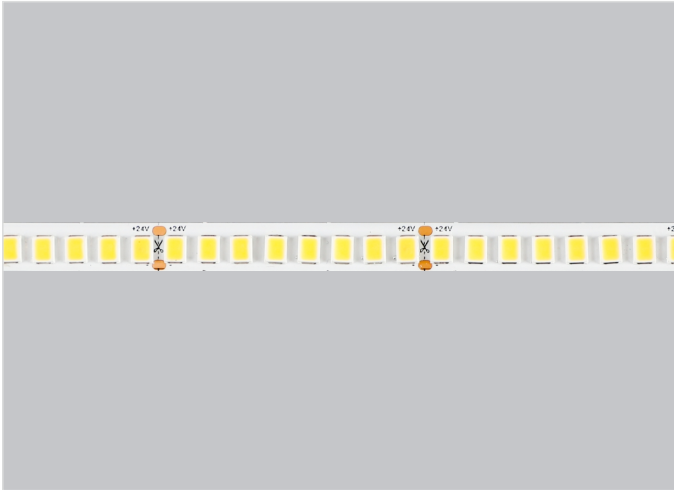


LED Flexible Strip

Built-in IC Series



Features

The ICBI Series is a patented, efficient, flexible, highly customizable LED strip. At 2.44 watts per foot and 427 lumens per foot, the ICBI boasts both high efficacy and high density at 73 LEDs per foot with a 0.24" width. The ICBI Series offers a minimalist appearance without any other components aside from the LEDs. Patented and Built-in constant current IC LED to assure uniform brightness for the entirety of the run. The ICBI offers maximum customization with multiple channel options and a segment length of 1.3". Standard color temperatures and IP20 rated.

UL and CE listed with a 5-year warranty.

Application

The ICBI is engineered for direct lighting as a primary light source. It is also designed for and indirect lighting in shelving, cabinetry, signage, corridors, stairways, coves, and suitable for countless other applications.



LED Flexible Strip

Specification

Part No.	Dimension (L*W*H)	IP Rating	Lumen Flux±10% @CRI80&4000K	Light Eff. @CRI80&4000K	Lumen Flux±10% @CRI90&4000K	Light Eff. @CRI90&4000K
ICBI-9645S	L5000*W6*H1.4mm [L197*W0.24*H0.06in.]	IP20 [Dry]	1400lm/M [427lm/ft.]	175lm/W	1200lm/M [366lm/ft.]	150lm/W

General Parameters		Photoelectric Parameters	
Standard Length	5M [16.4ft] (power fed on one side)	Power± 10%	8W/M [2.44W/ft.]
Increment & LED QTY	33.33mm[1.3in.] & 8 LED	Input Voltage	24VDC
LED Type	SMD2835 white	LED Current	11mA/LED
LED QTY	240LED/M [73LED/ft.]	LED CCT & Wavelength	2700K&3000K&3500K&4000K&5000K&6500K
PCB Type	3oz white FPC, OSP	SDCM	ErP & ANSI Norm, 3 step in one bin
Operating Ambient	Ta(working): -20~45°C[-4~113°F] & Tstg(storage): -20~60°C[-4~140°F]	CRI	Ra≥80/90
Warranty	5 years	Beam Angle	120°
Lifespan	L70≥50,000h@Tc≤65°C [149°F] (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, RoHS, LM80		

Note:

- 1: The energy efficiency class of regulation (EU)2019/2020 is C(CRI80) and D(CRI90) for 4000K in IP20, it varies depending on CRI, CCT and IP rating.
- 2: Dimension and optical parameters such as lumen flux, CCT, CRI and SDCM. of the waterproof product may vary compared with the IP20 version.
- 3: 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.
- 4: 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%.
- 5: Applying with extra heat sink is not necessary with self-cooling capacity.
- 6: 3M 300LSE yellow adhesive tape attached on backside, is standard configuration of Plus Series.
- 7: One end of 200mm red/white silicone cable or waterproof connector kit according to specific IP rating, is standard configuration of Plus Series.
- 8: Transparent reel and silvery ESD bag, are standard configuration of Plus Series.
- 9: Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.

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					39.6W
Power Maintenance Rate					99%
Brightness Maintenance Rate					98%

LED Flexible Strip

Ordering Information

MODEL	COLOR	LENGTH	IP	VOLTAGE		
ICBI-9645S	27K	2700K	16.4	24		
	30K	3000K			16.4' Reel	
	35K	3500K	CU		24 Volt DC	
	40K	4000K				Custom Length
	50K	5000K				
	65K	6500K				

Accessories

- FS-ICBI-9645S-WL Wire lead connector for static white strip
- FS-ICBI-9645S-JC Jumper cable connector static white strip
- FS-ICBI-9645S-SSC Strip to strip connector for static white strip



Recommended Power Supplies

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



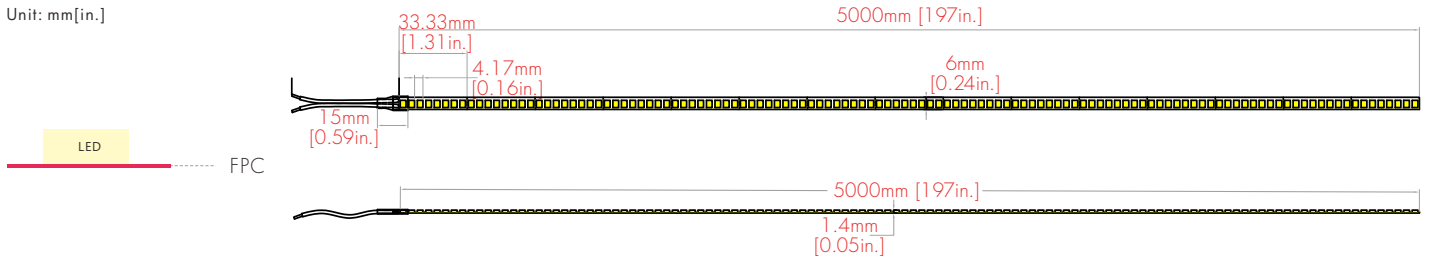
Item Number	Description	Max/Min Load	Input Voltage	Output Voltage	Dimmable	Dimensions
PS-TSLC-UNV-24V-30WDHV2	30W	30W / 3W	100-277V AC	24V DC	Yes*	6.49"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-60WDHV2	60W	60W / 6W	100-277V AC	24V DC	Yes*	7.4"L x 3.6"W x 1.02"H
PS-TSLC-UNV-24V-96WDHV2	96W	96W / 9.6W	100-277V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

LED Flexible Strip

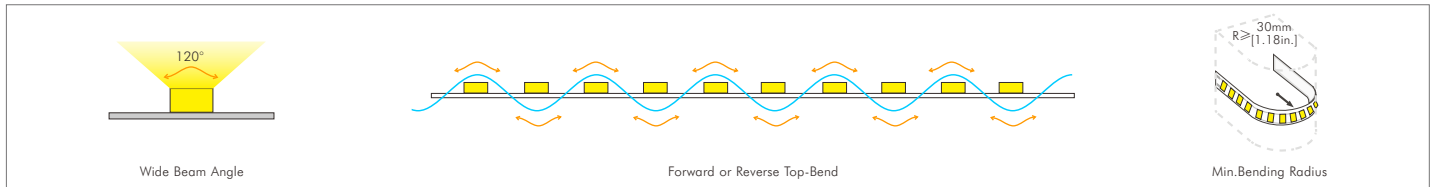
Diagram & Dimension



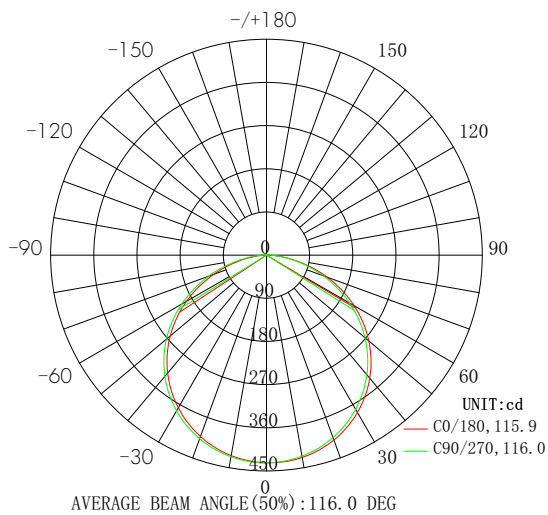
Unit: mm[in.]



IP20 (Dry)



Light Distribution Diagram



Flux out: 964.1 lm

Height	Eavg, Emax	Angle: 115.94deg	Diameter
1m	119.8, 432.9lx		319.69cm
2m	29.96, 108.2lx		639.38cm
3m	13.31, 48.10lx		959.06cm
4m	7.489, 27.06lx		1278.75cm
5m	4.793, 17.32lx		1598.44cm
6m	3.329, 12.03lx		1918.13cm
7m	2.445, 8.835lx		2237.82cm
8m	1.872, 6.764lx		2557.50cm
9m	1.479, 5.344lx		2877.19cm
10m	1.198, 4.329lx		3196.88cm

Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

ICBI-6945S, 4000K, IP20 (Dry)