

UFO Light in-life



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 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 research centres all over the world. **Respect for the environment, biological wellbeing, sustainable economies:** these are the factors we need to work on, on a global scale, for the positive development of society. Lighting is first and foremost for people, our commitment being to promote responsible use of energy by public organisations, by the leaders in 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 a network, through open networks, producing sustainable ideas and identifying new tools. Lighting changes things. It is at the centre of social changes. It is the expression of **new vital energy** running through the city, building architecture, creating wellbeing for people. Lighting reveals the nature of man, it shows worlds and relationships, communities and mechanisms. iGuzzini works to use lighting to improve the relationship between man and the environment, through research, manufacturing, technology and knowledge.

iGuzzini



www.iguzzini.com/lightfirst



UFO
Piano design



Light in life.

Professional comfort.

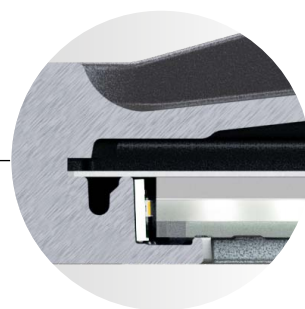
This sleek, ultraslim luminaire offers **visually comfortable light emission** that is perfect for urban streets, squares, gardens and car parks. UFO is a LED device that satisfies all the complex requirements of city lighting thanks to a choice of two optics: **Opti Comfort SC** and **Opti Smart** in both **ST** street and asymmetric **A** versions. **Smartronic**, easily adaptable to numerous operating

regimes and rapid payback, this system's ability to unite a **wide range of composition options** in a single, coordinated style is one of the keys to its success. UFO can, in fact, be either wall-mounted or installed on poles at heights of between 4 and 12 metres, and its light flows are comparable to traditional lamps producing up to 150W of indirect light and 100W of direct light*.

* a comparison with traditional lamps is shown on page 11

Opti Comfort SC

Soft, high value, semi-cylindrical light



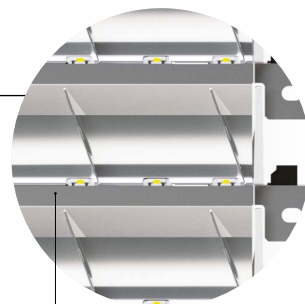
Opti Smart ST

Maximum efficiency in urban streets



Opti Smart A

Maximum efficiency in pedestrian areas, squares and car parks



Opti Smart

108 lm/W

Real luminaire efficiency

Aluminium with silver deposits.

UFO

How many opportunities.

Opti Comfort

643 x 643 mm + 423 x 423 mm

Opti Smart

423 x 423 mm

Real light flows

4300 lm* + 2400 lm*

from 3030 to 6340 lm*

Replaces HID

150 W** + 70 W**

20 / 100 W

Class

class II

class II

IP

66

66

Surge Protection

10 kV

10 kV

Certification

ENEC / UL / CE

ENEC / UL / CE

Body / screen

Aluminium / polycarbonate

aluminium / glass

Ottiche (classi intensita')

1 (G6)

5 (G4 - G6)

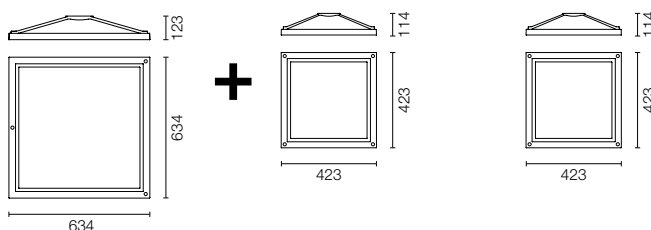
Temperatura Colore

3000 / 4000 K

3000 / 4000 K

*The light flows are real and refer to the effective LED operating temperature on the product when located in an environment at 25°C and with a colour temperature of 4000 K

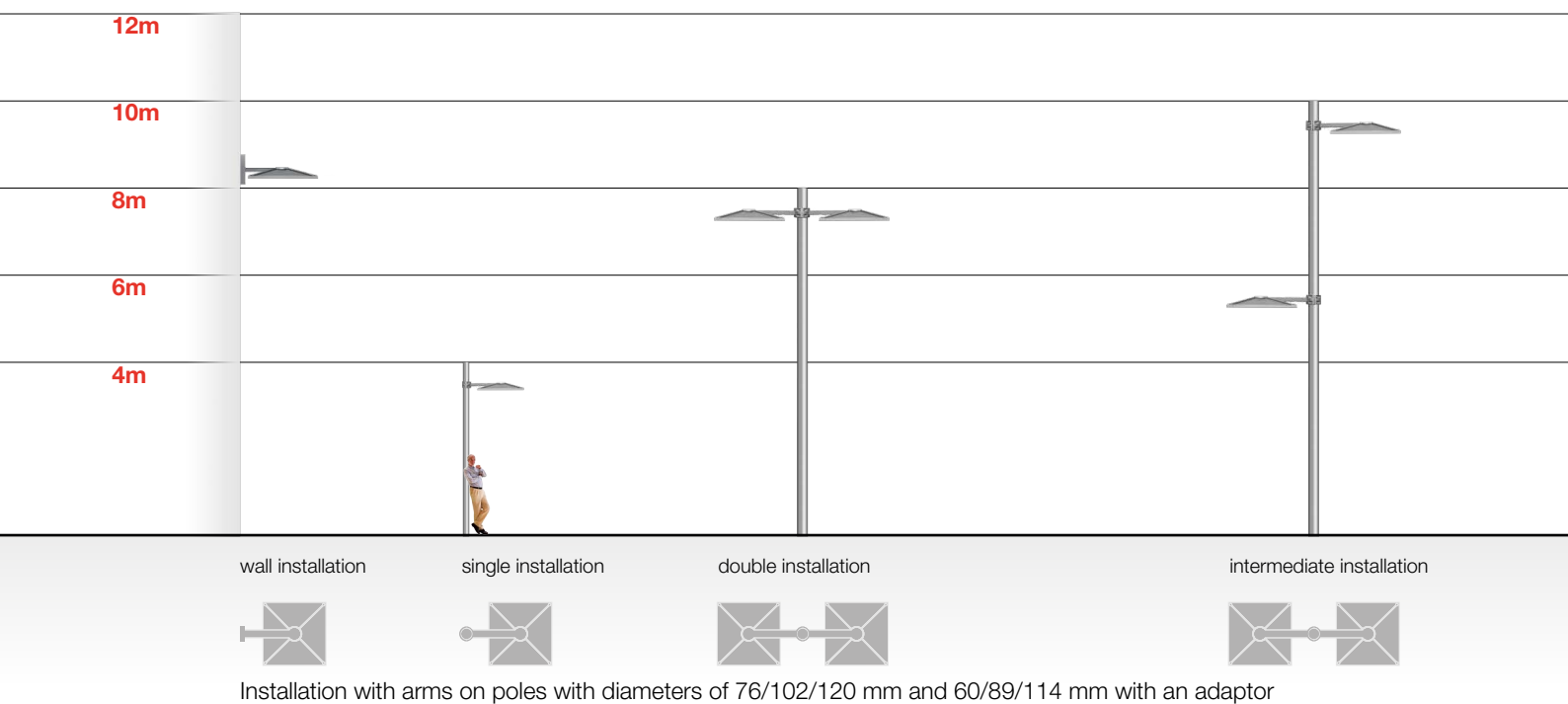
**The values refer to indirect light systems



Configurations.

Horizontal arms

for single optic compartment installations.



Installation with arms on poles with diameters of 76/102/120 mm and 60/89/114 mm with an adaptor

Optics.

Comfort and efficacy.

Opti Comfort SC

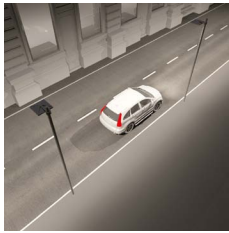


SC

Squares, gardens, and pedestrian areas, soft, high value, semi-cylindrical light.

Intensity class **G6**

Opti Smart ST



ST1

Major urban and residential, vehicular traffic streets.

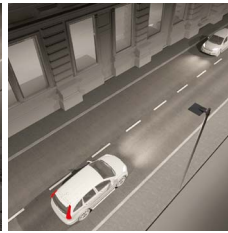
Intensity class **G4**



ST1C

Vehicular traffic and pedestrian urban streets.

Intensity class **G6**



ST1.2

Wide lane, vehicular traffic urban streets

Intensity class **G4**

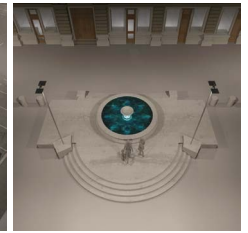
Opti Smart A



A60

Car parks, roundabouts and irregular shaped areas.

Max intensity γ **60°**



A45C

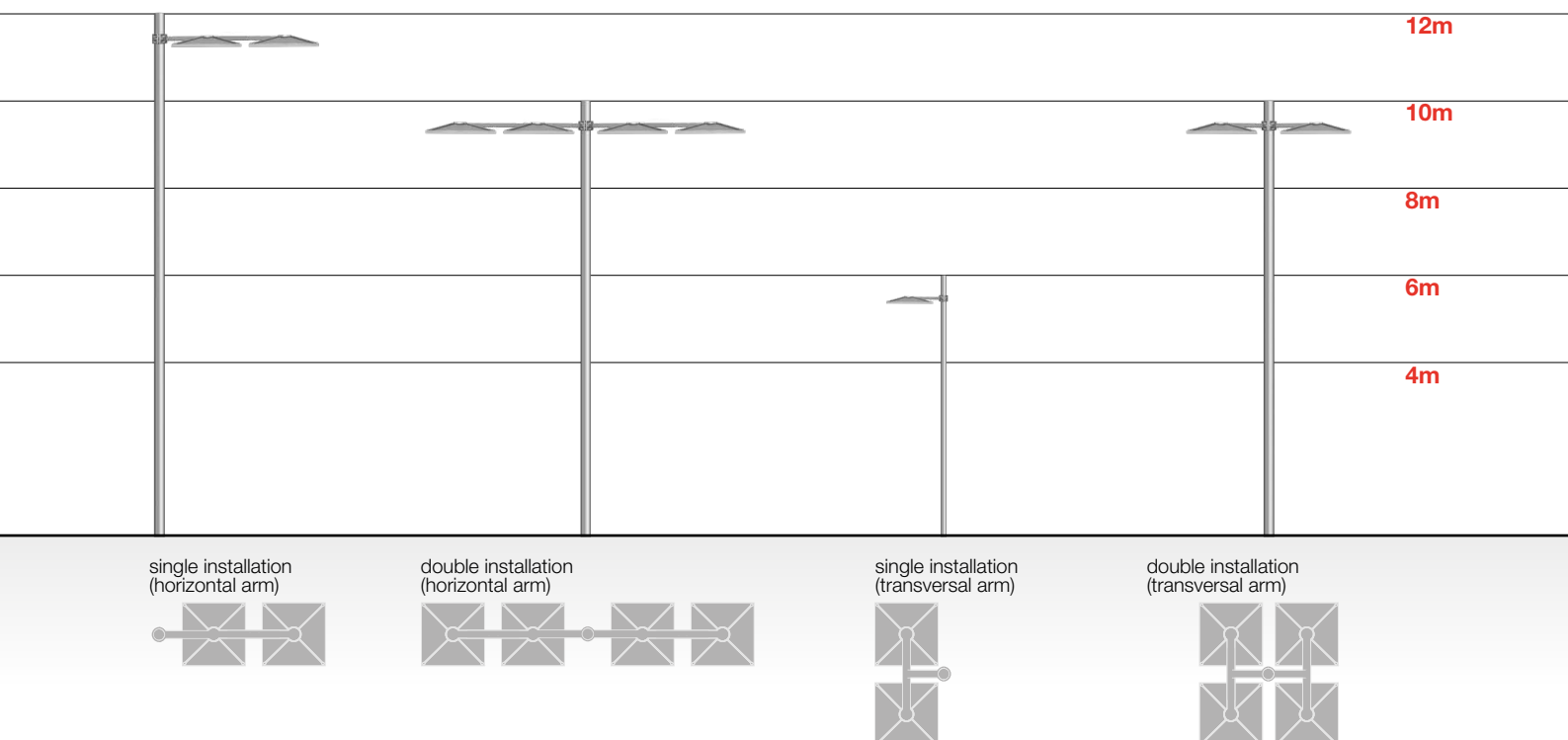
Squares and gardens where an asymmetric distribution.

Max intensity γ **45°**

G4 - G6 recommended by the European standard prEN13201-2013

Horizontal and transversal arms

for double optic compartment installation.



Opti Comfort®.

Energy saver.

Opti Comfort is a diffusing symmetric optic, specifically designed to guarantee **exceptional comfort in pedestrian areas**.

The light emitted is soft and diffuse and offers maximum visual perception. This creates **warm and pleasant atmospheres** for town centres and residential and **pedestrian areas** and a more neutral light for car parks and lay-bys. The overall effect is similar to an indirect light system: **gentle, no-glare and comfortable**.

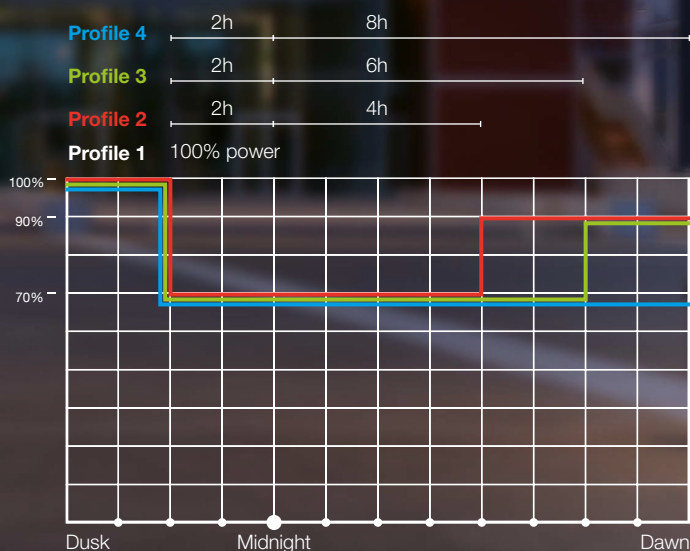
75%

energy savings when a UFO profile 4 device is compared to an indirect light flow metal halide luminaire

Additional savings.

Profile-based energy savings.

Selecting one of the **standard UFO profiles**, the luminous flux is reduced for a period with reference to midnight. The increase in **energy savings** is significant, **without having to use any tele-management systems**.



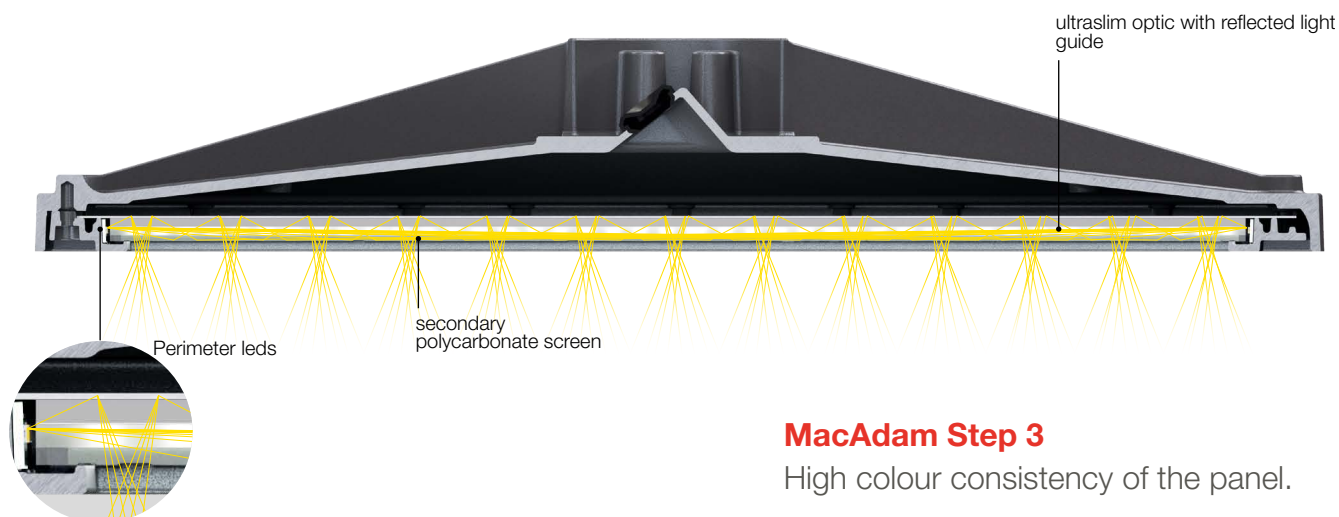
UFO profili di serie nell'apparecchio

Opti Comfort®.

Safety first.

To obtain a **soft, even light flow**, this symmetrical, side emission optic uses between 104 and 168 Leds positioned on the perimeter of the UFO. **Visual comfort and chromatic stability:** the electronics that control the Leds ensure that the

light colour on the panel is even and stable throughout its entire period of use. With its uniform light emission, **UFO** produces a **semi-cylindrical light beam that is particularly effective for illuminating faces**. Well-being and safety for public areas.



MacAdam Step 3

High colour consistency of the panel.

Approximate design values:

Opti Comfort 634 x 634 mm 56 W

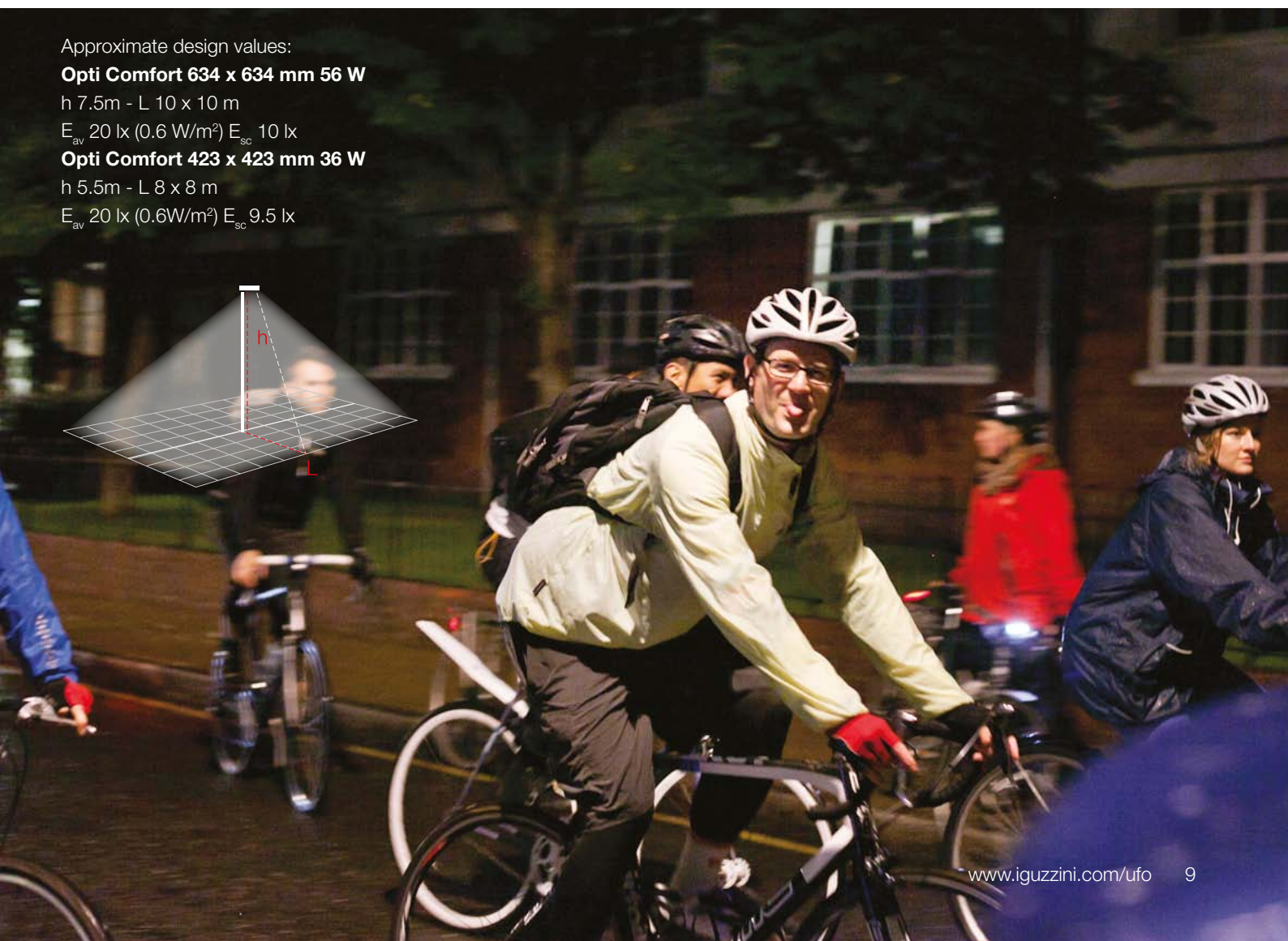
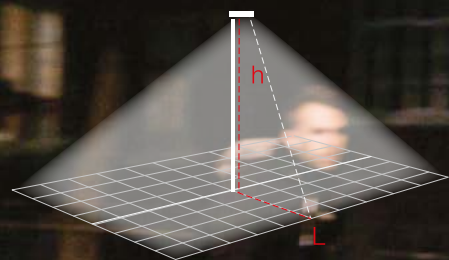
h 7.5m - L 10 x 10 m

E_{av} 20 lx (0.6 W/m²) E_{sc} 10 lx

Opti Comfort 423 x 423 mm 36 W

h 5.5m - L 8 x 8 m

E_{av} 20 lx (0.6 W/m²) E_{sc} 9.5 lx



Opti Smart®.

Efficacy friendly.

Comfort.

Ottiche G4 - G6.

High **G** values minimize the level of glare directed at pedestrians and drivers, thereby **increasing comfort**. Most of the high performance luminaires on the market have G3 or G2 ratings. Whereas the **UFO Opti Smart** has a **G6** rating for mixed **pedestrian/vehicle traffic** situations and a **G4** rating for urban streets with **vehicular traffic**.

Glare

G1	G2	G3	G4	G5	G6
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G4 - G6 recommended
by the European standard
prEN13201-2013

Comfort

UFO

Efficacy.

Real 108 lm/W with Profile 1.

A **patented optic** designed to exploit light beams guided onto a silver surface with a **reflection factor of 97%**.

Opti Smart uses LED light flow to guarantee a system efficiency level equivalent to **108 lm/W**. This means low consumption, long lamp life and reduced CO₂ emissions.

Light is also distributed so evenly that **the distance between luminaires can be increased by 10%** compared to traditional optic devices.

Opti Smart®.

Energy saver.

With **Opti Smart**, the perfect combination of optics and electronics, **UFO** guarantees superior energy savings and a considerable reduction of costs. The light produced is also distributed with **extreme precision and efficacy and no skyward light dispersion.**

Additional savings.

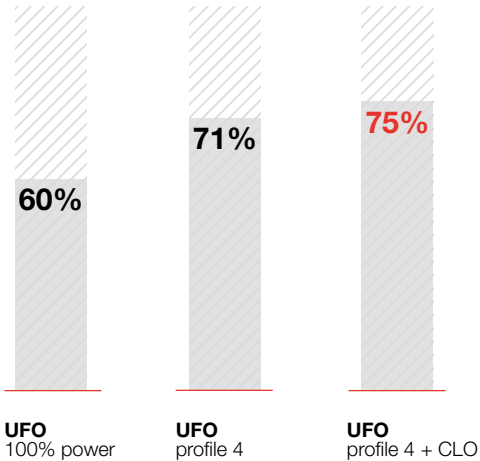
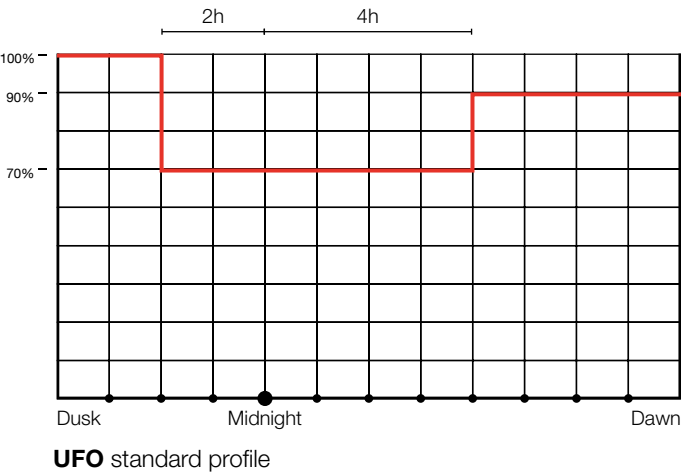
Profile-based energy savings.

By selecting the **midnight recognition** UFO profile, light flow can be reduced for a set period of time. This constitutes a significant **increase in energy savings without having to install a tele-management system.**

UFO	Device	Device
Opti Smart	Metal halide	High pressure mercury
30 W	70 W (83 W)	80 W (95 W)
39 W	>70 W (83 W)	125 W (145 W)
44 W	>70 W (83 W)	>125 W (145 W)
52 W	100 W (83 W)	250 W (278 W)

80% energy saving vs. mercury.

In 2015 mercury lamps will begin to be phased out in compliance with EC 245/2009 and EC 347/2010 regulations.



Smartronic®.

Makes the difference.

Exclusive, intelligent electronics, specifically researched and designed by our Innovation Lab, allow **UFO to adapt to a wide range of design requirements** and operating regimes. **Standard**

time profiles that can be interfaced with the most common tele-management systems, constant lumen output, and efficient update options, all combine to make **UFO a product with no limits of use.**



Optics.



Opti Comfort

Comfortable emission, diffusing panel



Opti Smart

High efficiency, long-life lamps

Future proof and easy maintenance.

Easy to install and maintain with updatable technology.

Tele-management ready.

Interfaceable with main systems available on the market.

Step dimming profiles.

Standard and Streetware-customised versions available.

3 power levels.

Three settable power levels (only for the Opti Smart version).

Midnight recognition.

Time profiles that can be synchronised with midnight.

CLO Constant Light.

Constant light flow for the entire life of the product.

CPI Constant Power.

Constant power for the entire life of the product.

Bi-power with cable.

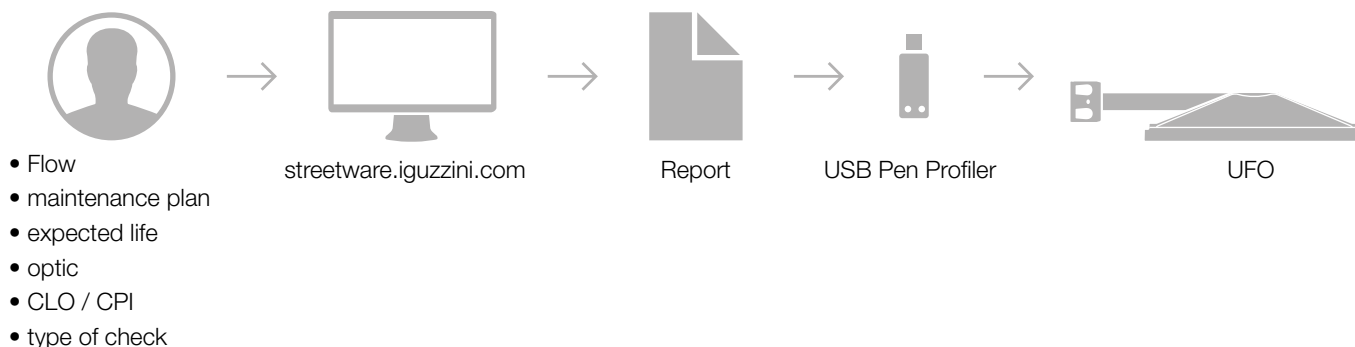
2 power levels on pre-existing systems with extra cable.

Streetware®.

Plan your project.

We have created a **revolutionary software**, called **Streetware**, that **helps designers** choose the best product **to suit their requirements**. The optimum solution is presented in a report

that contains data regarding energy savings and real consumption levels during the entire life of the device. This is how we meet every need with a customised solution.



Plug and program.

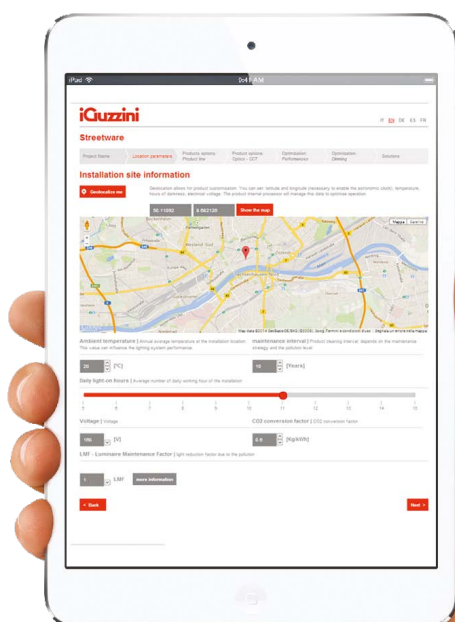
USB Pen Profiler.



Streetware includes tools for programming the UFO

electronics to suit various operating regimes. The programming file generated can be written in the **USB Pen Profiler** accessory that is used to transfer the configuration chosen directly to the luminaire.

Varying the profiles and operating procedures is extremely simple, like, for example, shifting from a profile mode to a tele-management mode.



Streetware can be consulted
on iPhone, iPad, Android and PC

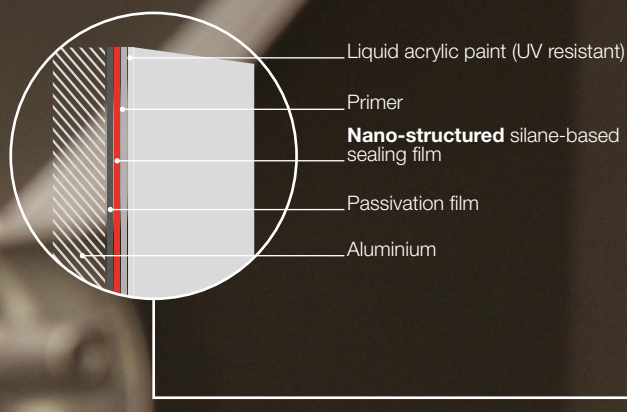
Reliability.

Made to last.

High corrosion resistance.

Nano-structured sealing film.

To guarantee a high level of rust resistance, the **UFO**'s aluminium body is pre-treated with a surface coating that uses **nano-technology polymers**.



IP66 e IK08.

Impenetrable and knock-resistant.

UFO is highly resistant to water splashes and humidity that may prove hazardous to electronic devices.

Resistance to temperature excursions of -40°C +45°C.

Lifetime Led >20 years*.

A microprocessor checks the temperature conditions constantly and acts automatically to adjust the current on the device to guarantee that the vital parameters are respected.

* UFO Opti Smart

Surge protection.

Protected electronics.

The electronic control gear is protected against surges of up to 10kV caused by atmospheric discharges that may damage the electronics.

Future proof.

The best is yet to come.

UFO is designed so that the **Led module and control gear do not need to be replaced for the entire life cycle** of the luminaire. This constitutes significant savings in maintenance costs compared to traditional devices as they require lamps to be changed regularly.

The body of the UFO never deteriorates. The Opti Comfort **LED panel can be replaced, if future technology requires it.** The Opti Smart LED modules can also be replaced on products that are already installed. The current and power levels of the new LED unit can be adapted by simply updating the driver firmware using the USB Pen Profiler.



Thinking Green.

Eco-sustainable lamp disposal.

We take particular **care over eco-environmental issues** both in the production phase and in the choice of materials used. The entire painting process is conducted with highly efficient, **eco-compatible systems** that avoid any negative consequences for the environment. Any solvents and other volatile substances produced are concentrated using a rotor concentrator and eliminated by means of a post-combustor: an ultramodern system that stops any contaminated residues being dispersed. In recognition of this our production complex has been awarded **ISO 14001 environmental certification** and Energy Management System Standard **ISO 50001**. The materials used on the UFO include aluminium, steel, glass and thermoplastic that can nearly all be **completely recycled** and are easy to differentiate at the end of the product's life.

Get inspired.

iGuzzini on Pinterest.

Consult our Urban Board on Pinterest and **let our current projects inspire you!**



Discover more.

iGuzzini on Youtube.

You Tube [iguzzinispa](https://www.youtube.com/iguzzinispa)



Urban street lighting



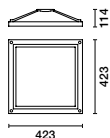
Opti Comfort for city squares



Adaptive light for vehicular traffic



Adaptive light for stations



light source **W*_{min}** **W*_{max}** **lm_{min}** **lm_{max}** **code colour**

LED

Multipower with midnight recognition

Neutral white - **SC optic**

36W **2400** ***BL03 B5**

Neutral white - **ST1 optic**

30W **42W** **3210** **4280** **BL05 B5**

38W **52W** **4110** **5350** **BL07 B5**

Neutral white - **ST1.2 optic**

39W **52W** **4160** **5350** **BL09 B5**

Neutral white - **ST1C optic**

30W **42W** **3030** **4040** **BL13 B5**

44W **62W** **4550** **6050** **BL15 B5**

Neutral white - **A60 optic**

44W **62W** **4770** **6340** **BL11 B5**

Neutral white - **A45C optic**

44W **62W** **4440** **5900** **BL17 B5**

Warm white - **SC optic**

36W **2190** ***BL02 B5**

Warm white - **ST1 optic**

30W **42W** **2960** **3940** **BL04 B5**

38W **52W** **3780** **4920** **BL06 B5**

Warm white - **ST1.2 optic**

39W **3820** **BL08 B5**

Warm white - **ST1C optic**

30W **52W** **2790** **4920** **BL12 B5**

44W **62W** **4180** **5560** **BL14 B5**

Warm white - **A60 optic**

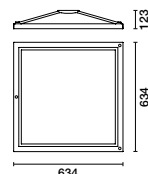
44W **62W** **4380** **5830** **BL10 B5**

Warm white - **A45C optic**

44W **62W** **4080** **5420** **BL16 B5**

Upon request they can be changed to DALI, 0-10 V, bi-energy with pilot cable, flux regulator, CLO (with Streetware Software).

* IK08



light source **W*_{min}** **W*_{max}** **lm_{min}** **lm_{max}** **code colour**

LED

Multipower with midnight recognition

Neutral white - **SC optic**

56W **4300** ***BL19 B5**

Warm white - **SC optic**

56W **3920** ***BL18 B5**

Upon request they can be changed to DALI, 0-10 V, bi-energy with pilot cable, flux regulator, CLO (with Streetware Software).

* IK08

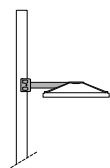
The output lumen and power value of the systems refer to the Profiles with the greatest light efficiency (Profile 1) and to the profile with maximum output flux (Profile 3). The values of other profiles can be consulted in the online catalogue: "http://products.iguzzini.com"

accessories

	code	colour
USB pen profiler	BZX1	04
Complete with cable and battery		

installation with arms

	length	ø pole	code colour
horizontal arm for installing 1 assembly	398	76	BZP3 15
	411	102	BZP5 15



for small optical assembly

538 **76** **BZP4** 15

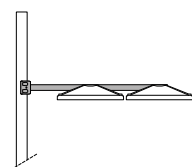
552 **102** **BZP6** 15

562 **120** **BZP7** 15

for large optical assembly

The counter flange must be ordered, to secure the arm to the pole.

horizontal arm for installing 2 assemblies	840	102	BZU5 15
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for small optical assembly

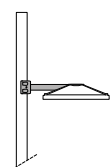
1196 **102** **BZP8** 15

1206 **120** **BZP9** 15

for large optical assembly

The counter flange must be ordered, to secure the arm to the pole.

transversal arm for installing 2 assemblies	411	102	BZU6 15
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for small optical assembly

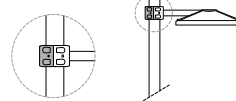
552 **102** **BZQ0** 15

562 **120** **BZQ1** 15

for large optical assembly

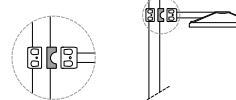
The counter flange must be ordered, to secure the arm to the pole.

	ø pole	code colour
counter flange	76	BZQ2 15
	102	6161 15
	120	6162 15



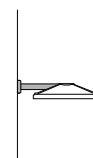
To be ordered to secure the arm to the pole. Not required when installing two opposite arms.

adaptor for flange	60 (76)	BZQ3 15
	89 (102)	6163 15
	114 (120)	6164 15



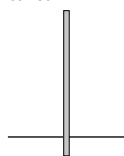
For installing arm on poles with a diameter of ø 60 - ø 89 - ø 114 mm.

wall attachment	for small optical assembly	BZW4 15
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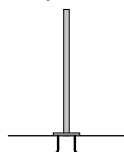


cylindrical poles for 1 optical assembly

	h off-ground	ø pole	ø shank	code colour
buried	4000	76		1271 15
	5000	102		1205 15
	6000	102	76	1518 15
	7000	120	102	1519 15



with plate	4000	76		1272 15
	5000	102		1344 15
	6000	120	102	1521 15
	7000	120	102	1522 15



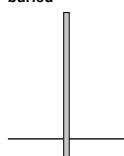
accessory for poles with shank

	ø pole	code colour
end cap	102 (shank ø 76)	BZM6 15
	120 (shank ø 102)	BZM7 15

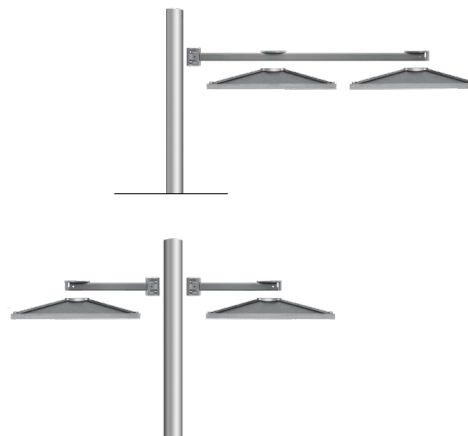
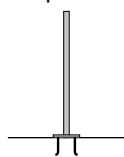


cylindrical poles for compositions of 2 optical assemblies

	h off-ground	ø pole	code colour
buried	6000	102	1542 15
	7000	102	1543 15

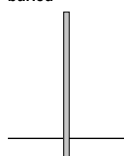


with plate	6000	159/102	1597 15
	7000	159/102	1598 15

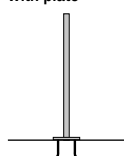


cylindrical poles for compositions of 4 optical assemblies

	h off-ground	ø pole	code colour
buried	8000	127/102	1544 15
	9000	194/120	1545 15
	10000	194/120	1546 15
	12000	194/120	1552 15



with plate	8000	159/102	1599 15
	9000	194/120	1547 15
	10000	194/120	1548 15
	12000	194/120	1554 15



The technical specifications of the poles are presented on page 457.
Fixing plate with anchor bolts to be ordered separately (page 465).

Photo

274 Km

Archivio iGuzzini

Mario Tordini

Jo Burridge

Giuseppe Saluzzi

Photo manipulation

Göttsche based on photo by

Simone Devitt Photographer

Rendering

Gelfo Design

Graphic design /

Production

iGuzzini illuminazione

