



## COB DC24V 480V 4MM 7W/M Datasheet

Model No :

- 1) ST-LD-COB-84150-7W-27K-IP20-480
- 2) ST-LD-COB-84151-7W-3K-IP20-480
- 3) ST-LD-COB-84152-7W-4K-IP20-480



COB DC24V 480V 4MM 7W/M

Picture:



Key Features :

- ❖ Light distribution uniform, 180° beam angle
- ❖ Cuttable along the mark line
- ❖ CE, RoHS certified, UL listed
- ❖ Protection: IP20

Application :

For interior decoration lighting, frequently used in KTV, shopping mall, cabinet lighting to highlight the lines and shapes.

Warranty : 3 years

Part Number & Meaning

|    |     |                                                   |    |     |     |    |   |    |
|----|-----|---------------------------------------------------|----|-----|-----|----|---|----|
| LD | FV  | 24                                                | 04 | 480 | COB | 07 | 9 | 30 |
| 1  | 2   | 3                                                 | 4  | 5   | 6   | 7  | 8 | 9  |
| 1  | LD  | LED Domain                                        |    |     |     |    |   |    |
| 2  | FV  | FV: Constant Voltage FC: Constant Current FS: Set |    |     |     |    |   |    |
| 3  | 24  | Voltage: 12: 12V 24: DC24V                        |    |     |     |    |   |    |
| 4  | 04  | Width: 04: 4mm 05: 5mm 08: 8mm 10: 10mm 12: 12mm  |    |     |     |    |   |    |
| 5  | 480 | Chips/M 480:480 Chips.....                        |    |     |     |    |   |    |
| 6  | COB | Chip Package COB.....                             |    |     |     |    |   |    |
| 7  | 07  | Wattage 07: 7W .....                              |    |     |     |    |   |    |
| 8  | 9   | CRI 8: 80; 9: 90.....                             |    |     |     |    |   |    |
| 9  | 30  | CCT 30: 3000.....65: 6500K.....                   |    |     |     |    |   |    |

Parameters:

| PN                                | LED | CCT ( K ) | CRI | Beam Angle | LEDs/m | Lumens (lm/m) | Voltage | Current (mA/m) | Power (W/m) | FPC Width | Cut Length | Max Run |
|-----------------------------------|-----|-----------|-----|------------|--------|---------------|---------|----------------|-------------|-----------|------------|---------|
| <u>ST-LD-COB-xxxx-xW-xxK-IP20</u> | COB | 2700      | 90  | 180°       | 480    | 525           | 24V     | 0.291mA        | 7W          | 4mm       | 50mm       | 5m      |
|                                   |     | 3000      |     |            |        | 560           |         |                |             |           |            |         |
|                                   |     | 4000      |     |            |        | 630           |         |                |             |           |            |         |

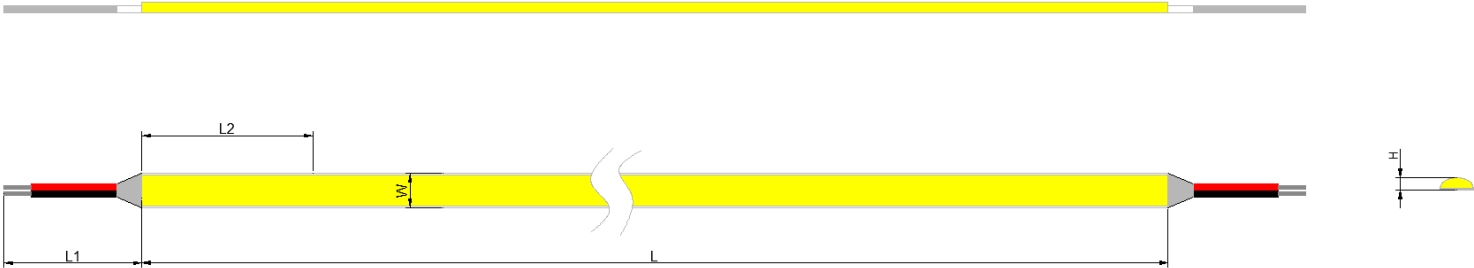
Other Specifications:

| PN                                | Protection Grade | Working Temperature (°C) | Storage Temperature (°C) | Meter/Reel | Max Run(m) | LED QTY. (pcs/m) |
|-----------------------------------|------------------|--------------------------|--------------------------|------------|------------|------------------|
| <u>ST-LD-COB-xxxx-xW-xxK-IP20</u> | IP20             | -25~+60                  | -25~+70                  | 5          | 5          | 240              |

Notes:

- 1. Physical specifications according to 4000K@CRI90 under 25±2°C ambient temperature test.
- 2. Product working temperature is -25~60°C and the storage temperature is -25~70°C
- 3. The listed is the typical value, actual value may differ; changes may be made without notice.
- 4. Please refer to the actual for unlisted CCT.
- 5. Tolerance for Power, Luminous Flux, Efficacy is ±10%.

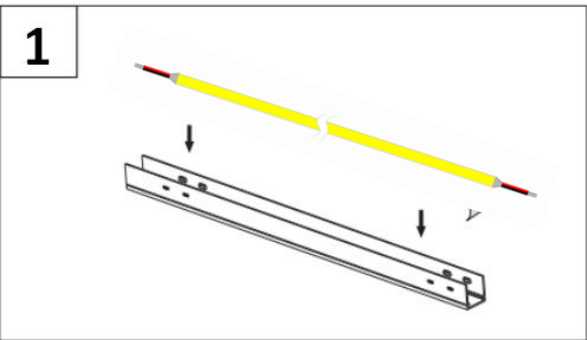
Dimensions:



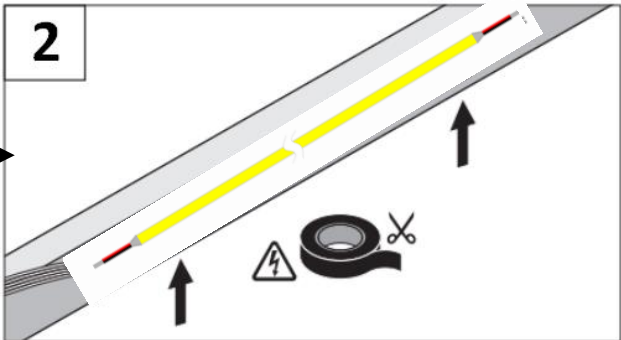
| PN                                | Picture | COB Strip L(mm) | Cable L1(mm) | Cutting L2(mm) | H(mm) | W(mm) |
|-----------------------------------|---------|-----------------|--------------|----------------|-------|-------|
| <u>ST-LD-COB-xxxx-xW-xxK-IP20</u> |         | 5000±20         | 150          | 50             | 2     | 4     |

**Installation Guide:**

Tear off adhesive tape and stick it into the profile

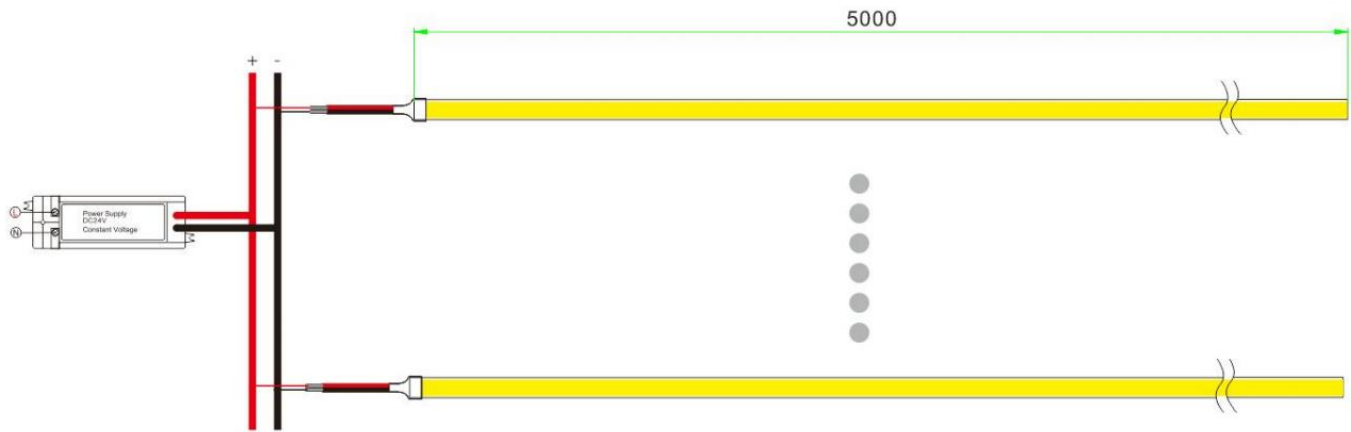


Make insulation process at both ends

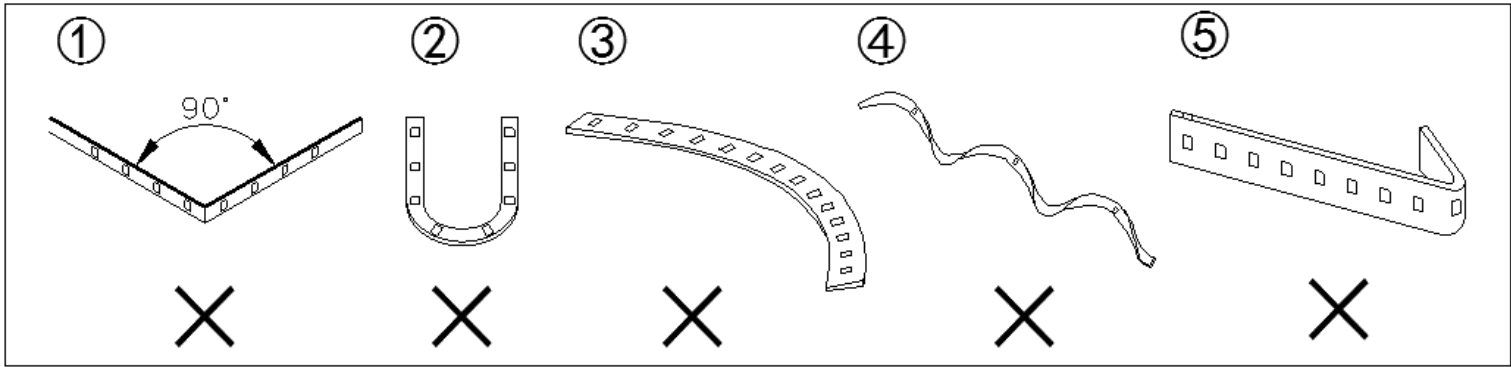
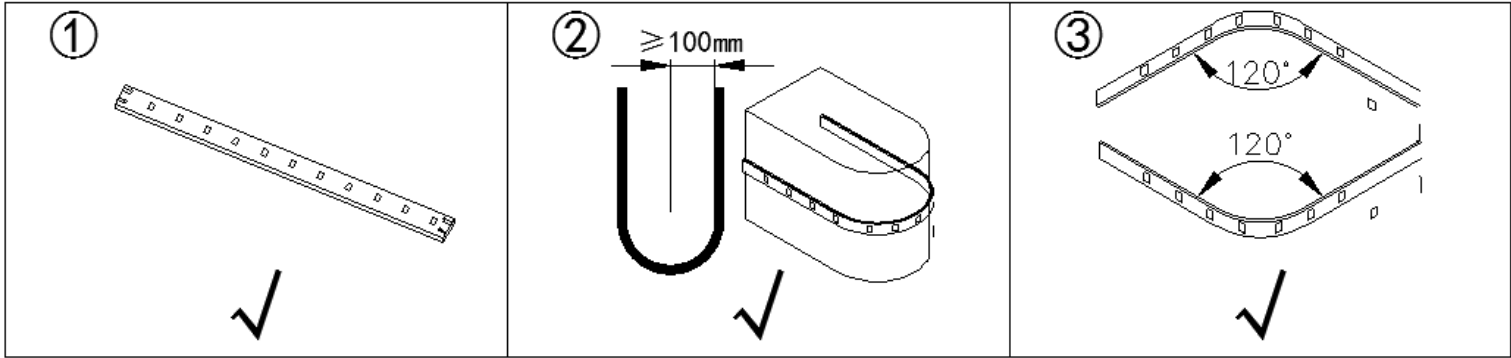


**Electric Wiring Diagram:**

Connection: Driver+COB Strip



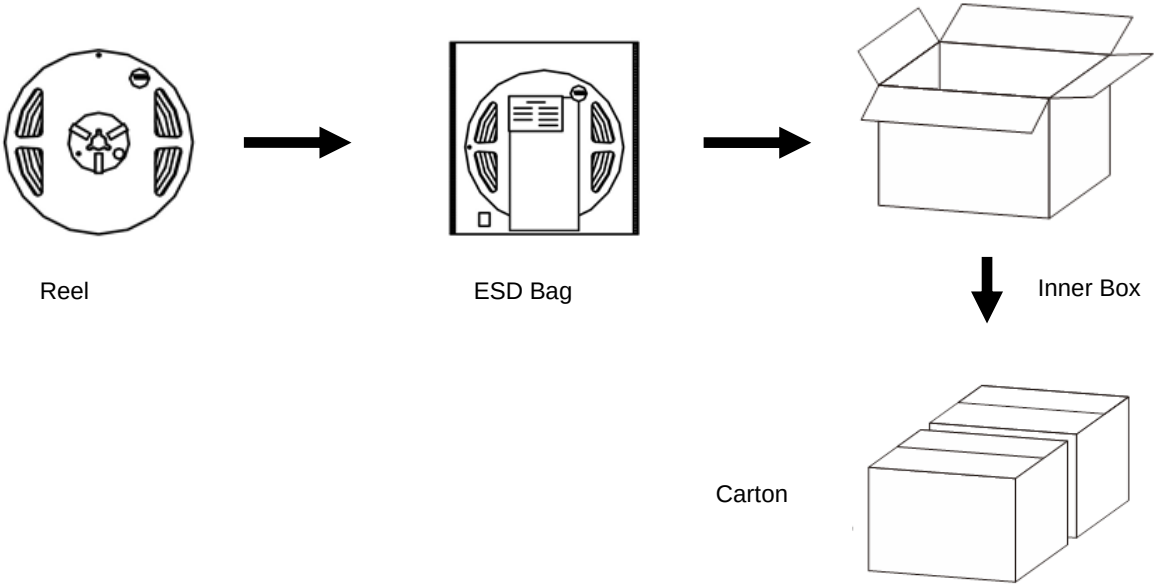
Installation Guide:



Note: During bending operation, please use the above icon standard operation. If the bending angle is too small or the operation is not standardized, it will cause defects inside the product.

Package:

| Series | PN                                | M/Reel (m) | QTY/CTN(m) | G.W. (Kg) | Dimensions (mm) |     |     |
|--------|-----------------------------------|------------|------------|-----------|-----------------|-----|-----|
|        |                                   |            |            |           | L               | W   | H   |
| IP20   | <u>ST-LD-COB-xxxx-xW-xxK-IP20</u> | 5          | 400        | <20       | 480             | 370 | 430 |



**Troubleshooting:**

| Problem                            | Possible Cause                                                                                     | Solution                                                                                                                                                                                                                                                                       |
|------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Won't turn on                      | 1. No power connection.                                                                            | Connect to power.                                                                                                                                                                                                                                                              |
|                                    | 2. The power supply automatically switches off when the load exceeds the limit or short-circuited. | Troubleshoot and reconnect to power.                                                                                                                                                                                                                                           |
|                                    | 3. Power supply terminal polarity not match that of the light strip.                               | Check and make sure polarity is matched throughout the setup.                                                                                                                                                                                                                  |
| Sections of light won't turn on    | 1. Part of the switching power supply is not powered.                                              | Find out the cause and troubleshoot.                                                                                                                                                                                                                                           |
|                                    | 2. Fault in the wire connected to sections of light strips.                                        |                                                                                                                                                                                                                                                                                |
|                                    | 3. Sections of light strip polarity mismatched.                                                    | Make sure polarity is matched throughout the setup.                                                                                                                                                                                                                            |
| Uneven brightness or light too dim | 1. The power supply is overloaded.                                                                 | Switch to a compatible power unit with higher wattage.                                                                                                                                                                                                                         |
|                                    | Voltage drop caused by individual resistors and lengthy wire in a series circuit.                  | Make sure the actual voltage of the light strip is within $\pm 5\%$ of the rated voltage.<br>1. Shorten the length of the light strip and the connecting wire or use thicker wire;<br>2. Make sure the length of the light strips in series is within the recommended max run. |
|                                    | 3. Continuously connected light strips exceeds the suggested max run.                              | Install the power supply between two strips or increase the power supply output wattage.                                                                                                                                                                                       |
| Light flickering                   | 1. Poor contact at connection point.                                                               | Make sure proper contact at all connection points                                                                                                                                                                                                                              |
|                                    | 2. Power supply failure.                                                                           | Replace the power supply.                                                                                                                                                                                                                                                      |



## Notice

- Installation shall be in accordance with local regulation and national electrical code .
- Repair work to be carried out exclusively by the manufacturer or a qualified personnel to avoid electric shock and damage.
- Installation and maintenance shall be performed by a qualified electrician.
- Original parts shall be used for maintenance and repair work to ensure compatibility and performance.
- If the luminaire is being subsequently modified , the person responsible for the modification shall be considered the manufacturer.
- Damage caused by improper use or application is not included in manufacturer liability.
- The final explanation right of the specification sheet belongs to Shenzhen Relight Technology Co., Ltd.