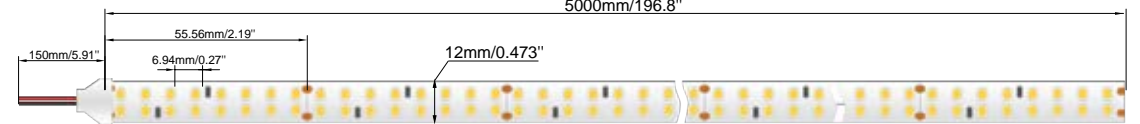
SC-ST-2835-XW-256D-24V-XX



SC-ST-2835-XW-162D-24V-XX

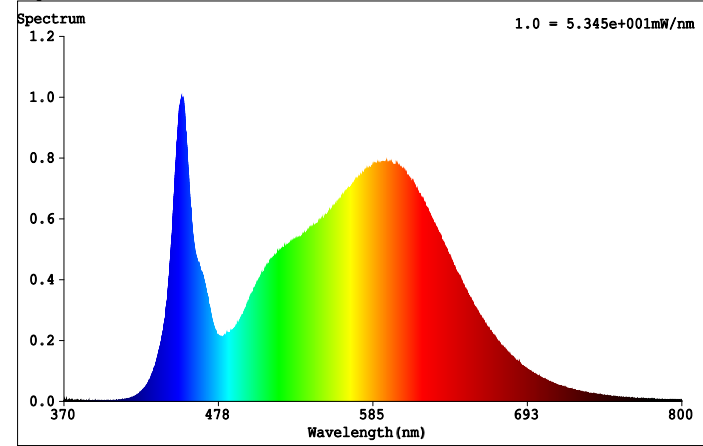


SC-ST-2835-XW-288D-24V-XX



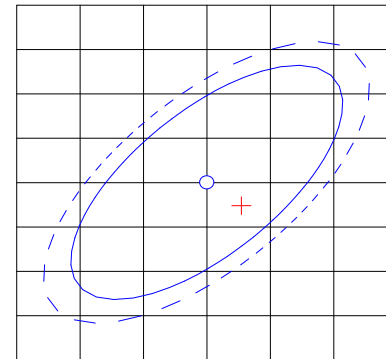
## LUMINAIRE PHOTOMETRIC TEST REPORT

### Spectrum



Spectral Distribution

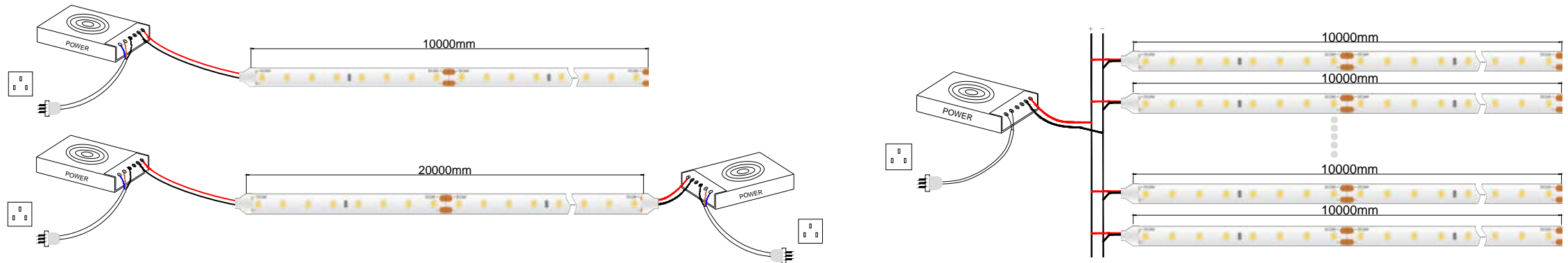
2.8 SDCM



x=0.380 y=0.380 F4000

CIE1931 Chromaticity Diagram

### CONNECTION DIAGRAM



# TECHNICAL PARAMETER

## ERP TEST REFERENCE

### Type of light source:

- |                                  |  |   |  |                                    |   |
|----------------------------------|--|---|--|------------------------------------|---|
|                                  | <input type="checkbox"/> HL                    | <input type="checkbox"/> LFLT5HE                    | <input type="checkbox"/> LFL T5HO      | <input type="checkbox"/> CFLni     | <input type="checkbox"/> other          |
| - Lighting technology used       | FL   | <input type="checkbox"/> HPS                        | <input type="checkbox"/> MH            | <input type="checkbox"/> other HID | <input checked="" type="checkbox"/> LED |
|                                  | OLED   | <input type="checkbox"/> mixed                      | <input type="checkbox"/> other         |                                    |   |
| - Non-directional or directional | <input checked="" type="checkbox"/> NDLS       |   | <input type="checkbox"/> DLS           |                                    |   |
| - Mains or non-mains             | <input type="checkbox"/> MLS                   | <input checked="" type="checkbox"/> NMLS            |  |                                    |   |
| - Connected light source (CLS)   | <input type="checkbox"/> Yes                   | <input checked="" type="checkbox"/> No              |  |                                    |   |
| - Colour-tuneable light source   | <input type="checkbox"/> Yes                   | <input checked="" type="checkbox"/> No              |  |                                    |   |
| - Envelope                       | <input checked="" type="checkbox"/> no         | <input type="checkbox"/> second                     | <input type="checkbox"/> non-clear     |                                    |   |
| - High luminance light source    | <input type="checkbox"/> Yes                   | <input checked="" type="checkbox"/> No              |  |                                    |   |
| - Anti-glare shield              | <input type="checkbox"/> Yes                   | <input checked="" type="checkbox"/> No              |  |                                    |   |
| - Dimmable                       | <input type="checkbox"/> Yes                   | <input type="checkbox"/> only with specific dimmers | <input checked="" type="checkbox"/> No |                                    |   |
| - Control gear                   | <input checked="" type="checkbox"/> Integrated |   | <input type="checkbox"/> External      |                                    |   |
| - Use of light source:           | <input checked="" type="checkbox"/> Indoor     | <input type="checkbox"/> Outdoor                    | <input type="checkbox"/> Industry      |                                    |   |

**Lamp cap installed:** N/A

### General product parameters :

Energy consumption in on-mode  
(kWh/1 000 h) 7.5W

Energy efficiency class  A  B  C  D  E  F  G

Rated useful luminous flux.....(lm): 1510lm

Rated CCT .....(K): 3800-4200K

On-mode power (Pon), expressed in W.....: 7.5W/0.5M

Standby power (Psb).....(W): 0

Networked standbypower(Pnet)for CLS (W): N/A

Rated Ra.....: 80

Outer dimensions.....(mm): N/A

Spectral power distribution.....: See attachment 2

Claim of equivalent power .....:  Yes:  N/A

Chromaticity coordinates (x and y).....: x:0.3820, y:0.3765

Peak luminous intensity .....(cd): N/A

Beam angle in degrees.....(°): N/A

R9 colour rendering index valueR9.....: 0

Survival factor .....: 100%

The lumen maintenance factor.....: 98%

Displacement factor (cos φ 1).....: 0.9

Colour consistency in McAdam ellipses.....: 2.8

Claims that an LED light source replaces a  
fluorescent light source without integrated ballast of a particular wattage.....:  Yes:  N/A

Flicker metric (Pst LM) .....: 1.0

Stroboscopic effect metric (SVM).....: 0.4

Rated CCT .....(K): 3800-4200K

Rated life time .....(h): 53000h

### Attachments:

The test report includes: ATTACHMENT 1(S) of product photos

### Summary of testing:

- These results are in compliance with the ecodesign requirements of the Commission Regulation (EU) 2019/2020.
- Measurement was conducted at voltage 230V 50Hz and a stable ambient temperature  $25 \pm 10^{\circ}\text{C}$ .
- THD  $\leq 3\%$



# ACCESSORIES

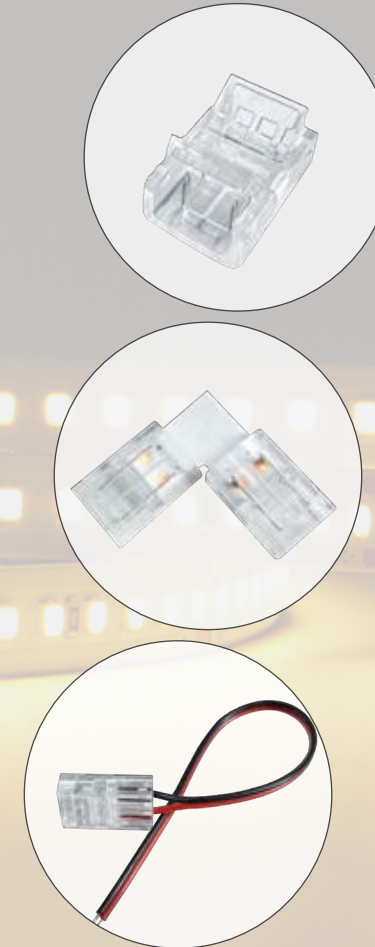
## LED Aluminum Channel



## Non-waterproof LED Power Supply



## LED Flex Strip Connectors



## Reliability test items and conditions, failure judgment standards

Test item	Performance	Standard/price/description
Photometry	Integrating sphere test	IES LM79(lumen,CCT,CRI,XY,SDCM,wave length)
	Light distribution test	IES LM79(Lumen intensity distribution)
	Long-term aging experiment	IES L M84&IES TM28
Heating test	Power-on temperature test under normal temperature conditions	UL1598&UL 2388&IEC60598-1&IEC60598-2-21
	High temperature and humidity test	UL1598&UL 2388&IEC60598-1&IEC60598-2-21
Technical test& physical test	Bending test	Manufacturer's definition, 500 cycles
	Vibration test	UL2388>750 cycles
	Tensile test	Manufacturer definition
	Twist test	The maximum connection length of the feed at both ends is defined by the manufacturer> 200 cycles
	Drop test	UL1598&UL 2388&IEC60598-1&IEC60598-2-21
	IK test	IEC62262
Environment test	Heat resistance test	UL94
	UV illuminant test	ASTMG154,ISO4892-3,UVA@340nm
	IP test	IEC60529
	Salt spary test	IEC68-2-11
Endurance test& thermal test	Thermal shock test	Without lighting -40℃-55℃ (25 minutes) Temperature conversion time within 5 minutes,100 cycles
	Power-on temperature test under high temperature conditions	Manufacturer's definition 55℃ (standard temperature)

Item	Symbol	Failure Criteria
Luminous Flux	Lm	≥70%
Forward voltage	VF	±10%
Colour	CIE_X CIE_y	+0.01