

LUCOFLEX D PRO

Lucoflex D Pro is a worthy alternative to neon lighting and signage. With its extreme flexibility and wide colour pallet Lucoflex provides neon artists and lighting designers the creative freedom they are looking for, while still delivering a high-efficient, reliable, long life and maintenance free solution.

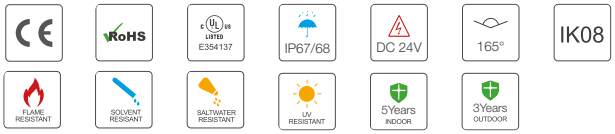
Lucoflex is perfect for curved architectural exterior and interior lighting applications as it provides high performance, dot-free and homogeneous light, ideal for highlighting the curved perimeters and outlines of buildings, canopies, letters, signs and open-face channel letters.

Our flexible, IP68 protected silicon extrusion is UV stable, impact resistant, flame retardant and has a high resistance to chemicals and environmental influences, and is therefore backed by our 3 year warranty outdoor and 5 year warranty indoor.

LUCOFLEX D PRO FEATURES



- Single color extrusion.
- Silicone extrusion, anti-static treated.
- Top 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.

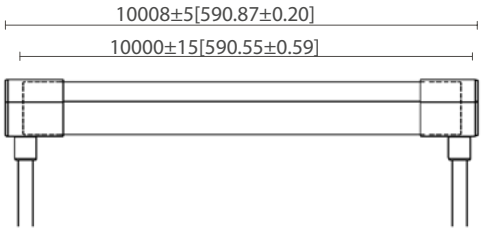


LUCOFLEX D PRO OPTICAL & ELECTRICAL PARAMETERS

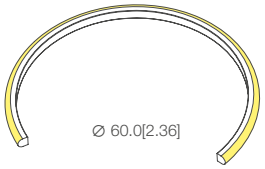
Model No.	Voltage	Ra/nm	Color	Lm/m	Lm/W	Rated Power
FDP-03000-W	24V DC	>80	3000 K	727	62.3	7.7 W/m
FDP-06000-W	24V DC	>80	6000 K	743	63.9	7.7 W/m
FDP-00620-R	24V DC	620 nm	R	272	23.4	7.7 W/m
FDP-00520-G	24V DC	520 nm	G	773	66.8	7.7 W/m
FDP-00465-B	24V DC	465 nm	B	158	13.6	7.7 W/m
FDP-00585-Y	24V DC	585 nm	Y	195	16.9	7.7 W/m
FDP-00600-O	24V DC	600 nm	O	334	28.8	7.7 W/m

Model No.	LED QTY	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
FDP-xxxxx-x	144 pcs/m	15.0 m	41.66 mm	-20~+60°C	-20~+70°C

LUCOFLEX D PRO DRAWINGS

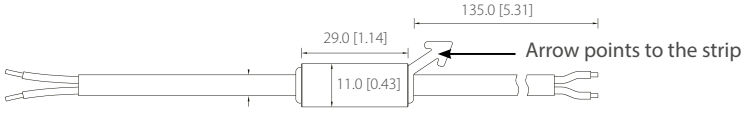


Bending Diameter

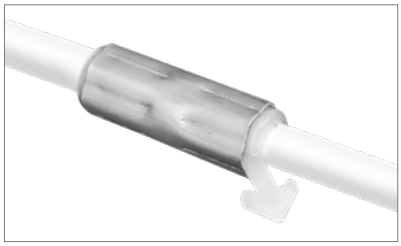


Minimum diameter = 60.0[2.36]

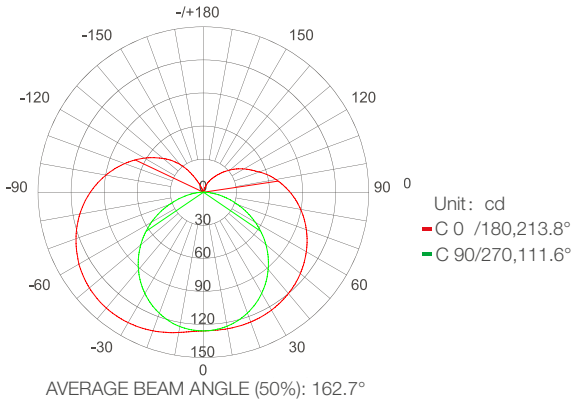
Remarks : the strip length supports customization with 5m.



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 D PRO



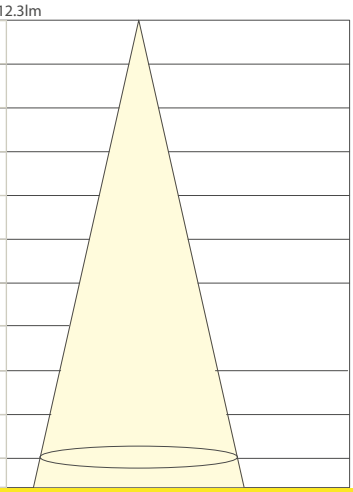
AVERAGE BEAM ANGLE (50%): 162.7°

Note: above data based on Lucoflex D Pro 6000K. For other data, please consult sales rep.

AVERAGE ILLUMINATIOND PRO

Flux Out: 312.3lm

Height	Eavg	Emax
0.5m	180.9	517.0lx
1.0m	45.22	129.3lx
1.5m	20.10	57.45lx
2.0m	11.31	32.31lx
2.5m	7.236	20.68lx
3.0m	5.025	14.36lx
3.5m	3.692	10.55lx
4.0m	2.826	8.078lx
4.5m	2.233	6.383lx
5.0m	1.809	5.170lx



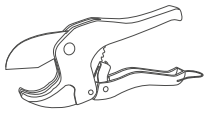
RECOMMENDED POWER SUPPLY PER PRODUCT LENGTH LUCOFLEX D PRO

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
10m	3.80 A	24V DC	91.5 W	150 W	Single Feed
2x10m (20m)	7.60 A	24V DC	183.0 W	240 W	Double Feed

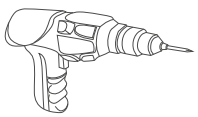
PRODUCTS AND TOOLS FOR INSTALLATION LUCOFLEX D PRO



LED power supply



Pipe cutter



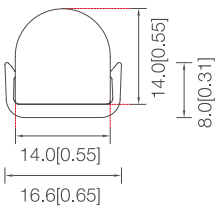
Electric drill



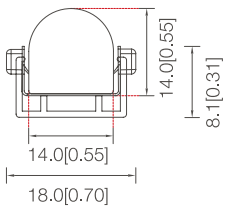
3M Skotchlok 314

Profile Drawings (Lucoflex D Pro + clip)

Plastic clip



Aluminium profile or clip (with spring)



LUCOFLEX D PRO ACCESSORIES



Item: Closing End-cap
Dimensions L*W*H: 10*17*16mm
Article nr.: FDP-18010



Item: Aluminum clip
(with metal spring)
Dimensions L*W*H: 25*28*10mm
Article nr.: FDP-18002



Item: Aluminum profile
(with 3 metal springs)
Dimensions L*W*H: 1000*28*10mm
Article nr.: FDP-18001



Item: Plastic clip
Article nr.: FDP-18004



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

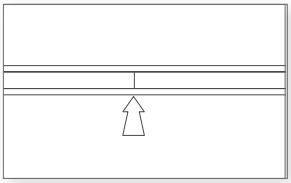
PACKAGING INFORMATION LUCOFLEX D PRO

Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
FDP-xxxxx-x-10	10.000*14*14	430*400*390	10	2	11.53 (1± 10%)

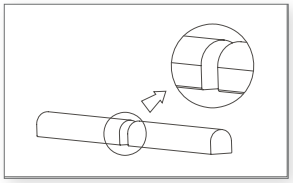
RELIABILITY TEST (D) PRO

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Industry standard	Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60°C, continuous power on	
		Room temperature bending test	Bending diameter 60mm, continuous power on under room temperature	
		Room temperature aging test	TH=25°C, continuous power on	
Mechanical strength testing	Industry standard	Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	Pass
		Twisting test	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	

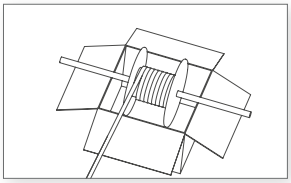
PRODUCT HANDLING CAUTIONS



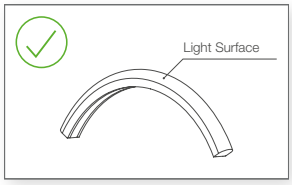
Locate cut marks on the product.
Only cut at these marks!



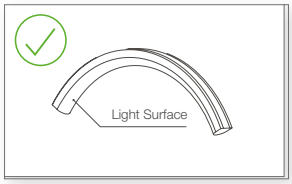
Cut with special tool to get clean cut



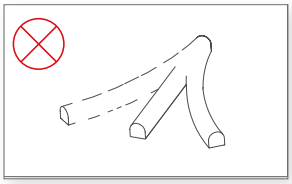
Insert a stick on the reel and place it on the packing box,and rotate the reel to unroll the product.



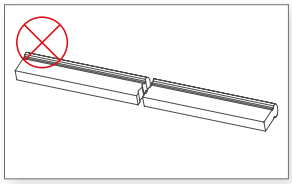
use in concex direction



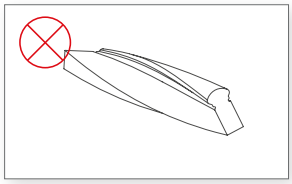
Use in concave direction



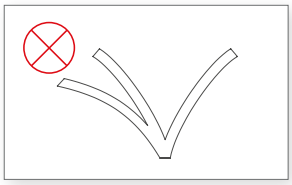
Side bending



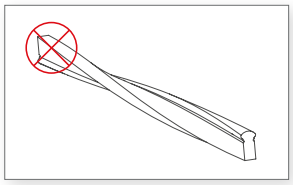
Do not make irregular cuts.
Use correct, sharp, tools.



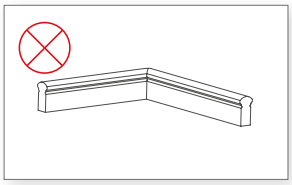
Do not distart the product.
This will lead to failures.



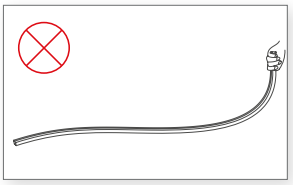
Do not bend product frequently.
This will damage the electronics.



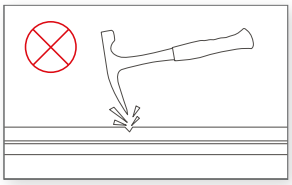
Do not twist the product.
This will lead to failures.



Do not bend at 90 degree angles.



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

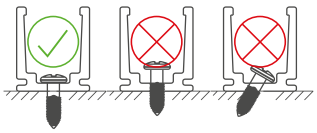


Avoid touching sharp objects

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 carefullty.
- 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 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 load and then the power supply) 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.
- Make sure the power cord is firmly screwed into the terminal, it should not be pulled out by hands.
- The terminal should have waterproof and anti-corrosive treatment.
- Only use original accessories..