Lucoline®





LUCOLED

Experience Lighting

Lucoline®

INTRODUCTION	03
FEATURES	04
TECHNICAL SPECIFICATIONS	05
ACCESSORIES	06
CORNERS AND JOINT COVER	07
POWER SUPPLIES	08
ELECTRIC LAYOUT EXAMPLE	08
INSTALLATION	09
CUTTING	11





INTRODUCTION

Based on over 30 years of experience selling and installing linear tubing products globally, Lucoled has completely redesigned the new Lucoline® range.

Lucoline® is designed to be used in architectural linear accent lighting applications such as petrol station canopies, building outlines, interior accents, etc..

Lucoline® uses advanced optics to create an even, bright, illumination in a 30 mm extruded profile. It has a condensation proof design with an integrated breather filter and silicon coated aluminium PCB's in an aluminium carrier profile.

Lucoline® is designed to be installed quickly and easily on any building structure surface. It has a plug-and play IP67 JST connector system. Lucoline® is cuttable every 55 mm and is easily resealable. The remaining cut piece can be used elsewhere in the installation, thus minimizing waste and optimizing material use.

Lucoline® is available in a large range of standard colours but also in full RGB to create spectacular effects. Custom colours are also possible.



FEATURES



Advanced optics



Advanced electronics



IP67 Condensation proof



Short term ROI, value proposition



UV stable



Standard colours and RGB



Cut Section can be reused



Constant current & current Limiting technology



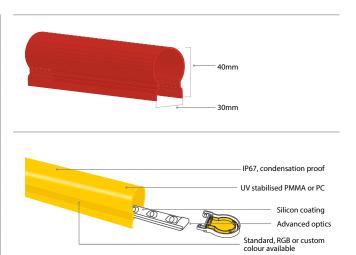
Breather filter

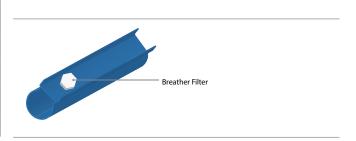


Quick and Easy Install

TECHNICAL SPECIFICATIONS

Dimensions	30mm(W) x 45mm (H)
Lengths	2370mm, 1186mm, 600mm
Cuttable	Cuttable every 55mm. RGB 145mm
Housing Material	extruded UV stable PMMA (UL94-HB) or PC (UL94-V0)
Input Voltage	24V DC
Protection Class	IP67
Connector System	JST JWPF IP67 Connectors
Mounting Clip	UV stabilized polycarbonate
Mounting clip pull force	>17kgs
Mounting clip shear force	>30kgs
Long lifespan	>80.000 hours
Operating temperature	-30°C - +60°C
Warranty	5 years extended warranty
Certification	CE, ROHS,UL





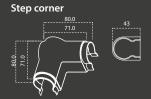
LUCOLINE TUBES

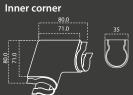
Article code	Description	Colour	LED Colour	Brightness	Power
L-B-x	PMS 285C Blue		460 nm	450cd/m ²	5.0W/m
L-LG-x	PMS 7488C Light Green		520 nm	800cd/m²	5.0W/m
L-G-x	PMS 348 Dark Green		520 nm	270cd/m²	5.0W/m
L-LY-x	PMS 116C Lemon Yellow		4000 K	1350cd/m ²	5.0W/m
L-Y-x	PMS 2010C Yellow		3000 K	1500cd/m²	5.0W/m
L-O-x	PMS172C Orange		3000 K	670cd/m²	5.0W/m
L-RR-x	PMS 1797C Red, Red LED		625 nm	400cd/m²	5.0W/m
L-R-x	PMS 1797C Red, White LED		3000 K	320cd/m²	5.0W/m
L-W-x	RAL9016 White, 6500K	Ω	6500 K	2000cd/m²	5.0W/m
L-WW-x	WW-x RAL 9016 White, 3000K		3000 K	1400cd/m²	5.0W/m
L-P-x	PMS 235 Purple		5000 K	500cd/m ²	5.0W/m
L-RGB-x	RGB	0	R= 625 nm G= 520 nm B= 460 nm W= 7000 K	R= 300cd/m ² G= 780cd/m ² B= 1800cd/m ² W= 1240cd/m ²	6.8W/m

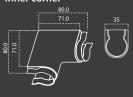
Note: "x" indicates length (2370mm, 1186mm, 600mm)

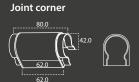
ACCESORIES

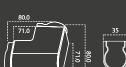
ITEM NO.	DESCRIPTION
L-CLIP-S	Mounting clip sliding
L-CLIP-F	Mounting clip fixed
L-c-JNT	Joint cover
L-c-CRN-STP	Step corner
L-c-CRN-OUT	Outside corner
L-c-CRN-INS	Inside corner
L-C-END	End cap
L-CAB-Y-1.5	Power supply Y extension cable 1.5m, 1 male & 1 female connector
L-CON-Y-FFM	Y-Connector, 1 male and 2 female connectors
L-CON-Y-MMF	Y-Connector, 1 female and 2 male connectors
L-CON-FF	Gender charger connector with 2 female connectors
L-CON-MM	Gender charger connector with 2 male connectors
L-CAB-1.0	Extension cable 1.0m Male/Female JST connector
L-CAB-3.0	Extension cable 3.0m Male/Female JST connector
L-CAB-5.0	Extension cable 5.0m Male/Female JST connector
L-CON-BNK-M	Blanking connector male
L-CON-BNK-F	Blanking connector female
L-CON-BNK-RGB-M	Blanking connector RGB male
L-CON-BNK-RGB-F	Blanking connector RGB female



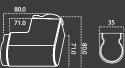


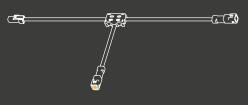






Outside corner

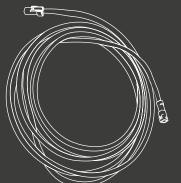


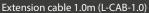


Y-Connector (L-CON-Y-FFM/MMF)











Power supply Y connection cable 1.5m (L-CAB-Y-1.5)



Extension cable 3.0m (L-CAB-3.0)









JST Blanking connector male (L-CON-BNK-F)



JST Blanking connector female (L-CON-BNK-M)



JST Blanking connector RGB female (L- CON-BNK-RGB-F)



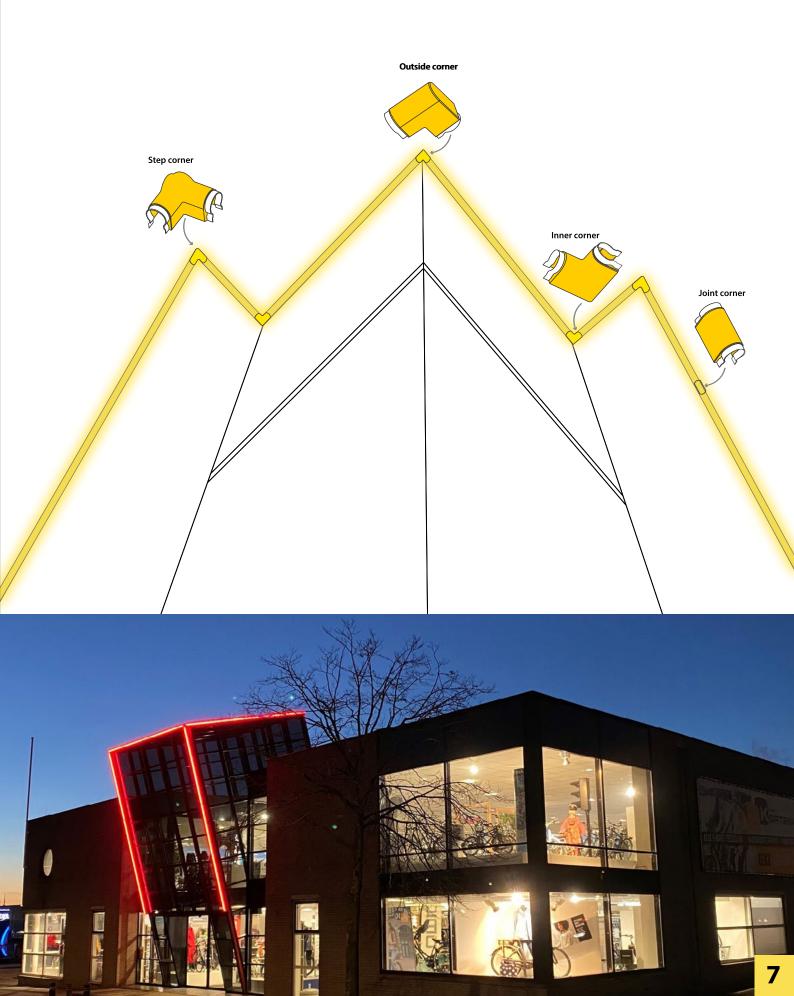
JST Blanking connector RGB male (L-CON-BNK-RGB-M)





JST 4P female terminal wire (L-CAB-RGB-F-500)

CORNERS AND JOINT COVER OPTIONS



POWER SUPPLIES

Specification 24V Power Supply

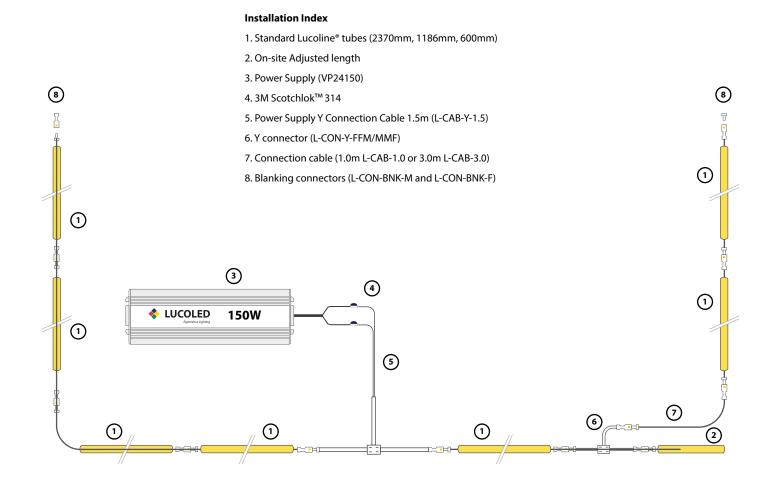
Code	Output Current	Output Power	Input Current	Efficiency	Size	Weight
VP2460	2.5A	60W	≤0.8A	≥84%	186x40x29mm	0.55kg
VP24100	4.17A	100W	≤1.22A	≥92%	163x68x37mm	0.69kg
VP24150	6.25A	150W	≤1.81A	≥93%	185x68x37mm	0.79kg
VP24240	10A	240W	≤2.93A	≥92%	217x68x37mm	0.98kg
VP24400	16.67A	400W	≤4.87A	≥93%	251x86x42mm	1.66kg

Power Supply Capacity

Item	VP2460	VP24100	VP24150	VP24240	VP24400
Power Output	60W	100W	150W	240W	400W
All Lucoline® colours(5.0W/m)	11m	18m	27m	43m	72m
RGB (6.8W/m)	7.5m	13m	19.5m	32m	53m

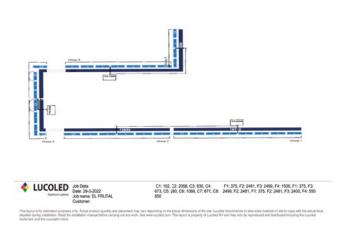
Maximum 4 sections of 2370mm | 9.6 m length in series

ELECTRIC LAYOUT EXAMPLE



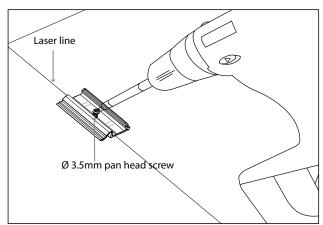
INSTALLATION

1. Layout:



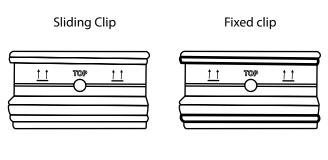
Use a building layout drawing with all lengths of the sides where Lucoline®should be installed to calculate the number of standard lengths, corners, cables and power supplies needed.

2. Prepare installation:



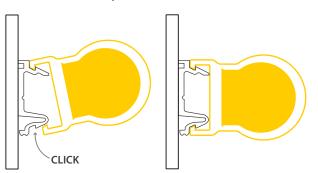
Use a laser line to mark the horizontal line on the building where the mounting clips should be installed. Per section install one Fixed Clip (L-CLIP-F) in the middle of the section to prevent it from moving on the building under temperature influences. Use Sliding Clips (L-CLIP-S) at a maximum repeat distance of 400 mm apart.

3. types of mounting clips:



The Fixed Clip (L-CLIP-F) has rubber bands to prevent the tube from sliding. Only one should be used per section on a horizontal installation. In the case of a vertical installation use a Fixed Clip for every other clip to prevent the tube from sliding down under its own weight.

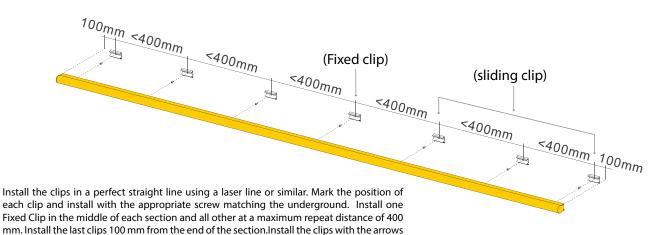
4. Install Lucoline® on clips:



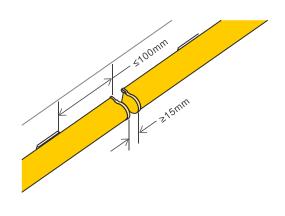
Hang the tube in the top side of all clips. Push the tube downward to snap it into the spring part of each clip. Check that the tube is secured in all clips, especially the Fixed Clip.

5. Installation tube on clips:

pointing up and the word TOP readable.



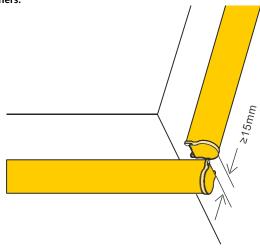
6. Distance between sections:



To allow for thermal expansion and contraction and to prevent damage the individual sections need to have a gap between them. Later covered with a joint cover.

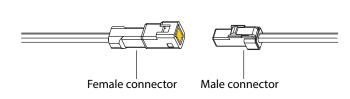
When installing at an ambient temperature below 10 °C leave a minimum gap of 15 mm between sections. Above 10 °C this can be 10 mm.

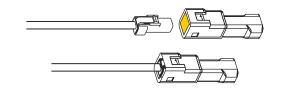
7. corners:

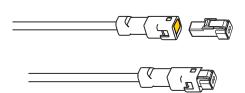


To install a corner on 2 sections these should overlap each other so that the end of the section is flush with the top of the other section. Again leave a gap as in the drawing to allow for thermal expansion. Snap the corner over the 2 sections to fix it.

8. JST Connectors:



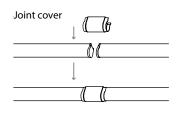


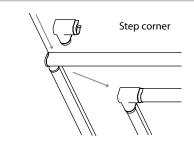


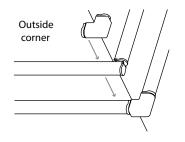
The JST connectors have a locking clip. Make sure these are fully engaged, making the connection IP67 water proof. Hide the connectors behind the tubes once connected. Do not pull or bend the cables too tight. This may damage the seal and compromise the IP rating.

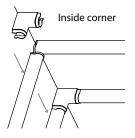
To close off all open connectors in an installation and make them waterproof male or female blanking connectors must be used. Otherwise water can get into the open connectors which will lead to failures.

9. Installation of corners:

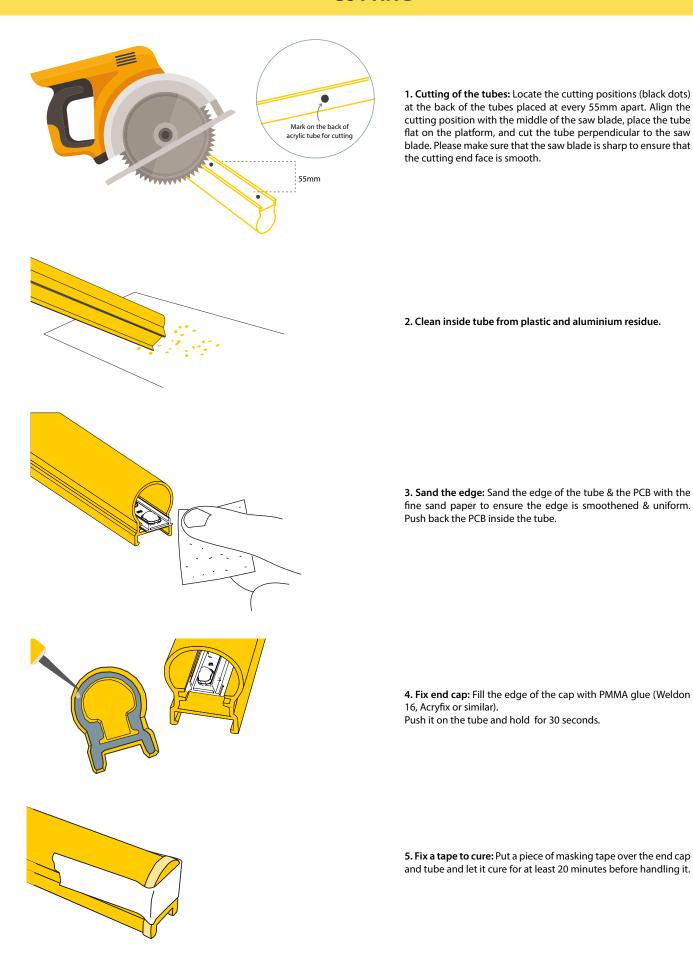








CUTTING







Experience Lighting

BELGIUM

Industriepark 32b 3290 Diest Belgium

www.lucoled.com

①: +32 (0) 13292829 : info@lucoled.com

THE NETHERLANDS

Rotterdamseweg 388F 2629 HG Delft The Netherlands

www.lucoled.com

①: +31 (0) 153649186
⊠:info@lucoled.com

LUCOLED INDIA PVT LTD.

2088 Vijayanagar Colony Sadashiv Peth Pune 411030 India

www.lucoled.in

①: +91 9850331984 ⊠: tejasa@lucoled.in