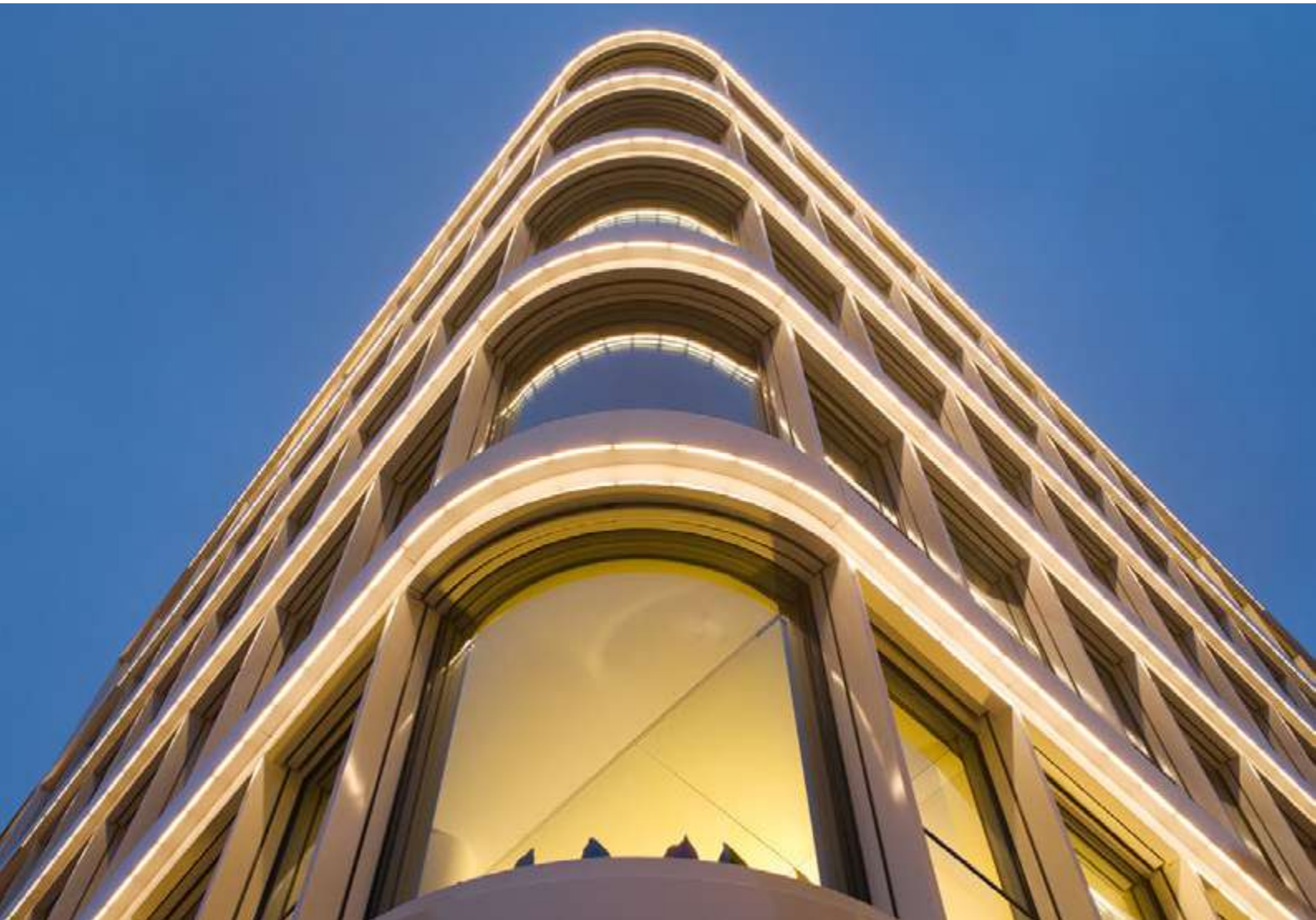





# FAÇADE LIGHTING

## APPLICATION NOTE



Direct view and indirect view

 LINEAR  
 MODULAR  
 INFINITE

## FAÇADE LIGHTING

What is façade lighting  
and why do we need it?

Façade lighting of our buildings is essential in creating aesthetically pleasing urban environments. Buildings nowadays need to be iconic landmarks and distinct in the way they present themselves both in day and night. Carefully designed night lighting on the façades that respects the building's architecture, context while controlling light trespass are quite important in making an image that is enjoyed by all.

Façade lighting can come in two types -

1. Direct lighting
2. Indirect lighting

Which parameters have  
to be carefully evaluated?

- Direct light or indirect light
- Weather resistance
- Light distribution
- Integration into façade detail & maintenance



Direct view VENUS True Color Top View  
shining down





## Direct view

## PRODUCT OVERVIEW

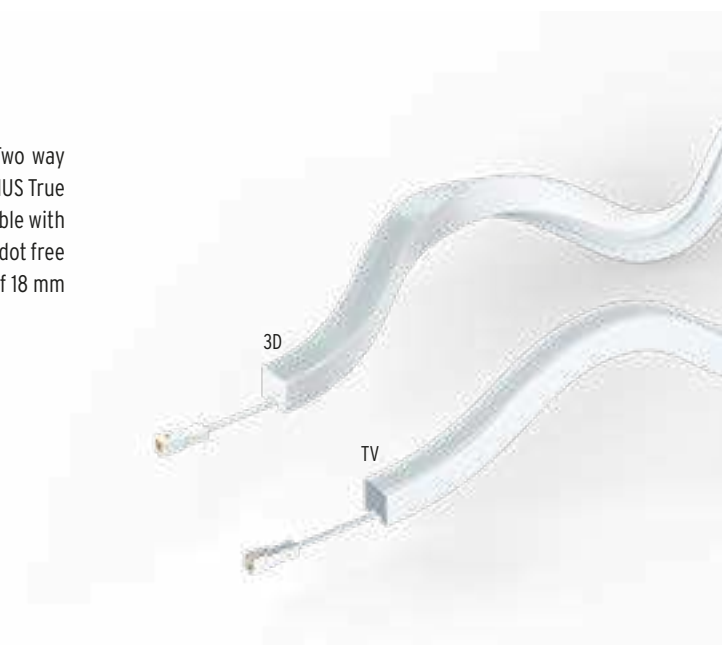
## VarioLED™ Flex VENUS True Color TV/ 3D IP67

VENUS True Color comes in two versions - Top View (TV) and 3D. Two way bending from top to bottom in a radius of 150 mm is possible with VENUS True Color TV. Bending in all directions and even twist it by 180°/m is possible with the 3D version. Both versions offer an opal encapsulation and totally dot free protected flexible LED design light lines with a small cross section of 18 mm x 17 mm and max. length of 3,970 mm.

IP67 rated. Comes with IP67 connectors as standard.

Suitable applications:

**Slim lines of light directly fixed onto façade,  
silhouetting façade profiles, signage**



## ADONIS IP67

Ideally used as a surface mounted rigid luminaire for outdoor applications. The ADONIS is a versatile luminaire that can also be used indoor for specific applications. Its main advantage is its small form factor (only 20.5 mm x 25.5 mm) with a very high lumen output of up to 2,620 lm/m. ADONIS is characterized by its formal elegance and absolutely dot free, homogeneous light emission surface. Delivered with translucent end caps for a perfect fixture to fixture light overlap. It is available in five standard lengths and is supplied ready to plug in with IP67 mini connectors.

IP67, IK10 rated. Comes with IP67 connectors as standard.

Suitable applications:

**Surface mounted directly onto façade elements such as walls.**



## XOOLUM™ IP67

XOOLUM™ is offering an enormous modularity and user-friendliness combined with a lumen output of up to 1.920 lm/m. This fixture is created from natural anodized aluminum, with absolutely homogeneous light over its entire surface with an opal encapsulation. The luminaire can be easily cleaned as it is surface washable, and highly resistant to harsh climatic conditions. It is innovative with an adjustable luminaire head (45°) that can be tilted to where light is desired.

IP67 rated.

Suitable applications:

**Straight runs of high brightness direct view light,  
on façades, building edges, canopies.**



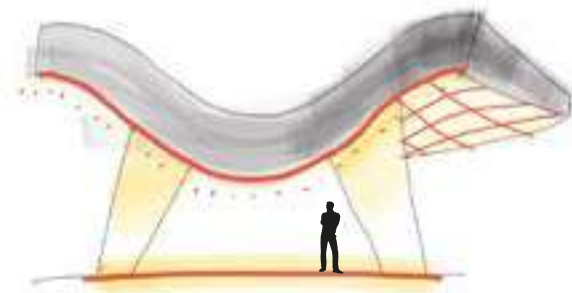




## Direct view

### APPLICATION IDEA

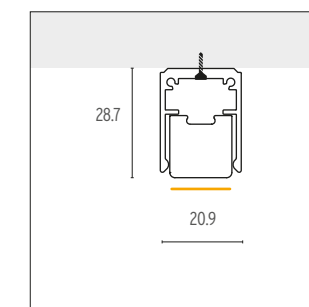
1<sup>st</sup> method of using façade lighting –  
to highlight organic shapes of external elements



Continuous light around roof

Special curved profiles of façade elements are illuminated with dot  
free fixtures that can directly be mounted onto the architectural surface.

## Surface-mounted



### Mounting accessories



VTC Surface Mounting  
Clip High  
Art. #: 13000278

### Description

Robust aluminum extrusion painted  
clips with cable race in white for  
surface mount.





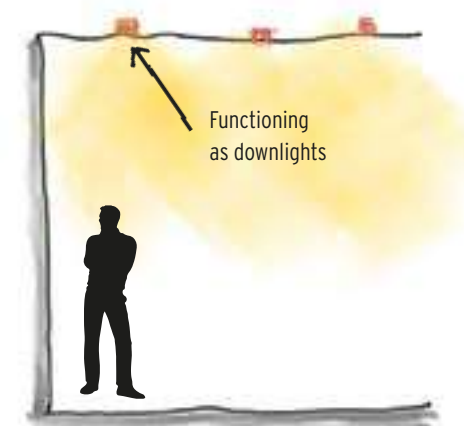


ADONIS IP67 mounted with aluminum clips

## Direct view

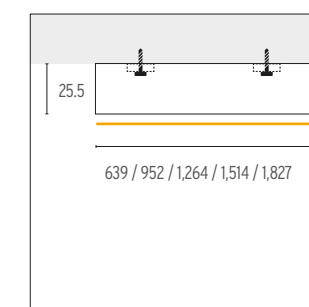
### APPLICATION IDEA

2<sup>nd</sup> method of using façade lighting – as an external downlight



Opal dot free linear profiles arranged in a decorative pattern following façade elements can provide functionality of downlights.

## Surface-mounted, fixed



### Mounting accessories



Sliding block C010 Set,  
incl. Screw  
Art.-#: 13000287



VarioClip 010 Set  
Art.-#: 13000202

### Description

Metal mounting block with sets screw for down lighting applications. Install inside the fixture profile to stop the fixture from sliding. Recommended to use one mounting lock per fixture and clips every 60 cm.



All dimensions in mm.

[www.led-linear.com/adonis](http://www.led-linear.com/adonis)

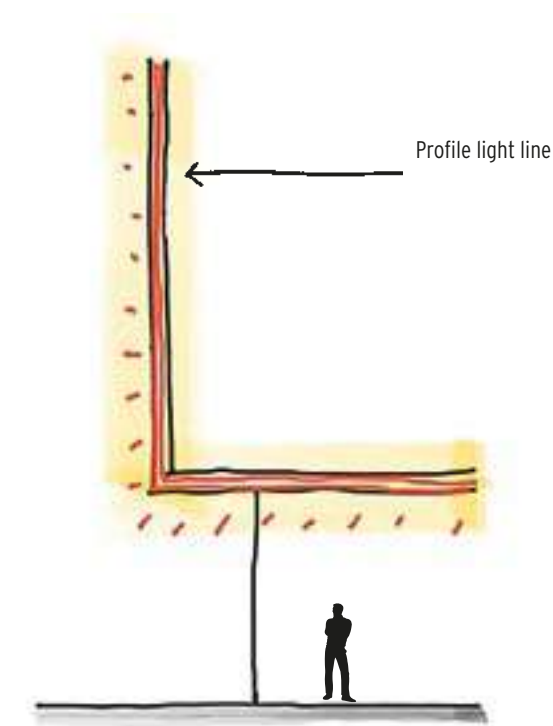




## Direct view

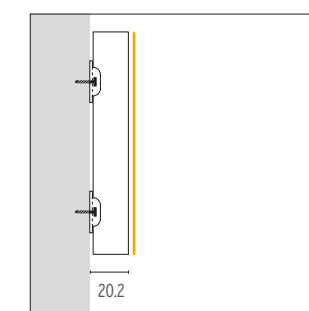
### APPLICATION IDEA

3<sup>rd</sup> method of using façade lighting –  
to highlight the shape of the façade



The outer profile of the façade is easily picked up with a continuous direct view linear light. End to end connections appear as seamless on the façade.

### Surface-mounted, fixed



#### Mounting accessories



Plastic Mounting Bracket  
Digits in order code: PCL

#### Description

White plastic surface mounting clip.  
Recommended to use every 50 cm.  
Cannot be used together with the  
aluminum mounting profile.







VarioLED™ Flex VENUS True Color TV, installed with clear clamps  
Photo: Frédérique Félix-Faure, François Moura, Guillaume Ombreux

## Direct view

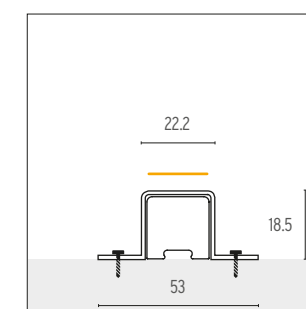
### APPLICATION IDEA

4<sup>th</sup> method of using façade lighting – to follow special arches and non-standard profiles of façade elements



Special shaped profiles of façade elements are illuminated with dot free fixtures that can directly be mounted onto the architectural surface.

## Surface-mounted



### Mounting accessories

VTC Surface Holding Clamp  
Clear  
Art.-#: 13000279

### Description

PVC casting clamp for surface mount.

All dimensions in mm.

[www.led-linear.com/venustc](http://www.led-linear.com/venustc)





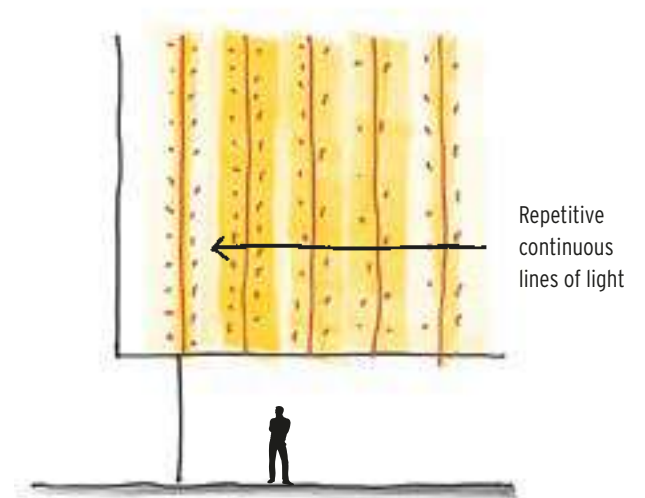


ADONIS IP67 installed with mounting locks for vertical installation  
Photo: Jan van Lierde

## Direct view

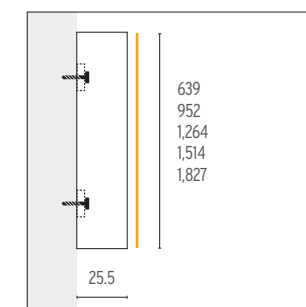
### APPLICATION IDEA

5<sup>th</sup> method of using façade lighting –  
as a repetitive façade lighting element



Several repetitive lines of light create a strong façade lighting impression.

### Surface-mounted, fixed



#### Mounting accessories



Sliding block C010 Set,  
incl. Screw  
Art.-#: 13000287



VarioClip 010 Set  
Art.-#: 13000202

#### Description

Metal mounting block with set screw for vertical applications. Install inside the fixture profile to stop the fixture from sliding. Recommended to use one mounting lock per fixture and clips every 60 cm.



All dimensions in mm.

[www.led-linear.com/adonis](http://www.led-linear.com/adonis)



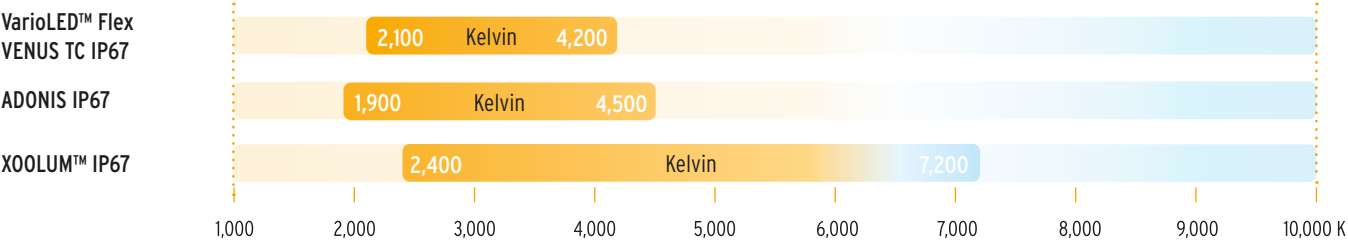
Direct view

# TECHNICAL DATA

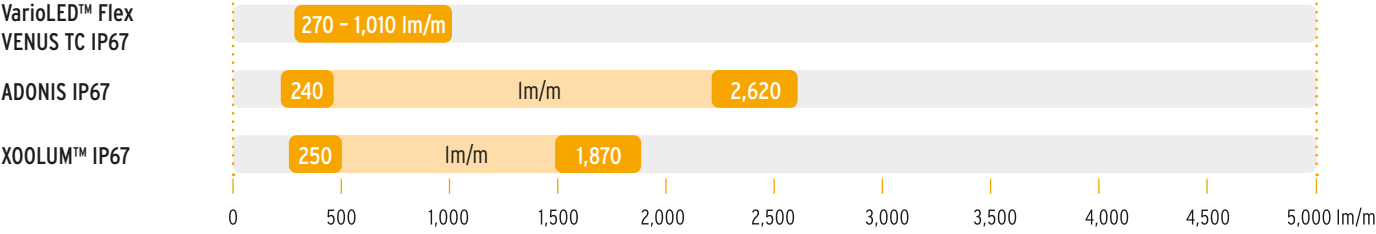
General data

	VarioLED™ Flex VENUS TC IP67	ADONIS IP67	XOOLUM™ IP67
Ingress protection	IP67	IP67	IP67
CRI	up to 95	up to 96	up to 96
Efficiency	up to 68 lm/W	up to 73 lm/W	up to 77 lm/W
Cross section	18 mm x 17 mm	20.5 mm x 25.5 mm	25.4 mm x 31 mm

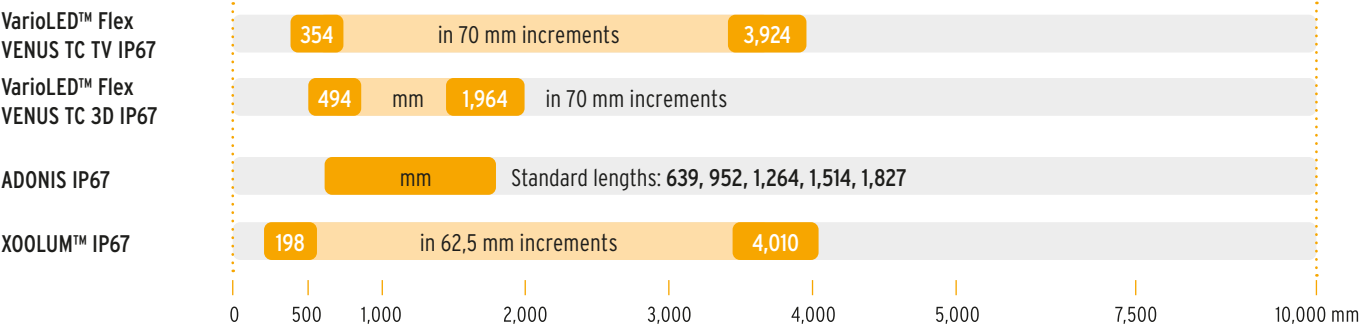
Color temperature (Kelvin)



Luminous flux (Lumens per meter)



Length (mm)







XOOLUM™ IP67 installed with mounting profile  
Photo: Michael Conroy

## Indirect view PRODUCT OVERVIEW

### XOOLINE™ IP67

XOOLINE™ IP67 offers a tremendous modularity and ease of installation. Extruded and anodized aluminum housing profile in standard or custom length with IP67 connectors on the side in combination with 8 types of optics allows a variety of façade and external applications.

Translucent screwed end caps for a perfect fixture to fixture light overlap. Thanks to its smart order code no extra mounting accessories are needed since it is already included.

**Replacement product:** ADONIS IP67

IP67 rated. Comes with IP67 connectors as standard.

Suitable applications:  
**Projected indirect light onto façade elements.**



### HYDRALUX™ White IP67

HYDRALUX™ offers the best in class flexible lengths in outdoor lighting and will be delivered as a whole reel. Based on incremental step measurement (62.5 mm or 125 mm) this flexible and light intensive LED line can be shortened on site to the desired length and then simply be installed by using the IP67 rated connectors.

Even with an optimized field cuttable technology, HYDRALUX™ can offer very high lumen outputs - up to 1,650 lm/m. It is water and UV protected. The small cross section of 12.5 mm x 3.5 mm (W x H) allows it to be utilized in almost any condition.

IP67 rated.

Suitable applications:  
**Façade coves and groove lines, canopies.**



### VarioLED™ Flex HYDRA White IP67

VarioLED™ Flex HYDRA is the smallest solution with pre soldered male and female IP67 connectors. It comes with a maximum product length of 7,500 mm and with a maximal run length of 10,000 mm.

It is water and UV protected. The small cross section of 12.5 mm x 3.8 mm (W x H) allows it to be utilized in almost any condition.

IP67 rated. Comes with IP67 connectors as standard.

Suitable applications:  
**Façade coves and groove lines, canopies.**





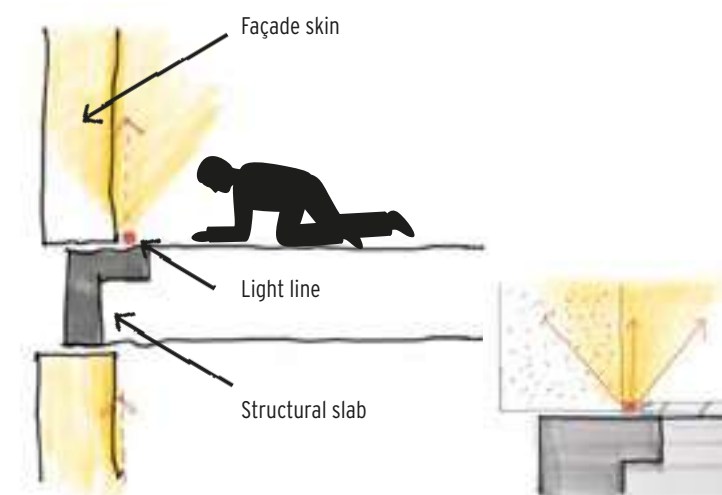


XOOLINE™ with opal cover to illuminate the façade, installed with aluminum clips  
Photo: Michael Conroy

## Indirect view

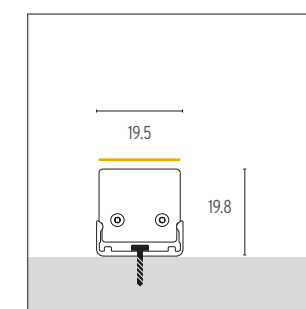
### APPLICATION IDEA

1<sup>st</sup> method of using façade lighting –  
as a highlighter for shapes and materials



Even if exposed to weather elements, luminaires such as the XOOLINE™, can provide a soft light distribution to illuminate the wall materials and provide a consistent glow of the façade.

## Surface-mounted



### Mounting accessories

0° aluminum mounting  
clip in 90 mm length  
Digits in order code: CLO

### Description

Aluminum surface mounting bracket,  
recommended to use every 50 cm.  
Available in four different angles.

All dimensions in mm.

[www.led-linear.com/xooline](http://www.led-linear.com/xooline)





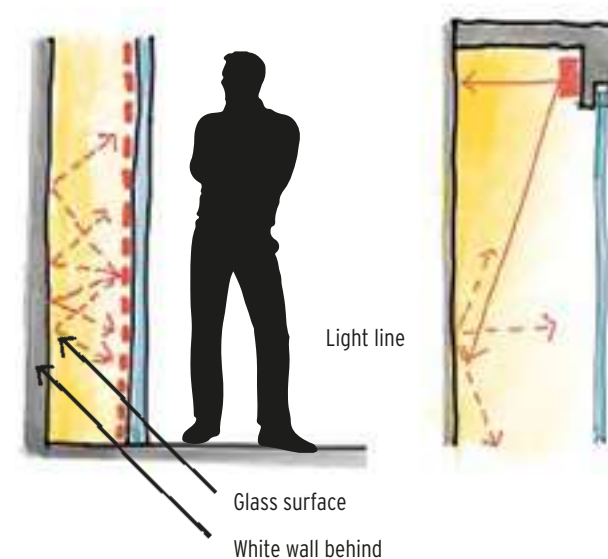


HYDRALUX™ IP67 installed vertically behind glass panels, installed with clear clips  
Photo: SS.inc

## Indirect view

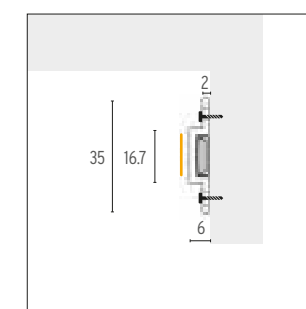
### APPLICATION IDEA

2<sup>nd</sup> method of using façade lighting –  
linear wash light to enhance architectural surface



The light source must be placed behind the architectural material such as glass and illuminate the rear surface so that only the effect of indirect light is visible.

### Surface-mounted, Clips



#### Mounting accessories

VarioClip Flex 12.7 mm  
Clear (Set of 50)  
Art. #: 13000115

#### Description

Clear plastic mounting clips. Use to mount the product on hard surfaces. Sold as set of 50 pieces.

All dimensions in mm.

[www.led-linear.com/hydralux](http://www.led-linear.com/hydralux)





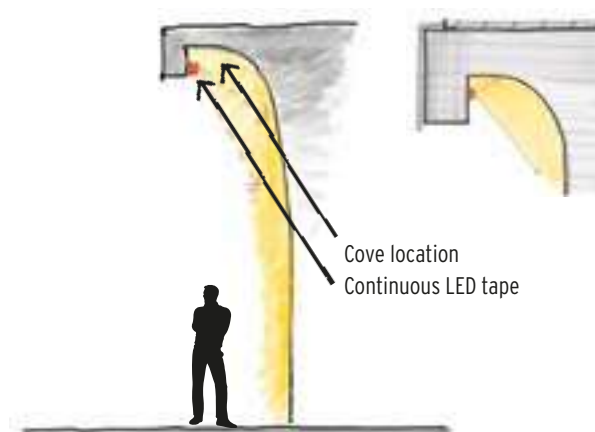


Flex tape IP67 as a continuous light line, installed with clear clips  
Photo: Daniel Kessler, Zurich

## Indirect view

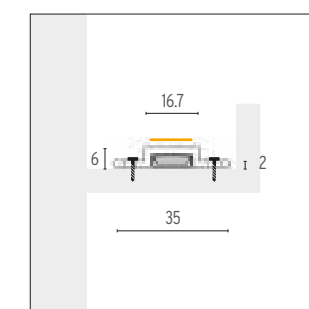
### APPLICATION IDEA

3<sup>rd</sup> method of using façade lighting –  
as an external cove light



The flex tape being rated for exterior usage, allows flexible solutions in which continuous lengths of the tape can have simple fixing with clips to the cove edge, while illuminating the architectural profile without any shadow spots.

## Surface-mounted, Clips



### Mounting accessories

VarioClip Flex 12.7 mm  
Clear (Set of 50)  
Art.-#: 13000115

### Description

Clear plastic mounting clips. Use to  
mount the product on hard surfaces.  
Sold as set of 50 pieces.

All dimensions in mm.

[www.led-linear.com/varioledflex](http://www.led-linear.com/varioledflex)



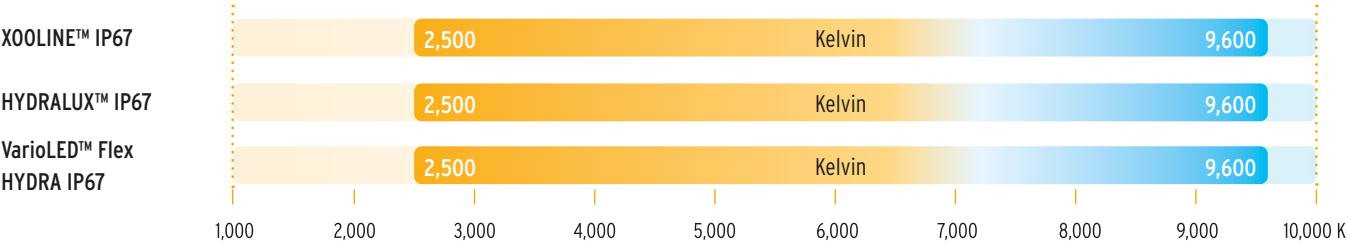


TECHNICAL DATA

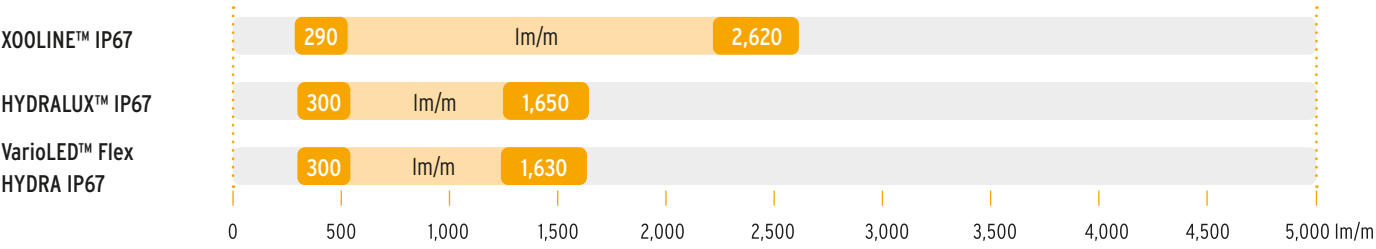
General data

	XOOLINE™ IP67	HYDRALUX™ IP67	VarioLED™ Flex HYDRA IP67
Ingress protection	IP67	IP67	IP67
CRI	up to 96	up to 96	up to 96
Efficiency	up to 107 lm/W	up to 110 lm/W	up to 109 lm/W
Cross section	19.5 mm x 21.9 mm	12.5 mm x 3.5 mm	12.5 mm x 3.8 mm

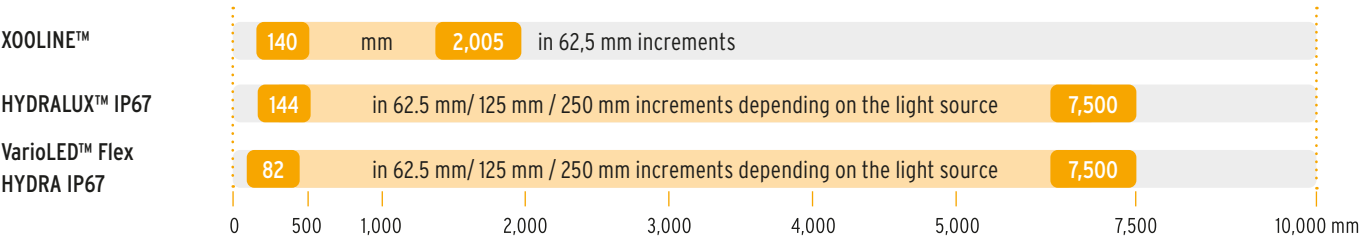
Color temperature (Kelvin)



Luminous flux (Lumens per meter)



Length (mm)





**LED Linear™ GmbH**  
Dr.-Alfred-Herrhausen-Allee 20  
47228 Duisburg  
Germany  
Phone: +49 2065 94322-100  
Fax: +49 2065 94322-120  
[info@led-linear.com](mailto:info@led-linear.com)

