

LED Strip Light

Sauna-Snow Room Series

Temperature-Inductive LED Strip



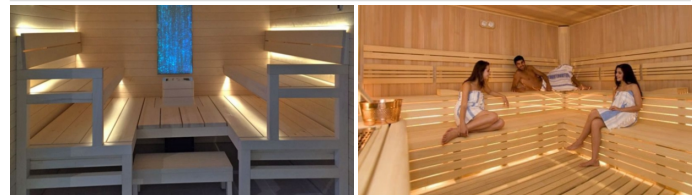
Features

The SRLT Series is designed for saunas and steam rooms as well as extreme cold room applications. At 2.93 watts per foot and 396 lumens per foot, this high efficacy strip is cuttable every 2.19". Manufactured with a full-seal structure using a silicone extrusion process, which ensures the stability and effectiveness of the IP67 rated waterproofing even under extreme hot and cold working environments. The ultra low working temperature, high-efficacy design, 7 LEDs per section, and low driving current (using high power LEDs), guarantees the long lifespan for all components and materials. This LED strip is self-cooling and self-adjusting using a smart temperature-inductive IC when over-heating occupied or vacant. Designed and engineered to prevent the conditions of extreme hot and cold, by using non-metallic material with slow heat conduction for exterior contact parts.

UL and CE with a 3 year warranty.

Applications

The SRLT is designed for high-temperature saunas and steam rooms and low-temperature snow and ice rooms, typically in spa and wellness facilities, providing indirect lighting solutions.



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Diagram & Dimensions

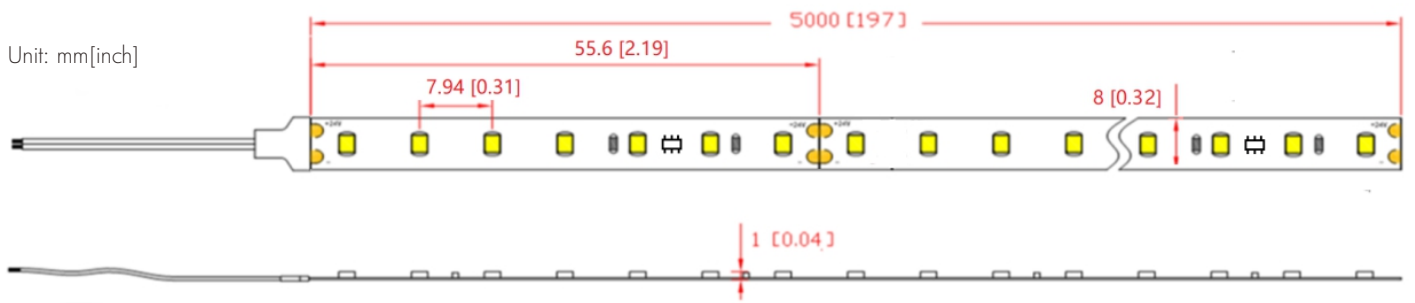


Diagram and Dimension of Inner LED Strip

Unit: mm[inch]



----- Silicone Tube
----- FPCB

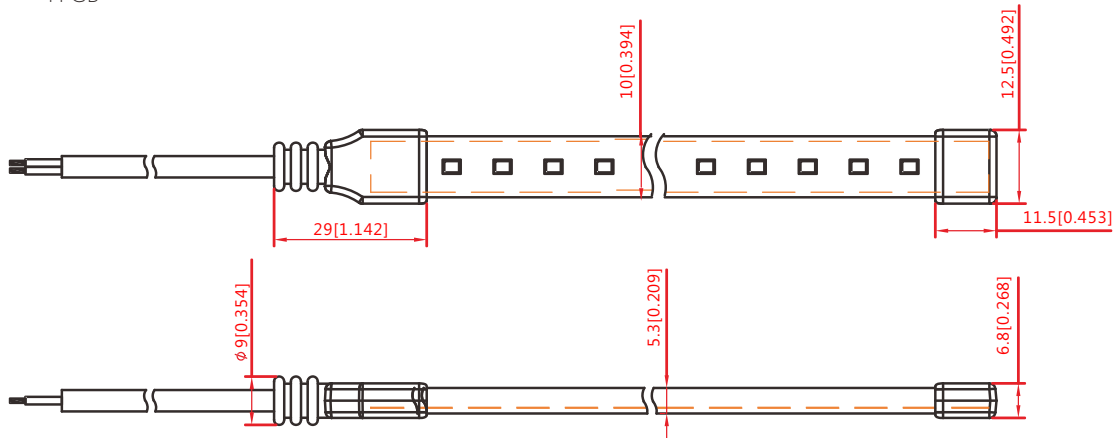


Diagram and Dimension of IP67 Plus LED Strip

LED Strip Light

Specification

Temperature Resistant Data of Components

LED: 0.5W/150mA, Max. Tj=115°C	Resistor: -55~125°C	IC: -50~150°C	Solder Paste: High temperature type with melting point>200°C
FPCB: Max.=105°C	Silicone Tube & Glue: -40~150°C	Silicone Wire: -40~150°C	3M Tape: Max.=121°C

Part No.	Dimension (L*W*H)	IP Rating	Lumen Flux±10% @CRI80&4000K	Light Efficiency @CRI80&4000K	Lumen Flux±10% @CRI90&4000K	Light Efficiency @CRI90&4000K
SRLT-FK76S	5000*10*4mm [1.97*0.39*0.16in.]	IP67 Plus [wet]	1300lm/M [396lm/ft.]	135lm/W	1100lm/M [335lm/ft.]	115lm/W

Notice: (1) The lumen flux value above comes from integrated sphere report, it can be 10~15% higher in IES report.

(2) The lumen flux value above is base on 1M[3.28ft.] length, it need to be measured and considered separately for other longer lengths.

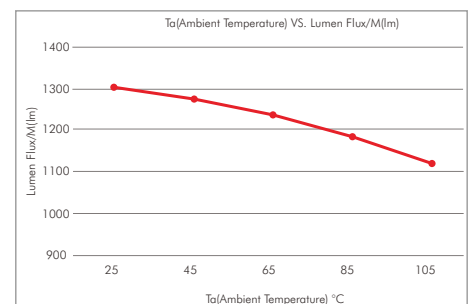
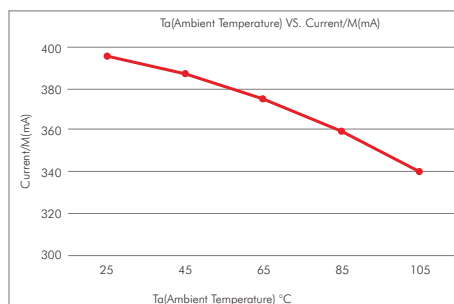
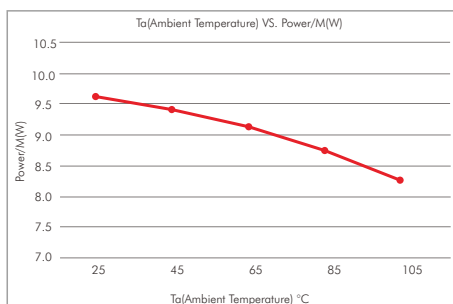
(3) Energy efficiency class of regulation (EU) 2019/2020 is E[CRI80]/F[CRI90] for 4000K in IP67 Plus, it varies depending on CRI, CCT and IP rating.

General Parameters		Photoelectric Parameters	
Standard Length	5M [16.4ft] (power fed on one side)	Power±10%	9.6W/M [2.93W/ft.] @24VDC
Min. Unit & LED QTY	55.6mm [2.19in.] & 7 LEDs	Input Voltage	24VDC (22.8~25.2VDC)
LED Type	SMD2835 white	LED Current	22mA/LED
LED Density	126LED/M [38LED/ft.]	LED CCT & Wavelength	2700K, 3000K, 3500K, 4000K, 5000K, 6500K
PCB Type	2oz white FPC, OSP	SDCM	ErP & ANSI Norm, 3 step 1 bin
Operating Ambient	Ta(working): -25~100°C [-13~212°F] (Sauna room: usually is ≤ 85°C [185°F], occasionally is 85~100°C [185~212°F]; Ice room: usually is -10~0°C [14~32°F]) Tstg(storage): -20~60°C [-4~140°F]	CRI	Ra≥80 & 90
Warranty	3 years@Ta≤100°C [212°F] (for sauna room and snow room application)	Beam Angle	120°
Lifespan	L80≥50kh@Tc≤100°C [212°F] (Tc is temperature of LED pin)	Dimming Method	N.A
Certification	CE, UL, CB, SAA, RoHS, LM80		

Note:

- 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.
- 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%.
- Dimension, CCT and lumen flux etc. of waterproof type will be different, compared with IP20 type.
- Applying with extra heat sink is not necessary with self-cooling capacity.
- 3M VHB 5915 adhesive tape attached on backside, is standard configuration of Plus Series.
- One end of 200mm double insulated white silicon cable, is standard configuration of Plus Series.
- Transparent reel and silvery ESD bag, are standard configuration of Plus Series.
- Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.

Temperature-Inductive Illustration



Ordering Information

MODEL	COLOR	LENGTH	IP	VOLTAGE				
SRLT-FK76S	27	27k	16.4 CU	16.4' Reel Custom Length	67P	IP67 plus	24V	24 Volt DC
	30	30k						
	35	35k						
	40	40k						
	50	50k						
	65	65k						

Accessories

- FS-SRLT-24-FK67S-WL** Wire lead connector for static white strip
- FS-SRLT-24-FK67S-JC** Jumper cable connector static white strip
- FS-SRLT-24-FK67S-SSC** Strip to strip connector for static white strip



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