

## Ultra-Long High-Efficacy Series

160lm/W

## LED Flexible Strip

### Features

The ULHE Series is a flexible, efficient, highly customizable LED Strip. At 3.8 or 6.1 watts per foot, and 160 lumens per watt, the ULHE boasts both high efficacy and high CRI with 73 LEDs per foot, creating high output with a lower power consumption. High density of LED array with constant current IC on board for uniform, dot-free linear lighting performance. The ULHE offers maximum customization with multiple channel options and a segment length of only 1.31 inches. Standard color temperatures available and IP20 rated.

UL and CE with a 5 year-warranty.

### Applications

The ULHE is engineered for indirect lighting in architectural contours, corridors, stairways, ceilings, coves, handrail, skirting, barriers, gardens, bridges, and elevators; and suitable for countless other applications.



### Ordering Information

| MODEL         |         | COLOR |       | LENGTH     |                             | IP |      | VOLTAGE |            |
|---------------|---------|-------|-------|------------|-----------------------------|----|------|---------|------------|
| ULHE-9561S-38 | 3.8w/ft | 27K   | 2700K | 32.8<br>CU | 32.8' Reel<br>Custom Length | 20 | IP20 | 24      | 24 Volt DC |
|               |         | 30K   | 3000K |            |                             |    |      |         |            |
|               |         | 35K   | 3500K |            |                             |    |      |         |            |
|               |         | 40K   | 4000K |            |                             |    |      |         |            |
|               |         | 50K   | 5000K |            |                             |    |      |         |            |
|               |         | 65K   | 6500K |            |                             |    |      |         |            |

| MODEL         |         | COLOR |       | LENGTH     |                             | IP |      | VOLTAGE |            |
|---------------|---------|-------|-------|------------|-----------------------------|----|------|---------|------------|
| ULHE-9561S-61 | 6.1w/ft | 27K   | 2700K | 22.9<br>CU | 22.9' Reel<br>Custom Length | 20 | IP20 | 24      | 24 Volt DC |
|               |         | 30K   | 3000K |            |                             |    |      |         |            |
|               |         | 35K   | 3500K |            |                             |    |      |         |            |
|               |         | 40K   | 4000K |            |                             |    |      |         |            |
|               |         | 50K   | 5000K |            |                             |    |      |         |            |
|               |         | 65K   | 6500K |            |                             |    |      |         |            |

### Accessories

- FS-ULHE-9561S-WL Wire lead connector for static white strip
- FS-ULHE-9561S-JC Jumper cable connector static white strip
- FS-ULHE-9561S-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<br>(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

### Specification

| Part No.      | Dimension (L*W*H)                     | IP Rating     | Lumen Flux±10%<br>@CRI90&4000K&12.5W | Light Eff.<br>@CRI90&4000K&12.5W | Lumen Flux±10%<br>@CRI95&4000K&12.5W | Light Eff.<br>@CRI95&4000K&12.5W |
|---------------|---------------------------------------|---------------|--------------------------------------|----------------------------------|--------------------------------------|----------------------------------|
| ULHE-9561S-38 | 10000*10*1.75mm<br>[394*0.39*0.07in.] | IP20<br>[dry] | 2000lm/M<br>[610lm/ft.]              | 160lm/W                          | W                                    | W                                |

| Part No.      | Dimension (L*W*H)                    | IP Rating     | Lumen Flux±10%<br>@CRI90&4000K&20W | Light Eff.<br>@CRI90&4000K&20W | Lumen Flux±10%<br>@CRI95&4000K&20W | Light Eff.<br>@CRI95&4000K&20W |
|---------------|--------------------------------------|---------------|------------------------------------|--------------------------------|------------------------------------|--------------------------------|
| ULHE-9561S-61 | 7000*10*1.75mm<br>[276*0.39*0.07in.] | IP20<br>[dry] | 3200lm/M<br>[975lm/ft.]            | 160lm/W                        | W                                  | W                              |

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

(2) Energy efficiency class of regulation (EU) 2019/2020 is D[CRI90] for 4000K in IP20, it varies depending on CRI, CCT and IP rating.

| General Parameters  |                                                                                             | Photoelectric Parameters |                                                                                |
|---------------------|---------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------|
| Standard Length     | 10M[32.81ft.]@12.5W/M [power fed on one side]<br>7M[22.97ft.]@20W/M [power fed on one side] | Power±10%                | 12.5W/M [3.8W/ft.]@10M<br>20W/M [6.1W/ft.]@7M                                  |
| Min. Unit & LED QTY | 33.33mm [1.31in.] & 8 LEDs                                                                  | Input Voltage            | 24VDC                                                                          |
| LED Type            | SMD2835 white                                                                               | LED Current              | 17mA/LED@10M, 28mA/LED@7M                                                      |
| LED QTY             | 240LED/M [73LED/ft.]                                                                        | LED CCT & Wavelength     | 2700K&3000K&3500K&4000K&5000K&6500K                                            |
| PCB Type            | 4oz white FPC, OSP                                                                          | SDCM                     | ANSI Norm, 3 step 1 bin                                                        |
| Operating Ambient   | Ta(working):-20~55°C[-4~131°F] &<br>Tstg(storage):-20~60°C[-4~140°F]                        | CRI                      | Ra>90                                                                          |
| Warranty            | 5 years                                                                                     | Beam Angle               | 120°                                                                           |
| Lifespan            | L70≥50,000@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: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K/6500K is 5% lower, for CCT 5000K is 3% lower, compared with 4000K.

2: Transmittance for IP54 Plus is 95%, IP67 Plus is 90%.

3: Dimension, CCT and lumen flux etc. of waterproof type will be different, compared with IP20 type.

4: For 20W/M, applying with extra heat sink for cooling is mandatory.

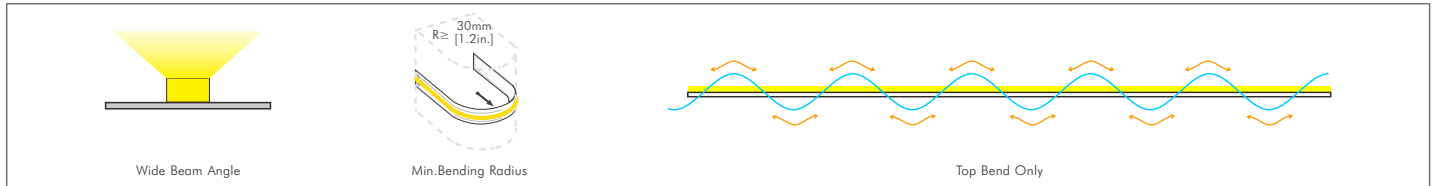
5: 3M 300LSE yellow adhesive tape attached on backside, is standard configuration of Prime Series.

6: One end of 200mm[7.87in.] AWG18 red/black silicone cable or waterproof connector kit according to specific IP rating, is standard configuration of Prime Series.

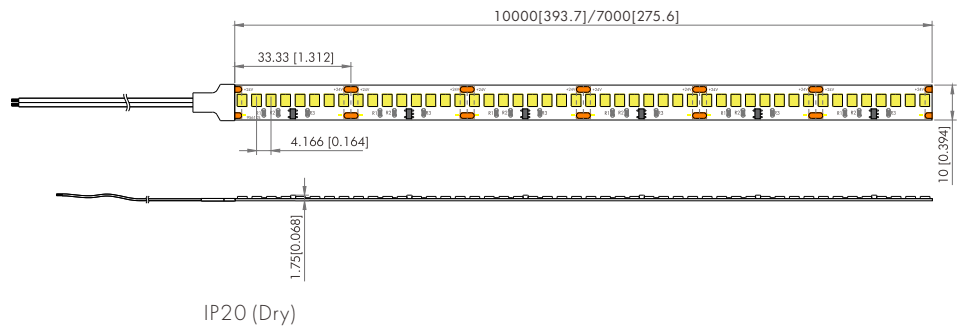
7: Paper reel and white paper ESD bag, are standard configuration of Prime Series.

8: Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.

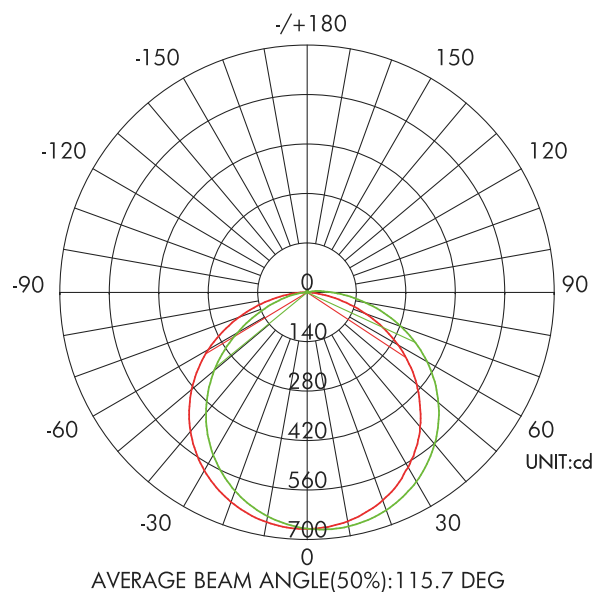
## Dimensions



Unit: mm[in.]



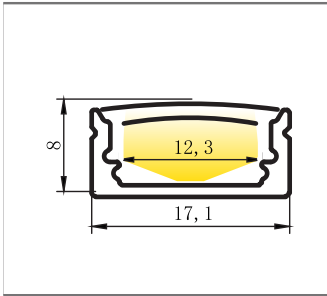
## Light Distribution Diagram



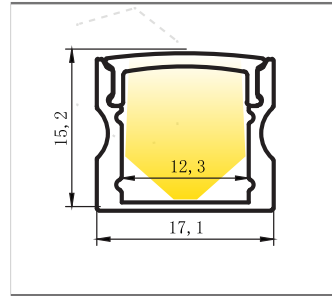
— C0/180,115.5 Ic=669.7  
— C90/270,115.8 Ic=673.8

### Channel

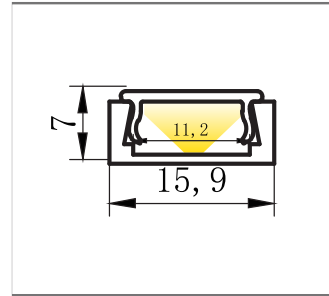
For additional details, please refer to channel catalog.



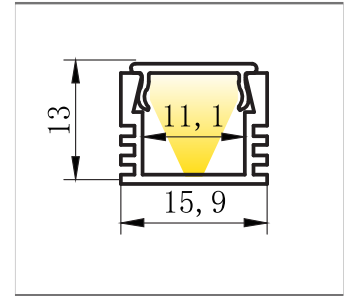
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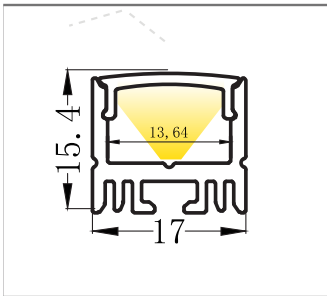
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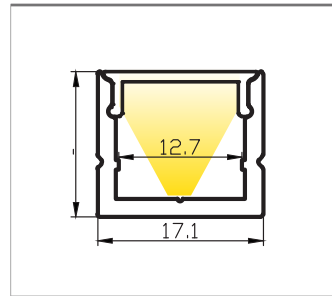
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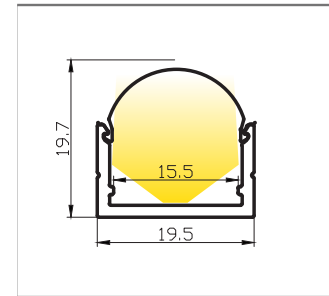
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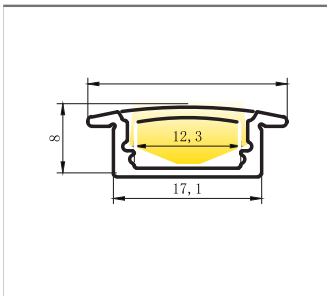
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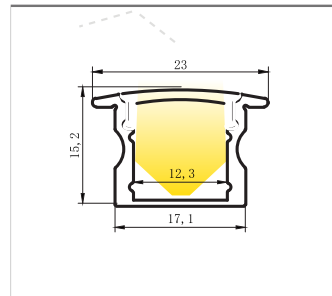
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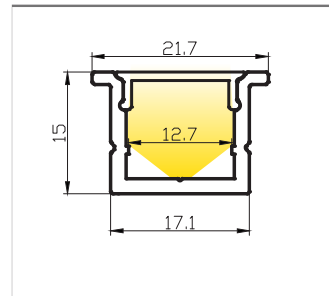
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