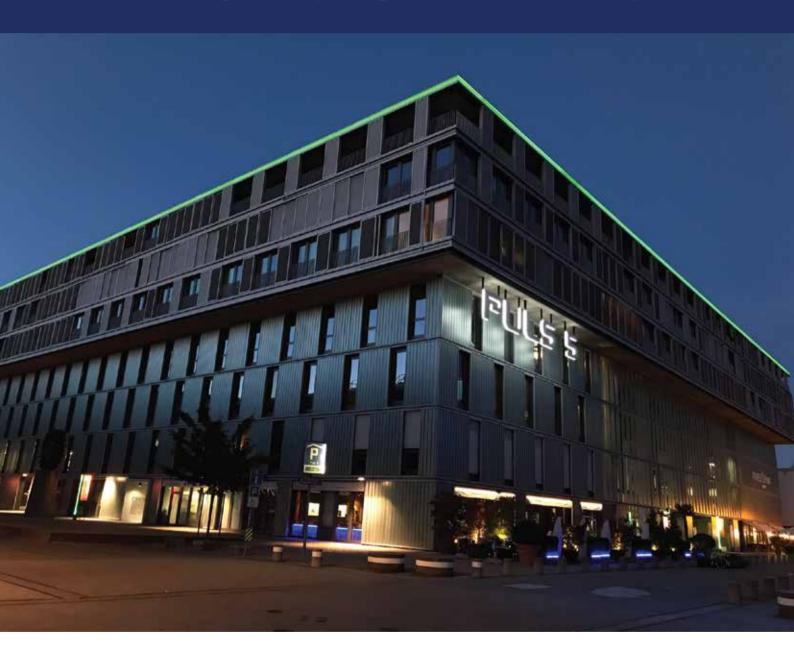
Lucoline®





Experience Lighting

Lucoline

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INTRODUCTION

Based on over 20 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 architectual 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 and dot controllable 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 sections can be reused



Constant current & current limiting technology



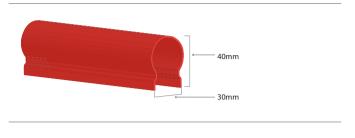
Breather filter

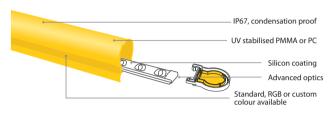


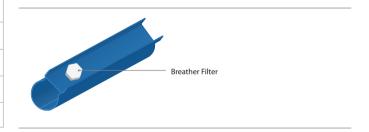
Quick and easy installation

TECHNICAL SPECIFICATIONS

Dimensions	30mm (W) x 45mm (H)		
Lengths	2370mm, 1186mm, 600mm		
Cuttable	Cuttable every 55mm		
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		







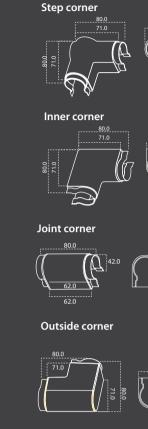
LUCOLINE TUBES

Item no	n no Description		Brightness	Power	
L-B-x	PMS 285C Blue		450cd/m ²	5.0W/m	
L-LG-x	PMS 7488C Light Green		800cd/m ²	5.0W/m	
L-G-x	PMS 348 Dark Green		270cd/m ²	5.0W/m	
L-LY-x	PMS 116C Lemon Yellow		1350cd/m ²	5.0W/m	
L-Y-x	PMS 2010C Yellow		1500cd/m ²	5.0W/m	
L-O-x	PMS 172C Orange		670cd/m²	5.0W/m	
L-RR-x	PMS 1797C Red, red LED		400cd/m ²	5.0W/m	
L-R-x	PMS 1797C Red, white LED		320cd/m ²	5.0W/m	
L-W-x	RAL 9016 White, 6500K	Ω	2000cd/m²		
L-RGB-x	RGB		R= 300cd/m ² G= 780cd/m ²	5.8W/m	
L-RGBDC-x	RGB Dot Controlled		$B = 1800 \text{cd/m}^2$ $W = 1240 \text{cd/m}^2$	5.8W/III	

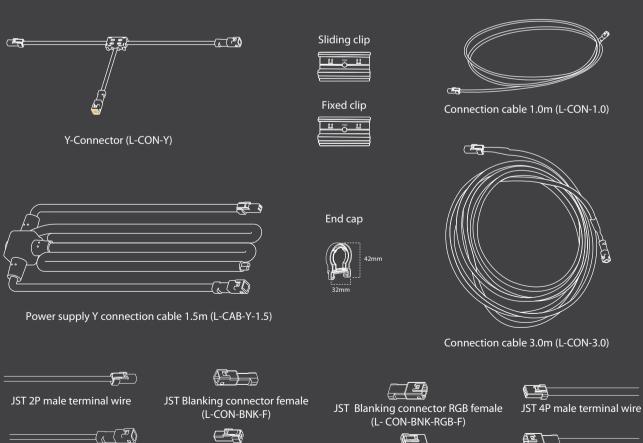
Note: "x" indicates length (2370mm, 1186mm, 600mm)

ACCESSORIES

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 connection cable 1.5m, 1 male & 1 female connector
L-CON-Y	Y-Connector, 1 male and 2 female connectors
L-CAB-1.0	Extension cable 1.0 m Male/Female JST connector
L-CAB-3.0	Extension cable 3.0 m 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



Note: "c" indicates colour (B, LG, G, LY, Y, O, RR, R, W, RGB, RGBDC)



JST Blanking connector RGB male

(L-CON-BNK-RGB-M)

JST 4P female terminal wire

JST Blanking connector male

(L-CON-BNK-M)

JST 2P female terminal wire

CORNERS AND JOINT COVER OPTIONS



POWER SUPPLIES

Specification 24V power supply

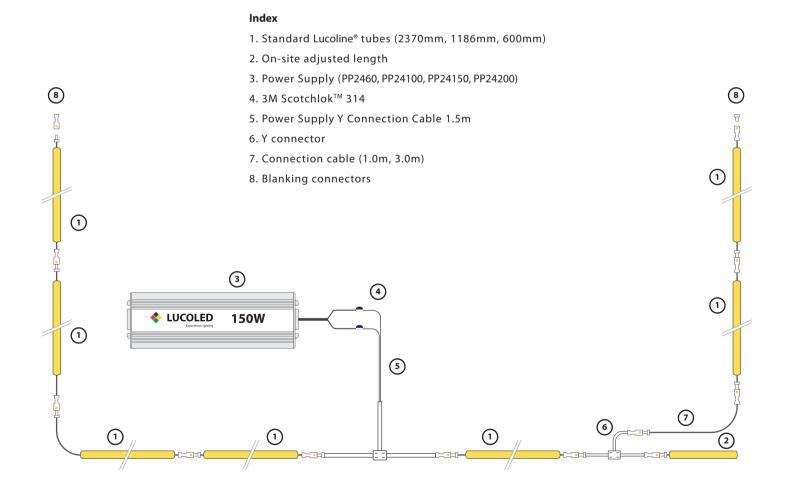
Code	Output current	Output power	Input current	Efficiency	Size	Weight
PP2460	2.5A	60W	0.65A/115V-0.35A/230V	≥ 87%	184x44x34mm	0.52kg
PP24100	4.16A	100W	1.1A/115V-0.55A/230V	≥ 92%	204x67x35mm	0.88kg
PP24150	6.25A	150W	1.6A/115V-0.8A/230V	≥ 93%	234x68x35mm	1kg
PP24200	8.34A	200W	2.8A max	≥ 90%	295x60x36mm	1.1kg

Power supply capacity

Item	PP2460	PP24100	PP24150	PP24200
Power output	60W	100W	150W	200W
All Lucoline® colours(5.0W/m)	11m	18m	27m	38m
RGB & RGB dot controlled(5.8W/m)	9m	15m	23m	31m

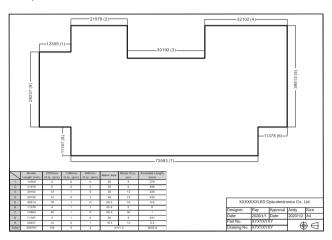
Maximum 4 sections of 2370mm | 9.6 m length in series

ELECTRICAL LAYOUT EXAMPLE



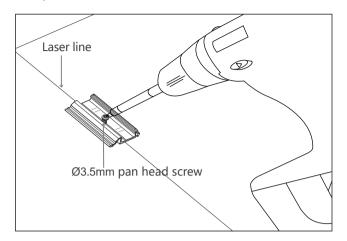
INSTALLATION

1. Layout:



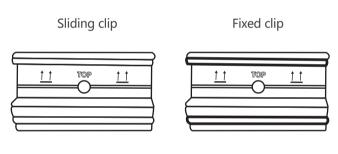
Use a building layout drawing with all lengths of the sides where Lucoline®should be installed to calculate the number of standard lengths, corners, cables and power supplies needed.

2. Prepare installation:



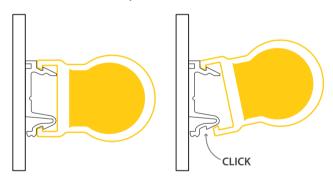
Use a laser line to mark the horizontal line on the building where the mounting clips should be installed. Per section install one Fixed Clip (L-CLIP-F) in the middle of the section to prevent it from moving on the building under temperature influences. Use Sliding Clips (L-CLIP-S) at a maximum repeat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

3. Types of mounting clips:



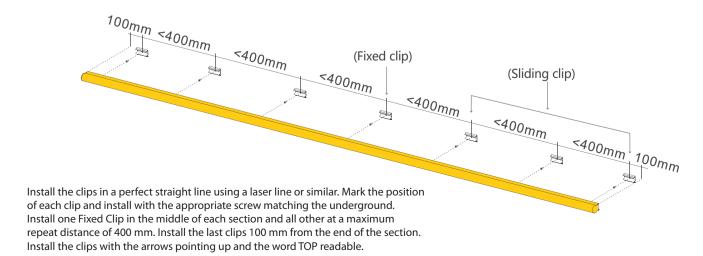
The Fixed Clip (L-CLIP-F) has rubber bands to prevent the tube from sliding. Only one should be used per section on a horizontal installation. In the case of a vertical installation use a Fixed Clip for every other clip to prevent the tube from sliding down under its own weight.

4. Install Lucoline® on clips:

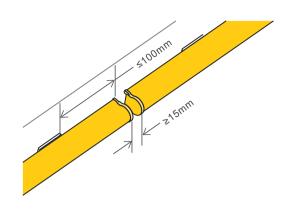


Hang the tube in the top side of all clips. Push the tube downward to snap it into the spring part of each clip. Check that the tube is secured in all clips, especially the Fixed Clip.

5. Installation tube on clips:



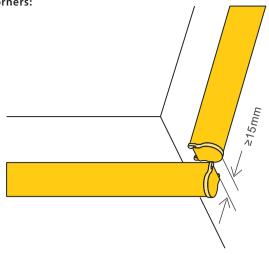
6. Distance between sections:



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.

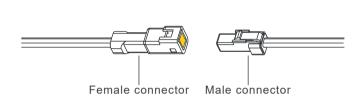
When installing at an ambient temperature above 10°C leave a minimum gap of 10mm between sections. Below 10°C this should be 15mm.

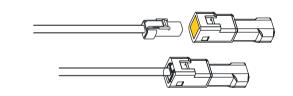
7. Corners:

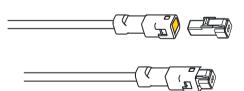


To install a corner on 2 sections these should overlap each other so that the end of the section is flush with the top of the other section. Again leave a gap as in the drawing to allow for thermal expansion. Snap the corner over the 2 sections to fix it.

8. JST Connectors:



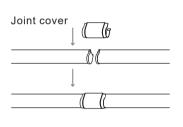


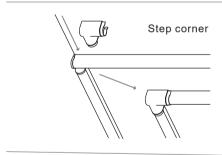


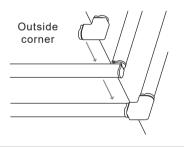
The JST connectors have a locking clip. Make sure these are fully engaged, making the connection IP67 water proof. Hide the connectors behind the tubes once connected. Do not pull or bend the cables too tight. This may damage the seal and compromise the IP rating.

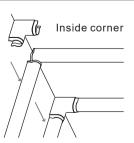
To close off all open connectors in an installation and make them waterproof male or female blanking connectors must be used. Otherwise water can get into the open connectors which will lead to failures.

9. Installation of corners:

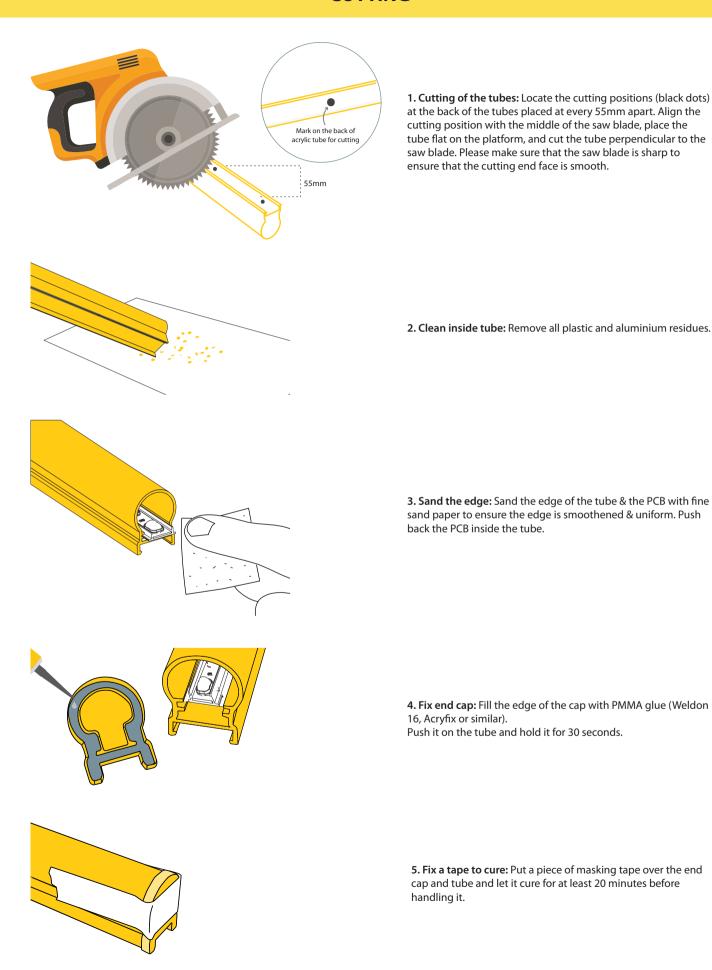








CUTTING







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