



# Product Specification

## COB LED Flexible Strip

FLCOB-CV24480-P10Bule

| Made by | Checked by | Date       | Product   |
|---------|------------|------------|-----------|
| Ada     | Rongwei Li | 2020.06.22 | Led strip |





**COB LED strip is designed for spots-free led linear lighting, suitable with any kinds of led profile and silicon tube.**

## Feature

1. dots-free with uniform lighting
2. Efficacy Lumen upto 120lm/watt
3. Cuttable and solderless connection with crystal connector



Blue

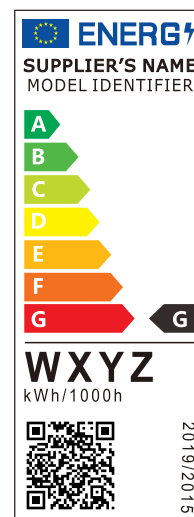
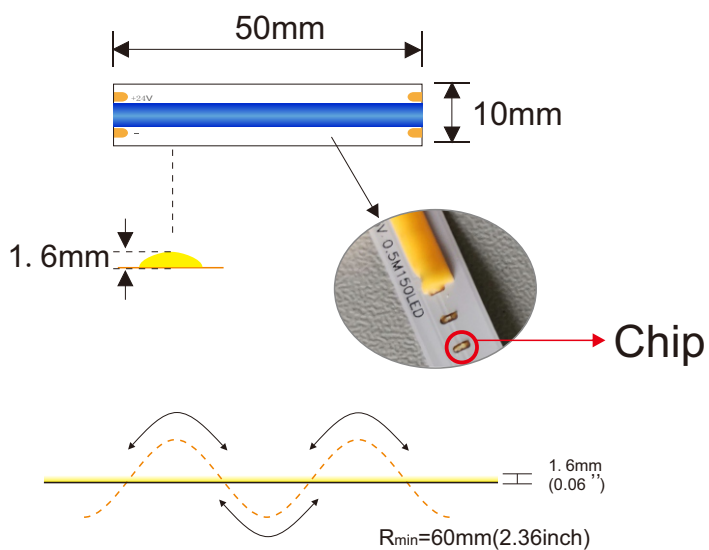
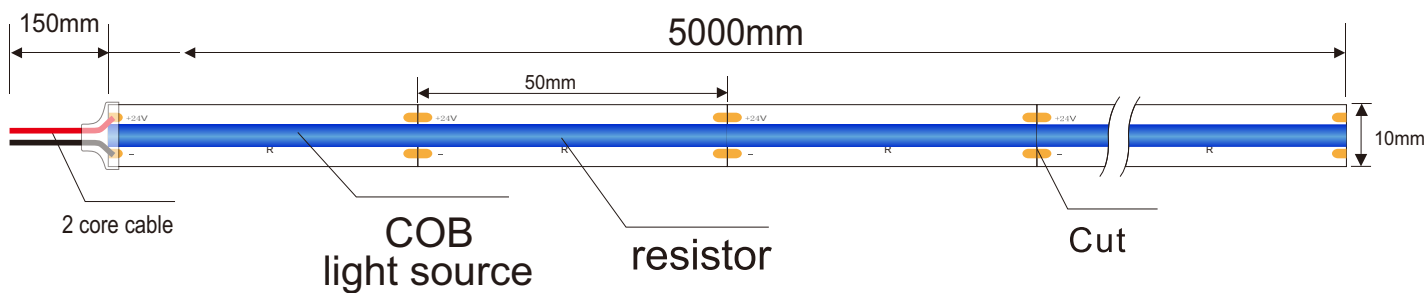


## Light Source

|                   |                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------|
| wire inside chips | 99.99% purity golden (1.0um or above diament)                                                    |
| chip size         | big size chip with high output lumen                                                             |
| phosphor powder   | Mitsubishi or Intermatrix phosphor powder                                                        |
| chip brand        | Epistar or brand chip                                                                            |
| LED lead frame    | 100% purity copper LED lead frame                                                                |
| PCB               | 35U cooper PCB/ double side PCB/ back side of PCB is protection layer                            |
| Bin code          | one order, one small BIN Code only, and ledhome can promise you sereral orders from same one Bin |
| 3M tape           | 300P genuine 3M tape /3M VHB tape                                                                |
| age testing       | ledhome strip take at least 8hours aging-test                                                    |
| QC Checking       | 3 times QC checking(SMT + PCB jointing+ after aging testing) before packing                      |



## Dimension:



## Basic Parameter:

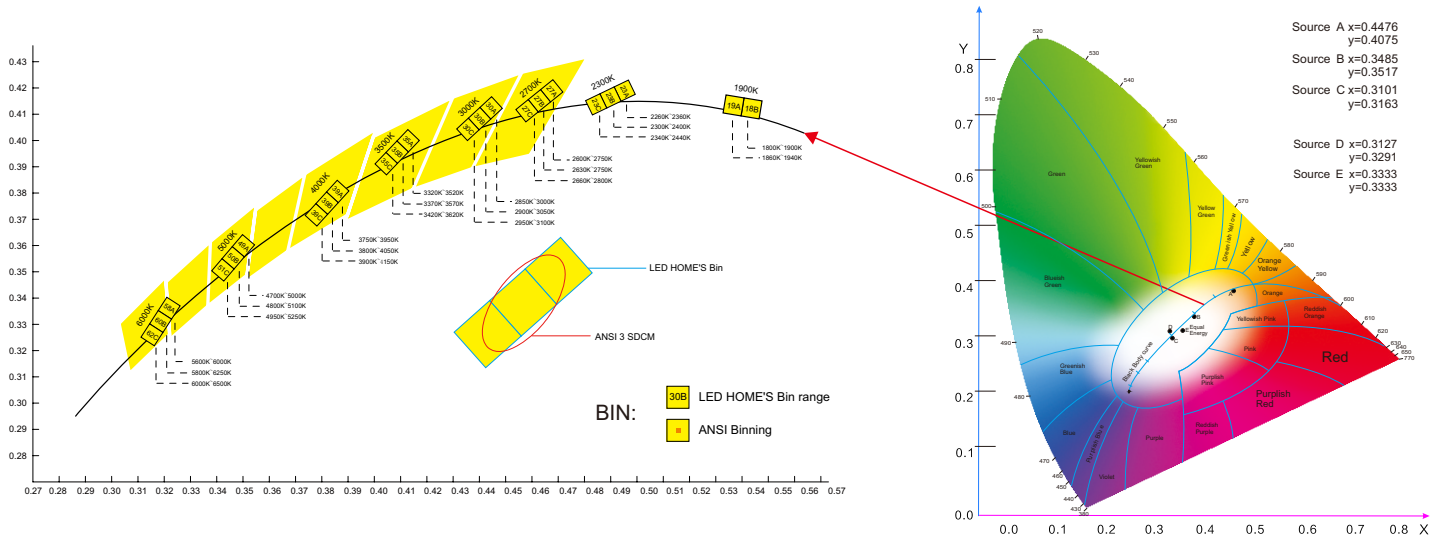
| P/N                       | LED QTY<br>(PCS/M) | Votage | Power<br>W/m | Color | PCB size<br>(mm) | Lumen<br>lm/w | Lumen<br>CRI>80 | Energy efficiency<br>class (IP20) |       |
|---------------------------|--------------------|--------|--------------|-------|------------------|---------------|-----------------|-----------------------------------|-------|
|                           |                    |        |              |       |                  |               |                 | Ra>80                             | Ra>90 |
| FLCOB-CV24480-<br>P10Blue | 480                | CV24V  | 10W          | Blue  | 10               | /             | /               | G                                 | G     |

All above parameters were given based on naked strip without additional heat sink.

## Product Parameters

### Spectroscopic standard

Ensure customers to get the same bin for different orders by using CIE(X,Y) coordinate spectrometer



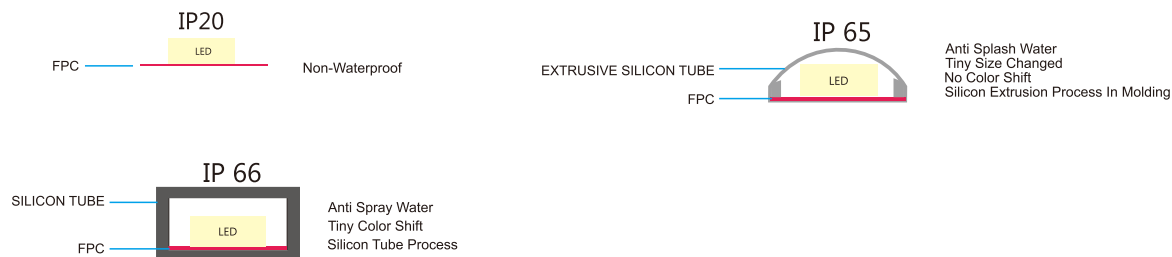
## Product Specification

|                        |                            |                         |                              |
|------------------------|----------------------------|-------------------------|------------------------------|
| Item:                  | COB led strip              | Driver:                 | External led driver          |
| Qty Chips:             | 480chips/m                 | Mains voltage (V):      | DC 24V                       |
| Color:                 | Blue                       | Control gear type:      | CONSTANT VOLTAGE DRIVER      |
| PCB width:             | 10mm                       | Ref:                    | MEANWELL                     |
| Light controller type: | 0-10V/1-10V/DMX/DALI/Triac | Emergency availability: | /                            |
| Light Decay:           | 2% @ 6000Hours             | Chip:                   | Epistar or other brand chips |
| Operating Temperature: | -25~45 degree              | Light emission:         | 180°                         |
| Lifetime:              | (Lm80) 50000 HRS @45degree | Deviation (SDCM):       | 3step MacAdam ellipse        |
| Mounting:              | 3M adhesive tape           | BIN:                    | ONE BIN Only                 |
| Max running length:    | 10meter (two side feed)    | Warranty:               | 5 years                      |
| Luminaire in:          | CLASS II/III               |                         |                              |

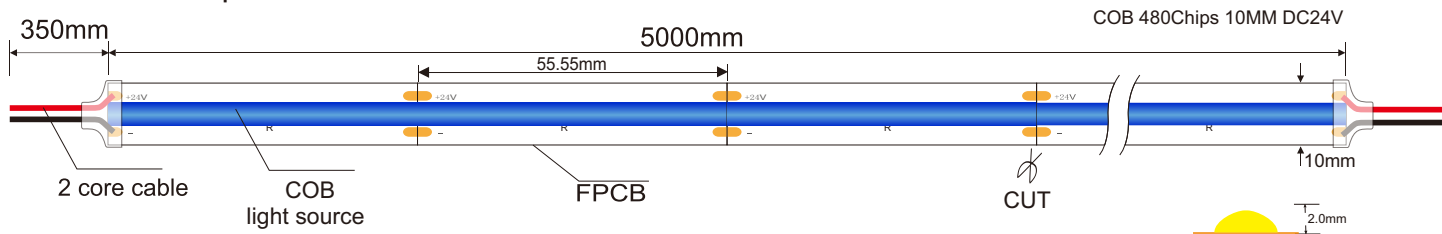




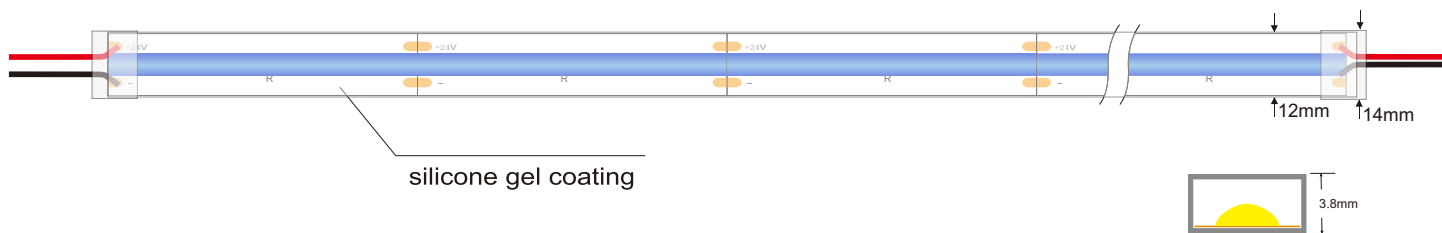
## IP Rate Drawing:



## COB 480Chips 10MM DC24V IP20



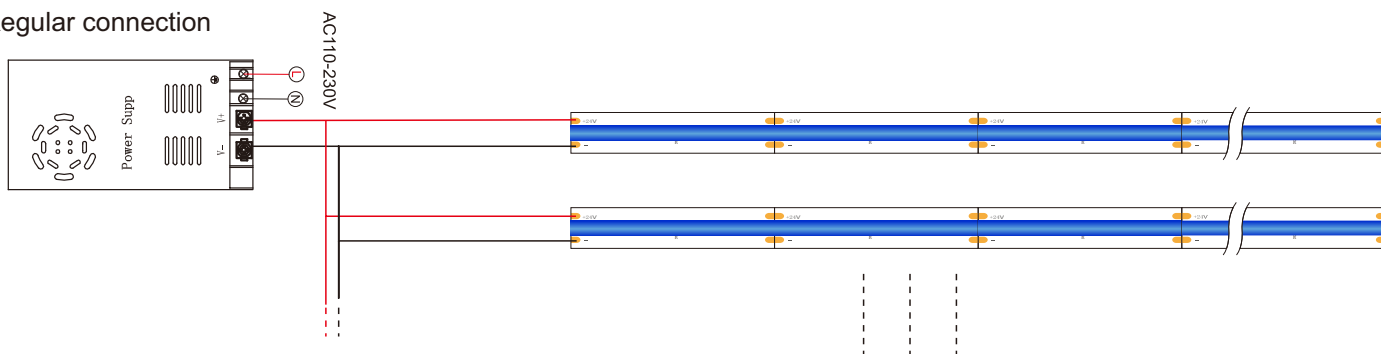
## COB 480Chips 10MM DC24V IP65/IP66



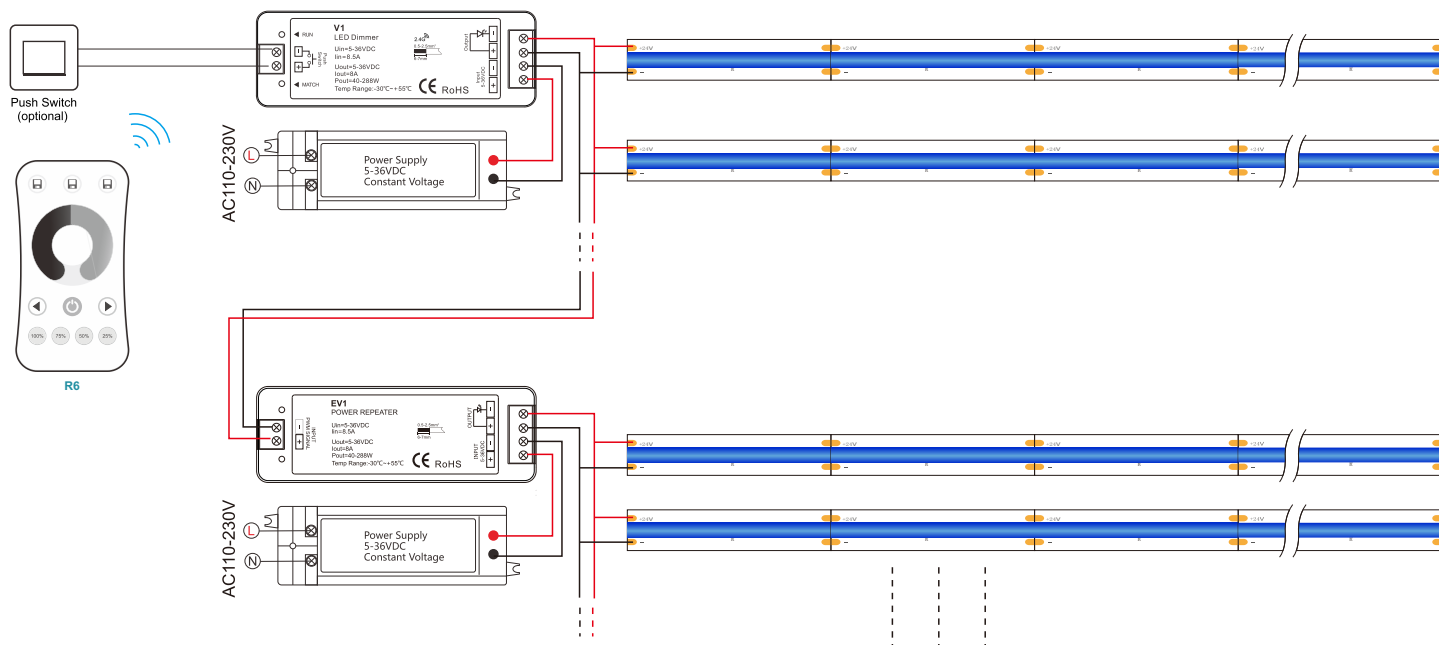


## Installation Diagram:

### 1. Regular connection

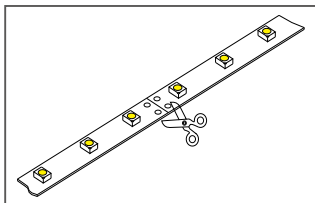


### 2. connection with dimmer

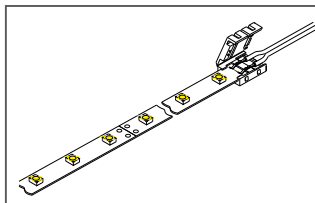




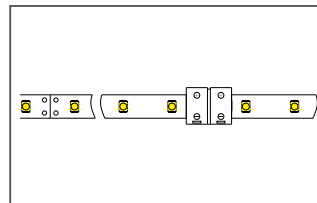
## Installation:



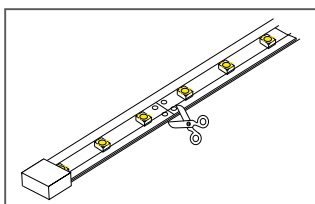
1. Cut in specific location



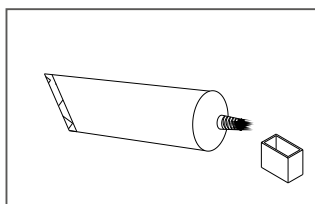
2. Put the PCB in the space between clip and connector, make the clips exactly aim at welding point



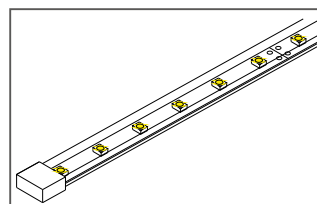
3. Close the cover of connector



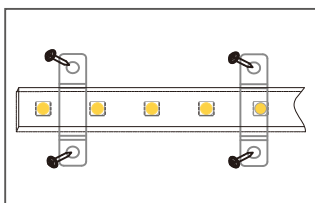
1. Cut in specific location



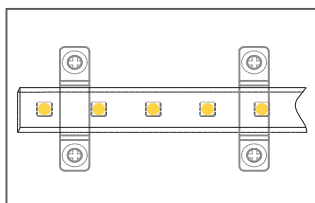
2. Infuse the gel in the end cap



3. connect the end cap and wait for air drying

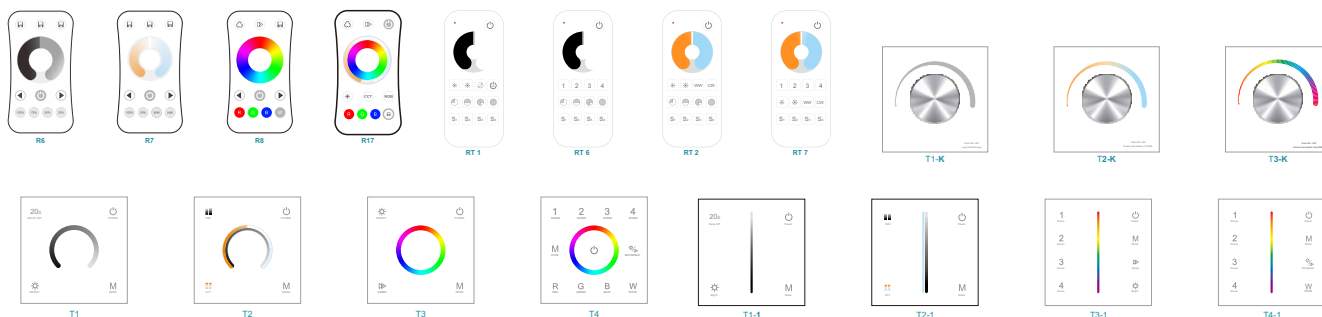


1. Install with clips



2. Fix with screws

## Accessories:

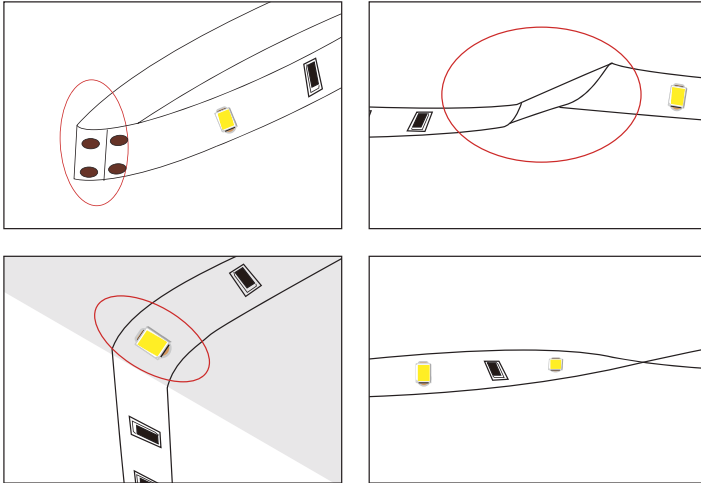




## Cautions

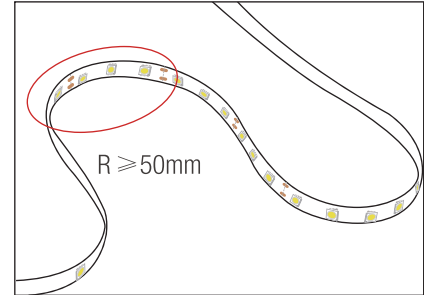


When install the led strip, please note the installation technique. The led strip can be bent, but not distorted, as shown below.



Distortion(Wrong)

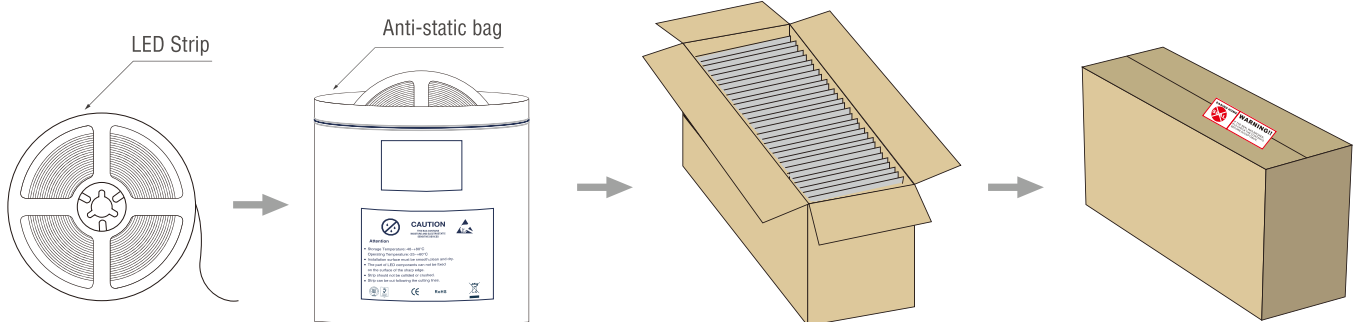
LED strips are low voltage products, you must use the power supply(transformer). Please don't connect the led strip directly to the AC 110v or AC 220v, otherwise it will burn out the LED strips.



Bend(Right)

Clean up the installation surface, it will ensure the reliability of the adhesive. The electrical connection process must be operated by a professional person.

## Packing:



## Notice:

- 1、 Please apply different IP rate products according to different environment conditions;
- 2、 Adopt suitable power supply to match the LED strips. Power is 20% bigger than max power of LED strips to ensure long time performance of power supply;
- 3、 Do not install it when power is on. Before powering on, please make sure the wiring is correct;
- 4、 Avoid privately changing or damaging the circuit or other component on the strip;
- 5、 Avoid scrape or bending during installation, it might be damaged with non repairable status;
- 6、 Strip linked in over long length would lead to problem of overload or uneven brightness;
- 7、 To protect your eyes, do not stare at the light for a long time while it's illuminated;
- 8、 Only professional personnel can install, dismantle and repair;
- 9、 Choose different connectors and controllers according to your different strip.