



Twilight Urbaneco





# Light First

## Social innovation through lighting

### Socially engaged

iGuzzini is an international community at the service of architecture and the development of the culture of lighting, for a better society and a better life. It is a centre of excellence for the study of lighting in its various forms; it produces lighting systems in collaboration with leading lighting designers, architects, designers, universities and R&D centres all over the world. **Respect for the environment, biological wellbeing, and sustainable economies:** these are the drivers for the positive development of society on a global scale. Lighting is first and foremost for people, our commitment being to promote a responsible use of energy by public organisations, by the great protagonists of architecture, industry and commerce, supporting town mayors for a real improvement in wellbeing and quality of life.

### Lighting innovation

Social innovation means responding to emerging needs with new ways of cooperating, in open networks, producing sustainable ideas and identifying new tools. Lighting can change things. It is at the centre of social change. It is the expression of **new vital energy** running through the city, building architecture, creating wellbeing for people. Lighting speaks about nature. It reveals worlds and relations, communities and mechanisms. iGuzzini works to improve the relation between man and the environment with lighting, through research, manufacturing, technology and knowledge.

[iguzzini-na.com](http://iguzzini-na.com)



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**Twilight.**  
Urbaneco.

Twilight gives value to urban economy  
and social wellbeing.



**Twilight Joburg**  
IES II / IES II C / IES I / SM / E



**Twilight Bilbao**  
IES II / IES II C / IES I / SM / E





A liveable city is a beautiful city. Twilight gives value to urban ecology. The best light is natural light just before sunset. It is that magical moment we call Twilight. Twilight extends this good light in places where people enjoy walking, like parks and local streets, converting public areas into the ideal setting for urban social relations. It is available in four versions, all of them with an extremely compact and efficient optical assembly. The two symmetrical and elliptical optics, designed for urban spaces such as squares and pedestrian

and residential areas, are augmented by the Opti Smart IES I, IES II and IES II C, optics to extend the Twilight light, with pole or wall installation, to urban and suburban streets with intense vehicular traffic.

The decorative parts are available for all types of optics in the Joburg, Bilbao, Canberra and Odense versions, to adapt the light flux to the city's requirements. Customised versions are available to convert Twilight into a cosmopolitan solution.



**Twilight Canberra**  
IES II / IES II C / IES I / SM / E



**Twilight Odense**  
IES II / IES I / SM / E

# Spec Guide

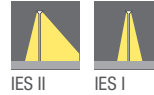
## Twilight Joburg

Pole-mounted versions

### Dimensions



### Optics



IES II

IES I



SM

E

lm

867 / 988  
2363 / 2710

W

12  
34

Colour

3000  
4000K

Control

On - Off  
0-10 V \*

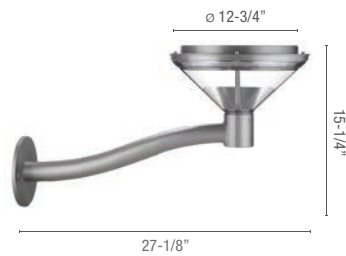
2132 / 2297  
3530 / 3761

22  
33

3000  
4000K

On - Off  
0-10 V \*

Wall-mounted versions



IES II C

690 / 778

12

3000  
4000K

On - Off  
0-10 V \*

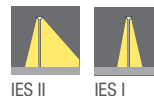
## Twilight Bilbao

Pole-mounted versions

### Dimensions



### Optics



IES II

IES I



SM

E

lm

1813 / 2161  
2819 / 3355

W

34  
49

Colour

3000  
4000K

Control

On - Off  
0-10 V \*

1921 / 1073  
3093 / 3261

22  
33

3000  
4000K

On - Off  
0-10 V \*

Wall-mounted versions



IES II C

1695 / 1907  
2592 / 2926

34  
49

3000  
4000K

On - Off  
0-10 V \*

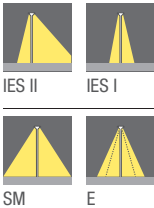
Twilight Canberra

Pole-mounted versions

Dimensions



Optics



lm

867 / 982

W

12

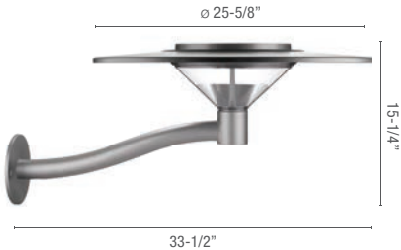
Colour



Control

On - Off  
0-10 V \*

Wall-mounted versions



690 / 778

12



On - Off  
0-10 V \*

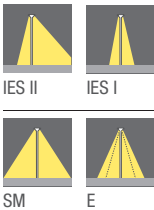
Twilight Odense

Pole-mounted versions

Dimensions



Optics



lm

1813 / 2161  
2819 / 3355

W

34  
49

Colour



Control

On - Off  
0-10 V \*

The values refer to the 4000K version  
\* No switch off possible diming rage 30% ÷ 100%

Colour temperature - CRI

4000K - CRI > 70  
3000K - CRI > 70  
4000K - CRI > 80\*  
3000K - CRI > 80\*

IP - IK protection rating

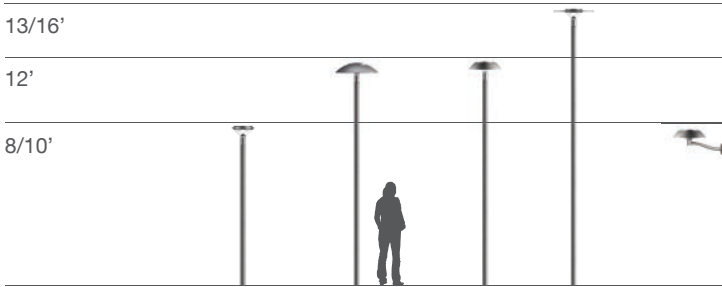
IP66  
IK10

Surge protection

10kV common mode  
6kV differential mode

Lifetime

≥100.000h L80 B10 Ta 25°C



Pole-top installation on conical and cylindrical poles with ø 2-3/8" and ø 3"end

\* SM and E optics only

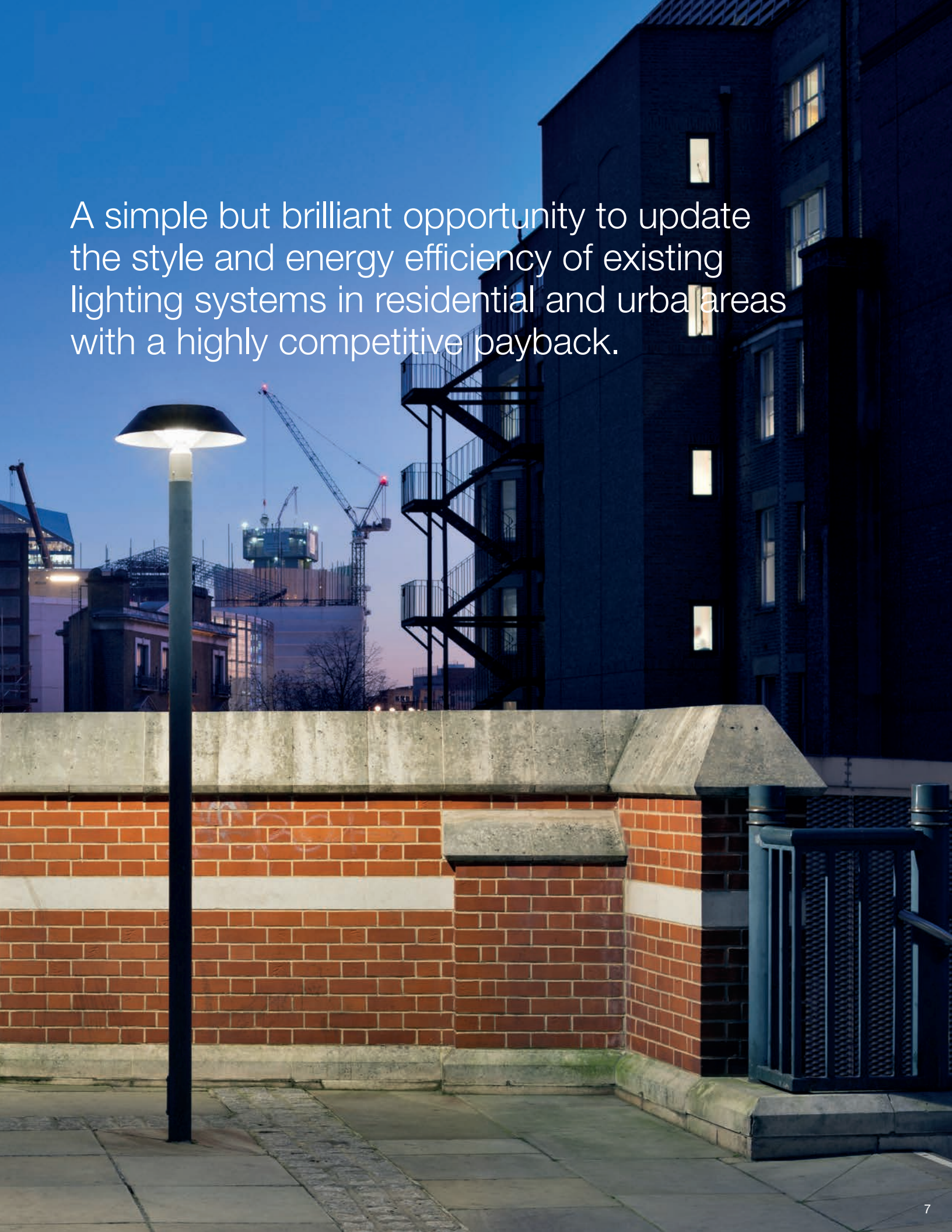
**Twilight.**  
Urbaneco.



Apothecary Street - London, United Kingdom  
Client: City of London  
Photo: James Newton



A simple but brilliant opportunity to update the style and energy efficiency of existing lighting systems in residential and urban areas with a highly competitive payback.





**As you like.**

We provide technology. You put style.

Twilight is technology, compactness and efficiency. These are the core elements on which to build the best solution for the specific needs of each city. Twilight lives in different functional and decorative versions, changing

colours, finishes, empty and solid volumes, shapes and inclination angles. Twilight travels around the world and stops in the ideal city to shine with local light.

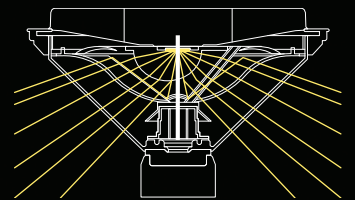
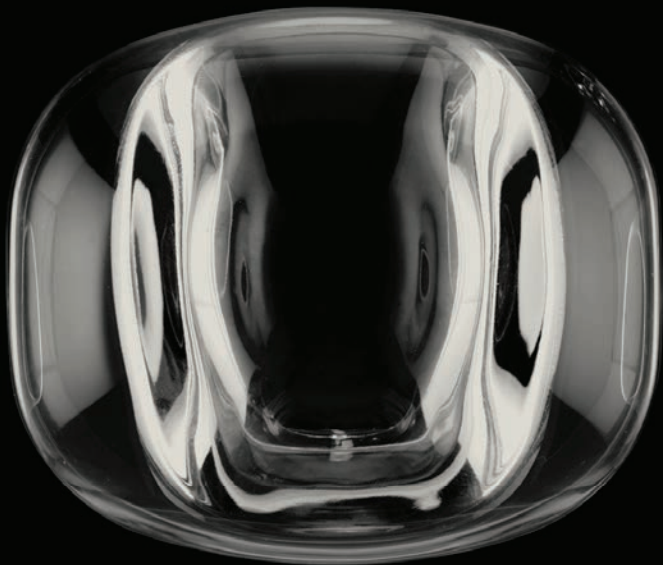


Cities are alive and change continuously in their behaviours. Activities, habits and traditions change over time, modifying places and generating new stimuli.

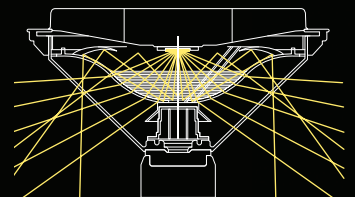


Images refer to potential custom products. For more information please contact your iGuzzini local reference.

We shape our lenses as a sculptor of light.  
Each optic follows its function and delivers  
visual and sustainable clarity.



Elliptical optic



Symmetrical optic

# Technological density.

## Optical skills.

Twilight is compact in size and features a geometry with no waste or exaggerations. A discreet, refined cone with a low dimensional impact delivers uniform light around the pole without projecting shadows. Light is controlled by an optical system made of high-reflecting materials, refractors, diffusers and flux recovery devices to guide illumination on horizontal and vertical surfaces, using all the useful light of the source to obtain the maximum luminous distribution and visual comfort with excellent efficiency values. An elliptical glass lens developed

by our Innovation Lab ensures maximum efficiency with a precise elliptical optic. The metallised polycarbonate reflector with variable prismatic finish increases the symmetrical distribution quality and the capacity of the optical system. Both elliptical and symmetrical optics have a multi-layered morphology that can be seen in transparency in the heart of the optical assembly to highlight the technological and aesthetic personality of Twilight.

Real efficiency up

**114** lm/W

to 2 times higher than  
the best sodium luminaires  
on the market.

1. Aluminium die-cast heat sink
2. High-reflecting superpure aluminium reflector
3. C.o.B LED
4. Glass lens especially developed for perfect elliptical distribution and very high energy efficiency (Innovation Lab)
5. Opal screen for uniform distribution of comfortable light
6. Flux recovery device to catalyse efficiency
7. Anti-UV polycarbonate external screen with IK 10



We design efficiency and visual well-being.  
Challenging the elements over time.  
Maximum resistance and solidity. IK 10.



- 1. Opti Smart Lens
- 2. Anti-reflection film
- 3. External anti-UV and anti-vandalism screen in polycarbonate IK10
- 4. Die-cast aluminium dissipator



# Technological efficacy.

## Street Smart.

The Opti Smart lenses, modelled with the free-form technology, create a perfect light, without defects. The centre to centre distance between the lenses maximises heat dissipation. The PMMA material used ensures maximum optical performance and does

not yellow, ensuring constant lighting performance over time. There are three lighting distributions available: IES II, for residential and urban streets, IES I for walkways and cycle paths, and IES II C for urban pedestrian streets.

### **IES II C for wall mounting**

Comfort optic for urban pedestrian paths.



### **IES I**

Road optic for roads with vehicular traffic or pedestrian paths with wall mounting.



### **IES II**

Road optic for urban and suburban roads with heavy vehicle traffic.



# Twilight.

## Responsive solutions.

Twilight offers a compact solution to replace existing and more invasive systems with traditional lamps, to obtain a more environmentally friendly urban and residential lighting. The symmetrical and elliptical optics deliver uniform lighting on horizontal and vertical surfaces, as well as excellent semi-cylindrical illumination to guarantee recognition and safety of pedestrians. Twilight Joburg makes it possible to upgrade existing installations, delivering urban and residential

lighting with a low environmental impact.

Twilight is enriched by two functional decorative elements: Twilight Bilbao eliminates optical pollution and Twilight Canberra creates 3D lighting to guarantee safety. Twilight Odense adds a new spherical top plate that completely limits upwards emission of light and can withstand weights of snow of over 240 Kg/sq.m.



### Twilight Joburg

Simple opportunity for aesthetic and energy updates.  
G\*1 ULOR< 1% for IES II and IES I.  
(As low as B1 - U2 - G1).



### Twilight Bilbao

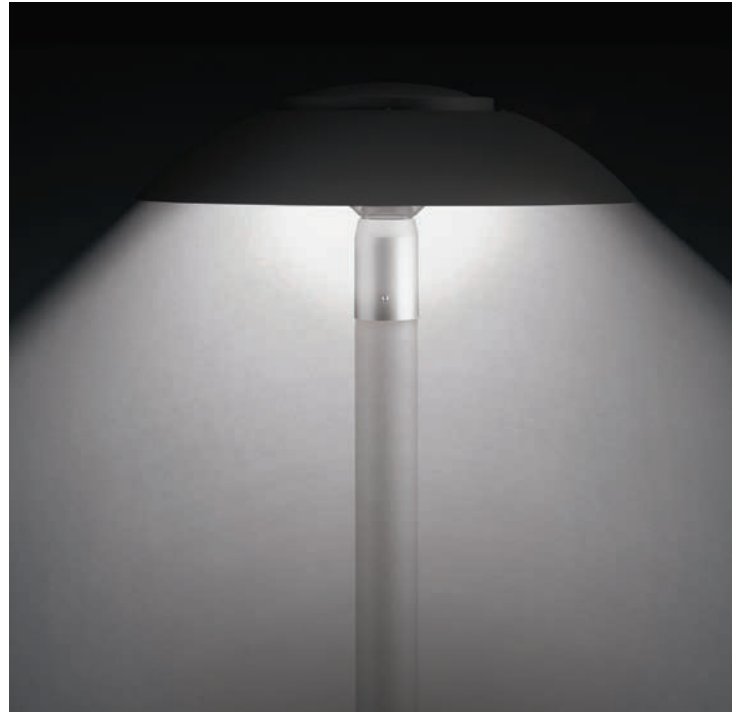
Absolute control over light pollution  
in harmony with the strictest  
standards. G\*6 ULOR< 0%.  
(As low as B1 - U0 - G1).

We differentiate solutions to personalize light as needed, giving each city its own life and identity.



**Twilight Canberra**

Control over light pollution and optimal semi-cylindrical distribution. G\*1 ULOR< 1% for IES II and IES I. (As low as B0 - U1 - G0).



**Twilight Odense**

Maximum resistance to snow loads and absolute control over light pollution. G\*6 ULOR< 0%. (As low as B1 - UØ - G1).



Historical centre  
Poitiers, France  
Simulation  
Lighting designer: Marc Aurel  
Photographer: Didier Boy de la Tour

# It's a system.

## Easy sustainability.

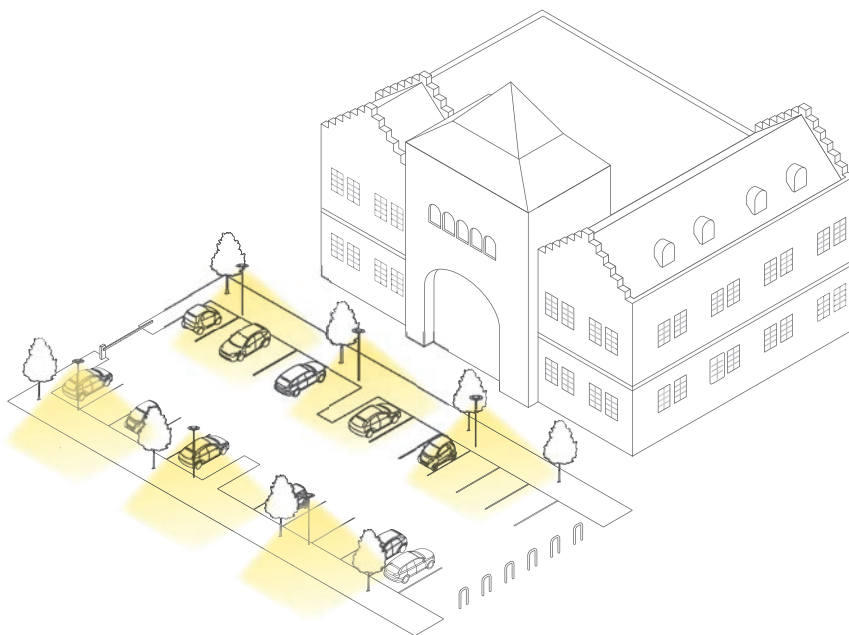
The efficiency of single elements has a value at system level. The excellent distribution capacity of Twilight optics is translated in larger spacing between luminaires in urban lighting installations, with economic and energy sustainability as direct consequence. Larger spacing allows for using a lower number of luminaires, thus reducing installation and operating costs. In existing installations the optical assembly can be easily replaced to obtain immediate energy saving. The actual efficiency of the luminaire becomes the installation

efficacy. Energy sustainability is guaranteed by parameter B10, a proof of declared lifetime and flux values. Analog dimmable lighting systems based on 0-10V technology in combination with the appropriate controllers and sensors provide the basis for simple and cost-effective lighting systems, with 30-70% stepless dimming. Finally, we support social sustainability because Twilight was studied to resist vandalism acts. Twilight creates a system and leaves its natural force to beauty.

### 0-10V

Control gear and controllers are connected to one another via a poled two-wire control line. The control voltage is determined by the dimming setting of the connected electronic ballasts.

Astro Dim function on request



## 100,000 hours

### L80 B10

Useful life is a statistic number used to indicate that after 100,000 h the luminous flux is equal to or higher than 80% of the initial flux (L80) for at least 90% of the LEDs (B10).

100 %

Led C.o.B.

0 h

20.000 h

40.000 h

60.000 h

80.000 h

L80 / B10 / Ta 25°

100.000 h

23 years  
x 4,350 hours per year



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iGuzzin

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StudioBuschi.com

**Rendering**

GelfoDesign

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