LIGHT STRIP – Ultra Long Series

LS-UTL-48V-20M-12MM-RGB

Feature

- Plus Series uses top-quality materials such as Epistar/San'an chips, Intermatix phosphor powder, ShinEtsu & Dow Corning glue, Heraeus 99.99% pure gold wire, pure copper, and fresh plastic as standard configuration.
- Very uniform brightness and consistent color across the entire run length, up to 25 m (82 ft), with power fed from one side.

Applications

- Indirect architectural lighting
- Contour lighting
- Corridors and stairways
- Ceilings and coves
- Handrails and skirting
- Barriers
- Gardens and bridges
- Lifts (elevators)
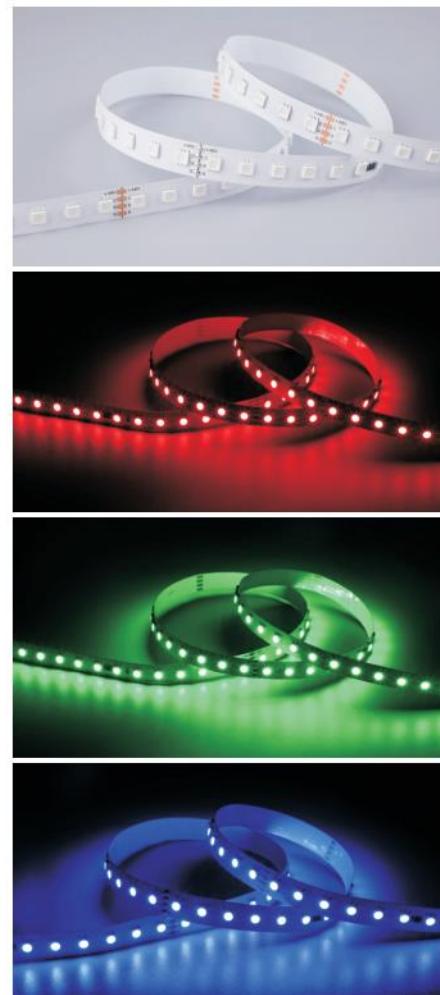
Specification

Part No.	Dimension	Colour	Style	Voltage	Power	Brightness	CRI	Increment	Max Run	IP Rating	Beam Angle
LS-UTL-48V-20M-12MM-RGB	L20000*W12*H1mm	RGB	SMD	48Vdc	10W/M	400lm/m	Ra≥90	166.7mm	25m (1 Side) 50m (2 Side)	IP20	120°
LS-UTL-48V-20M-12MM-RGB-IP67	L20000*W12*H1mm	RGB	SMD	48Vdc	10W/M	380lm/m	Ra≥90	166.7mm	25m (1 Side) 50m (2 Side)	IP67	120°

Parameter

General Parameters		Photoelectric Parameters	
Standard Length	(15/25)M [(49.2/82)ft.] (power fed on one side) (30/50)M [(98.4/164)ft.] (power fed on two sides)	Power±10%	(15.6/10)W/M [(4.76/3.05)W/ft.]
Min. Unit & LED QTY	166.7mm [6.56in.] & 13LEDs	Input Voltage	48VDC
LED Type	SMD5050 RGB	LED Current	(54/35)mA/LED & (18/12)mA/color
LED QTY	78 LEDs/M [23 LEDs/ft.]	LED CCT & Wavelength	R:625~630nm, G:520~525nm, B:460~470nm
PCB Type	3oz white FPC, OSP	SDCM	\
Operating Ambient	Ta(working): -20~45℃ [-4~113°F] & Tstg (storage): -20~60℃ [-4~140°F]	CRI	\
Warranty	5 years	Beam Angle	120°
Lifespan	\	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. Dimension and optical parameters such as lumen flux, CCT, etc. of the waterproof product may vary compared with the IP20 version.
2. 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.
3. 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 is 95%.
4. Applying with extra heat sink is not necessary with self-cooling capacity.
5. For North American market, the product with 48VDC input is only suitable for dry & damp location application, but not wet location application, according to the norm of UL2108.
6. 3M 300LSE yellow adhesive tape on backside, is standard configuration.
7. One end of 200mm AWG22 brown/green/red/blue silicon cable or waterproof connector kit according to specific IP rating, is standard configuration.
8. Transparent reel and silvery ESD bag, are standard configuration.
9. Installation accessories such as clip, screw, plug etc. are optional base on specific demand.
10. Power maintenance rate=actual measured power in a certain length/(a same certain length*actual measured power in 1M[3.28ft.] length). Brightness maintenance rate=actual measured brightness of the tail section in a certain length/actual measured brightness of the first section in a same certain length. (Generally, there are few cases of full power operation for mixed colour like RGB/RGBW/RGBCC/RGBWCCT)

Dimensions and Diagrams
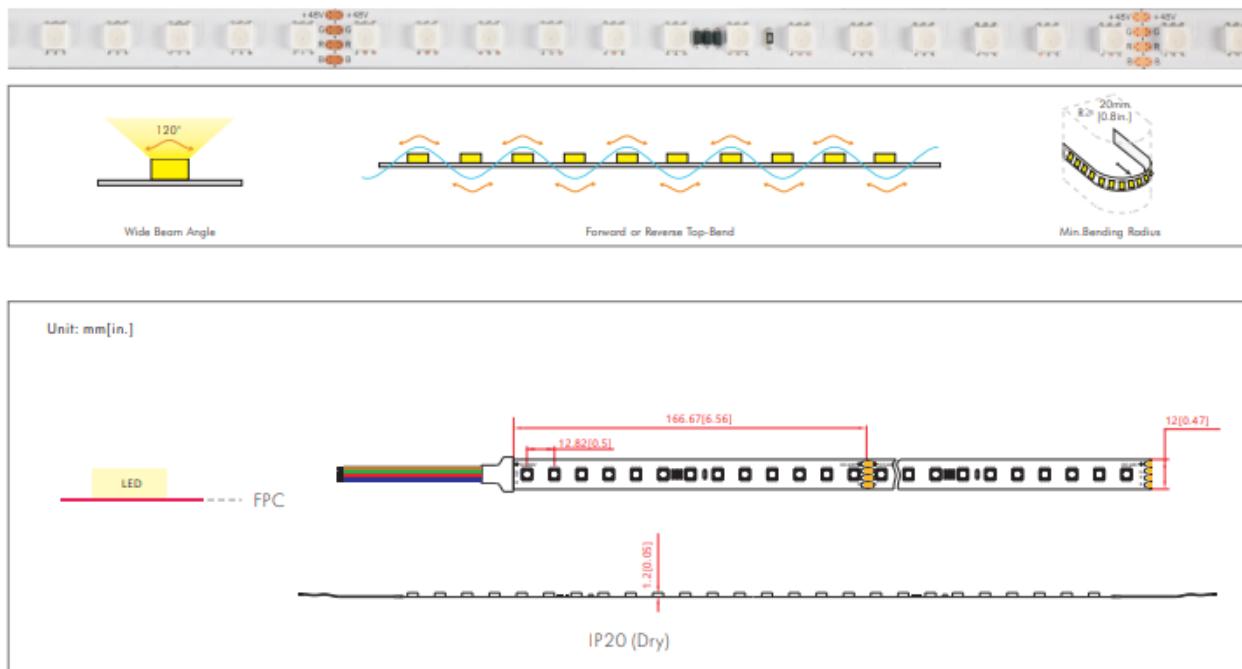
Document Revision

Revision	Description	Date	Author	Approver
1.0	Initial release	12th January 2026	Jesse Jankelowitz	Michael Xu