Features

1. Sauna Series using top quality material such as Epistar/San'an chip, Intermatix phosphor powder, ShinEtsu & Dow Corning glue, Heraeus 99.99% pure golden wire, pure copper & fresh plastic stand etc. as standard configuration.
2. High waterproof rating in IP68 with full-seal solid structure using silicone injection process, ensures the stability and effectiveness of waterproofing even under extreme hot and cold of working environment.
3. Ultra low working temperature rise with electronic design of high-efficacy in 7 LED per section and low driving current using high power LED, guarantees the long lifespan for all components and materials.
4. Self-cooling available using smart IC with function of working temperature monitoring, to get a safe and stable running state by adjusting the IC's current automatically, when over-heating occupied or disappeared, and keep a good brightness consistency too.
5. Prevent the feeling of extreme hot and cold during human contact, by using high thermal resistance, high temperature resistant and low temperature resistant non-metallic material for exterior contact parts.
6. Indirect lighting solution ideal for high-temperature sauna/steam room and low-temperature snow/ice room of SPA and wellness.

Application

Indirect lighting solution ideal for high-temperature sauna/steam room and low-temperature snow/ice room of SPA and wellness.
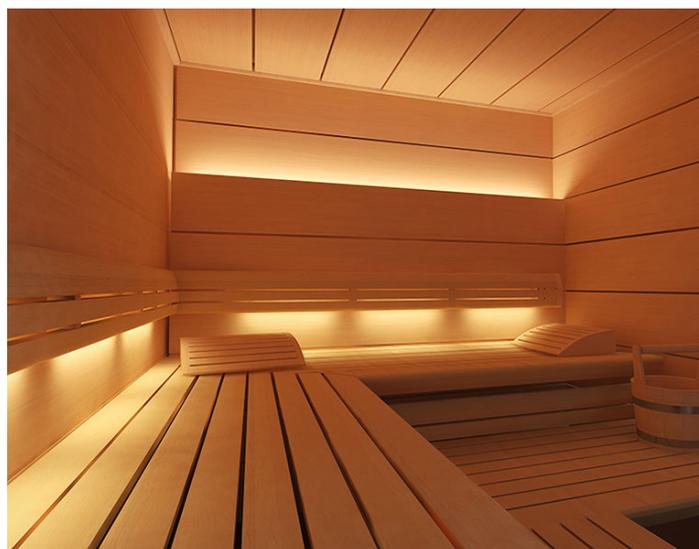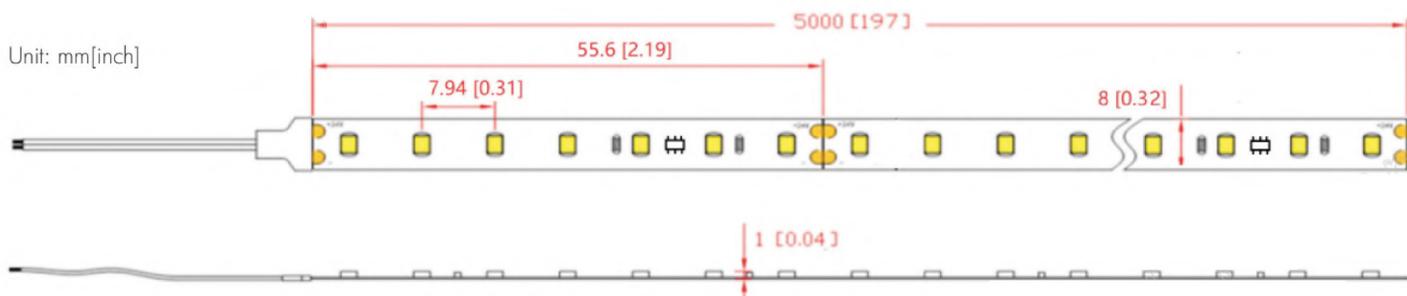
Diagram & Dimension

Unit: mm[inch]

5000 [197]

55.6 [2.19]

7.94 [0.31]

8 [0.32]

1 [0.04]

Diagram and Dimension of Inner LED Strip

Unit: mm[inch]

SILICONE TUBE
SILICONE GLUE
FPCB

LED

10[0.39]

12.5[0.49]

10[0.394]

4[0.16]

6[0.236]

10[0.394]
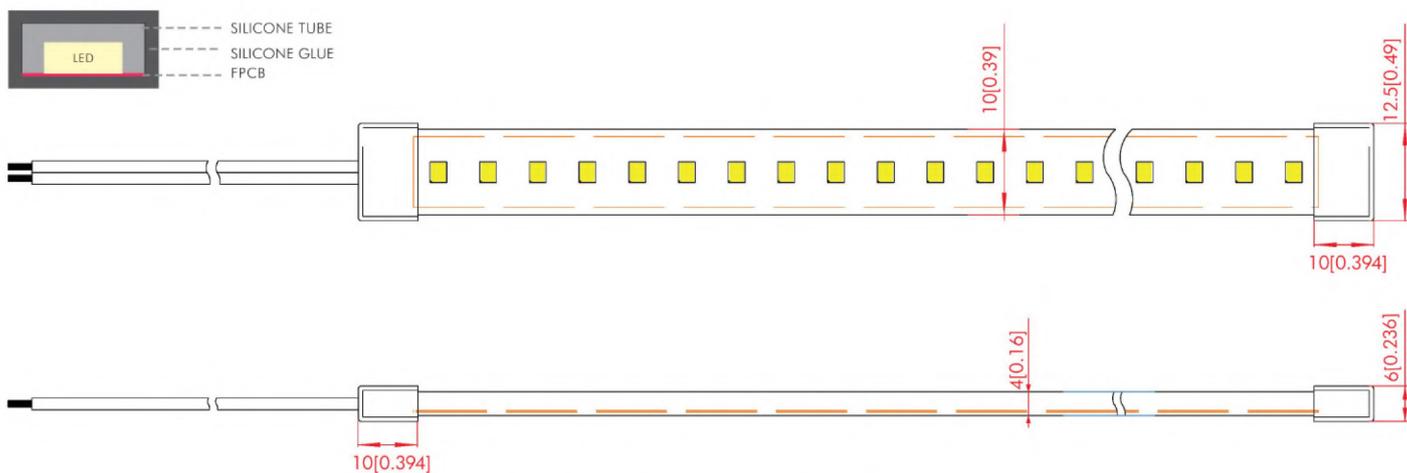
Diagram and Dimension of IP68 LED Strip

Specification

Temperature Resistant Data of Components

LED: 0.5W/150mA, Ta=-40~85℃, Max. Tj=115℃	Resistance: Ta=-55~125℃ (more reliable than IC)	Solder Paste: High temperature type with melting point＞200℃
FPCB: Max.=105℃	Silicone Tube & Glue: Ta=-40~150℃	Silicone Wire: Ta=-40~150℃	3M Tape: Max.=93~149℃

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
LED STRIP SAUNA IV	5000*10*4mm [197*0.39*0.16in.]	IP68[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) 2020/2015 is E[CRI80]/F[CRI90] for 4000K in IP68, 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)/Tstg(storage): -25~105℃ [-13~221℉] (Sauna room: usually is ≤85℃ [185℉], occasionally is 85~105℃ [185~221℉]; Ice room: usually is -10~0℃ [14~32℉])	CRI	Ra≥80 & 90
Warranty	5 years@Ta≤85℃ [185℉], 3 years@Ta≤105℃ [221℉] (for sauna room and snow room application)	Beam Angle	120°
Lifespan	L80≥60kh@Tc≤85℃ [185℉], L80≥50kh@Tc≤105℃ [221℉] (Tc is temperature of LED pin)	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: 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.
2: 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%.
3: Dimension, CCT and lumen flux etc. of waterproof type will be different, compared with IP20 type.
4: Applying with extra heat sink is not necessary with self-cooling capacity.
5: 3M 300LSE yellow adhesive tape attached on backside, is standard configuration.
6: One end of 200mm red/white silicon cable, is standard configuration.
7: Transparent reel and silvery ESD bag, are standard configuration.
8: Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.

Temperature-Inductive Illustration

Ta(Ambient Temperature) vs. Power/M(W)

Ta(Ambient Temperature) vs. Current/M(mA)

Ta(Ambient Temperature) vs. Current/LED(mA)