

**PRODUCT:**  
HIGH CRI LED S SHAPE FLEX STRIP 2835L 24V

**FEATURES:**  
6 mm width flexible PCB with adhesive backing  
5-meter length per roll  
95 CRI, 2700K / 5600K  
4.8 W / meter (1.5 W / foot)  
24V constant voltage compatible  
Cutttable every 6 LEDs (100 mm)  
Weight 90g



### DESCRIPTION

High CRI LED S shape flexible strips are extremely versatile and bendable and can be installed in a variety of linear or non-linear surfaces alike. 3M® adhesive backing allows for quick installation.

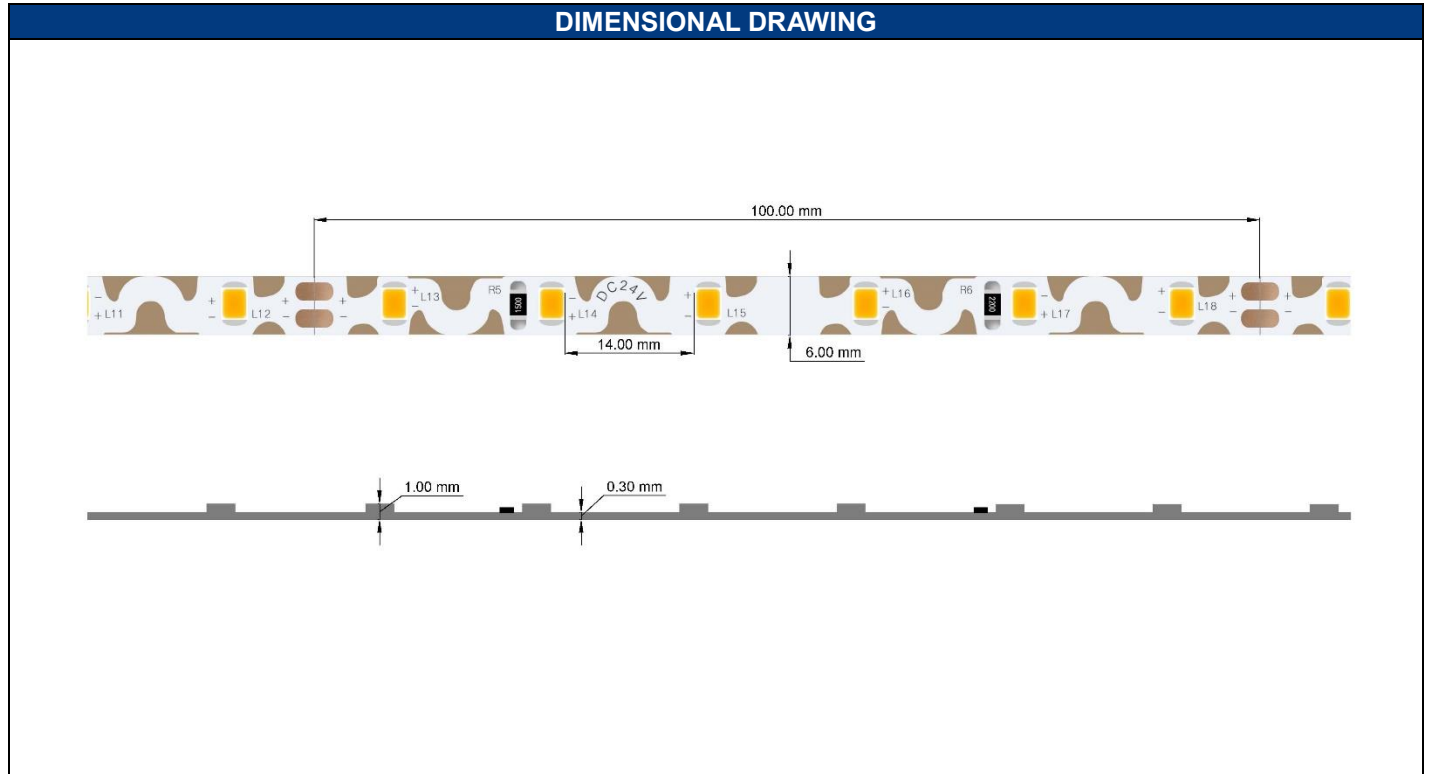
| ELECTRICAL-OPTICAL CHARACTERISTICS (T <sub>A</sub> = 25 °C) |                      |       |      |      |      |           |                      |
|---|----------------------|-------|------|------|------|-----------|----------------------|
| PARAMETER   | SYMBOL               | VALUE |      |      | UNIT | TOLERANCE | CONDITION            |
|   |                      | MIN.  | TYP. | MAX. |      |           |                      |
| Power per meter*  | --                   | --    | 4.8  | 5.3  | W    | --        | V <sub>f</sub> = 24V |
| Forward current per meter                                   | I <sub>f</sub>       | --    | 0.20 | 0.22 | A    | --        | V <sub>f</sub> = 24V |
| Luminous flux per meter                                     | Φ <sub>2700K</sub>   | --    | 370  | --   | lm   | --        | V <sub>f</sub> = 24V |
|   | Φ <sub>5600K</sub>   | --    | 410  | --   |      |           |                      |
| Correlated color temperature**                              | CCT <sub>2700K</sub> | 2625  | 2700 | 2775 | K    | --        | V <sub>f</sub> = 24V |
|   | CCT <sub>5600K</sub> | 5400  | 5600 | 5800 |      |           |                      |
| Color rendering index                                       | R <sub>a</sub>       | 95    | --   | --   | --   | --        | V <sub>f</sub> = 24V |
| TCS R9 (CRI Red)  | R <sub>9</sub>       | --    | 90   | --   | --   | --        | V <sub>f</sub> = 24V |
| Chromaticity coordinates                                    | (X,Y)                | --    | --   | --   | --   | ±0.005    | --                   |
| Viewing angle   | 2θ1/2                | --    | 120  | --   | Deg  | ±5        | V <sub>f</sub> = 24V |

\*Unless otherwise noted, specifications are based on a 1 meter segment.

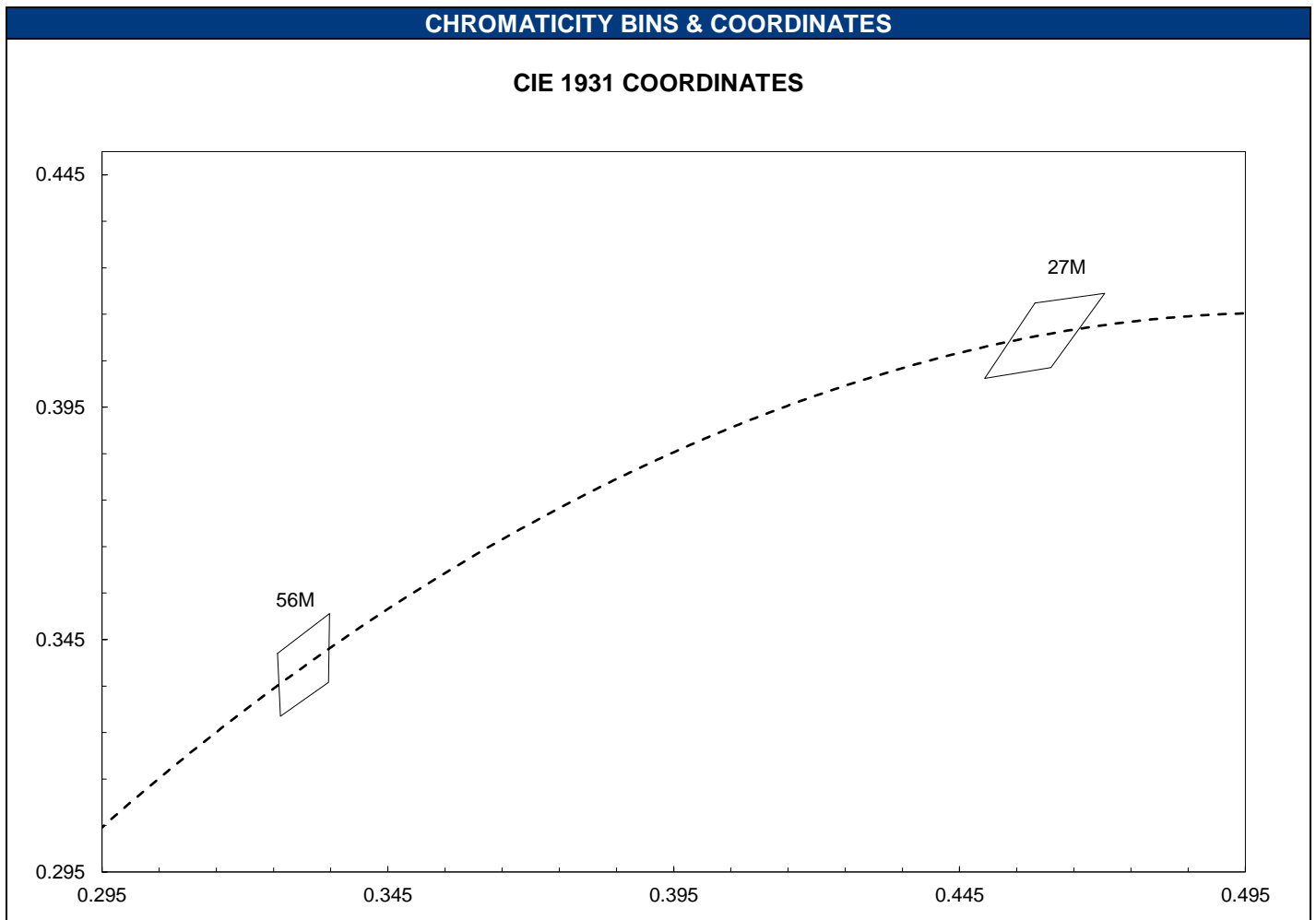
\*\*CCT range is tested under Yuji Everfine standard equipment which shall prevail, CIE1931 chromaticity coordinate tolerance ±0.0015 as reference.

| ORDERING INFORMATION       |              |                   |
|----------------------------|--------------|-------------------|
| PART NUMBER                | CCT          | CHROMATICITY BINS |
| YJ-BC-SRB-2835L-24V-G03-27 | 2700K ± 75K  | 27M               |
| YJ-BC-SRB-2835L-24V-G03-56 | 5600K ± 200K | 56M               |
| YJ-BC-SRB-2835L-24V-G03-XX | CUSTOM       |                   |

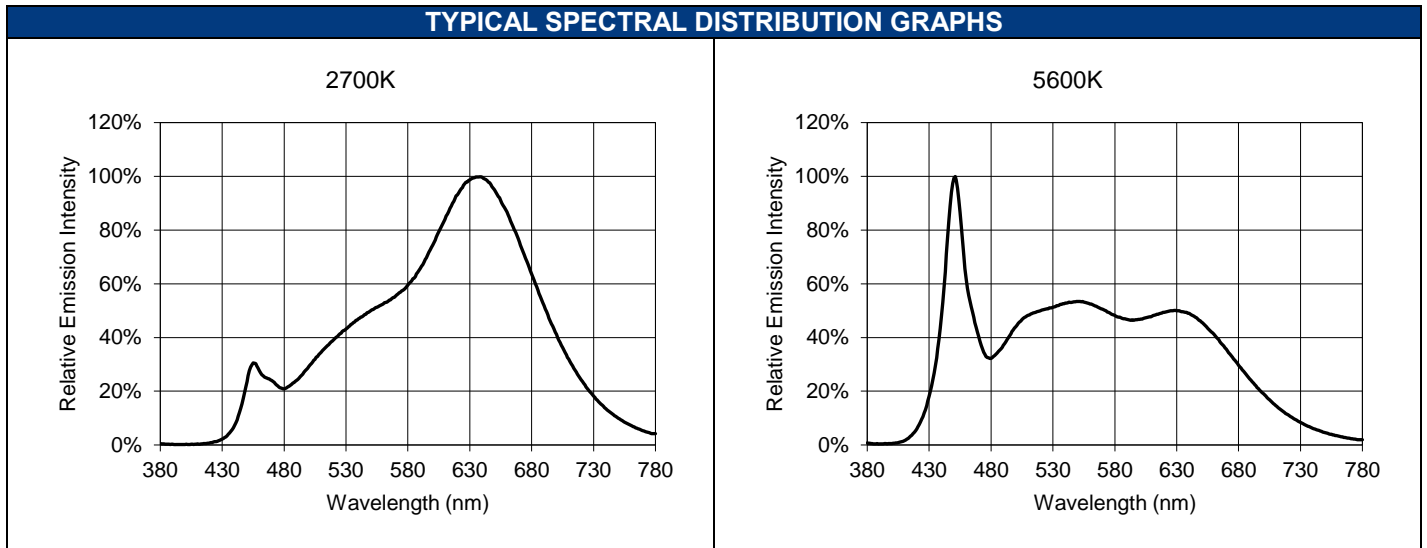
| ABSOLUTE MAXIMUM RATING (T <sub>A</sub> = 25 °C) |                  |           |      |
|--|------------------|-----------|------|
| PARAMETER  | SYMBOL           | LIMIT     | UNIT |
| Power Consumption                                | P <sub>D</sub>   | 5.3       | W/m  |
| Operating Temperature                            | T <sub>opr</sub> | -40 ~ +85 | °C   |
| Storage Temperature                              | T <sub>stg</sub> | -30 ~ +85 | °C   |



| CHROMATICITY BINS & COORDINATES |     |                      |        |        |        |        |        |        |        |
|---------------------------------|-----|----------------------|--------|--------|--------|--------|--------|--------|--------|
| CCT                             | BIN | CIE 1931 COORDINATES |        |        |        |        |        |        |        |
|                                 |     | X0                   | Y0     | X1     | Y1     | X2     | Y2     | X3     | Y3     |
| 5600K                           | 56M | 0.3257               | 0.3420 | 0.3262 | 0.3285 | 0.3346 | 0.3358 | 0.3348 | 0.3506 |
| 2700K                           | 27M | 0.4582               | 0.4174 | 0.4494 | 0.4012 | 0.4610 | 0.4035 | 0.4704 | 0.4195 |



### TYPICAL SPECTRAL DISTRIBUTION GRAPHS



### 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 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 5.3 W / meter = 26.5W; for power supply stability, we would recommend a power supply that is capable of supplying at least W (26.5W + 25% x 26.5W).

#### 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 stabilizing at 68°C. Maximum allowed LED solder point temperature is 105°C.