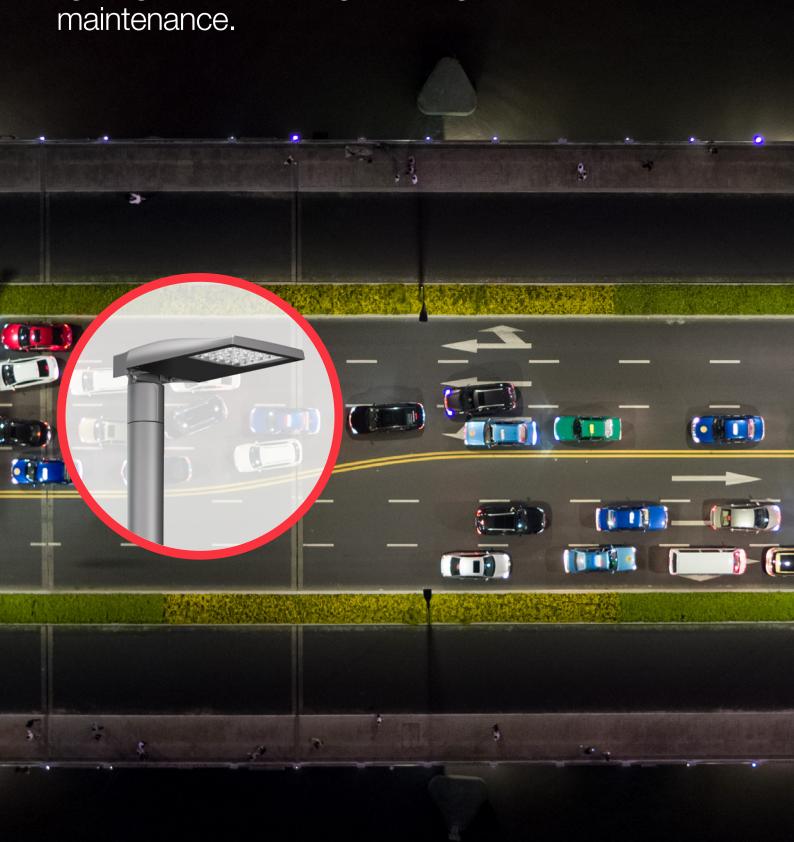


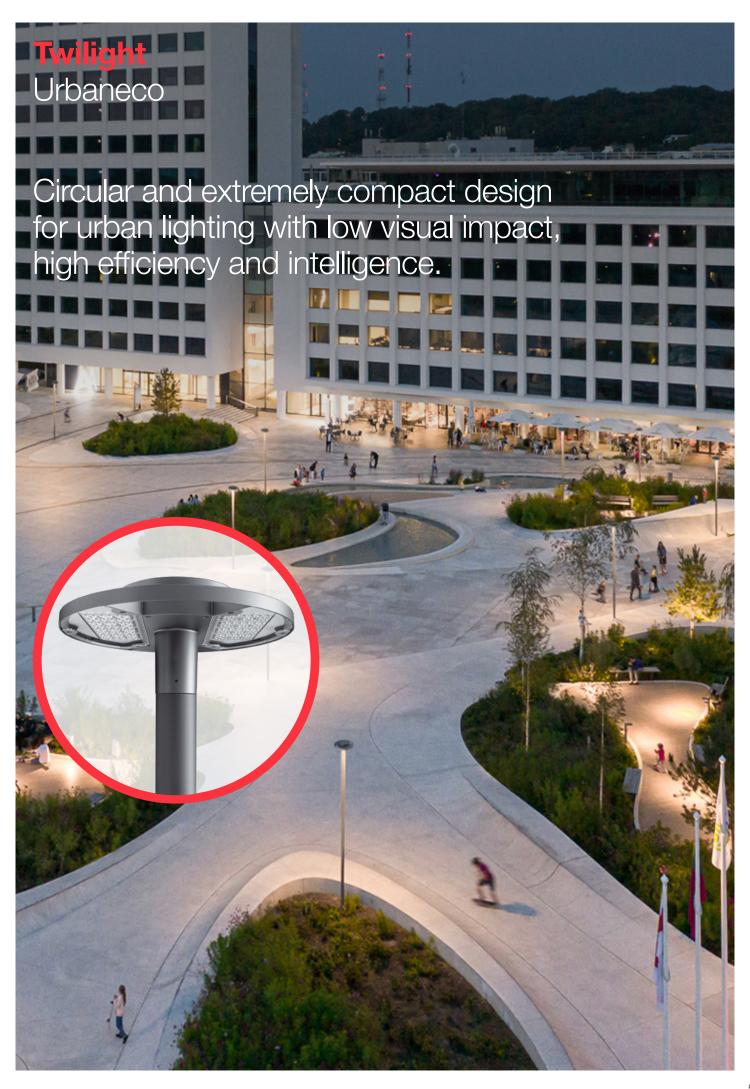
Lighting innovation for people.



Street Smart Value

High performance and convenience for functional lighting with easy programming, installation and maintenance.



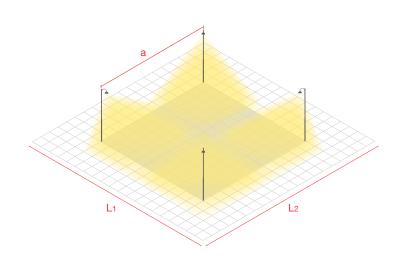


Street Efficacy.

From the optics to the system

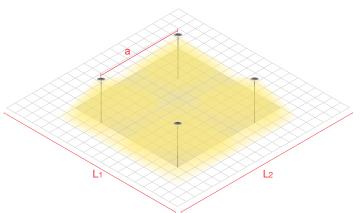
Individual efficiency plays an important role in the context of the system. We have developed optics that meet light distribution requirements in various urban settings to optimize efficiency and ensure visual comfort. The excellent distribution capacity of OptiSmart optics is evidenced by significantly higher inter-distance values than those normally calculated in urban lighting systems. This translates directly into economic and energy sustainability. Higher inter-distance values means that fewer devices can be used, with a consequent reduction in plant and operating costs.

In old systems, on the other hand, only the optical chamber can be replaced, obtaining immediate energy savings. The effective efficiency of the device becomes the effectiveness of the system. The position at the head of the C.o.B. LED ensures excellent heat dissipation and protects the performance of the light source used, with 80% luminous flux retention after 23 years. Energy sustainability is assured by parameter B10, a mark indicating fidelity to declared lifespan and luminous flux values.



h	а	L ₁ x L ₂	Emed	g1	W/m²
5 m	10 m	15 x 15 m	20 lux	0,3	0,97

100%



h	а	L ₁ x L ₂	Emed	g1	W/m²	
5 m	10 m	15 x 15 m	18 lux	0,5	0,36	(-63%)
5 m	10 m	15 x 15 m	18 lux	0,3	0,29	(-20% midnight, therefore - 71%)

 $^{4 \}times \text{Twilight Copenhagen PS } 3.000 \text{Im } 20 \text{W}$





100,000 hours L80 B10

Useful life is a statistical data indicating that after 100,000H the luminous flux is equal to or greater than 80% of the initial value (L80) for at least 90% of the LEDs (B10).

 Driver
 → L80 / B10 / Ta 25°

 Led C.o.B.
 → L80 / B10 / Ta 25°

 0 h
 20.000 h

 40.000 h
 60.000 h

 80.000 h
 100.000 h

 20 years x 4000 hours per year

⁴ x Products HST 50W E40

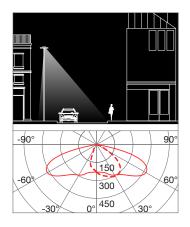


A multitude of optics.

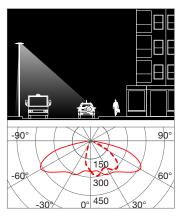
Up to 17 tailor-made lighting combinations

Architecture is often made up of modular spaces with variable geometries and specific requirements. Light adapts to every height and every distance to illuminate details and elements without restrictions. We develop solutions - from one to one hundred thousand - each with a variety of optics, including adjustable versions, with technologies and powers that turn flexibility into effectiveness, providing the best possible light based on the application in question. Modulating light, from superspot cones, to spot, medium, flood, wide flood, wall

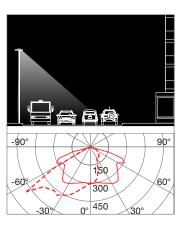
washer and elliptical systems. New distributions make it possible to illuminate very wide, very narrow or specific streets for cycle paths; a square optic ideal for lighting parking areas and, lastly, a distribution created specifically for the installation of the optical compartment on a pole through the arms. Moreover, we have also developed other accessories that, combined with the available optics, can be used to design the desired light and protect the lighting source.



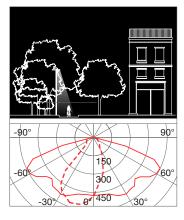
ST1
Street Optic for intense vehicle
traffic, urban and suburban areas.



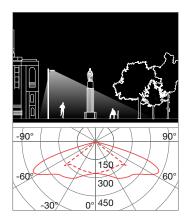
ST1.2
Street Optic for intense vehicle traffic, urban and suburban areas



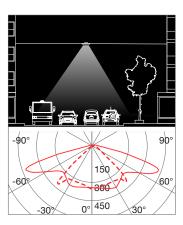
ST1.5
Optic for residential steets.



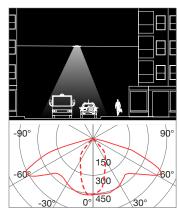
STCy0.5Optic for residential steets and bycicle lanes.



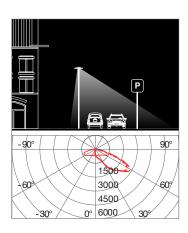
Elliptical optic for historic centres and pedestrian areas.



Optic for suspension installation for suburban vehicular traffic.

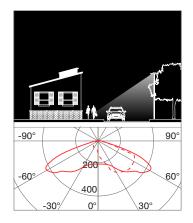


STWSpot**
Spot optic for suspension installation for suburban vehicular traffic.

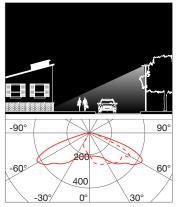


60°Asymmetric optic for parking areas and large open spaces.

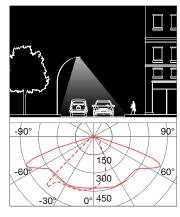
Architecture is often made up of modular spaces with variable geometries and specific requirements. Light adapts to every height and every distance to illuminate details and elements without restrictions.



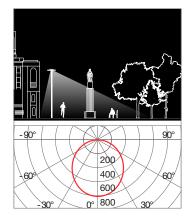
ST1U
Optic for residential streets and bicycle lanes ideal for low heights.



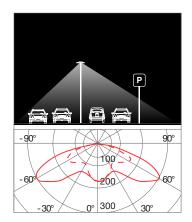
ST1.5U
Optic for residential
streets and bicycle lanes ideal
for low heights.



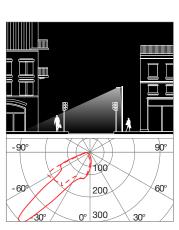
Street optic for intense vehicle traffic, urban and suburban areas for curved poles.



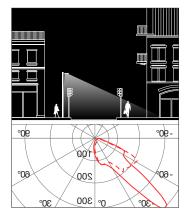
SC**
Comfort Symmetric
Optic for historic centres
and pedestrian areas.



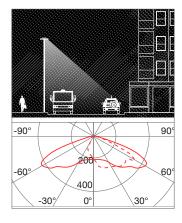
Optic specifically for lighting parking areas.



Street optic for urban and suburban crosswalks.



Street optic for urban and suburban crosswalks.



STWt1 / STWt1.5 Street optic for intense vehicle traffic, urban and suburban areas for wet roads.

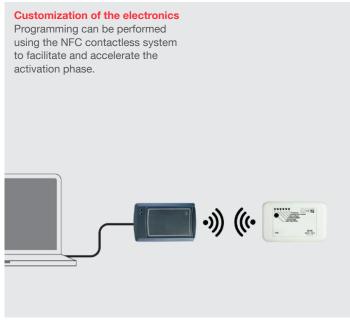
From the appliance to the smart city.

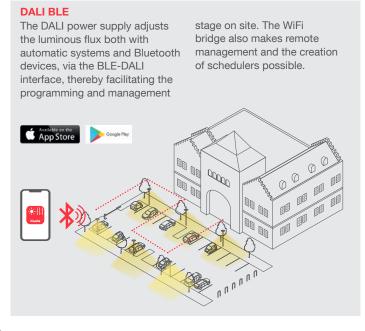
Modular light to meet urban needs.

City life has many different rhythms. Neighbourhoods, parks, squares and urban streets all have different lighting needs in terms of intensity, times and specific features. Starting from the residential dimension, it is possible to reach into more complex integration requirements that centralize intelligent management of various urban networks in order to optimize the luminous flux based on demand. New digital technologies provide all kinds of possibilities for control. From simple on/off control, which ensures a first level of urban efficiency, there comes

stand-alone solutions, with automatic adjustment of the luminous flux based on the recognition of half of the night switch-on period up to management with a DALI solution, ensuring precise control of the luminaire and integration with Smart Lighting systems through wireless or Power-Line devices. Lastly, intelligence is converted into urban sustainability thanks to the Zhaga connector that transforms street luminaires into nodes in a digital network, an active element in the smart city that optimizes management and consumption.

Middle of the Night The intelligent self-learning system included in the power supply, by following an algorithm, envisages Night Middle of the Night recognition of half of the set operating period in accordance with the pre-set profile.

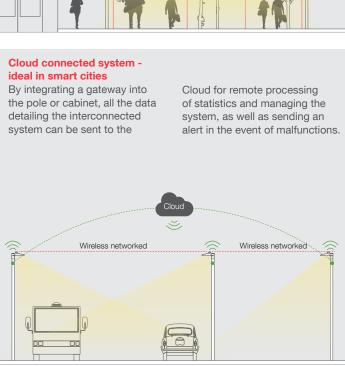


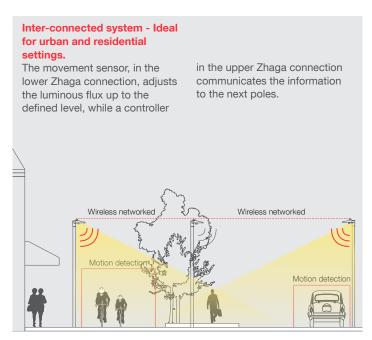


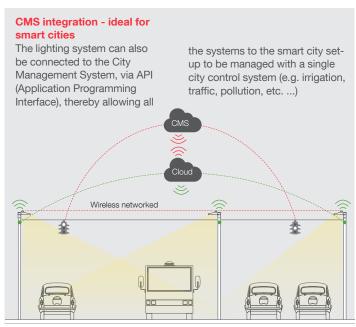


Each fixture can be managed with control systems that allow light to be used only when necessary, thereby optimizing consumption and promoting responsible and effective use of urban lighting.









Street

Smart Value



polymers to increase resistance to corrosion and atmospheric agents.

145 Im/W

88.0

kW/km

- 1 Aluminium
- 2 Fluorine-zircon
- 3 Nano-technology polymer
- 4Primer
- 5 Liquid paint

Control

DALI

IP66 / IK08

Color Temperature

Luminous Efficacy

2200K / 3000K/

Up to 152 lm/W

Spike Protection

common mode

6kV differential mode - 10kV

(SPD accessory for 10kV - 10kV)

4000K - CRI70

Tmax (°C)

-40°C +35°C up to 12.000lm -40°C +50°C up to 9.000lm







Advanced engineering

Remote maintenance

Street is supplied with an output cable to ensure simple installation without the need to open the product for wiring. Quick removal of the product from the pole also helps avoid interrupting traffic by performing maintenance operations directly in the workshop.



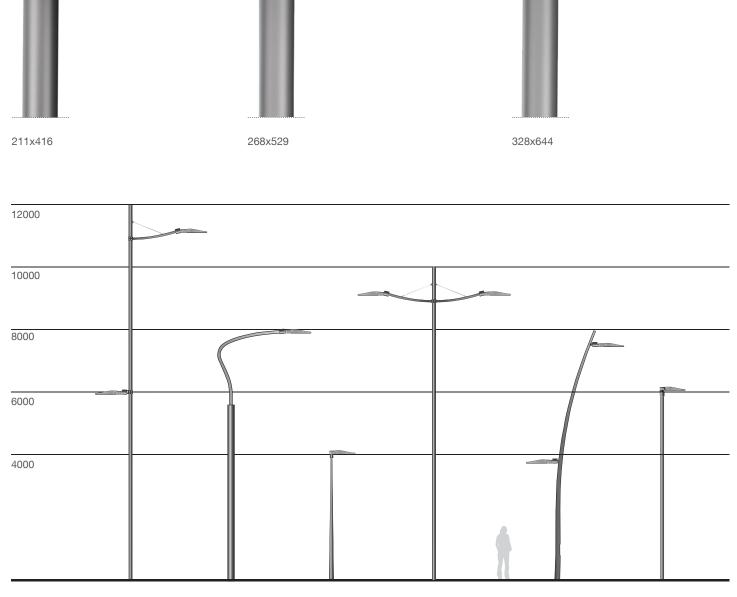
On-site maintenance

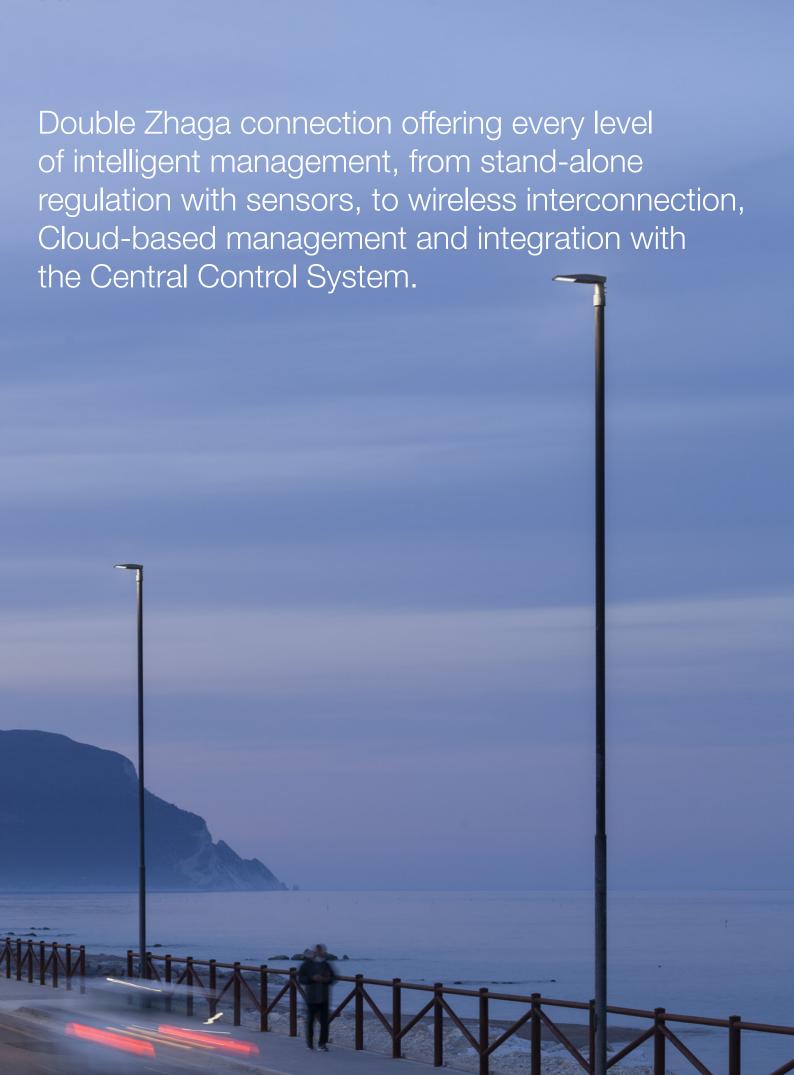
Street with a built-in connection is supplied with captive screws and retaining cable to ensure quick and effective on-site maintenance. The 5mm sodium-calciumtoughened sealing glass is highly resistant to impact and vibrations, thereby making operations even safer.

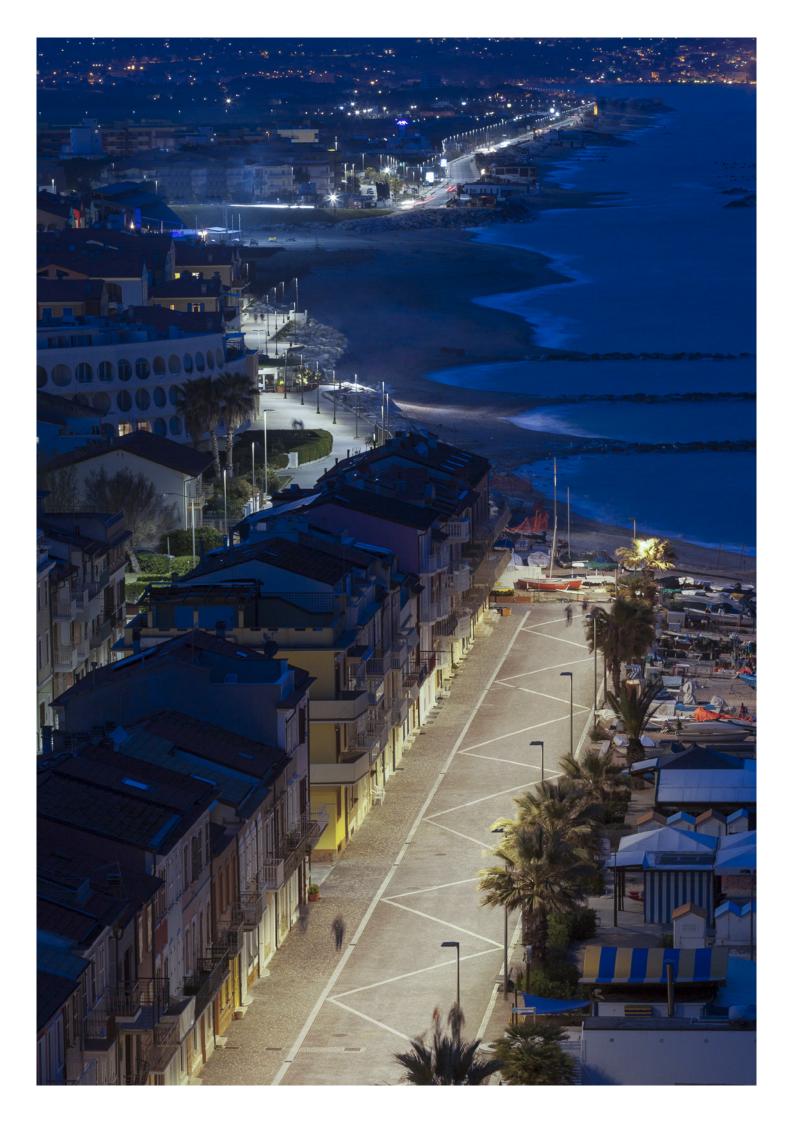


^{*} Calculated for a road with vehicle traffic with classification M4, height 6m, ST1 4000K optic

Street translates innovation into essentiality: every component, function and detail is the maximum needed to achieve exceptional performance.







Twilight

Urbaneco



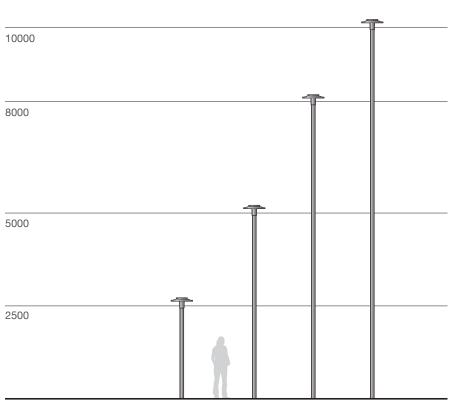
Aesthetic, functional and sustainable innovation to evolve and expand increasingly compact, efficient and intelligent urban lighting solutions.



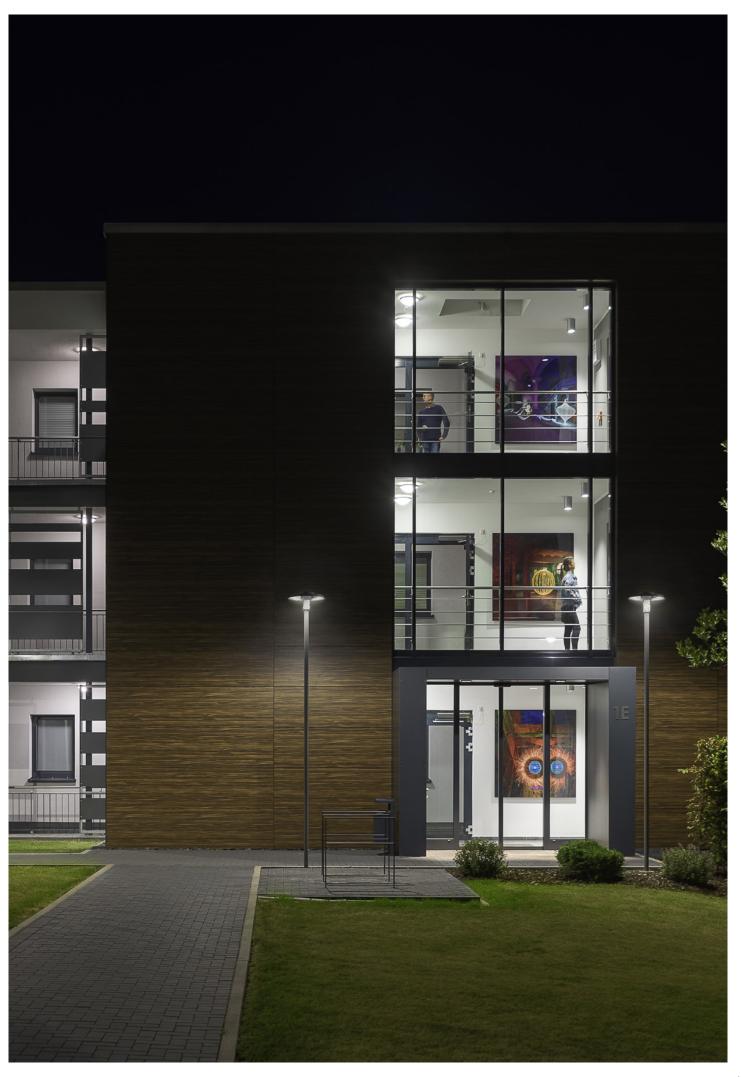
Advanced engineering

Twilight Copenhagen is supplied with an output cable to ensure simple installation without the need to open the product for wiring. The optical and component compartments are separate to ensure that maintenance operations are performed in total safety.









Designed to be sustainable.

Efficiency and recycling

90% of a luminaire's environmental impact arises from using it: consequently, this is where the greatest potential for cost savings and environmental protection can be found. Street and Twilight use highly efficient LEDs and drivers, OptiSmart optics that ensure excellent Lm/W values and large inter-distances, thereby increasing the effectiveness of the system. Yet, there's much more

management with control systems means that light is used only when necessary. Lastly, we also optimize the remaining 10% of the environmental impact through the use of recyclable and recycled materials, without affecting the efficiency of the product, as well as simplifying the complete disassembly of components and using renewable sources in production.

90% of the environmental impact derives from its use.

90%

uses high efficiency optics

Up to **133** Im/ W

ensures additional energy savings through the use of control systems



uses long life, and high performance LEDs and drivers that are reliable over time

B10 L80 Ta25°

And much more. We also optimize the remaining 10%.



using circular materials such as aluminium, glass, wood and paper.



Paper 94% recycled 100% recyclable

by only selecting wood and paper from sustainable forestry.



Programme for the recognition of National Forestry certification schemes

designing easy end of life disassembly.

Using more than 52% of energy from renewable sources

>52%

of which >20% of energy is selfproduced in the Recanati factory*



Page 4

Zhongshan Road - Ningbo, China

Client: City of Ningbo

Lighting Project: Hua Zhan Wu Yun Lighting Design

Photo: Flatmind

Page 14

Porto Recanati - Macerata, Italy

Relamping Porto Recanati

Client: Municipality of Porto Recanati Architectural

Lighting project: CPM Gestioni Termiche Photo: Studio F16 Giuseppe Saluzzi

Simulation

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Credits

Publishing coordination iGuzzini illuminazione

Cover design xycomm – Milan

Rendering

Gelfo Design iGuzzini illuminazione The sales network is available at www.iguzzini.com





