SPECIFICATION

Ultra Thin Series COB LED Strip

Model No.: UTFS-UTCOB480-2406

UT	FS	UT	COB	480	24	06
Unitop	**Flexible Strips**	**Product Series**	**LED Type**	**LED Qty/M**	**Voltage**	**PCB Width**
		Ultra Thin Series	COB LEDs	480 LEDs	DC24V	6mm PCB

4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

✓ Product Features:

- Big beam angle, no dark area, flexible line source with good heat dissipation.

- Ultra-thin/Super-narrow as 6mm width.

- Cutting length: 50mm.

- Inverted COB gold-free technology

- Ra>90, cuttable and re-connectable.

- IP Rate：IP20.

- CE/ROHS certification.

- Warranty: 3 Years

📐 Applications:

Widely used in hotels, shopping malls, furniture, cabinets, and shelves as decoration and direct

or indirect lighting.

⚙ Installation:

3M Adhesive tape, mounting clips, aluminum profiles.

4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

☀ Optical & Electrical：

Unitop Model No.	Color	CCT	CRI	View Angle	Lumen LM/M	Efficacy LM/W	Working Voltage	Current (mA/M)	Power
UTFS-UTCOB480-2406WW	Warm White	2700K	≥90Ra	180º	549	91.5	24VDC	250	6W/M
UTFS-UTCOB480-2406WW	Warm White	3000K	≥90Ra	180º	589	98.2	24VDC	250	6W/M
UTFS-UTCOB480-2406NW	Natural White	4000K	≥90Ra	180º	663.6	110.6	24VDC	250	6W/M
UTFS-UTCOB480-2406CW	Cool White	6500K	≥90Ra	180º	684	114	24VDC	250	6W/M

★ Other Features：

| Unitop Model No.	IP Rate	Working Environment	Storage Environment	Length	Max Connection	LED Qty (Pcs/M)	N.W/Roll
UTFS-UTCOB480-2406	IP20	−25~+45℃	−30~+80℃	4m	4m	480	57.5g

4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

📏 Dimension：
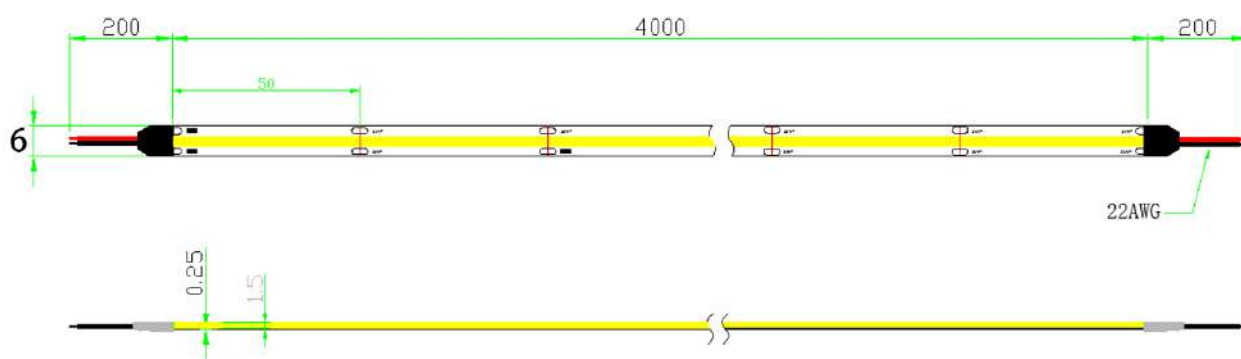
4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.
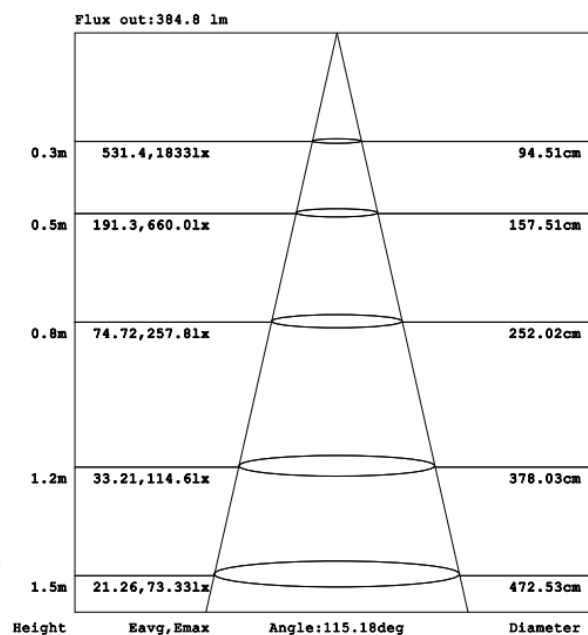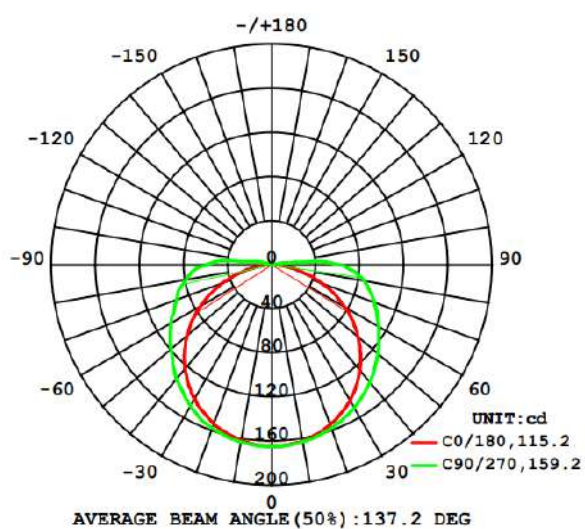
⚡ Electrical Principle

20groups/M
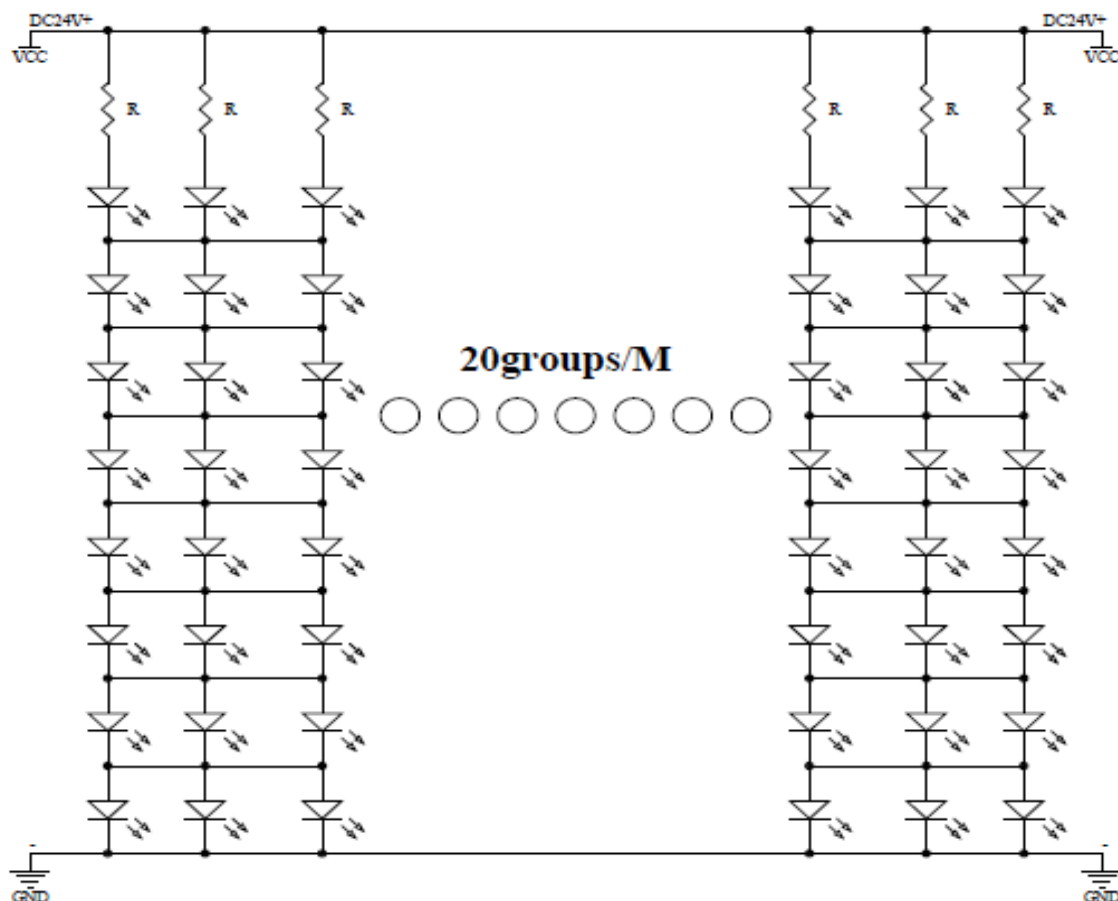
4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.
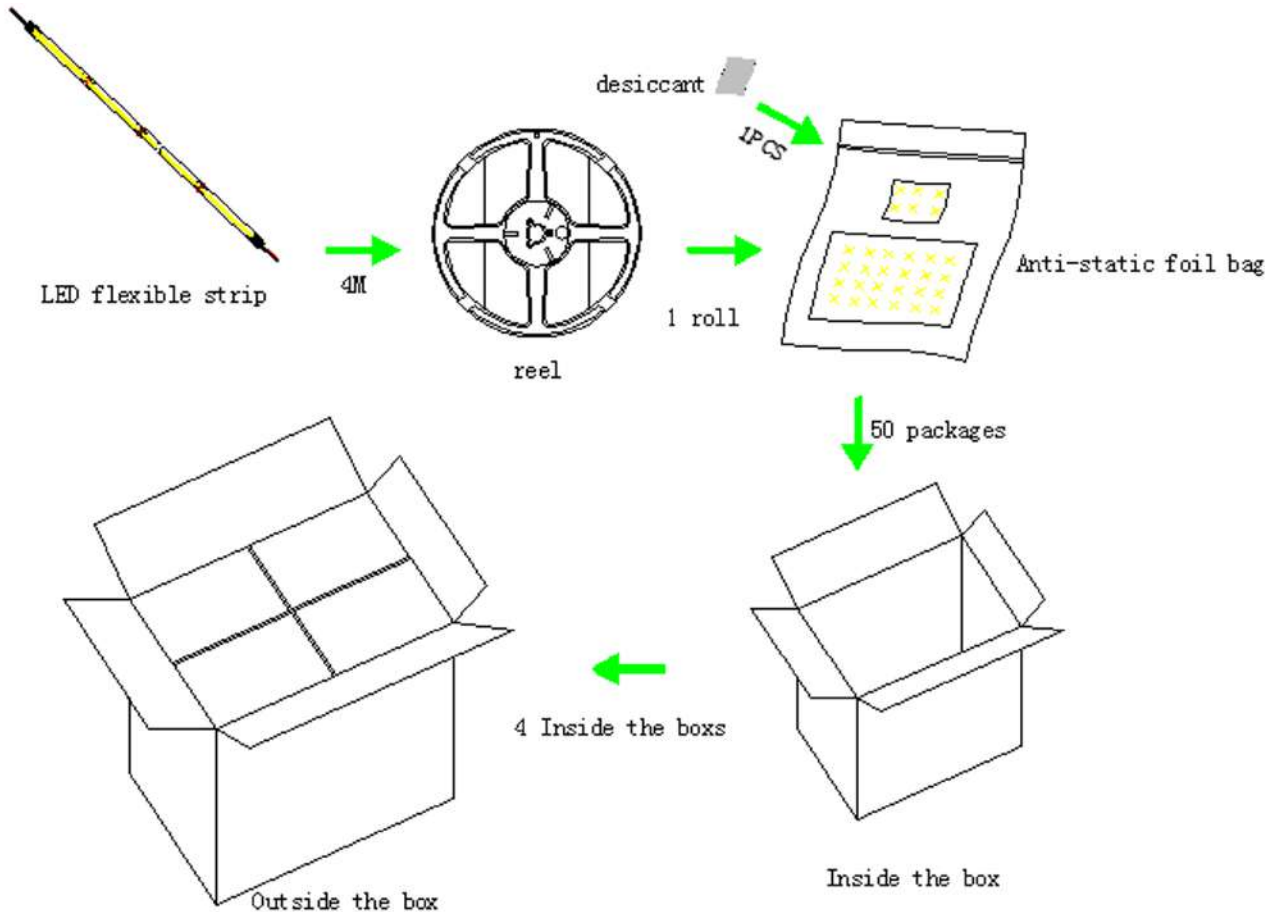
☀ Light Distribution Curve:

Flux out:384.8 lm

Height	Eavg,Emax	Angle:115.18deg	Diameter
0.3m	531.4,18331x		94.51cm
0.5m	191.3,660.01x		157.51cm
0.8m	74.72,257.81x		252.02cm
1.2m	33.21,114.61x		378.03cm
1.5m	21.26,73.331x		472.53cm

UNIT:cd
— C0/180,115.2
— C90/270,159.2

AVERAGE BEAM ANGLE(50%):137.2 DEG

4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

Packing Information:

desiccant

IPCS

LED flexible strip → 4M → reel → 1 roll → Anti-static foil bag

50 packages

4 Inside the boxs

Outside the box

Inside the box

Inner Box:

Qty: 50reels totally 200m strips. G.W.: 3.04kgs. Size: L303*W230*H260mm
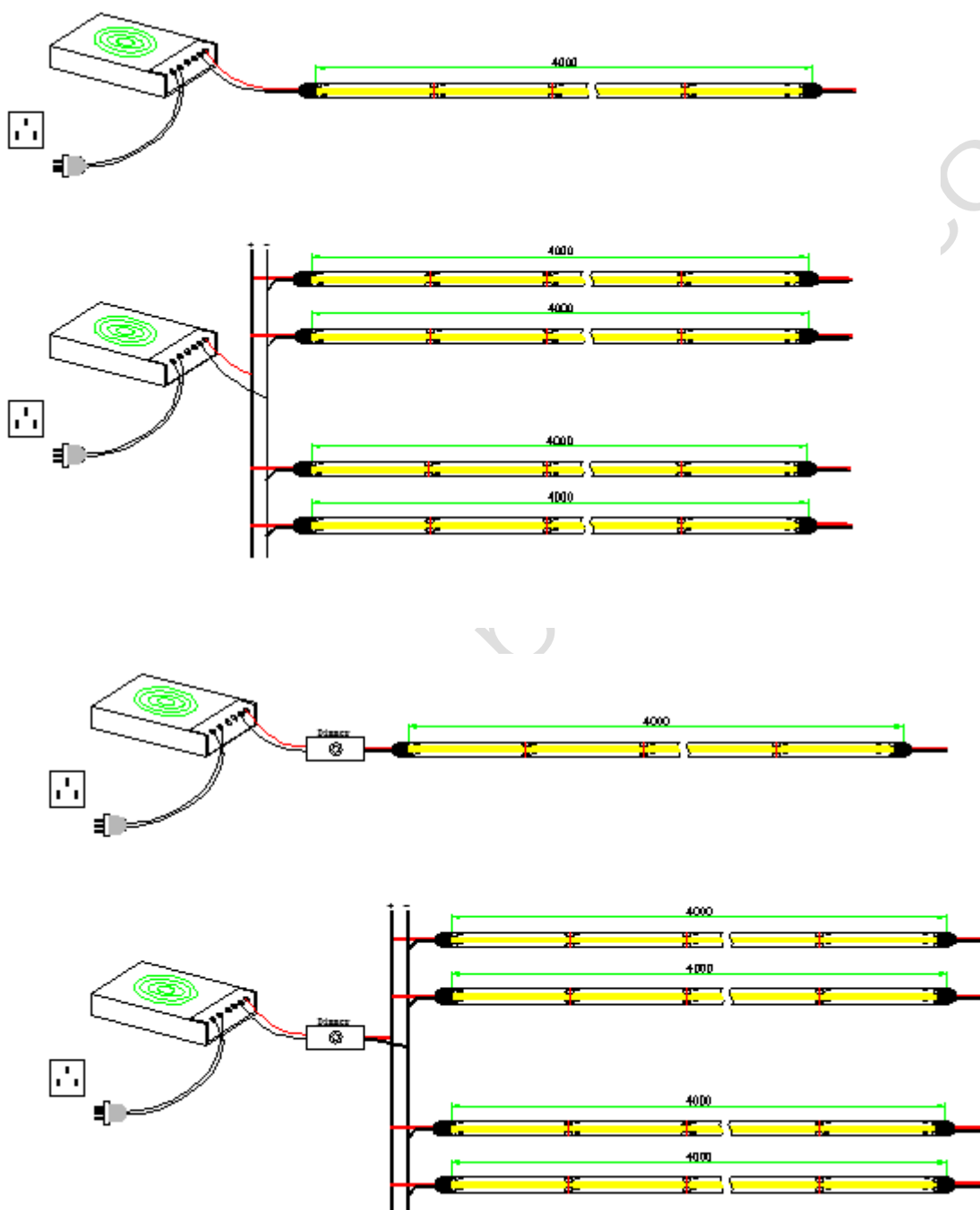
Outer Carton:

Qty: 4 inner boxes totally 800m strips. G.W.: 13.36kgs. Size: L620*W472*H280mm

4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

Schematic:

4M COB LED Strip-Ultra Thin Series

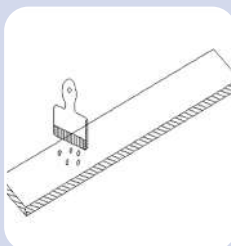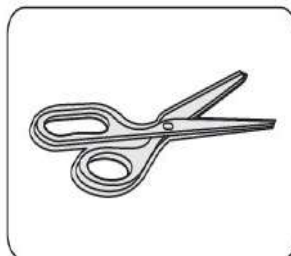480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

⚙ Installation Procedure:
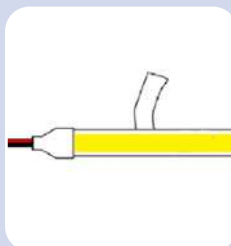
LED Strip
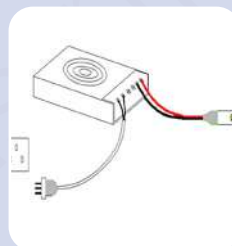
Scissor

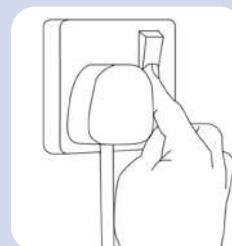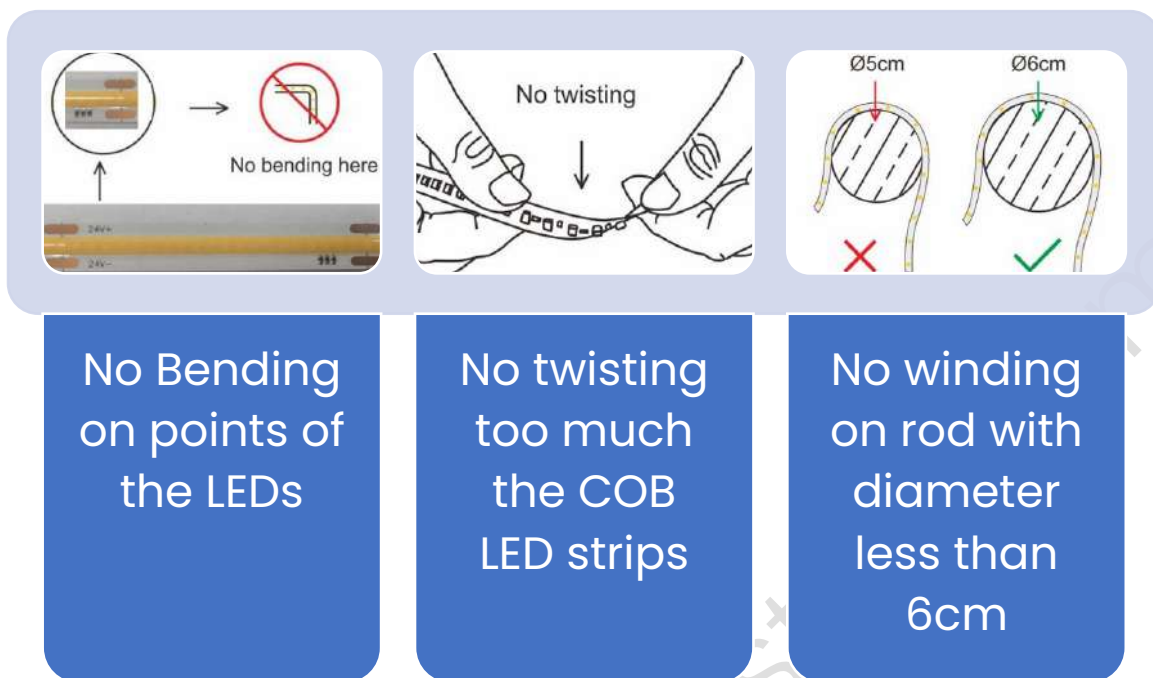|				
Clean the installation surface.	Measure the length you need to install, cut at the nearest cutting mark. For the remaining strip, weld at the next scissor mark to connect with other connection wire.	Do not pull the whole strip from the back release paper at one time. Do not hard press the LEDs.	Connect strip wire to the driver output side (Positive to positive, negative to negative.) Connect the driver plug to wall socket.	Switch on and enjoy.

4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

| No Bending on points of the LEDs | No twisting too much the COB LED strips | No winding on rod with diameter less than 6cm |

4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

⚙ Common Problems and Solutions:

Problem	Possible Reasons	Solutions
Whole COB strips do not light on	Not connected to LED driver.	Connect to suitable LED driver and power on.
	LED driver switched off due to self-protection while open circuit or short circuit.	Trouble shoot and fix or change the LED driver.
	Wrong connection between strips and driver.	Make sure to connect positive to positive, negative to negative.
Partial COB strips do not light on	Some LED drivers failed.	Troubleshoot LED driver and fix.
	Partial wire connection wrong. Some strips are connected with wrong polarity.	Make sure to connect positive to positive, negative to negative.
Inconsistent or not enough brightness	Wrong LED driver with not enough power.	Calculate the strip length and choose suitable wattage LED driver.
	Too much circuit loss on LED driver, or big loss difference between each circuit.	1. Make sure strip's working voltage is within +5% of the rated voltage. 2. Shorten connection wires or change to thicker wires. 3. Make sure the strip length less than the maximum allowed connection length. Keep similar length for all series strips.
	Too many series connection for LED strips	Adjust the connected LED strip length and qty, make sure each circuit is within the maximum connection requirements
LEDs flash	Poor soldering connection point.	Check and connection and fix them.
	LED driver breaks down	Find the faulty driver and change.

4M COB LED Strip-Ultra Thin Series

480pcs chips/M, DC24V, Constant Voltage, IP20, 6mm Width PCB.

📢 Statements:

- Suggested the installation of COB LED strips to be made by the manufacturer, agent, or other qualified people.

- Please study the above specification before installation.

- The above data is based on our standard product. Please subject to your actual product data if there is a slight difference.

- The above schematic diagrams are from our standard product. Please subject to your existing product if there is a slight difference.

- The LED driver wattage must be at least 1.2 times the overall wattage of the LED strips used for the power supply.

- For safety, do not connect the strips directly to the AC.

- Any acidic or alkaline substance is forbidden.

- No prior notice in case this product or specification is updated.

- Unitop reserves the final right of explanation of the above specification.