



LACE

INTILED

# overview

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The LACE series is designed to create soft, diffused floodlighting and perfect light lines on surfaces of various shapes.

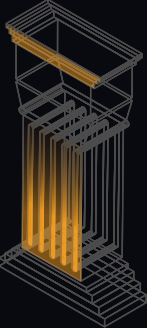
Depending on the requirements of the project, LACE can be adapted with vertical or horizontal bends, various dimensions and lengths, a range of glow colors, and different levels of IP protection.



# application

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## accent



relief  
vertical bend

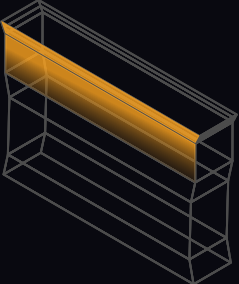


balusters  
horizontal bend



arched windows  
vertical bend

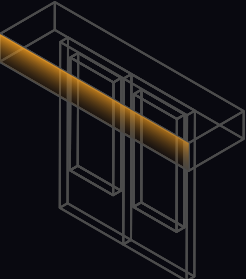
## contour



cornice  
vertical bend

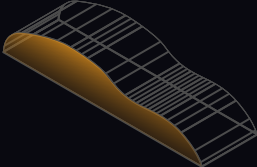


steps  
horizontal bend

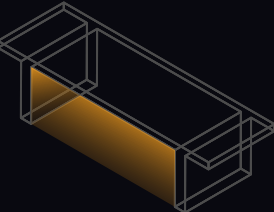


door canopy  
horizontal bend

## landscape



parapet  
vertical bend



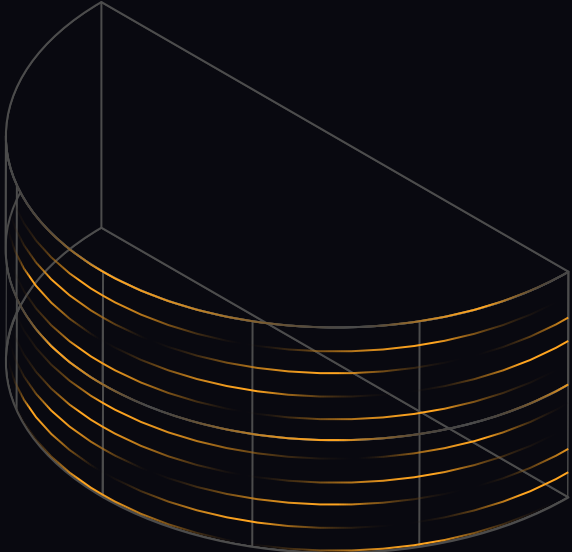
bench  
vertical bend



decorative  
architectural  
elements  
horizontal bend

## direct view

glass façade  
vertical bend



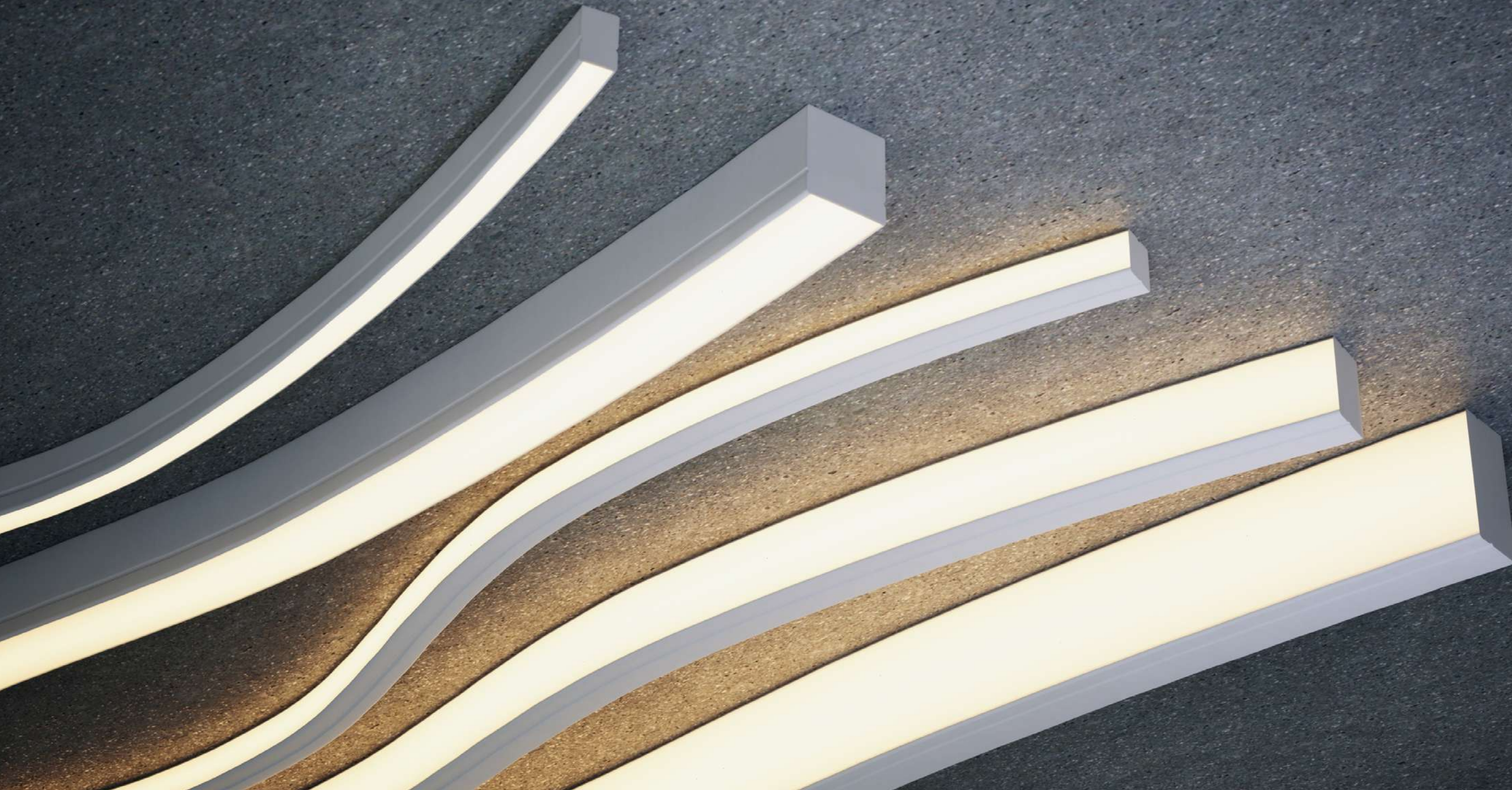
application

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special features: variety of sizes

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# special features: materials

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LACE utilizes two types of non-toxic materials known for their outstanding adhesive properties:

- silicon for IP67
- polyuretan for IP68

Both materials are UV-resistant, which helps them retain their light-emitting capabilities while ensuring color and durability are maintained over time.

## **Silicon**

- ideal for creating lengthy light lines (up to 50 meters)
- durable against harsh environments
- maintains flexibility within the operational temperature range

## **Polyurethane**

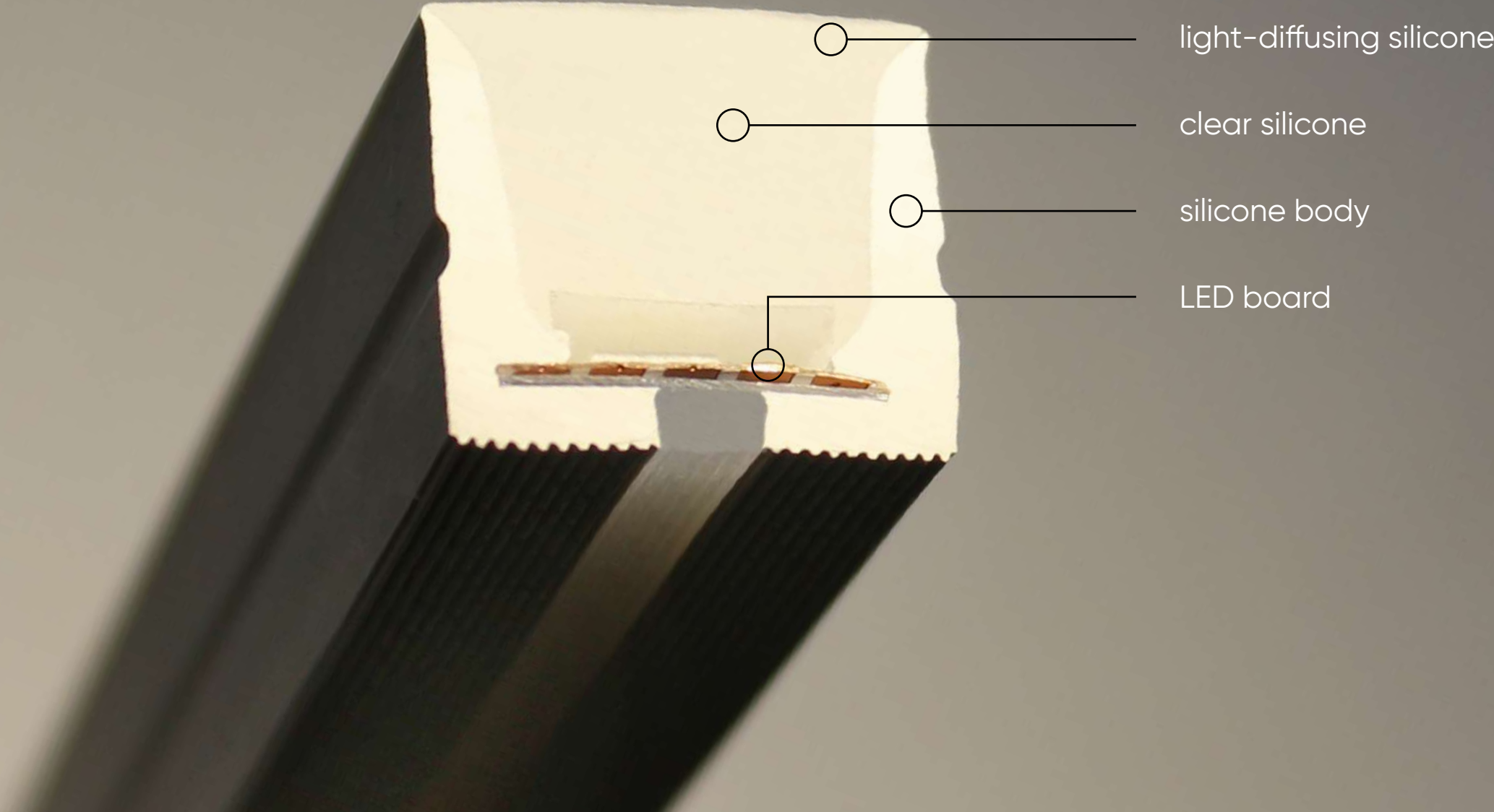
- provides outstanding insulation for internal components
- resistant to salts, chlorine, and alkalis



# special features: design

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The incorporation of multiple layers with varying degrees of transparency guarantees minimal light loss while providing exceptional tightness and reliability for the luminaire.



## special features: design

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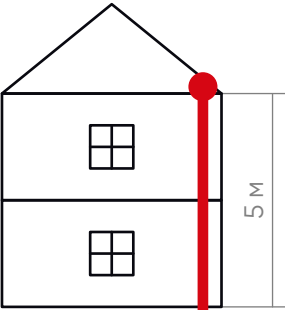
The end caps are produced using vulcanization, which guarantees high reliability while preserving the specified dimensions of the luminaire.

An antistatic spray is applied to the diffuser to protect the surface from dirt and dust.

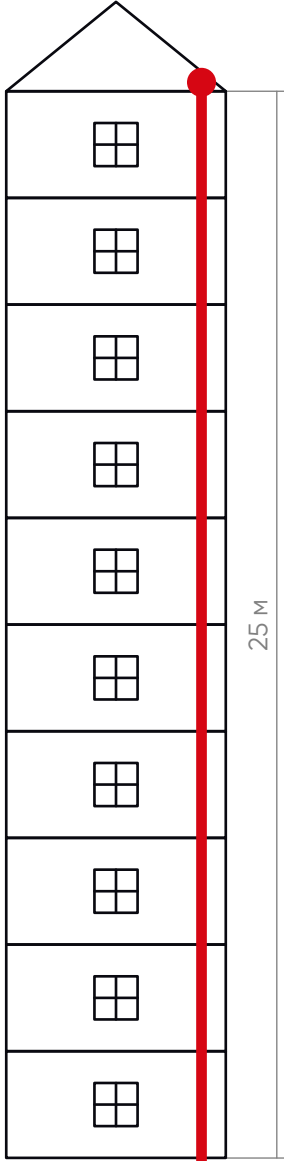


# special features: 48 V DC version

For the VA and HC versions, DMX-512 can function with a voltage of 48 V DC. In this configuration, the length of LACE can be increased to 25 meters if power and control are connected from a single side.



Standard LACE with DMX control



New LACE implementation featuring DMX control and 48 V DC power.

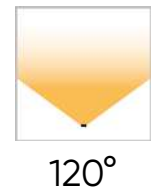
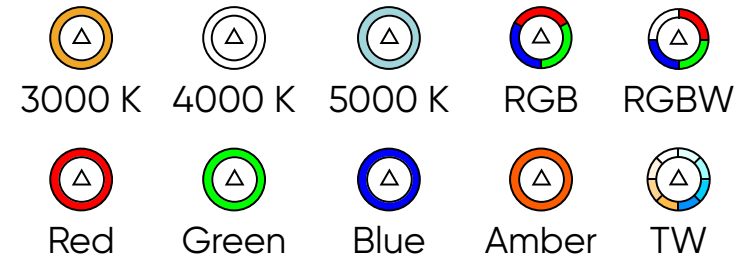
# special features: High Efficiency version

For the VA and HC versions, you can access the High Efficiency performance model, which boasts an improved luminous flux of 80%.

	Power	W/m	lm/m	lm/W	increase
	High	15	470	31	83%
	High	15	855	57	
LACE HC-...	Standard	10	340	34	79%
LACE-VA-...	Standard	10	610	61	
	Low	5	170	34	82%
	Low	5	310	62	

# technical data sheet

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**Power, W**  
5-24

**Luminous flux, lm**  
16-1600

**Voltage**  
24 V DC, 48 V DC

IP67 IP68 IK09

**Controls**  
DMX-512, PWM

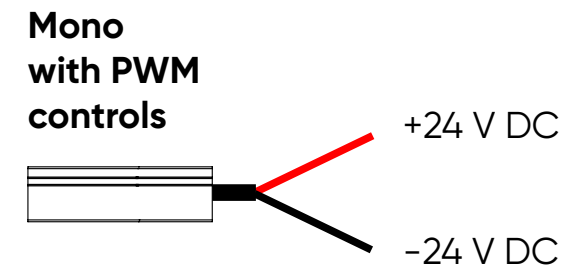
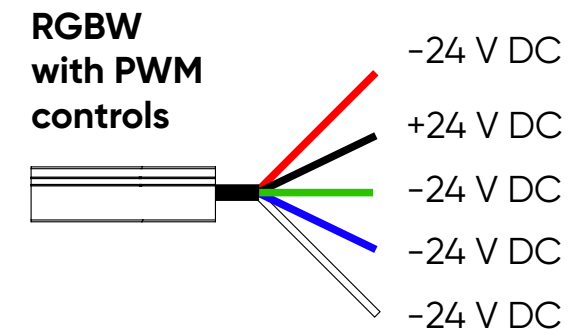
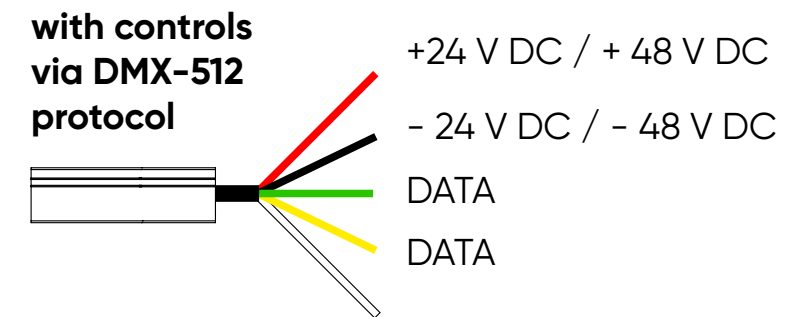
**Controls, pixel size**  
DMX-512: 1 meter – 8 pixel,  
6 pixels for CL48  
PWM: 1 line - 1 pixel

**Accessories**  
profiles  
clips  
brackets

**Maximum length**  
50m for IP67  
5m for IP68

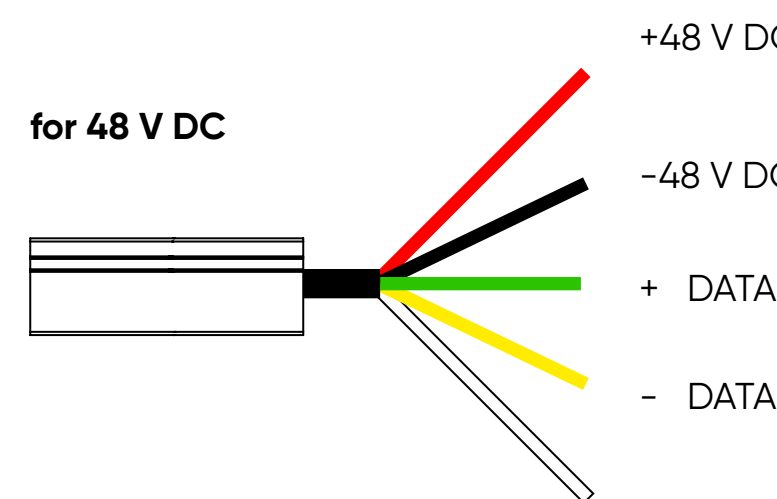
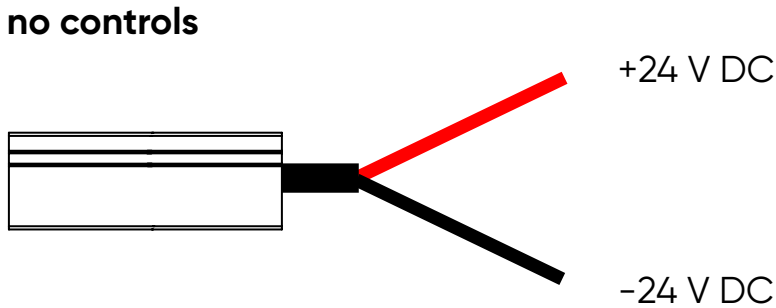
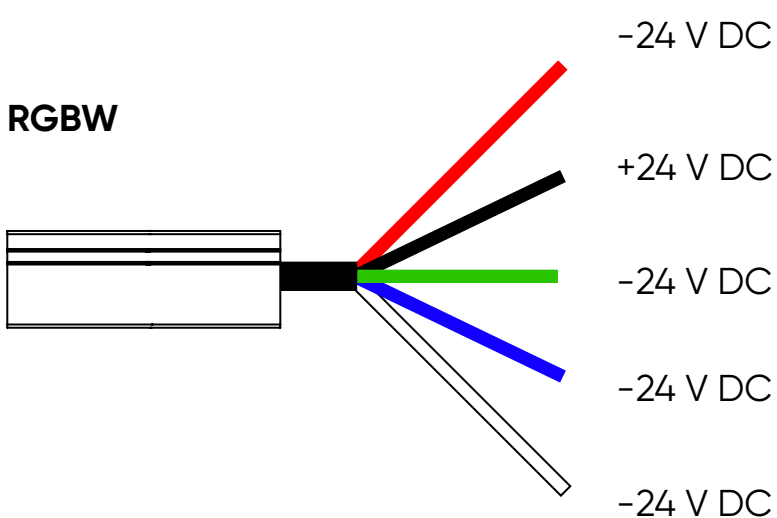
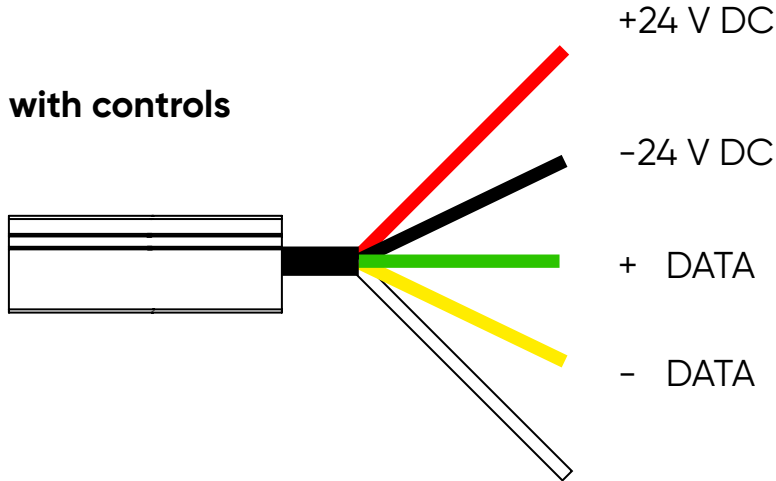
**Lifespan**  
not less than 50 000 hours  
  
- 40°C + 55°C

## Connection

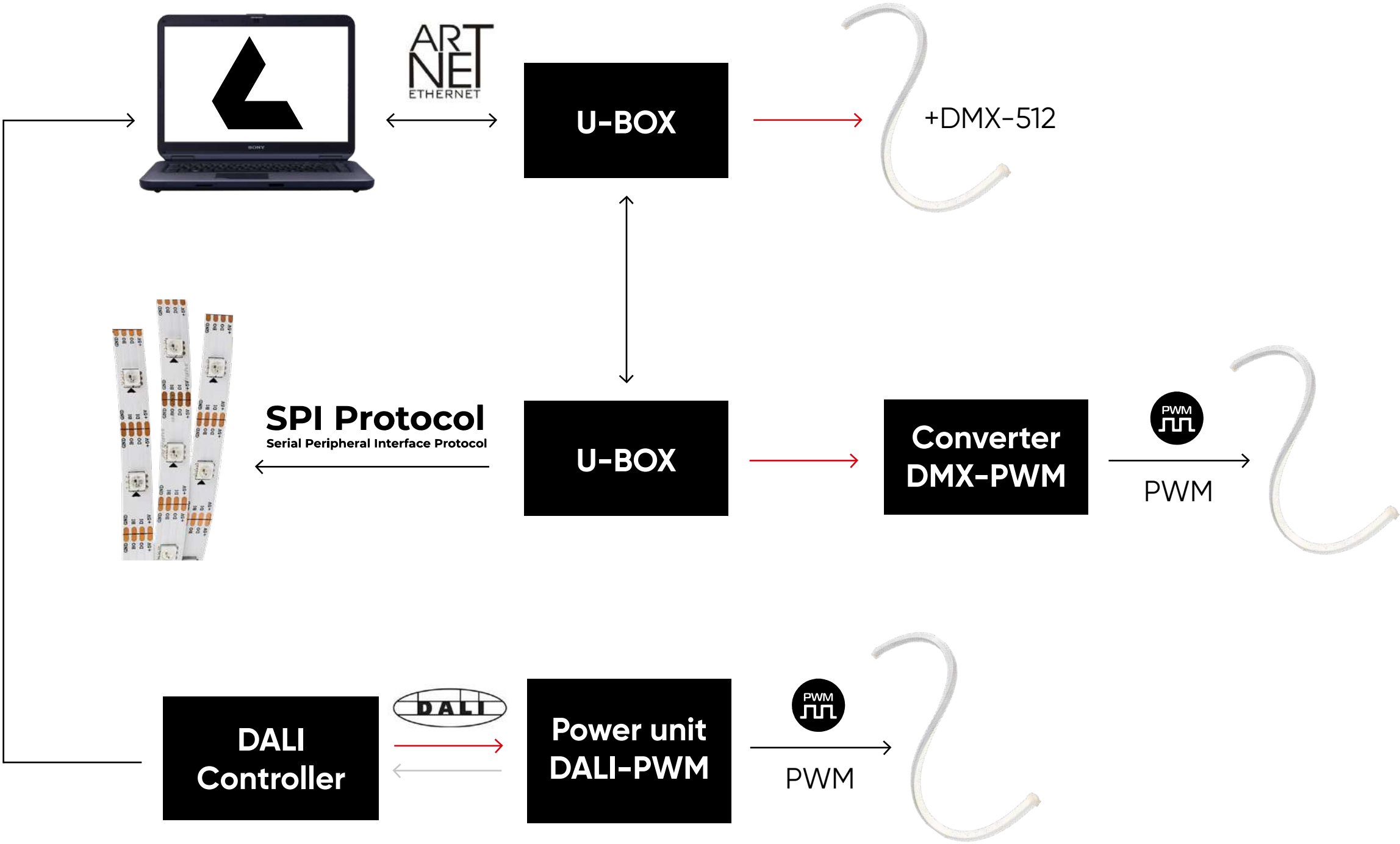


# connection

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# control protocols



# execution options: body color choices

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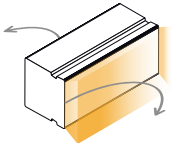
We offer three options for pairing the body color with the diffuser:

- **white**  
for certain façades, achieving the maximum light output can appear especially prominent during daylight.
- **gray**  
While the light output might be diminished, this option is perfect for scenarios where the lighting system should be less noticeable on the façade during daylight hours.
- **black**  
during the daytime, the luminaire blends seamlessly into the black façades, making it almost invisible; however, it provides the lowest light output.

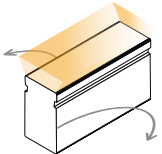


# execution options: dimensions and flexibility

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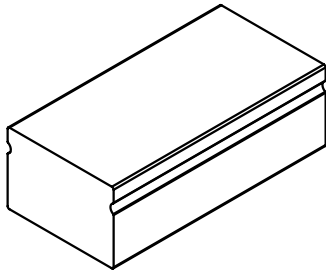
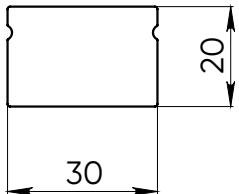


vertical

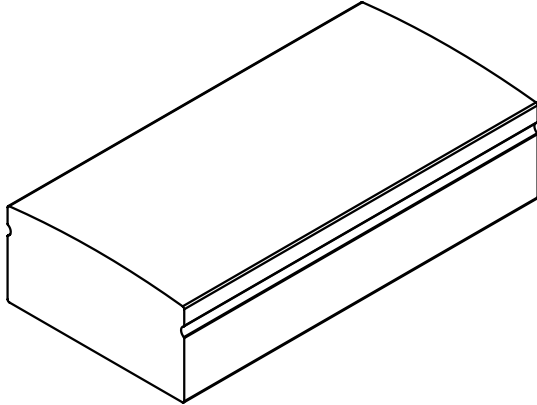
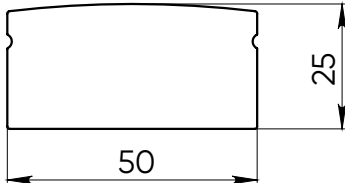


horizontal

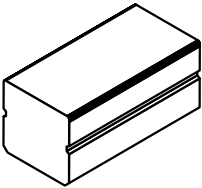
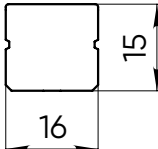
**VF**



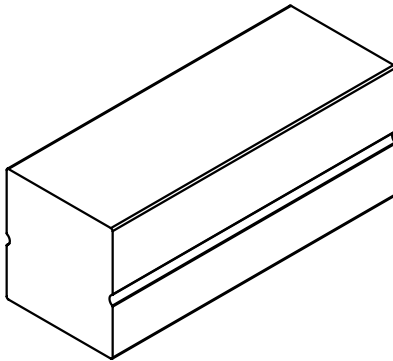
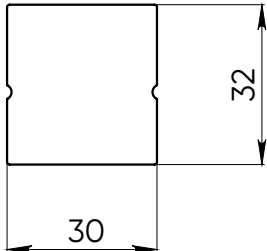
**VK**



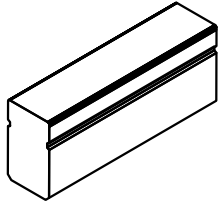
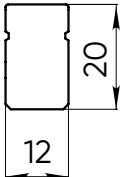
**VA/VB**



**HJ**

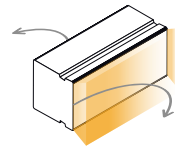


**HC/HD**



# execution alternatives: model range

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vertical

Serial code	Color	W/m	lm/m	IP
VA	white	5/10/15	455/900/1290	67
	colored mono	5/10/15	310/550/700	
	RGBW	5/10/16	190/370/547	
	TW	5/10/15	250/495/740	
VB	white	5/10/15	560/900/1240	68
	colored mono	5/10/15	380/510/620	
	RGBW	5/10/15	440/670/860	
VF	white	16/20/24	1067/1298/1534	67
	RGBW	16/20/24	591/720/840	
	TW	16/20/24	1008/1232/1457	
VK	white	15	869	67
	RGBW	15	524	
	TW	15	794	

Serial code	Power*	Color	Cable output**	Protection class
VA	L S H	W30 W40 W50	S E B	IP67
VB		R G B RGBW TW		

\*L – power 5 W/m  
S – power 10 W/m  
H – power 15 W/m

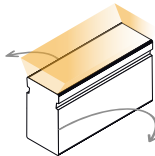
\*\*S – cable output from the side  
E – cable output from the end  
B – cable output below

Serial code	Power*	Color	Cable output**	Protection class
VF	L S H	W30 W40 W50 TW RGBW	E B	IP67
VK				

\*L – small  
S – standard  
H – high

\*\*E – cable output from the end  
B – cable output below

# execution alternatives: model range



## horizontal

Serial code	Color	W/m	lm/m	IP
HC	white	5/10/15	310/610/855	67
	colored mono		200/370/470	
	RGBW		110/210/340	
	TW		150/280/400	
HD	white	5/10/15	330/640/950	68
	colored mono		180/350/480	
	RGBW		260/510/750	
HJ	white	15	743	67
	RGBW		542	
	TW		650	

Serial code	Power*	Color	Cable output**	Protection class
HC	L S H	W30 W40 W50 R G B RGBW TW	S E B	IP67
HD		W30 W40 W50 R G B RGBW		
HJ		S	W30 W40 W50 RGBW TW	E

\*L – small  
S – standard  
H – high

\*\*S – cable output from the side  
E – cable output from the end  
B – cable output below

# LACE VF - L - W30 - S1E - 100 - IP67 CL24

LACE	bend	form factor	power	glow color	cable output	power cable	availability of a connector	length	IP	features
	<b>V</b> vertical <b>H</b> horizontal	<b>A</b> 16x15 <b>B</b> 16x15 IP68 <b>C</b> 12x20 <b>D</b> 12x20 IP68 <b>F</b> 30x20 <b>J</b> 30x32 <b>K</b> 50x25	<b>L</b> small <b>S</b> standard <b>H</b> high	<b>W30</b> 3000 K <b>W40</b> 4000 K <b>W50</b> 5000 K <b>A</b> amber <b>R</b> red <b>G</b> green <b>B</b> blue <b>RGBW</b> multichip R+G+B+W <b>TW</b> tunable T color	<b>S</b> from the side <b>E</b> from the end <b>B</b> below	<b>1</b> only on the left <b>1R</b> only on the right <b>2</b> on both sides	<b>E</b> connector	<b>100</b> 100 cm	<b>IP67</b> <b>IP68</b>	<b>CL24</b> DMX-512, 24 V DC <b>CL48</b> DMX-512, 48 V DC <b>HE</b> increased efficiency <b>SPI</b> SPI controls <b>RAL</b> body color

projects

Pokrovsky Monastery  
Moscow

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# projects

Kant Island  
Kaliningrad



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projects

Pregol embankment  
Kaliningrad

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Light. Done right.