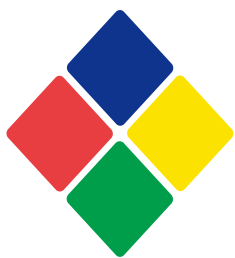


# LUCOFLEX PRO



# LUCOLED

*Experience Lighting*

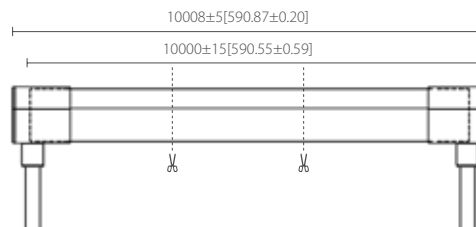
- Single color extrusion.
- Silicone extrusion, anti-static treated.
- Side bending.
- 10 m lengths with constant current technology , no brightness drop.
- 2 IP68 moulded bottom connectors per 10 m reel attached.
- Warranty: 5 years indoors, 3 years outdoors;
- Various colors available, custom lengths available.



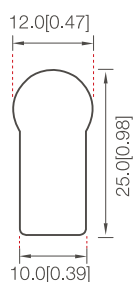
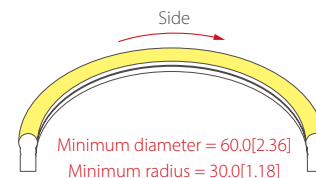
| Model No.     | Voltage | Ra/nm  | Color                                                                                   | Lm/m | Lm/W | Rated Power |
|---------------|---------|--------|-----------------------------------------------------------------------------------------|------|------|-------------|
| FP-03000-W-10 | 24V DC  | >80    |  3000K | 809  | 84   | 9.6 W/m     |
| FP-06500-W-10 | 24V DC  | >80    |  6500K | 828  | 86   |             |
| FP-00620-R-10 | 24V DC  | 620 nm |  R     | 158  | 15   | 9.6 W/m     |
| FP-00520-G-10 | 24V DC  | 520 nm |  G     | 145  | 14   |             |
| FP-00465-B-10 | 24V DC  | 465 nm |  B     | 25   | 2    |             |
| FP-00585-Y-10 | 24V DC  | 585 nm |  Y     | 138  | 13   |             |
| FP-00600-O-10 | 24V DC  | 600 nm |  O     | 243  | 23   |             |

| Model No.    | LED QTY   | Standard Run | Min. Cuttable Length | Working Temperature | Storage Temperature |
|--------------|-----------|--------------|----------------------|---------------------|---------------------|
| FP-xxxx-c-10 | 120 pcs/m | 10.0 m       | 50.0 mm              | -20~+60°C           | -20~+70°C           |

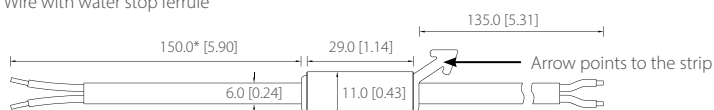
Unit: mm[inch]



Bending Diameter



Note: Within 10 meters, the strip length can be customized based on a multiple of the minimum cutting length.

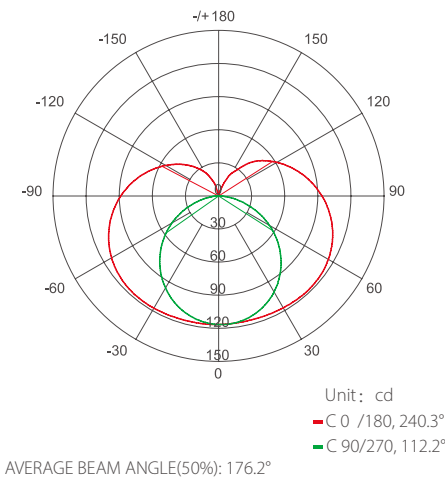


Notes:

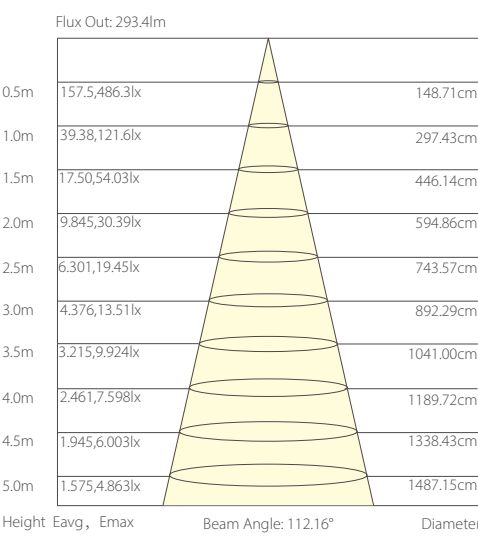
- Do not submerge water stop ferrule in water to avoid oxidation.
- **Do not remove the water stop ferrules from the connection wires! This will void the warranty.**

Luminous Intensity Distribution Diagram

Average Illumination



Note: above data based on Lucoflex Pro 6500K. For other data, please consult sales rep.



Recommended power supply per product length

| Lucoflex Pro    |                  |               |                |                          |                   |
|-----------------|------------------|---------------|----------------|--------------------------|-------------------|
| Product Length  | Measured Current | Rated Voltage | Measured Power | Recommended Power Supply | Power Supply Mode |
| 1m              | 0.38 A           | 24V DC        | 9.15 W         | 15 W                     | Single Feed       |
| 10 m            | 3.80 A           | 24V DC        | 91.5 W         | 150 W                    | Single Feed       |
| 2 x 10 m (20 m) | 7.60 A           | 24V DC        | 183.0 W        | 240 W                    | Double Feed       |

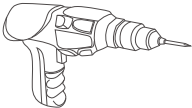
Products and Tools



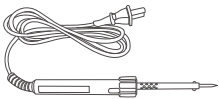
LED power supply



Pipe cutter

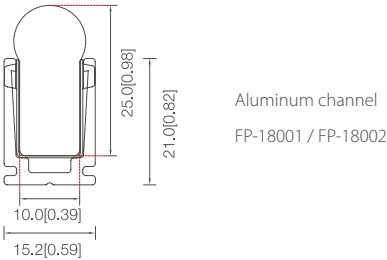


Electric drill



Solder iron

Profile Drawings (Lucoflex Pro + aluminum channel)



Product accessories



Item: Front cap  
Dimensions L\*W\*H: 26.2\*12.2\*45mm  
Article nr.: FP-18012



Item: Closing End-cap  
Dimensions L\*W\*H: 26.2\*12.2\*16mm  
Article nr.: FP-18010



Item: Front cap (right outlet)  
Dimensions L\*W\*H: 18\*25\*27mm  
Article nr.: FP-18013



Item: Front cap (left outlet)  
Dimensions L\*W\*H: 18\*25\*27mm  
Article nr.: FP-18014



Item: Front cap (bottom outlet)  
Dimensions L\*W\*H: 18\*14\*39mm  
Article nr.: FP-18011



Item: Aluminum clip (with metal spring)  
Dimensions L\*W\*H: 35\*21\*15.2mm  
Article nr.: FP-18002



Item: Aluminum channel 1000mm  
Dimensions L\*W\*H: 1000\*21\*15.2mm  
Article nr.: FP-18001



Item: S-type Track  
Dimensions L\*W\*H: 500\*11\*14.6mm  
Article nr.: FP-18015



Item: Screws(matching aluminum channel)  
Dimensions L\*W\*H: Ø4\*13mm  
Recommended from third party



Item: Screws(matching S-type track)  
Dimensions L\*W\*H: Ø3\*15mm  
recommend from third party

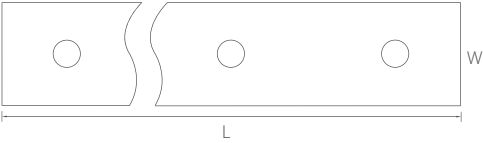


Item: Silicone Glue  
Dimensions: 45g/pc  
Article nr.: F-18011



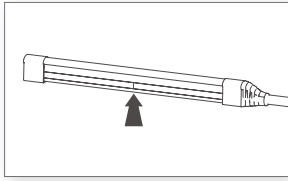
Item: 3M Skotchlok 314  
gel filled connector  
Recommended from third party

Aluminum channel diagram

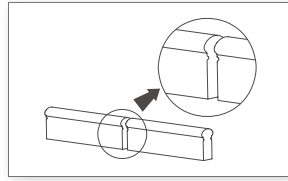


| Name                                   | L(mm) | W(mm) | Article  |
|----------------------------------------|-------|-------|----------|
| Aluminum channel (with 1 metal spring) | 35    | 21    | FP-18002 |
| Aluminum channel (3 metal springs)     | 1000  | 21    | FP-18001 |
| S-type track (bendable)                | 500   | 11    | FP-18015 |

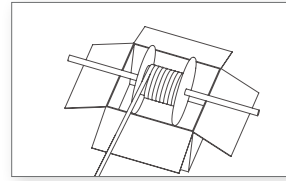
## Product handling cautions



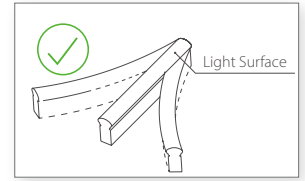
Locate cut marks on the product.  
Only cut at these marks!



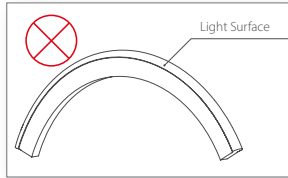
Cut with special tool to get clean cut



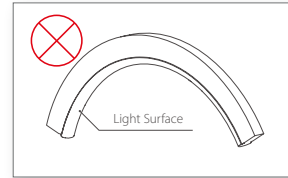
Insert a stick on the reel and place it  
on the packing box, and rotate the reel  
to unroll the product.



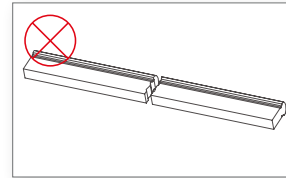
Bend in side direction only in minimal  
30 mm radius.



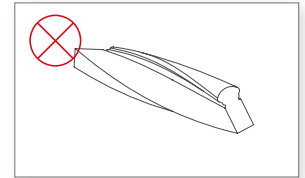
Do not bend in top bend direction



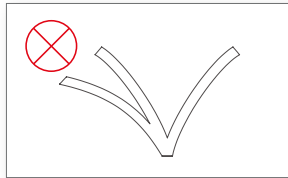
Do not bend in top bend direction



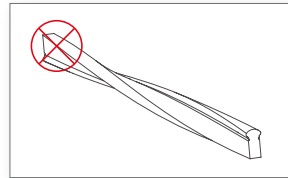
Do not make irregular cuts.  
Use correct, sharp, tools.



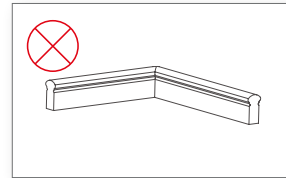
Do not distort the product.  
This will lead to failures.



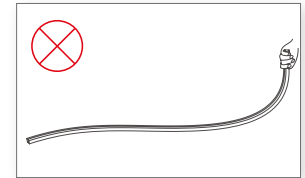
Do not bend product frequently. This  
will damage the electronics.



Do not twist the product.  
This will lead to failures.



Do not bend at 90 degree angles.  
Minimum radius is 30 mm!



Do not drop or pull product with force  
when unrolling or installing.

Note:

1. There are visible cutting marks on the side of the product. Do not cut at any other location.
2. Please pay attention to the above warnings during transportation and mounting;

Note:

- At the solder connections, please pay attention to the positive and negative poles of the wire and the strip.
- Each connection must use 10g silicon glue for waterproof and insulating treatment.
- Screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right.
- Follow the installation instructions carefully.
- During mounting, please pay attention to the min bending diameter (60 mm), and only use original factory accessories;
- More information, please feel free to consult us.

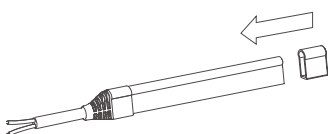
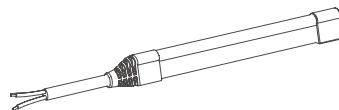


## Before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage (24 V DC), power (9.15 W/m) and power supply capacity should be matched with the product. Load power supplies to max. 90% of their rated power.
- Follow the instructions and wiring diagram (first connect the product to the secondary and then primary of the power supply to the mains) to avoid short circuit or shock.
- Make sure that the positive and negative poles between products and power supply are connected correctly. Otherwise the light will not turn on.
- All outdoor connections should be done with gel filled waterproof connectors (i.e. Skotchlok) or installed inside at least IP67 rated junction boxes.
- Only use original accessories..

## Installation end caps

Closing-end cap installation after cutting at cut mark.



Fill the end cap with minimum 10 g glue, then install it to the strip.  
Use only original provided silicon glue, no other products!  
Check glue expiration date before use.

Wipe off the excess glue and wait at least 1 hour for drying.  
Glue is fully cured after 4 hours.

Cautions

- Do not disassemble or retrofit the light engine inside the product. Do not touch the surface of the light with a sharp object.
- Disconnect the power supply from the mains before connecting the product.
- Do not use any organic, acid or sulfur based chemical solvents, kits or glues. These will damage the LED's and the silicon extrusion.
- Use neutral glass adhesive to fix this product and let it dry at least 4 hours in the open environment after application.
- Insulate all open ended wires with a waterproof connection. Gel filled 3M Skotchlok 314 recommended.
- Use 18AWG (0.75mm2 cross-sectional area) or thicker core wire to avoid line voltage drop when extending the connection wires.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters to avoid inconsistent brightness.
- Make sure the input voltage meets the requirements (24 V DC) and polarity is connected correctly (red = +, black = -) before lighting on.
- When connecting product in series do not exceed 15 m for a single sided connection or 30 m for a double sided connection.
- This product is for signage, and not intended as general lighting.
- Installation, maintenance and repair should be done by a qualified technician.

Packaging Information

| Model No.    | Product Size (mm) | Carton Size (mm) | Meter/Reel | Reel/Carton | Gross Weight (kg) |
|--------------|-------------------|------------------|------------|-------------|-------------------|
| Lucoflex Pro | 10.000*12*25      | 390*390*325      | 10         | 3           | 10.38 (1± 10%)    |

Reliability test

| Project                     | Reference standards | Category                           | Test conditions                                                                                                      | Outcome |
|-----------------------------|---------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|
| Environmental test          | Industry standard   | PTC test                           | Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min) | Pass    |
|                             |                     | High temperature resistance test   | Simulated TH=60/80°C, continuous power on                                                                            |         |
|                             |                     | High temperature and humidity test | TH=85°C /RH=85%, continuous power on                                                                                 |         |
|                             |                     | IPX7                               | Soaking 1.0m/30min                                                                                                   | IP67    |
| Mechanical strength testing | Industry standard   | Bending test                       | Bending diameter 60mm, Ta=25°C, continuously light on                                                                | Pass    |

Statements and Recycling

Statements

- Repair should be operated by a qualified technician or supplier, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

-  
-





# LUCOLED

*Experience Lighting*

## **BELGIUM**

Industriepark 32b  
3290 Diest  
Belgium

[www.lucoled.com](http://www.lucoled.com)

☎: +32 (0) 13292829  
✉: [info@lucoled.com](mailto:info@lucoled.com)

## **THE NETHERLANDS**

Rotterdamseweg 388F  
2629 HG Delft  
The Netherlands

[www.lucoled.com](http://www.lucoled.com)

☎: +31 (0) 153649186  
✉: [info@lucoled.com](mailto:info@lucoled.com)

## **LUCOLED INDIA PVT LTD.**

2088 Vijayanagar Colony  
Sadashiv Peth  
Pune 411030  
India

[www.lucoled.in](http://www.lucoled.in)

☎: +91 9850331984  
✉: [tejasa@lucoled.in](mailto:tejasa@lucoled.in)