



# Street [O<sub>3</sub>] Urban

PUBLIC LIGHTING SYSTEMS

**GEWISS**



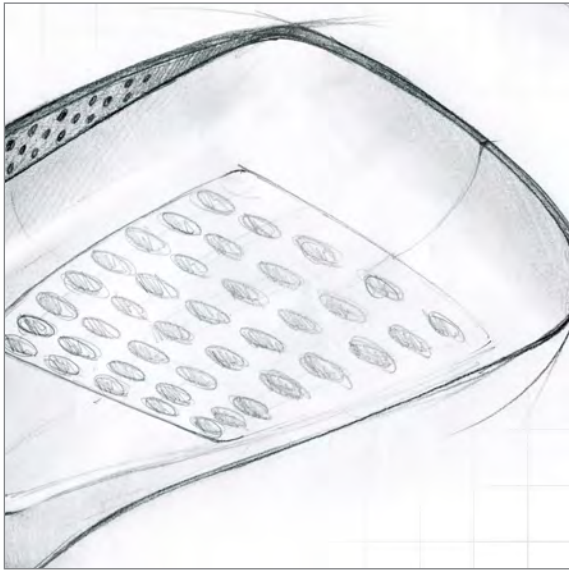
GEWISS was founded forty years ago and since its first day of operation, research into quality and development of exceptional solutions have been the values that have guided every action and every decision. Over the years, this philosophy and mission toward innovation have shaped a company model based above all on continual investment in Research & Development.

Consistent experimentation into new materials and new technologies, the global vision of lighting technology concepts and formalisation of design related to the unmistakable principles of Italian design represent the most intimate and deepest dimension of the GEWISS lighting solutions. This

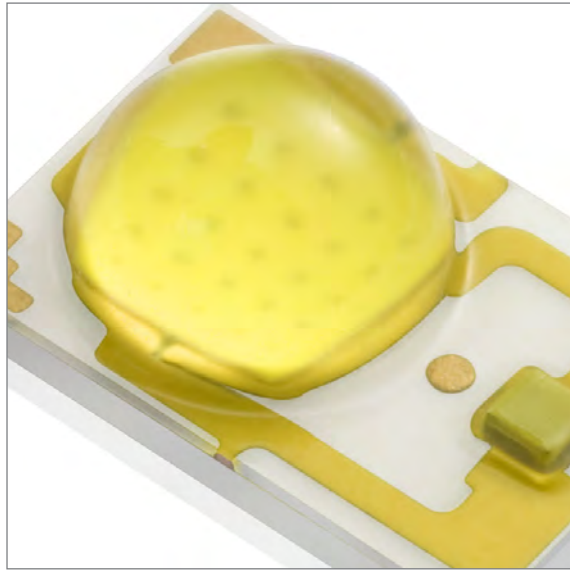
perfect chemistry has allowed GEWISS to become a global partner in creating lighting systems designed for every room, every space and every location: In fact GEWISS products are perfect for indoor and outdoor installations, in industrial contexts, for buildings used for commercial purposes (retail outlets, public buildings) and for sports facilities, as well as for street and emergency lighting.

The GEWISS lighting range includes architectural floodlights, residential/urban decorative devices, aluminium floodlights, street lighting and flush-mounting elements (also modular) for the wall and ground.





1. Concept and design pag. 5



2. Light technologies pag. 19



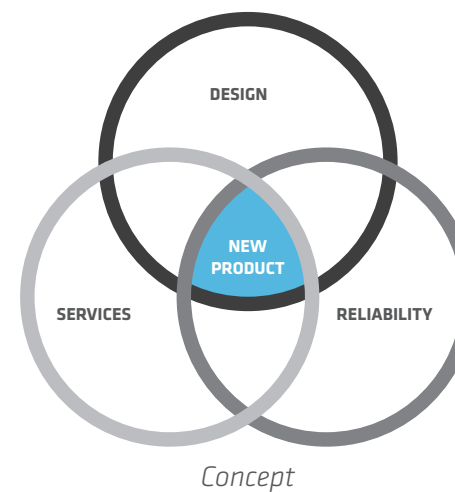
3. Street [O3] and Urban [O3] pag. 37



# 1. Concept and Design

Gewiss believes that design represents the strategic arm for the future. However, the design concept is expanded by surpassing the mere aesthetic dimension: for GEWISS, design defines the identity of the product and must be viewed as a process to combine the needs of the market and the characteristics that the product must have to best meet these needs. The success of the company lies in its ability to transform brilliant design ideas into

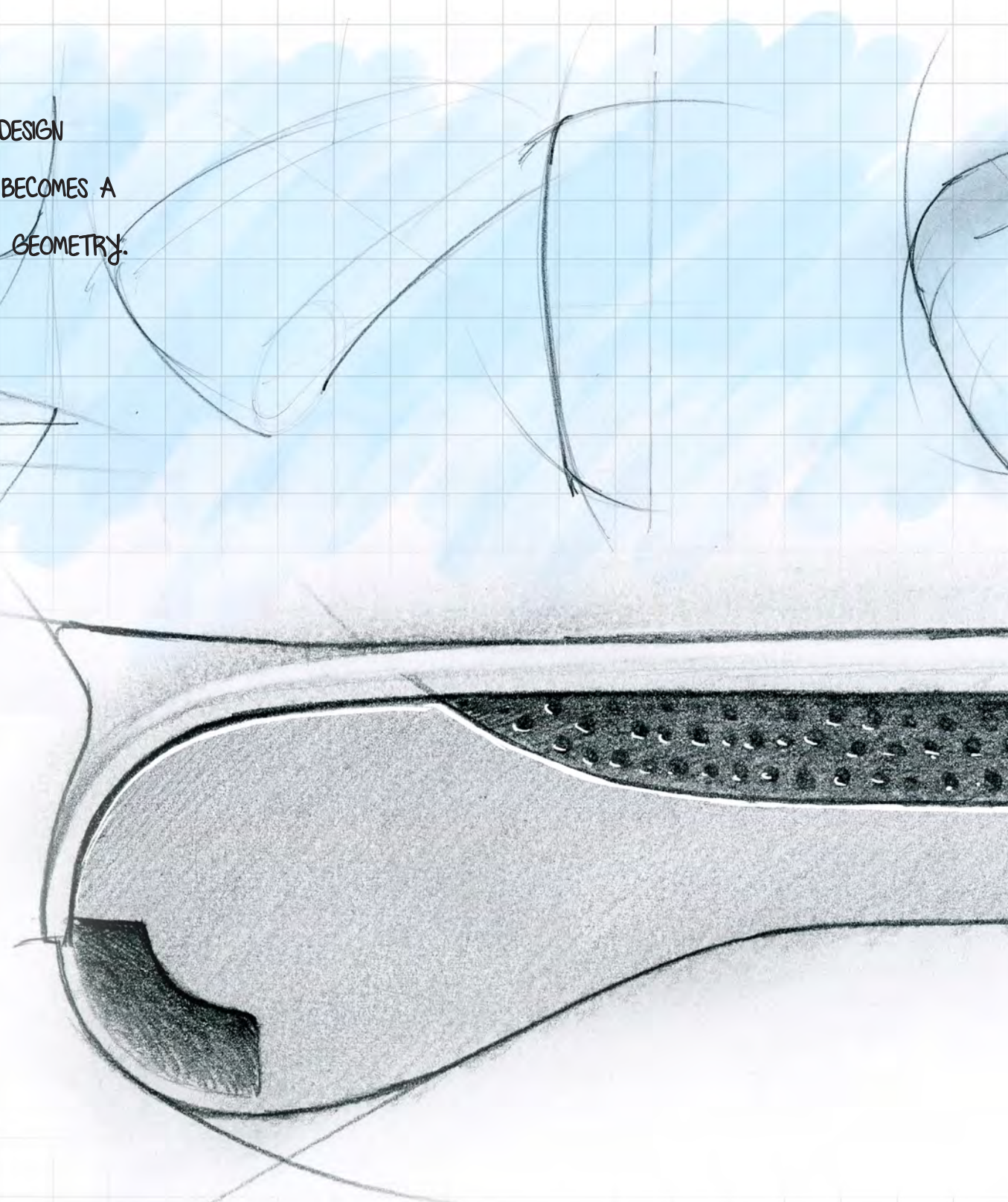
products denoted by superior functional and aesthetic qualities. The originality and innovation of the ideas are supported by a strategic vision and careful resource management. The design process of the devices is done wholly within the company. A team of qualified engineers, the cooperation with Ferrara Palladino e Associati and use of specialised tools and equipment have allowed Gewiss to follow product development in every stage of the process.



# CONCEPT AND DESIGN

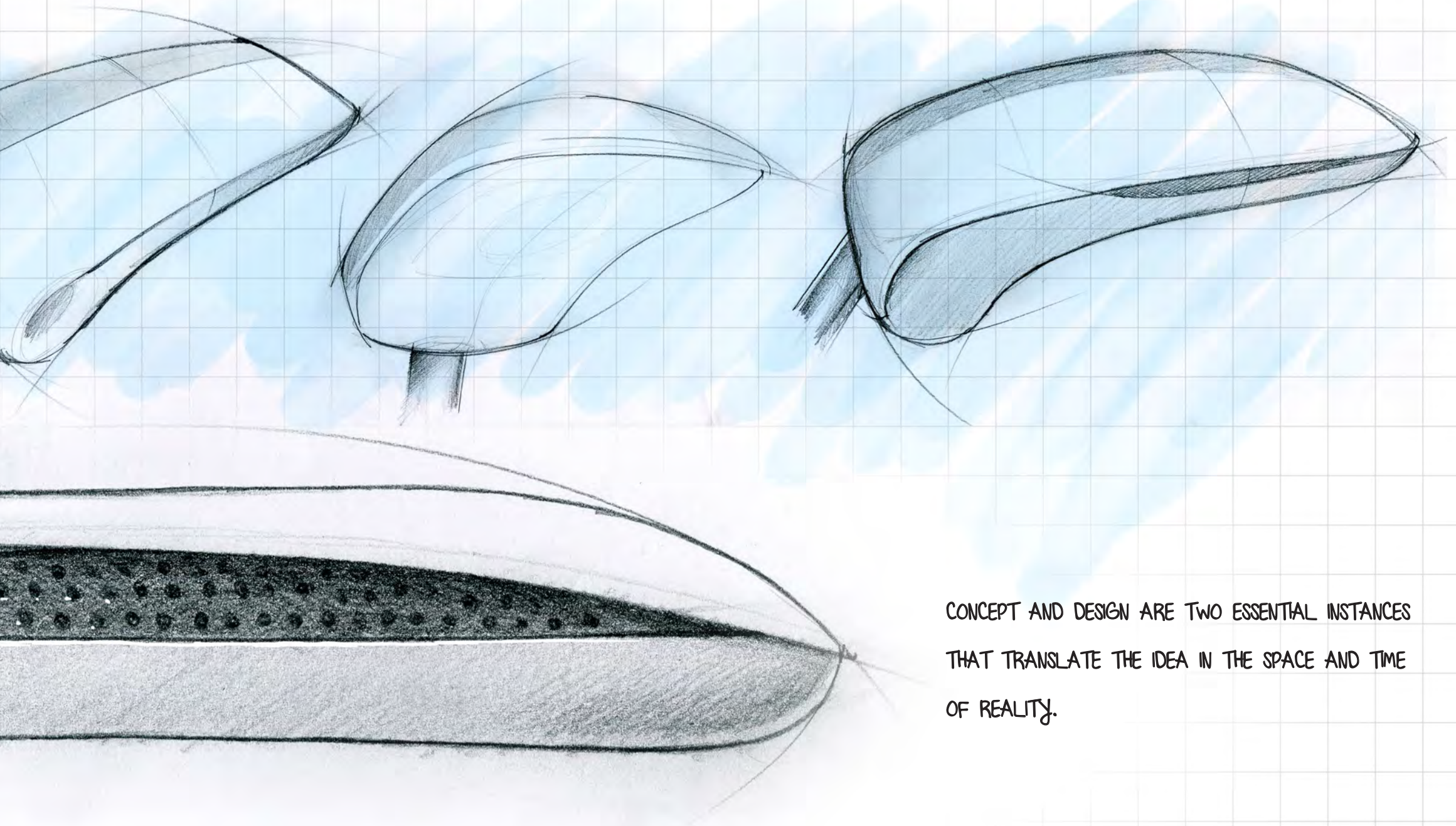
← THE CONCEPT IS THE SUPREME MOMENT IN WHICH THE DESIGN COMES TO LIGHT. IT IS THE INSTANCE WHEN AN IDEA BECOMES A POSSIBILITY AND POSSIBILITY TURNS INTO A SHAPE OR GEOMETRY.

THE DESIGN IS THE LONG JOURNEY FROM THE CONCEPT TO THE DESIGN, FROM DEVELOPMENT TO PRODUCTION



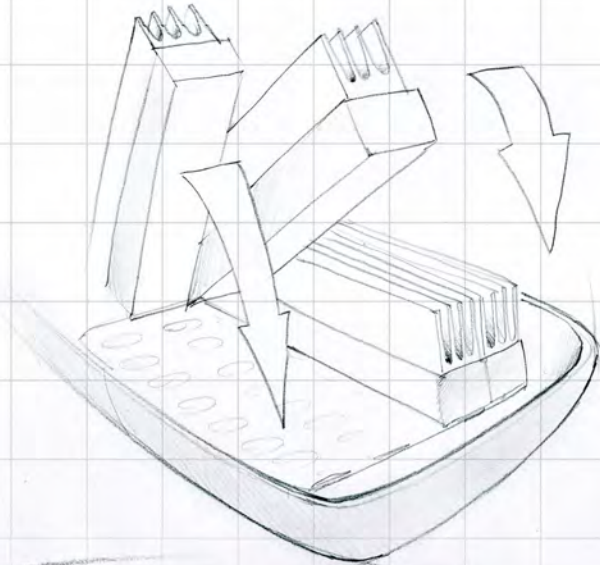


# STREET [03]



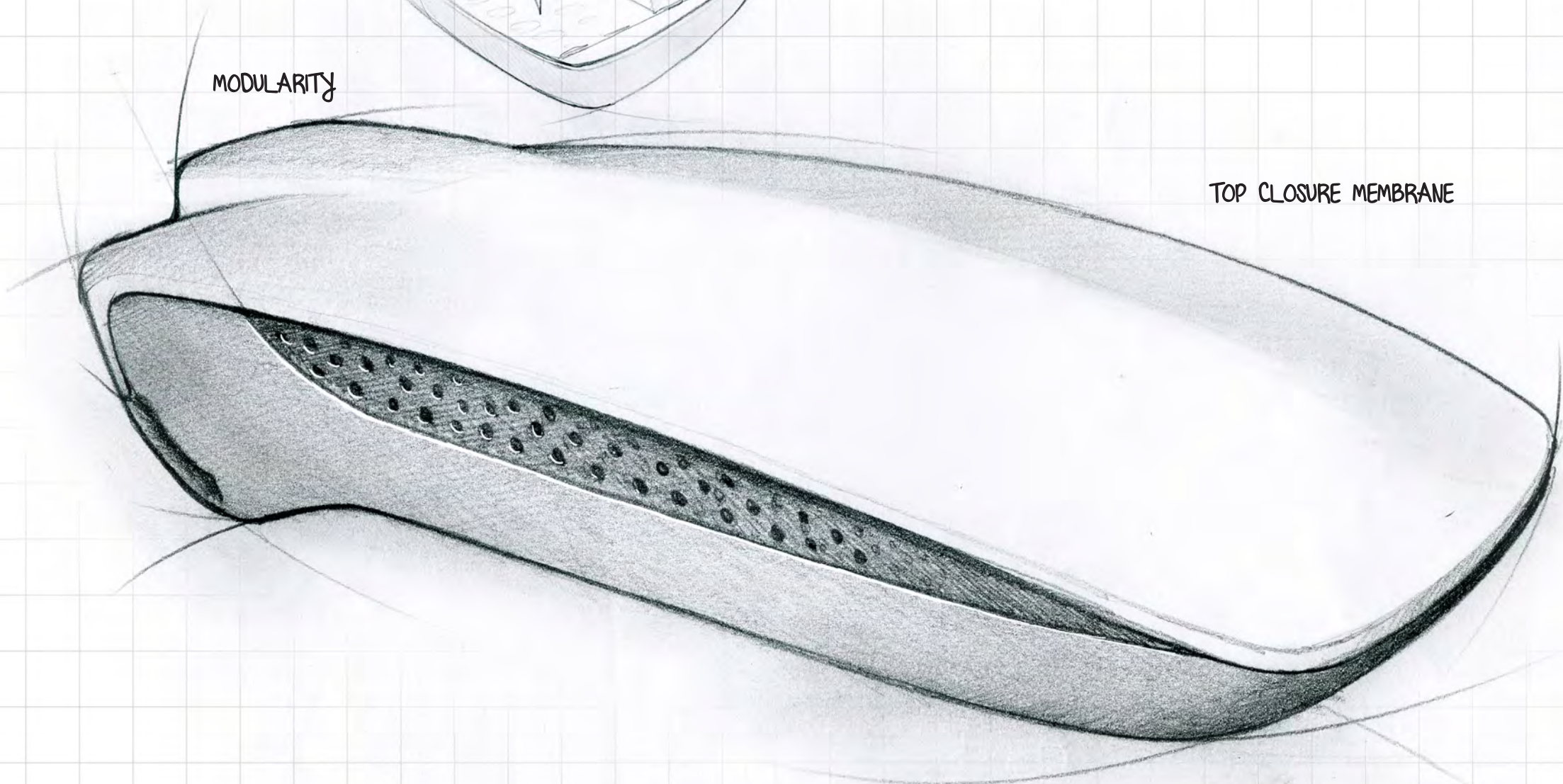
CONCEPT AND DESIGN ARE TWO ESSENTIAL INSTANCES  
THAT TRANSLATE THE IDEA IN THE SPACE AND TIME  
OF REALITY.

INTERCHANGEABILITY LED MOTOR/COSMOPOLIS

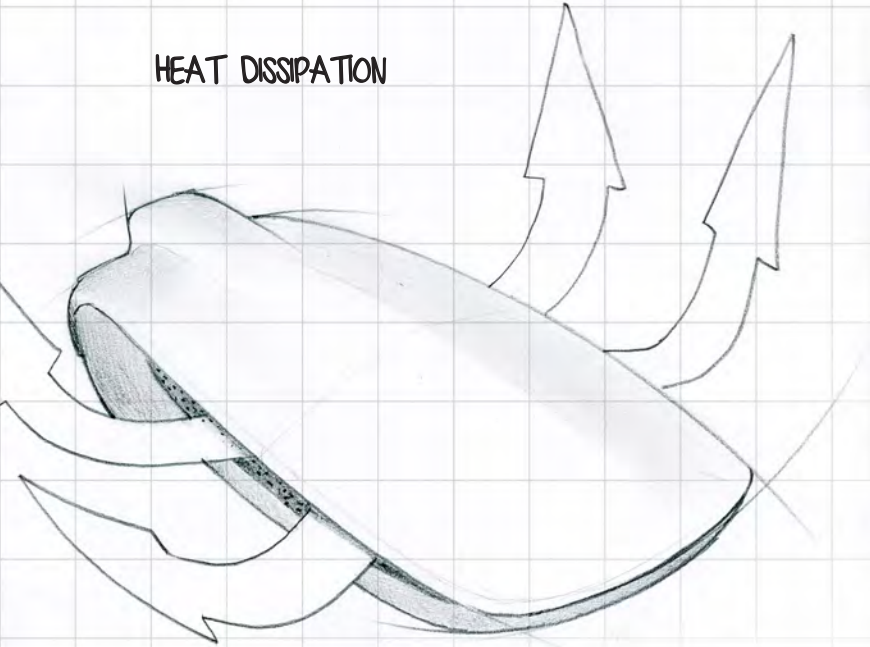


MODULARITY

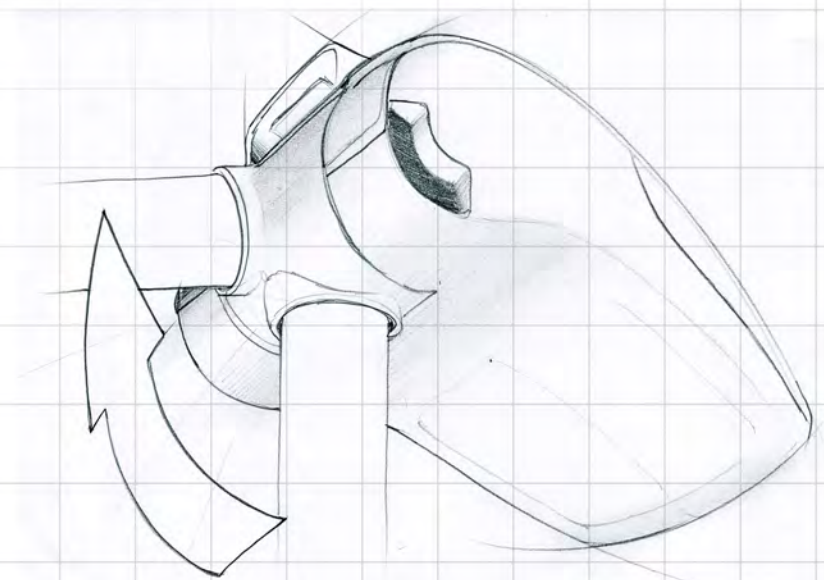
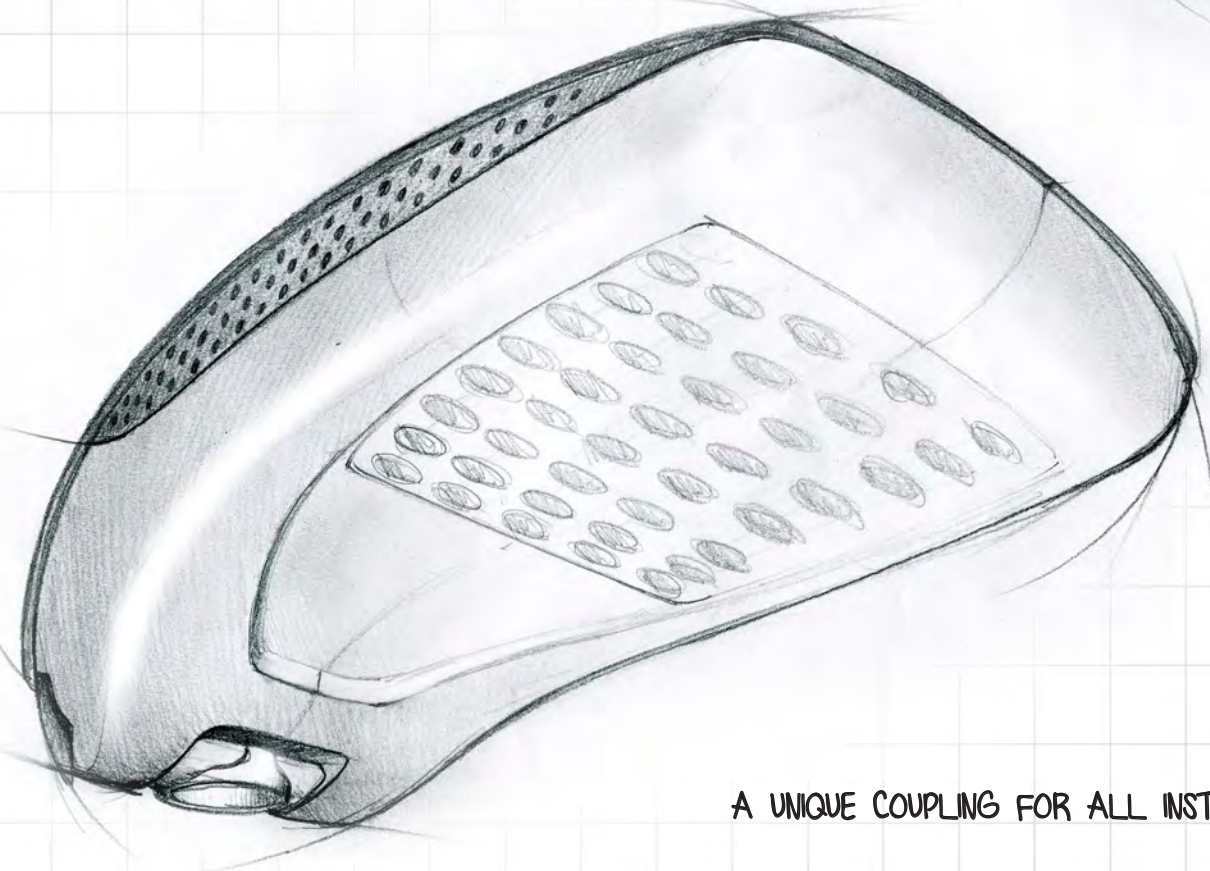
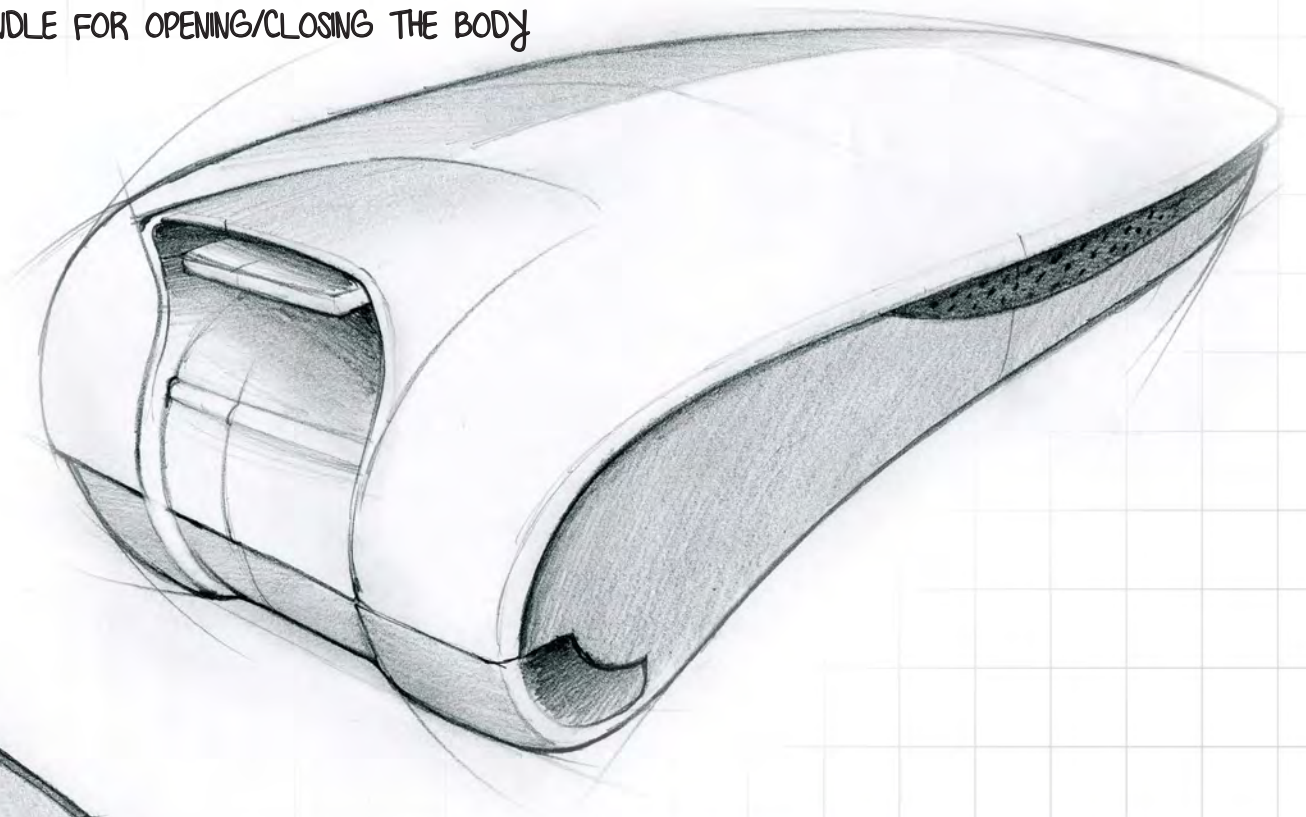
TOP CLOSURE MEMBRANE



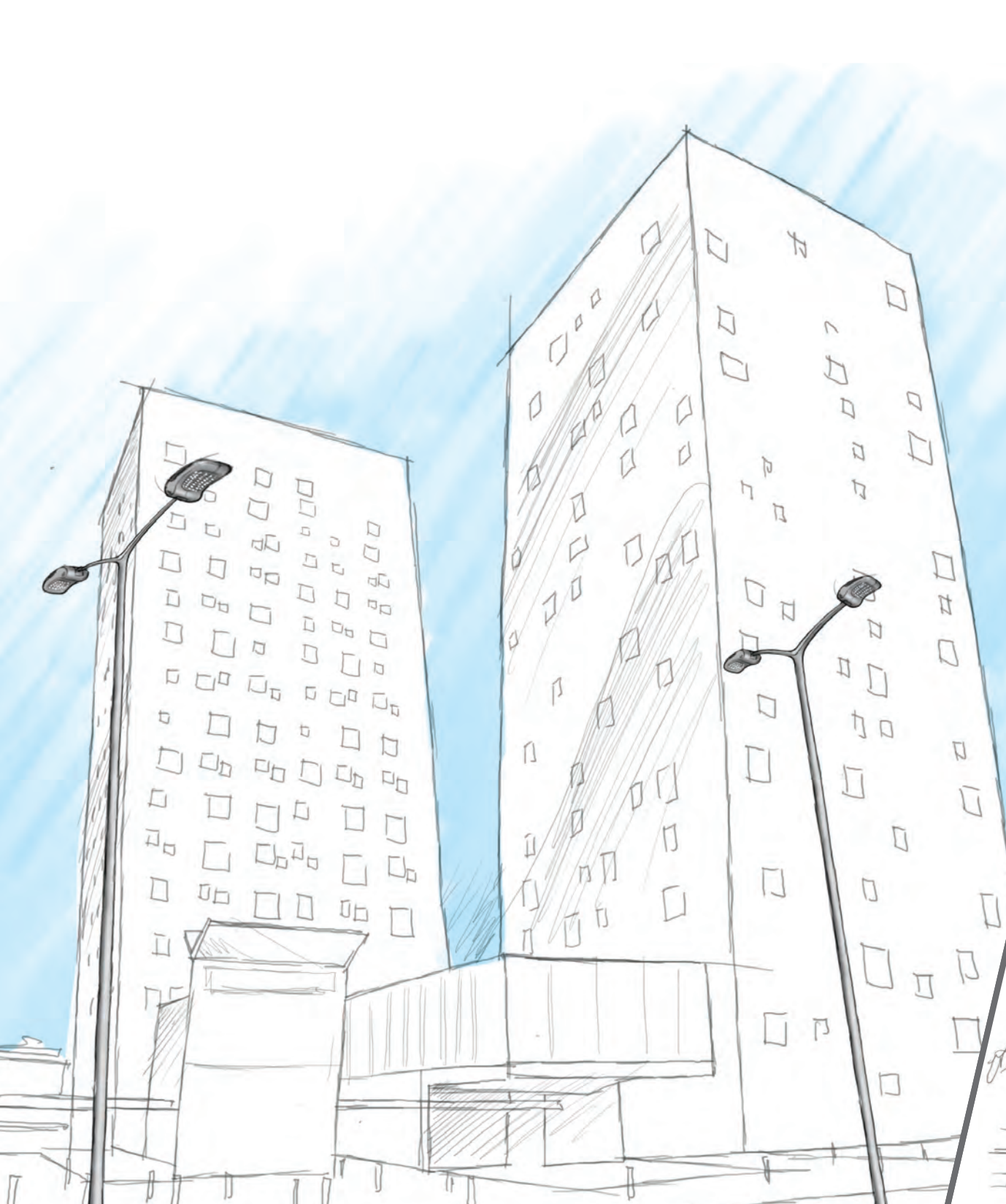
HEAT DISSIPATION



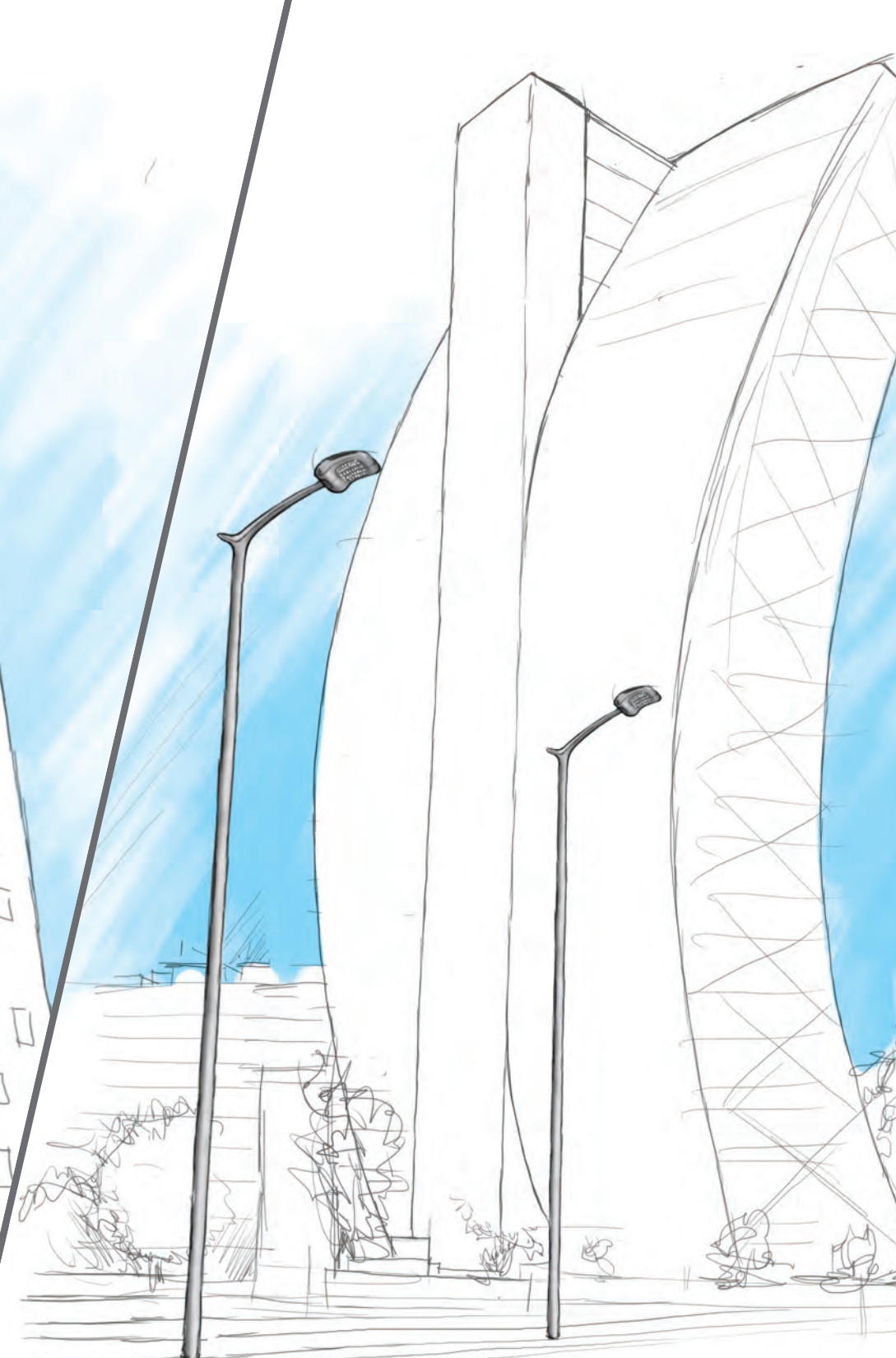
HANDLE FOR OPENING/CLOSING THE BODY



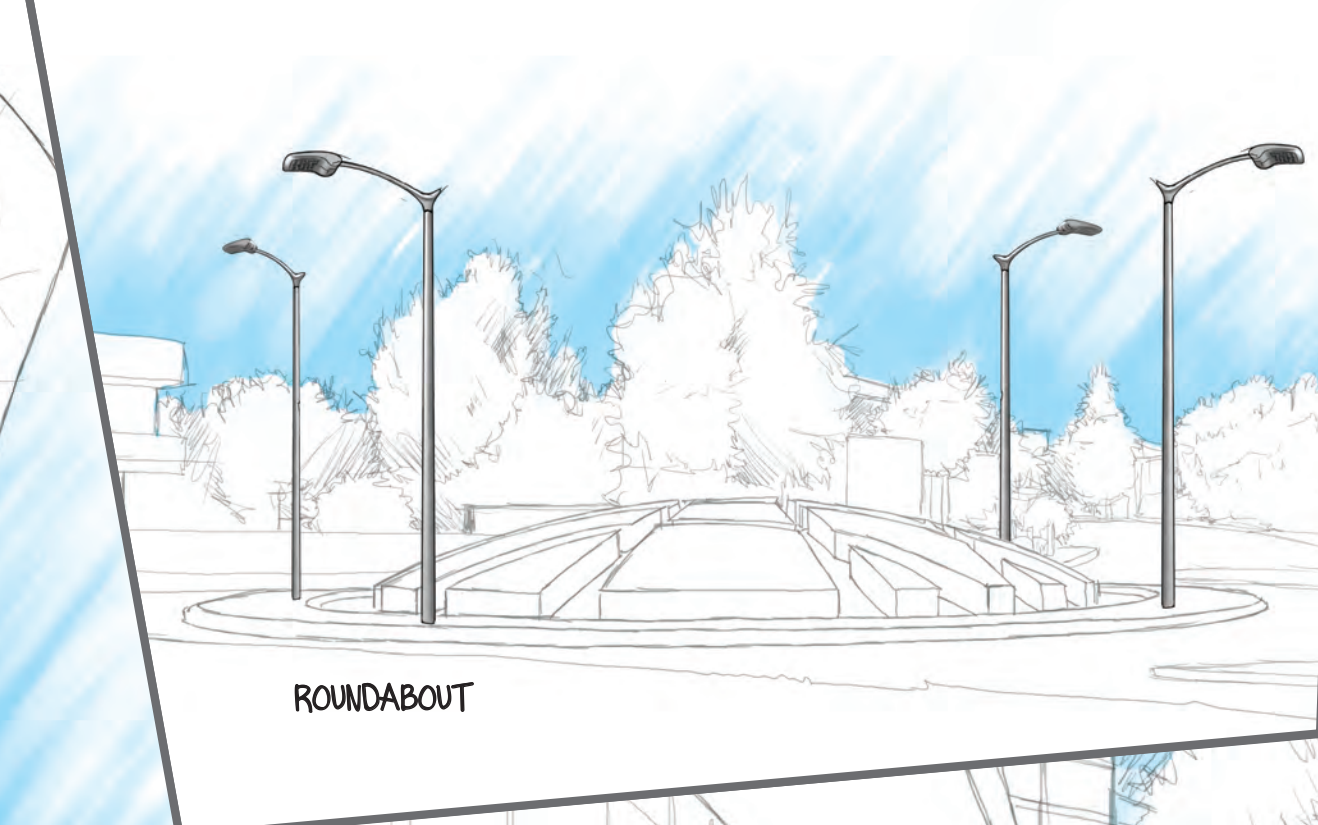
A UNIQUE COUPLING FOR ALL INSTALLATIONS



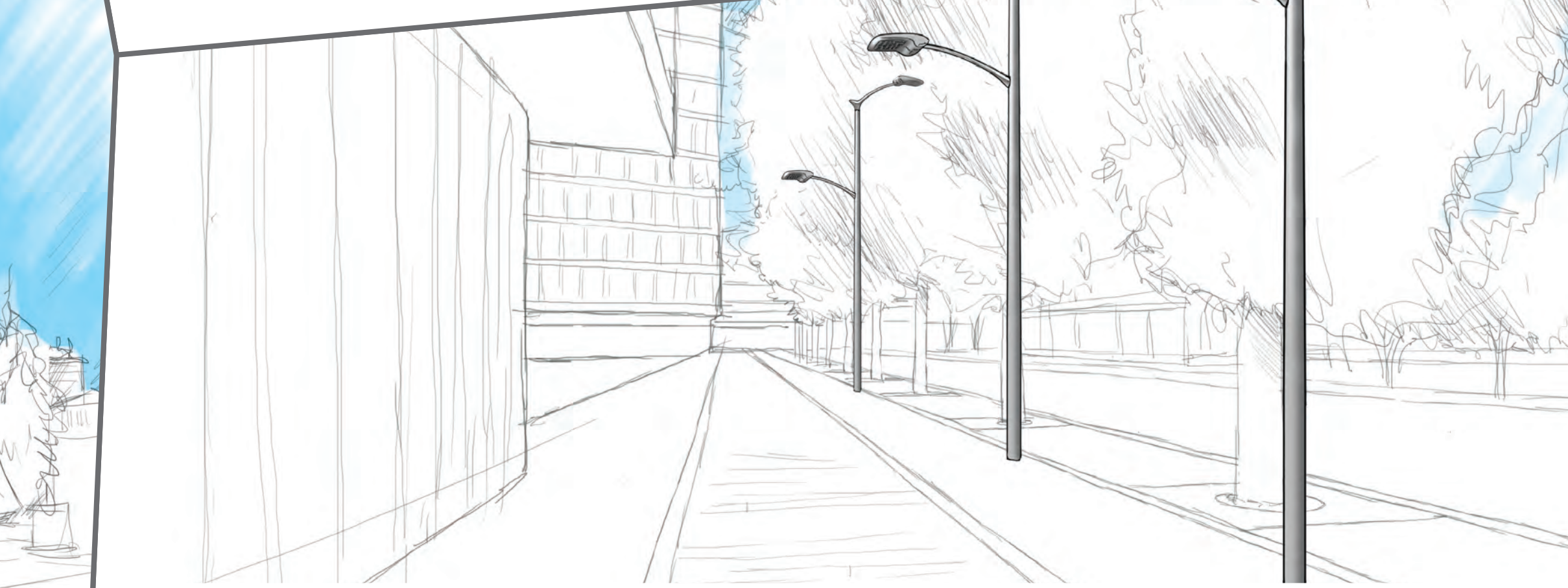
SUBURBAN STREET



URBAN STREET

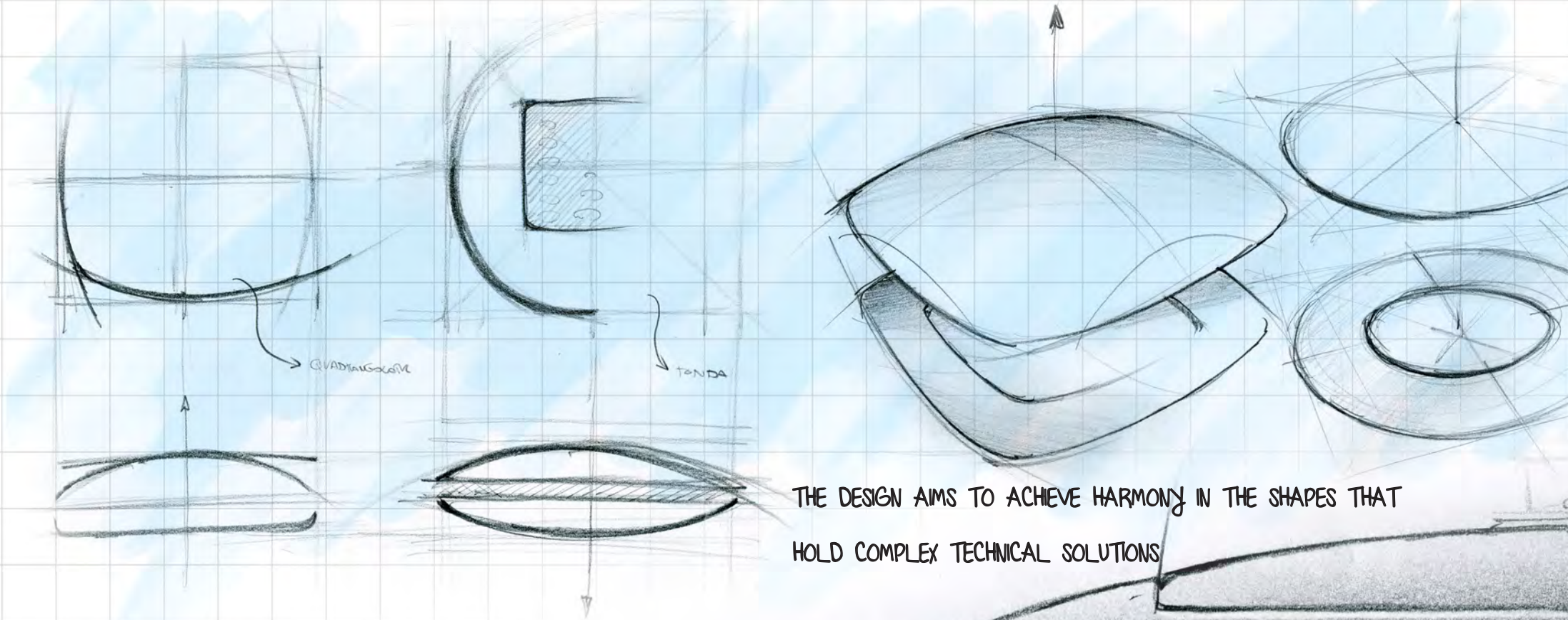


ROUNDBOUT



NEIGHBOURHOOD STREET

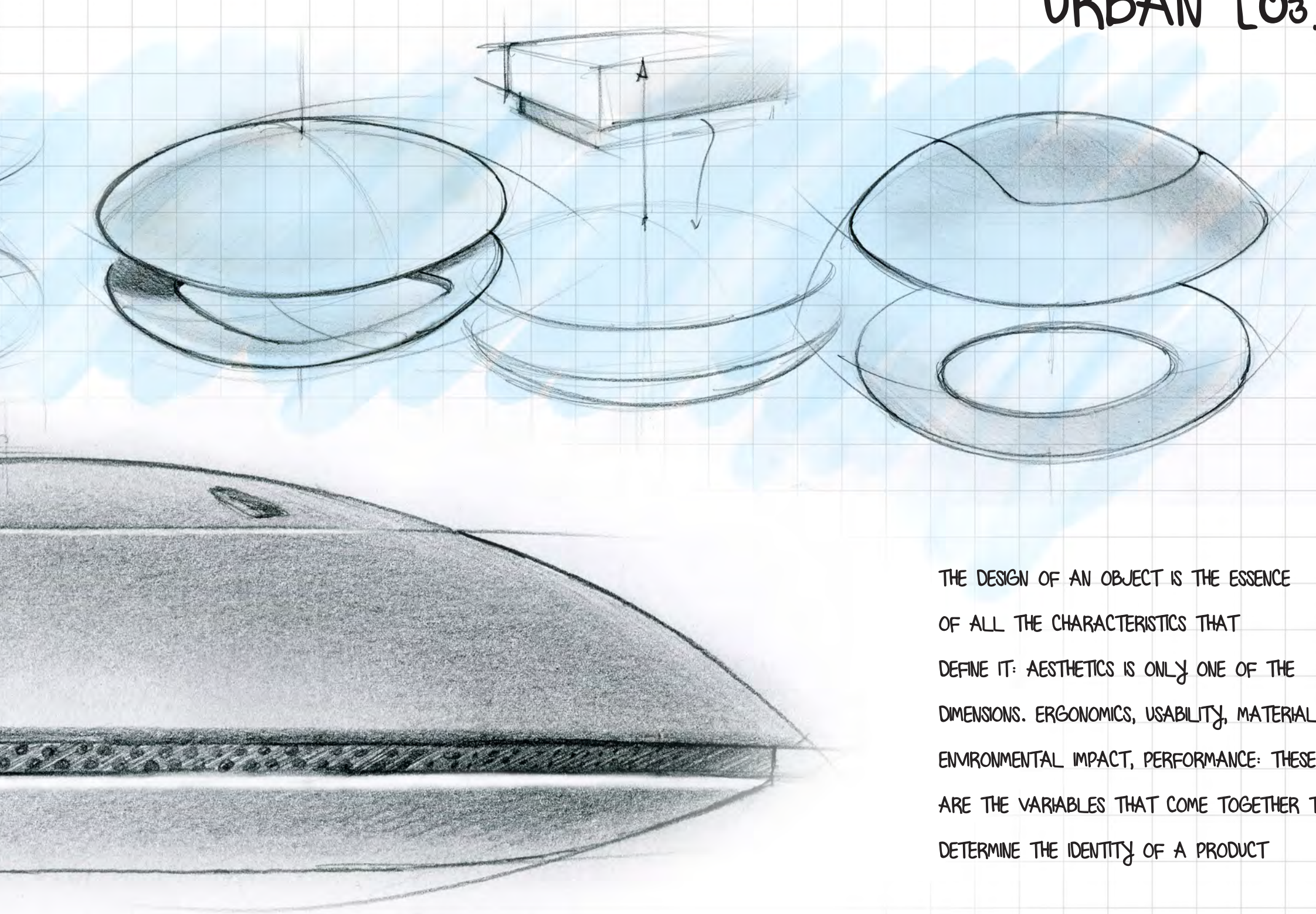
# CONCEPT AND DESIGN



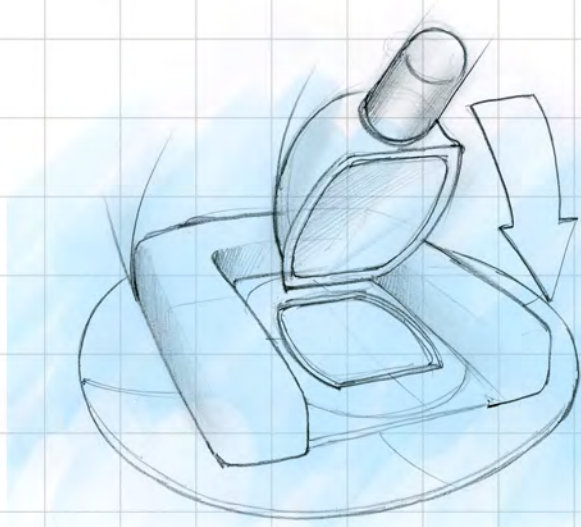
THE DESIGN AIMS TO ACHIEVE HARMONY IN THE SHAPES THAT HOLD COMPLEX TECHNICAL SOLUTIONS

BEAUTY IS THE BALANCE THAT ARISES FROM THE PROPORTION, THE PSYCHOLOGICAL OUTLINE OF A SHAPE THAT SPEAKS TO THE SPACE WHERE IT LIVES

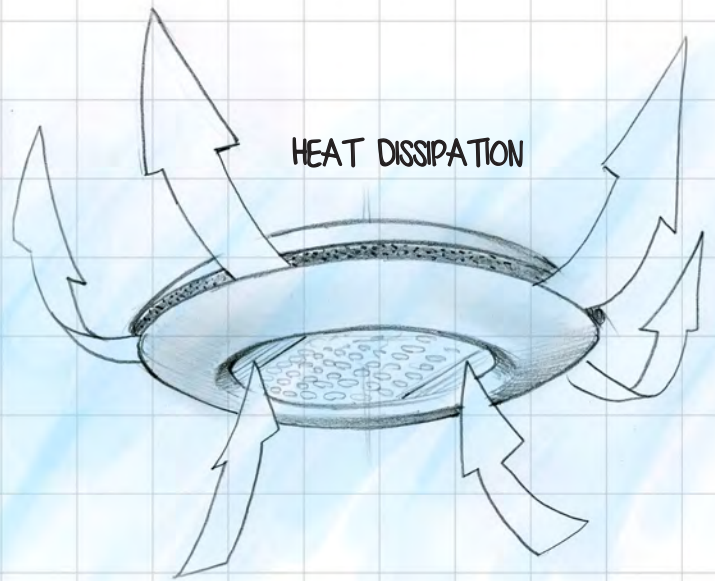
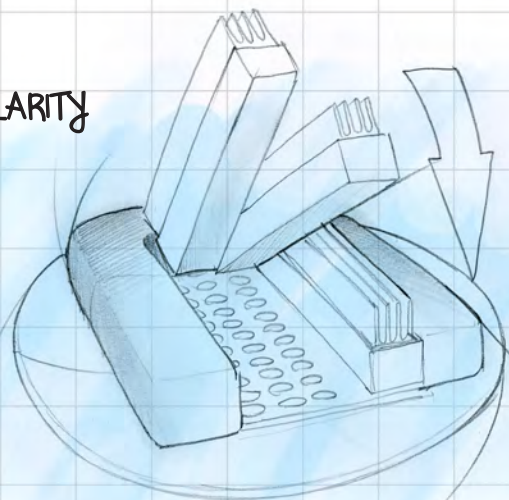
# URBAN [03]



THE DESIGN OF AN OBJECT IS THE ESSENCE OF ALL THE CHARACTERISTICS THAT DEFINE IT: AESTHETICS IS ONLY ONE OF THE DIMENSIONS. ERGONOMICS, USABILITY, MATERIALS, ENVIRONMENTAL IMPACT, PERFORMANCE: THESE ARE THE VARIABLES THAT COME TOGETHER TO DETERMINE THE IDENTITY OF A PRODUCT

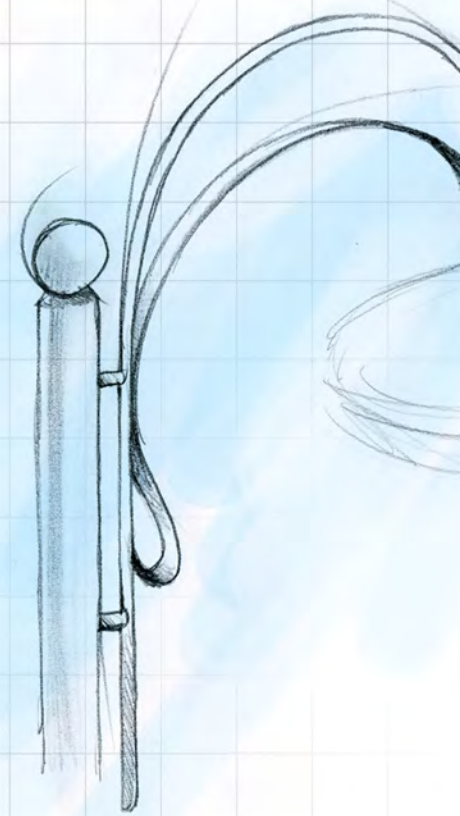
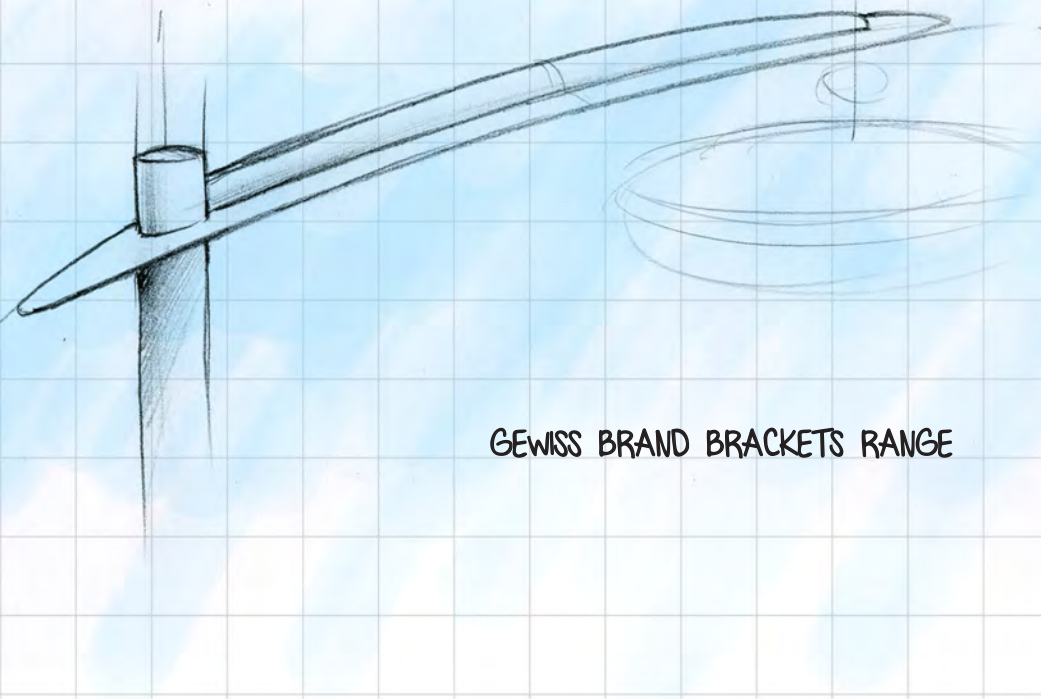


MODULARITY



HEAT DISSIPATION

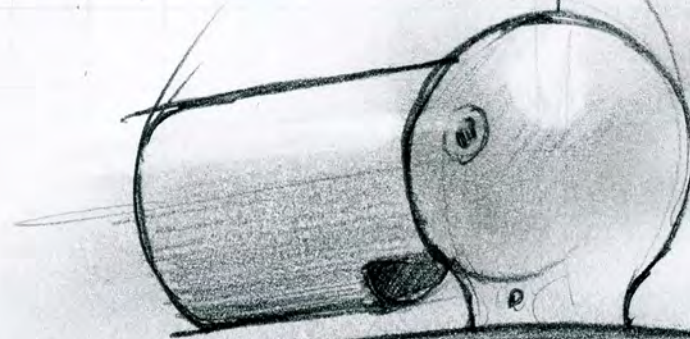
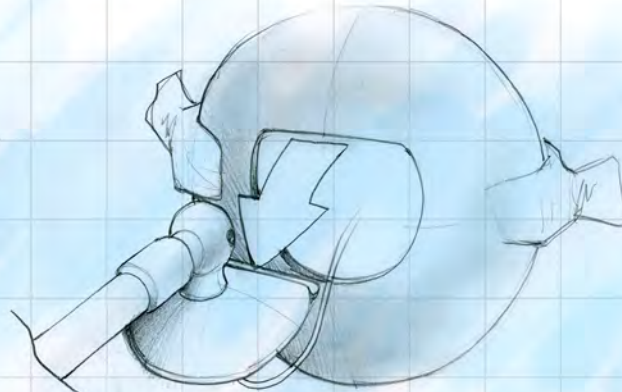
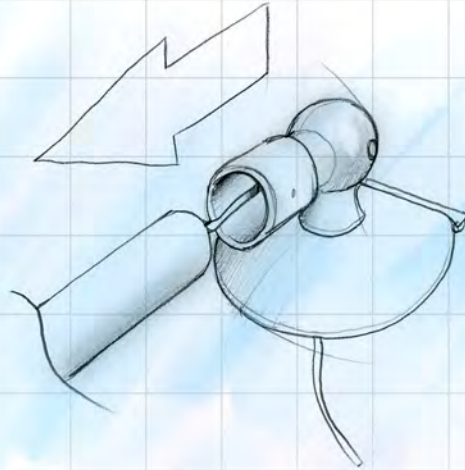
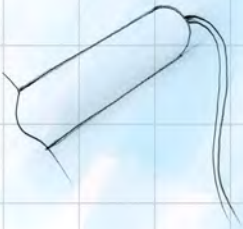
INTERCHANGEABILITY LED MOTOR/COSMOPOLIS



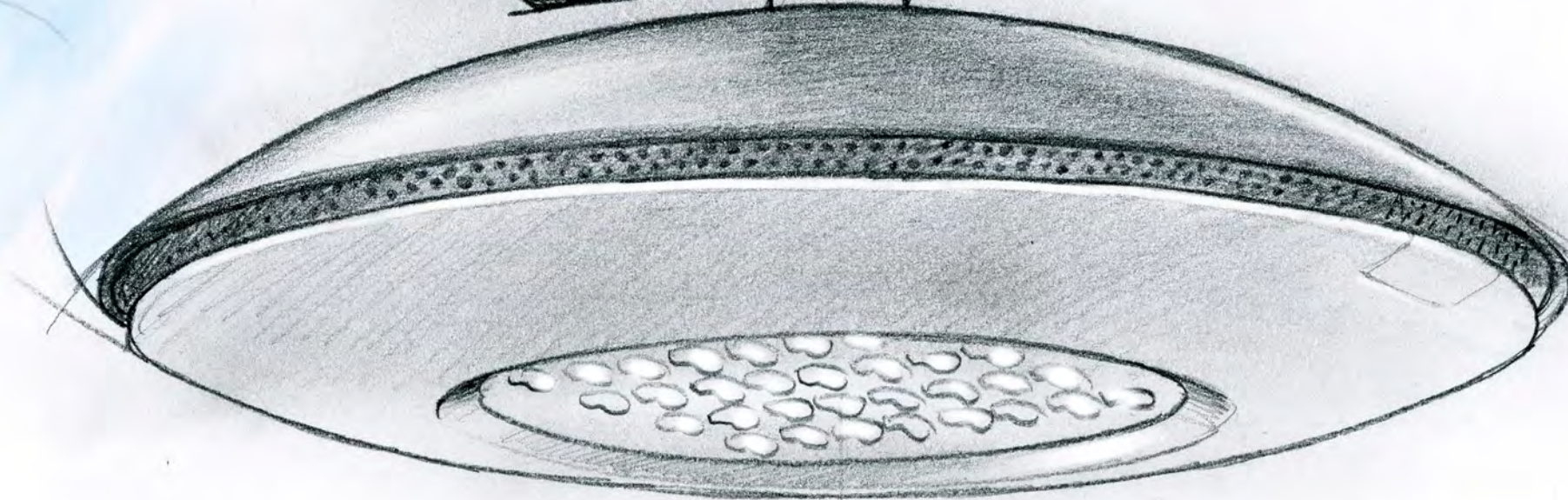
GEWISS BRAND BRACKETS RANGE



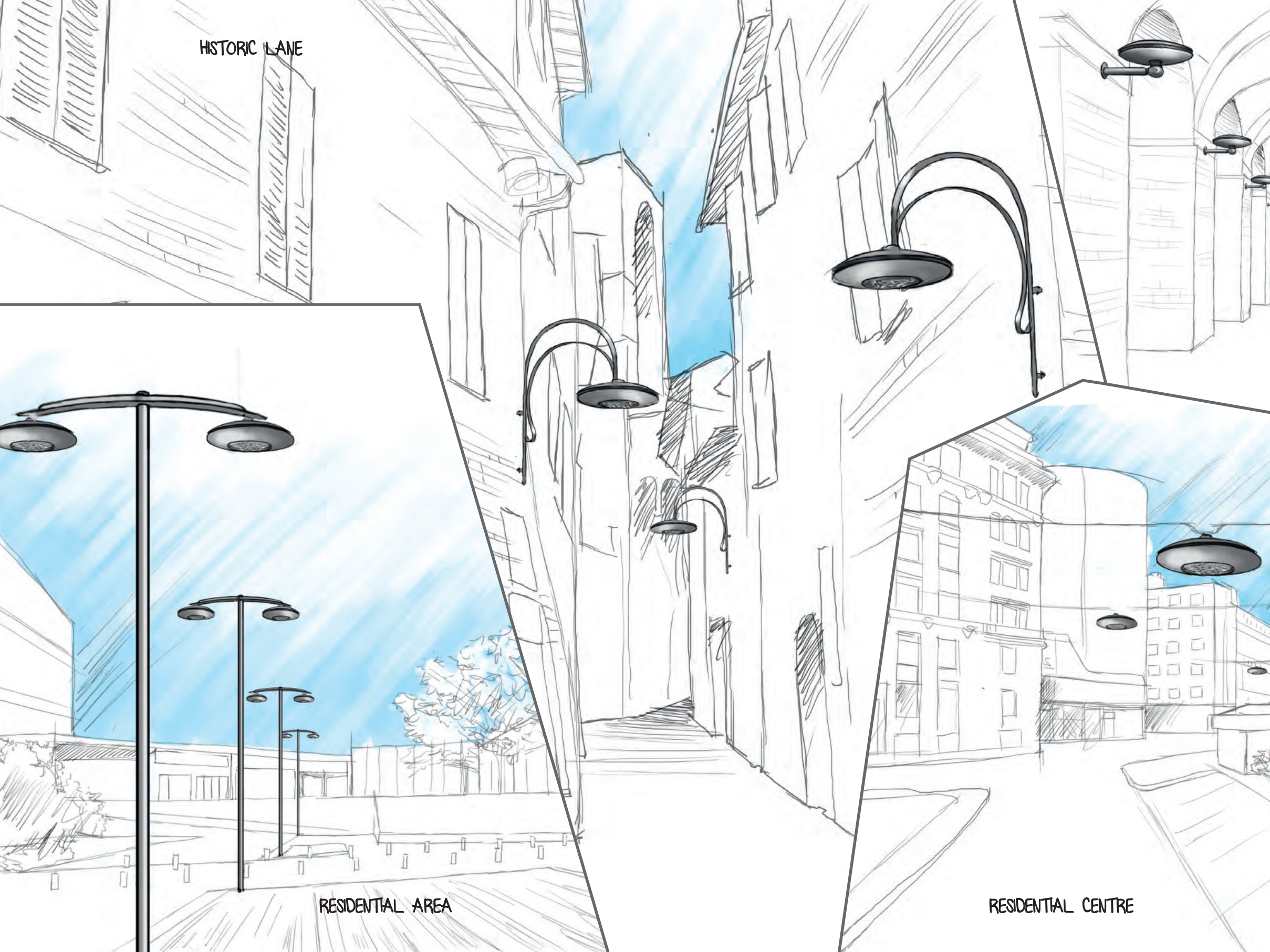
EASY INSTALLATION AND  
MAINTENANCE



UNIVERSAL COUPLING



HISTORIC LANE

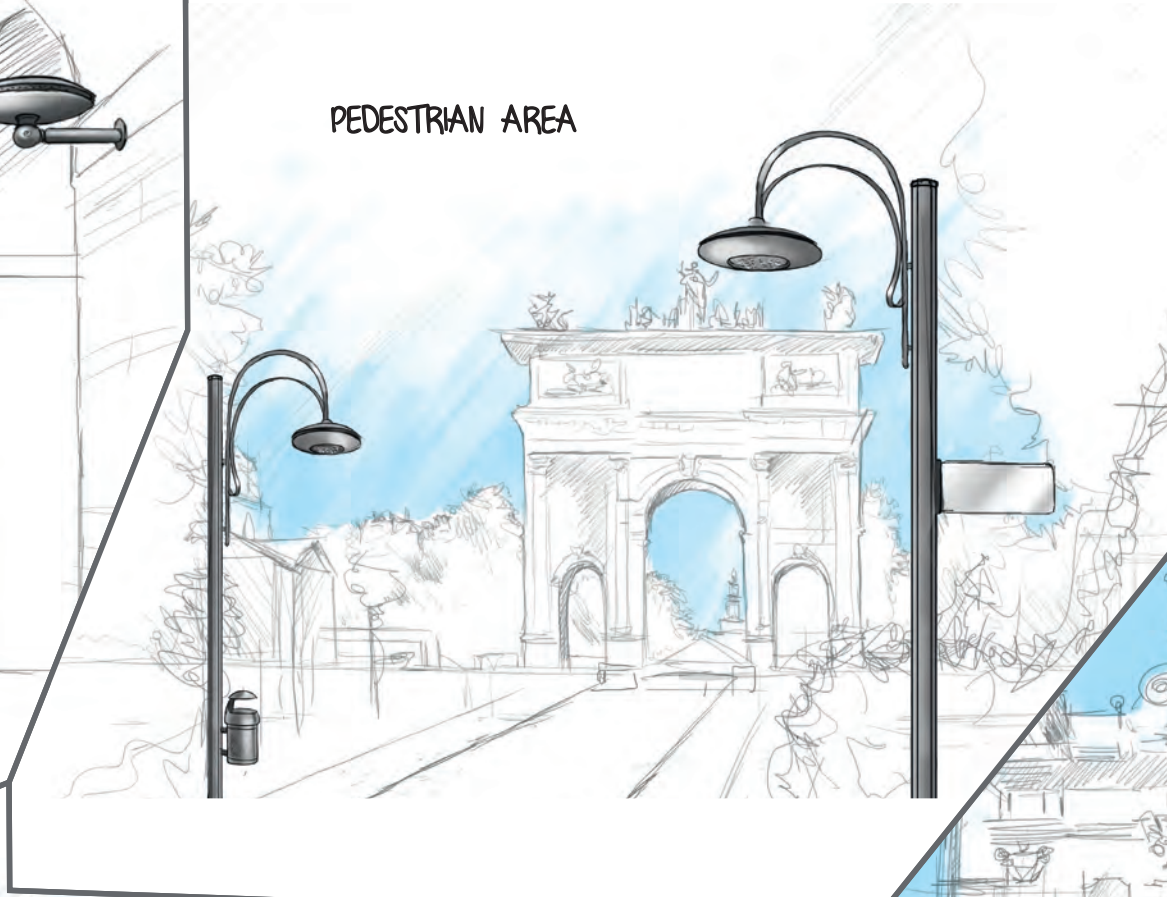


RESIDENTIAL AREA

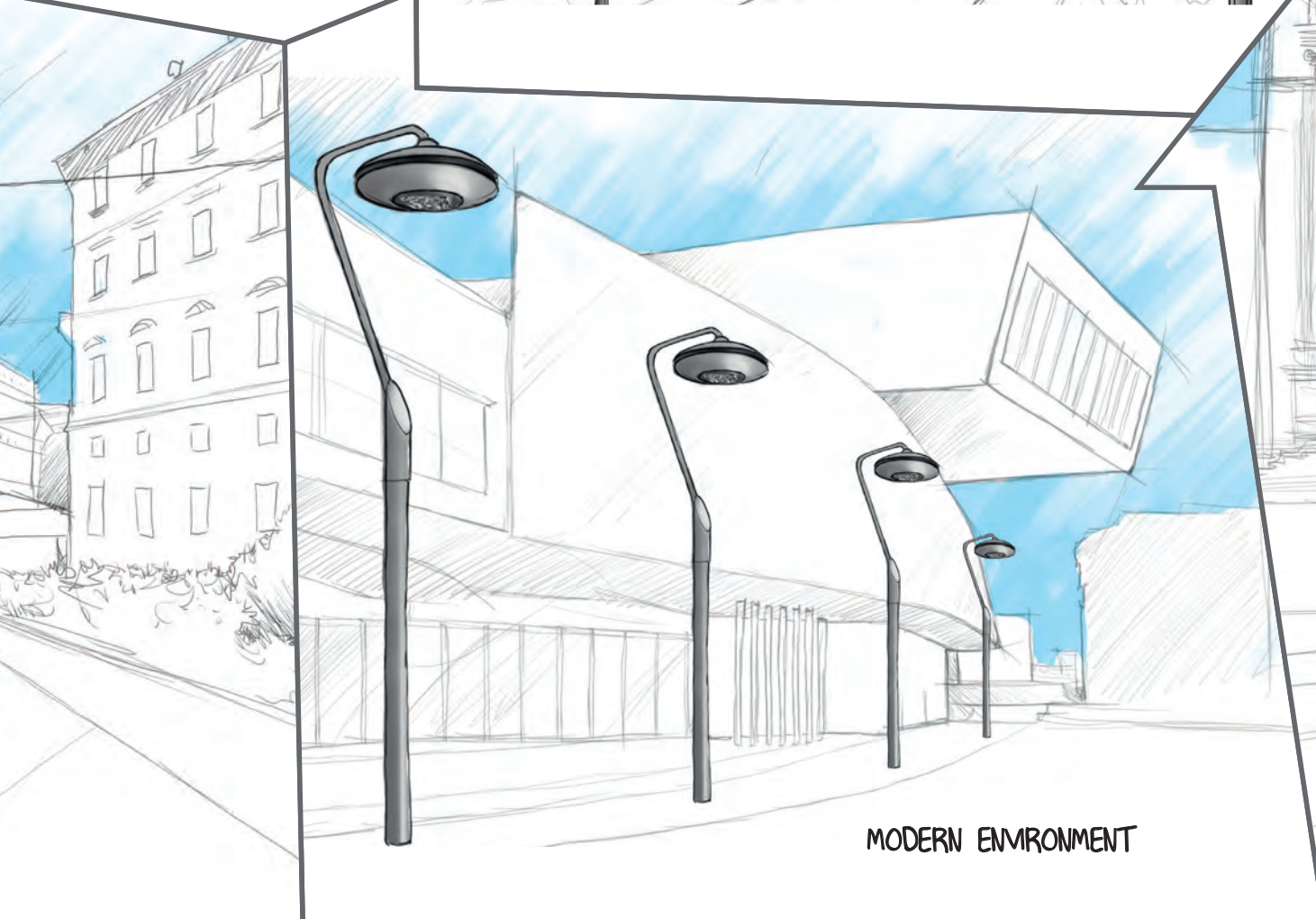
RESIDENTIAL CENTRE



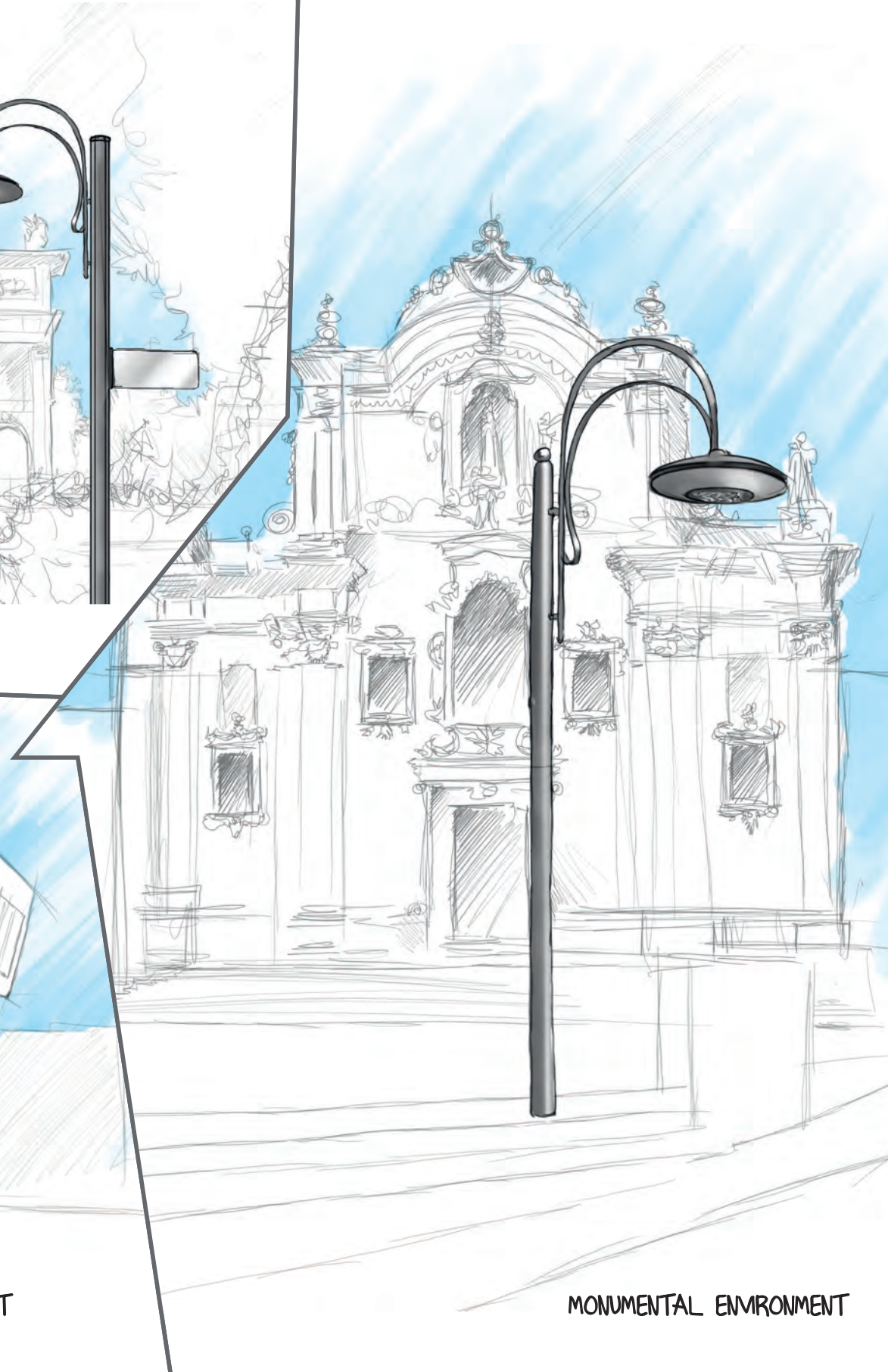
COLONNADE



PEDESTRIAN AREA



MODERN ENVIRONMENT



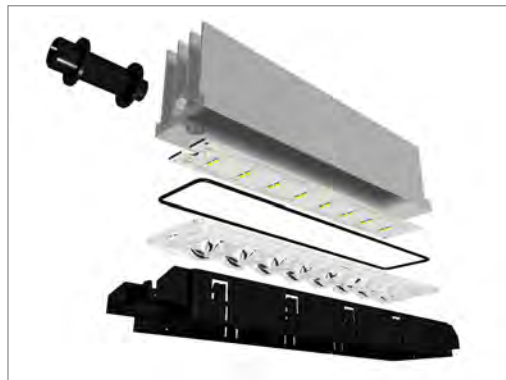
MONUMENTAL ENVIRONMENT



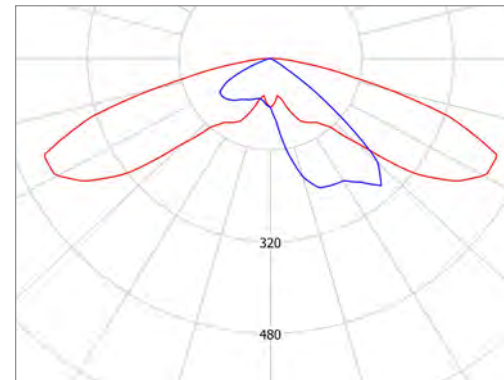
## 2. Light technologies

The technology is a "discussion on the technique" namely, a solid understanding of the "expertise". The technique involves working on and in reality, the conversion of natural resources into simple and complicated instruments. Technology is the bridge between knowing and doing, between discovery and innovation, between innovation and market.

GEWISS interprets technology as the process that ranges from the discovery to the innovation and then goes from the innovation to the market.



To translate a discovery into an innovation, you need to translate knowledge into action and viceversa: the experience and know-how accrued by GEWISS in its more than twenty years of history take shape in products and solutions that adopt the most advanced lighting technologies to offer lighting solutions most adapted to the most heterogeneous contexts.



# White light for the urban landscape

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## THE ADVANTAGES OF WHITE LIGHT

### better design quality

White light enhances the night-time urban panorama; it integrates well with both modern and traditional building materials and makes green areas appear lively and flourishing.

### safety

Thanks to a superior quality chromatic yield, white light makes it easier to distinguish objects, colours, forms, faces and details, making the areas more reassuring. The ability to make it easier to recognise faces represents a deterrent against crime.

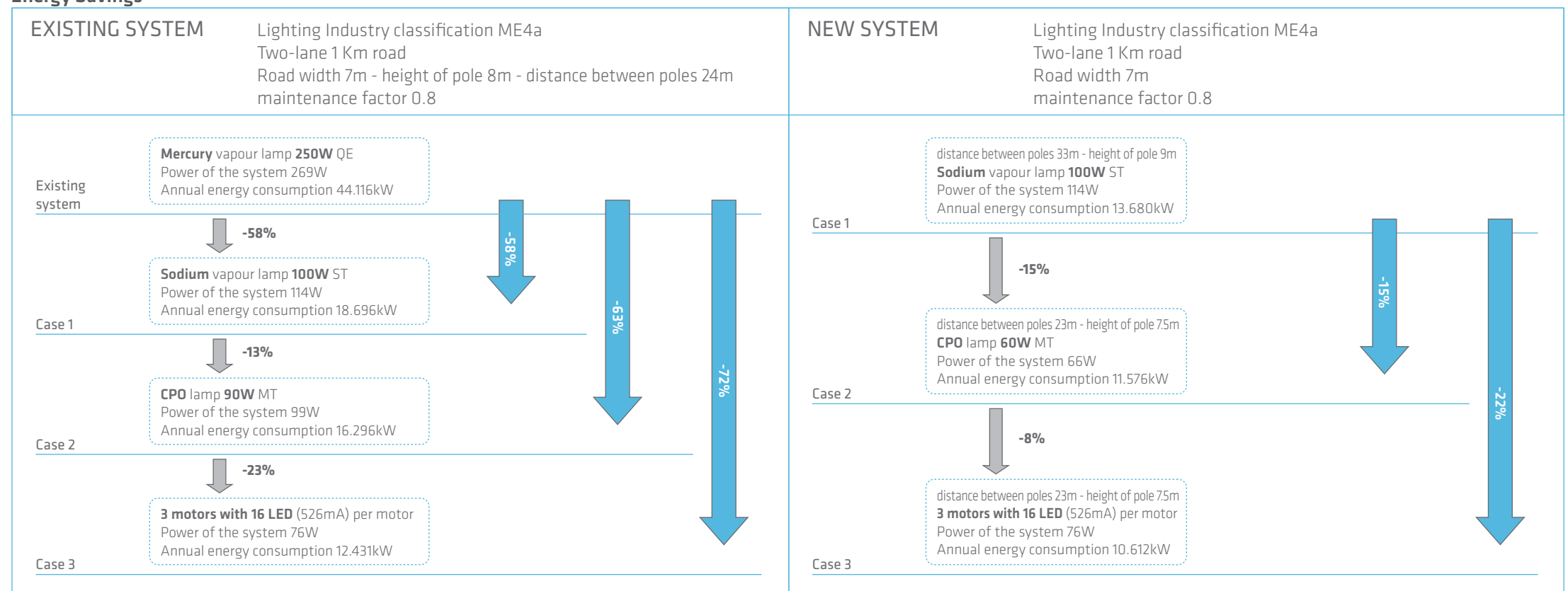
### accident prevention

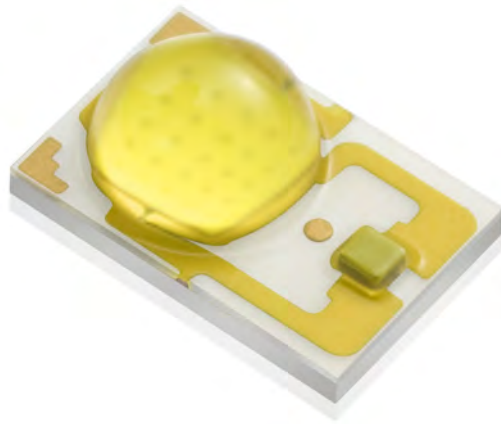
It contributes to road safety making it possible to quickly survey roadside movements and recognise dangers from a greater distance.

### energy savings

Improvements in the performance lead to a greater efficiency of the light sources; people perceive white light as being brighter, so it is possible to obtain the desired lighting with a considerable reduction of the light flux

### Energy Savings





Research into LED is developing steadily: they will be the light sources of the future.

The advantages of solid state lighting (SSL):

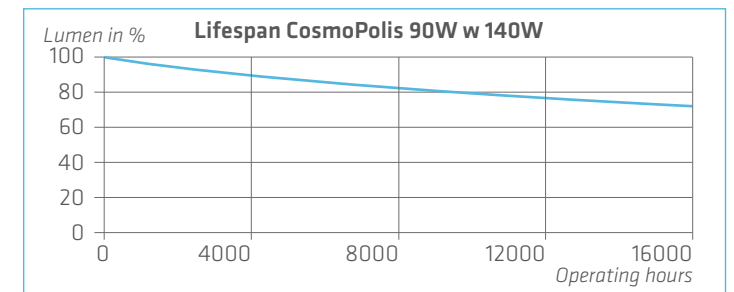
- **energy savings and environmental sustainability:** these light sources allow energy savings with a resulting lower production of carbon dioxide (CO<sub>2</sub>). Furthermore, LED lights do not contain mercury and their components are easy to dispose of.
- **heat developed:** the heat produced by LED is lower than the heat from discharge lamps and it is transmitted via conduction; this means that the light emitted does not contain infrared radiation and the heat is transferred through the base of the device.
- **photometric emission:** emission only on one side; this is why all the luminous flux emitted is directed toward the surface involved increasing the efficiency of the optic system.
- **power supply voltage:** unlike traditional lamps, LEDs operate at very low voltage; this is why their electrical systems are safer
- **lifespan and depreciation:** inserted into well-designed systems, LED can work hundreds of thousands of hours before the luminous flux emitted decreases to below an

established threshold (usually 70% of the original flux L70). LEDs also offer a very low malfunction rate: this is why the costs of maintenance can be considered very economical sources.

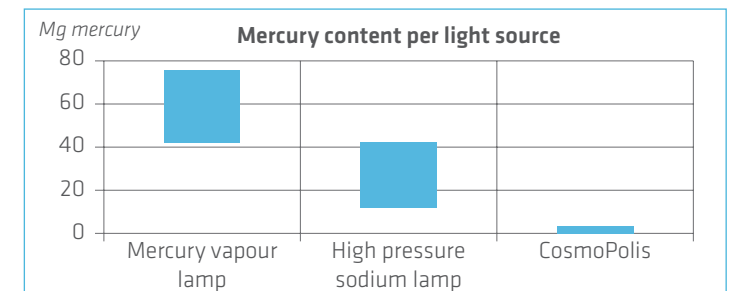
- **mechanical resistance:** LEDs are not subject to mechanical shocks such as blows or vibrations. As a result, they are especially ideal for applications subject to continuous or occasional mechanical stress.
- **dimensions and weight:** the small dimensions make it possible to design compact devices. Considering that these lights sources feature a small light emission area, they work well as pilot lens, creating excellent optical yield and factors of use since the light is allocated very precisely.
- **turning on, regulating, managing:** LED turn on when hot and reach the nominal flow in a very short time without being affected by low temperatures. The light can be regulated simply by reducing the pilot current.



- **lifespan and depreciation:** a lifespan of 4 years and the fault rate which stands at about 10% make it one of the best sources on the market.



- **environmental sustainability:** the use of CosmoPolis combined with electronic regulation solutions provide significant savings in terms of energy costs. This source also features a very low mercury content.

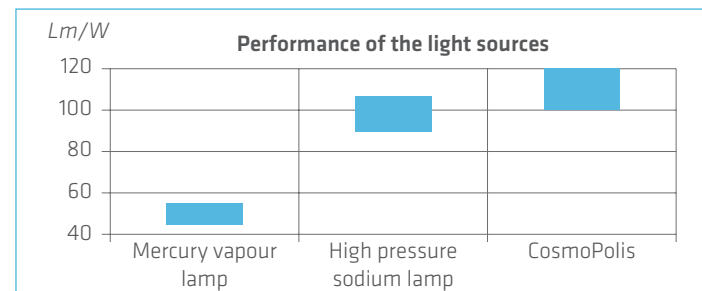


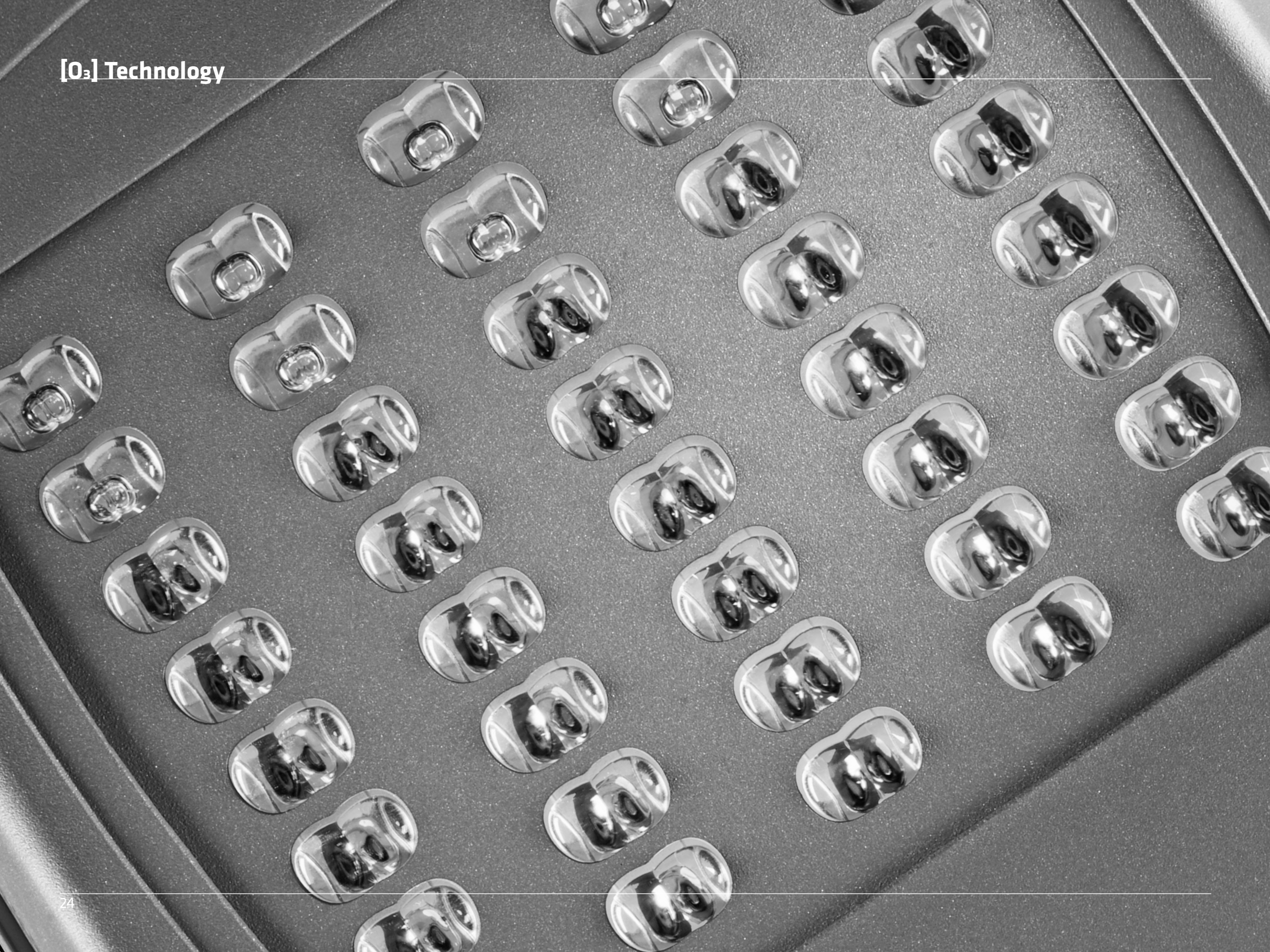
## Cosmopolis

Cosmopolis represents the latest evolution in ceramic metal halides lamps, characterised by a new burner design and extremely precise fixing thanks to the PGZ12 lamp-holder.

The advantages of Cosmopolis light sources

- **dimensions:** they are 50% smaller than existing sodium vapour lamps. This makes it possible to design high bays featuring compact overall dimensions which can be inserted into very small sized custom devices.
- **energy efficiency;** the recent technological advancements make it possible to obtain high energy performance reaching 120 lm/W.







*Technology by  
Gewiss*

## Optimised Optical Output

At the heart of the GEWISS product range:  
an efficient and high performing optical system,  
an essential tool to manage the potential  
offered by LED sources

### what it is

*A single module made up of 8 nano-optics, of two different types.  
The optics are displayed in an “Array Standing Alone” which make it possible to achieve a complete photometric solid.*

### objective

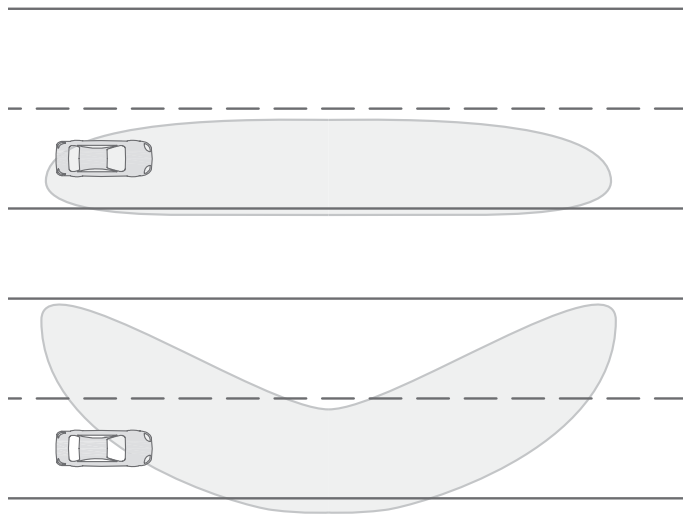
*Faithful to its philosophy, GEWISS has conceived a solution with highly developed yet easy to use content that cuts through the confusion that the new technologies have created in the world of lighting.  
With its single lens configuration, [O<sub>3</sub>] Technology can solve distribution problems of the luminous flux for street lighting fixtures.*

### advantages

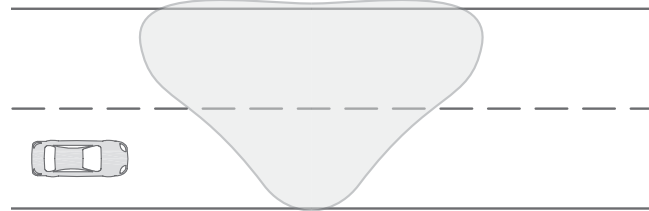
*“Software free” optical system guarantees the correct lighting for every type of street.*

THE GEWISS OBJECTIVES

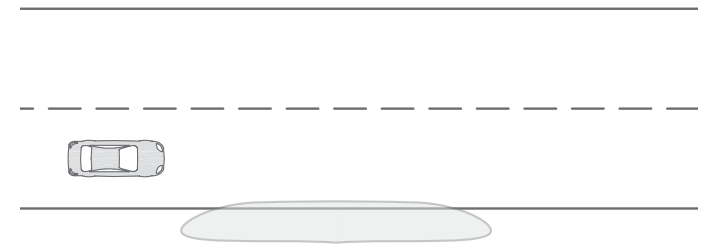
Research into the maximum interim distance



Research into the maximum breadth

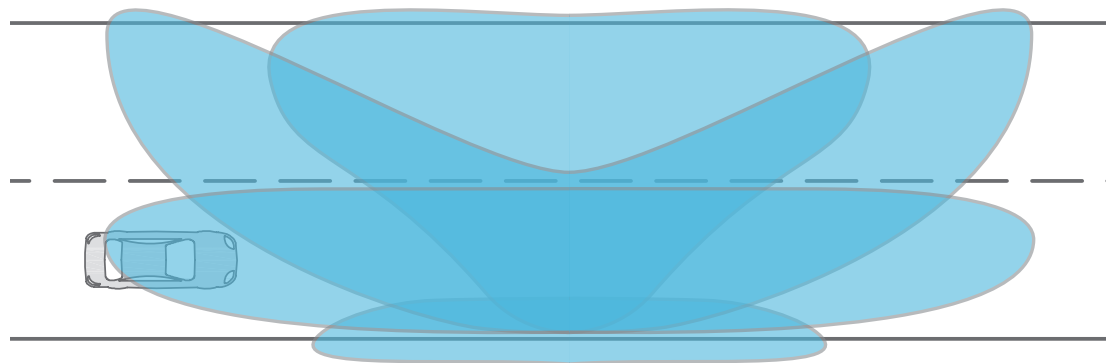


Research into the surroundings (sidewalk)



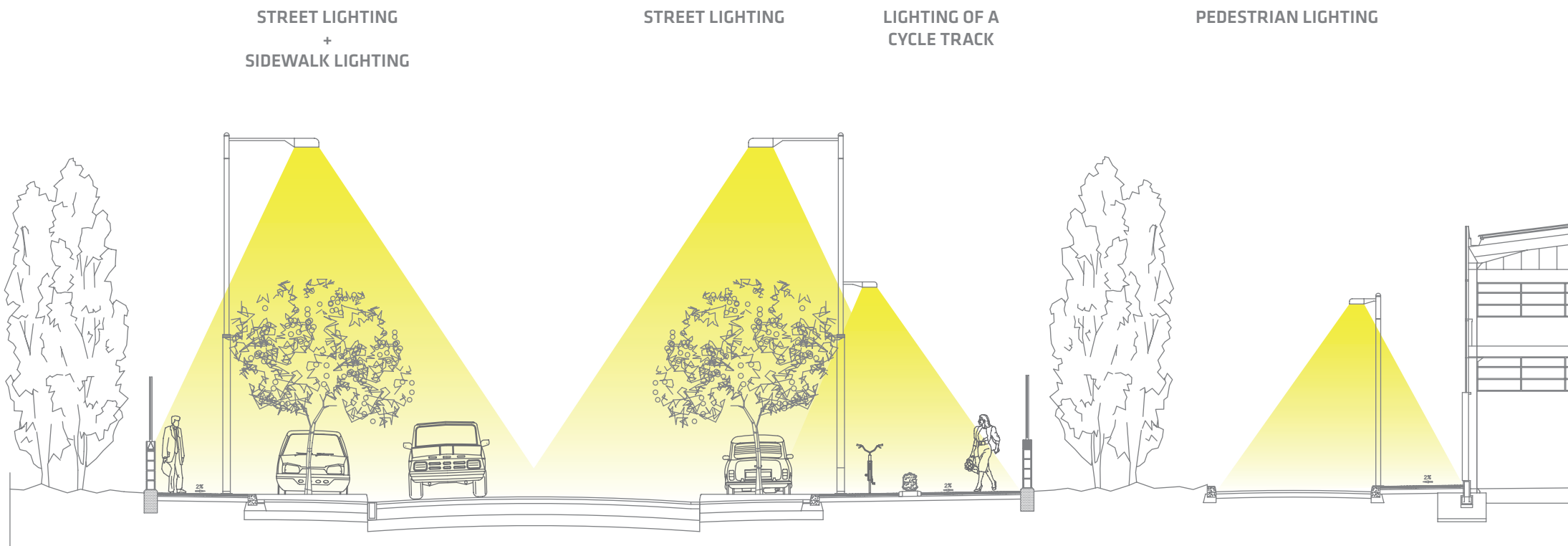
THE GEWISS SOLUTION

A SINGLE OPTIC AND A SINGLE PRODUCT FOR EVERY NEED USING ONE MODULE WITH DIFFERENT LENSES



RESEARCH TO MAXIMISE PERFORMANCE

A SINGLE PHOTOMETRIC ALLOCATION FOR EVERY APPLICATION



Urban and extraurban streets

Street lighting Industry classification ME3b					
[O <sub>3</sub> ] Street - 64LED 525 mA 4000K					
	Lm(cd/m <sup>2</sup> )	U0	UI	Ti	SR
Calculated values	1.0	0.6	0.6	15	0.6
Nominal values according to the class	≥1.0	≥0.4	≥0.6	≤ 15	≥0.5

Catenary street lighting

Street lighting Industry classification ME3c					
[O <sub>3</sub> ] Street - 64LED 525 mA 4000K					
	Lm(cd/m <sup>2</sup> )	U0	UI	Ti	SR
Calculated values	1.1	0.6	0.6	14	0.9
Nominal values according to the class	≥1.0	≥0.4	≥0.5	≤ 15	≥0.5

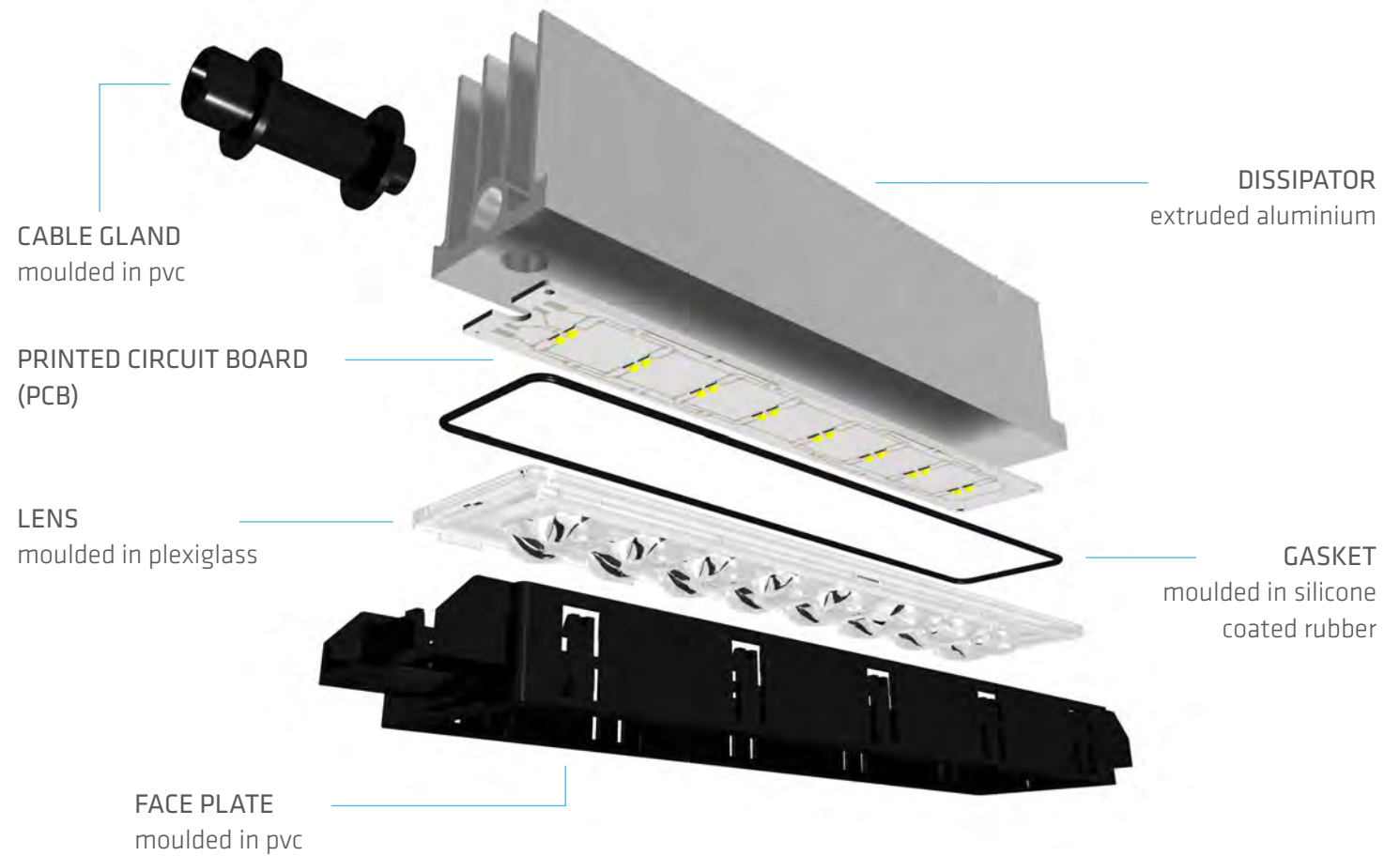
Bike path

Street lighting industry classification S1		
[O <sub>3</sub> ] Street - 32LED 525 mA 4000K		
	Em(lux)	Emin(lux)
Calculated values	15	12
Nominal values according to the class	≥15	≥5

# LED motor

## Design of the LED motor

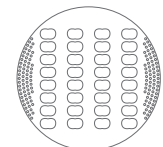
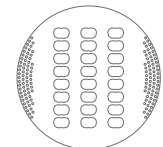
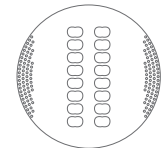
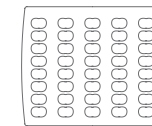
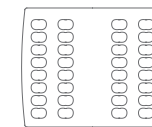
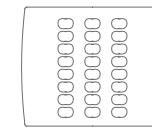
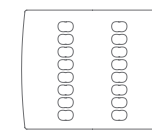
Gewiss has developed photometric motors that can take full advantage of the potential of LED light sources by seeking efficiency and flexibility to fit any application in street and urban lighting. These motors represent the heart of our new lighting products. They were designed and manufactured considering a modular system that can evolve with time. Every component, from the lens to the PCB, has been designed entirely in order to conceive a lighting system that can last in time with high performance in heat dissipation and lumen/watt efficiency.





**Modularity**

GEWISS devices are built using a modular system of light bars that can be added or removed to obtain the desired luminous flux.



[03] Street  
Combinations of modules

[03] Urban  
Combinations of modules

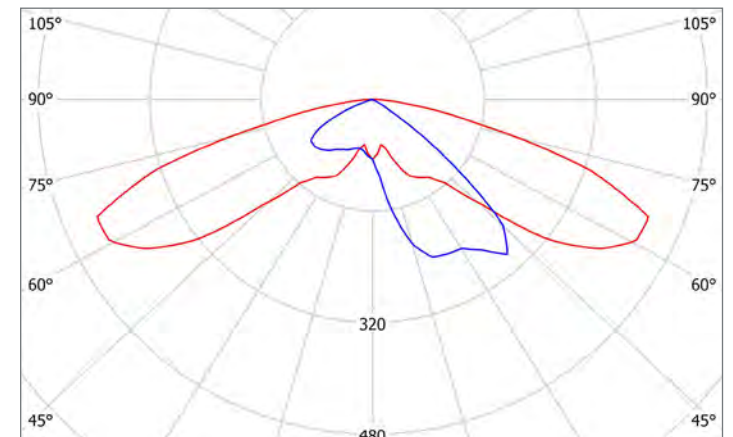
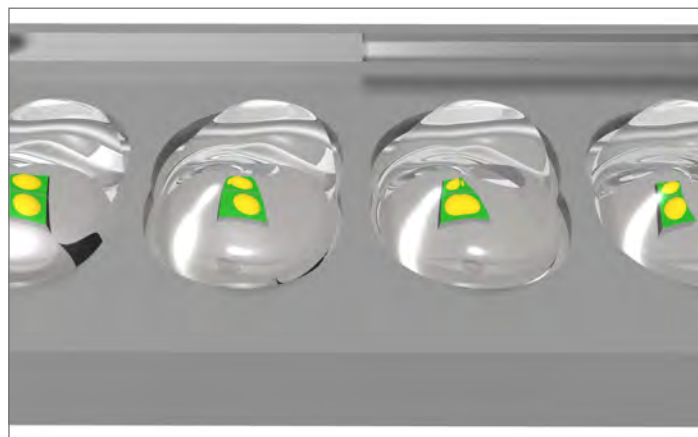
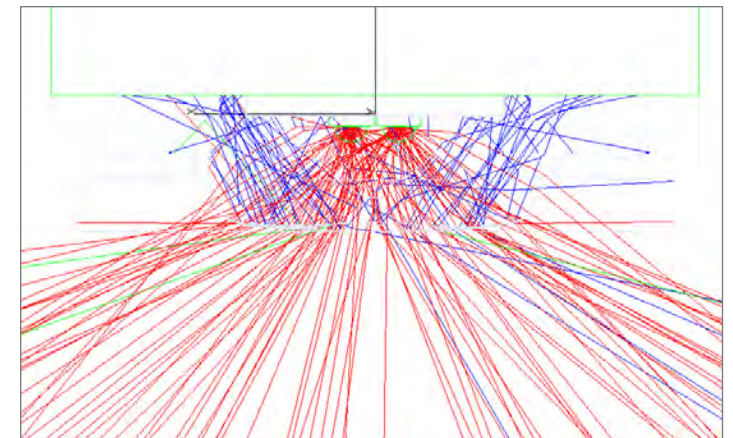
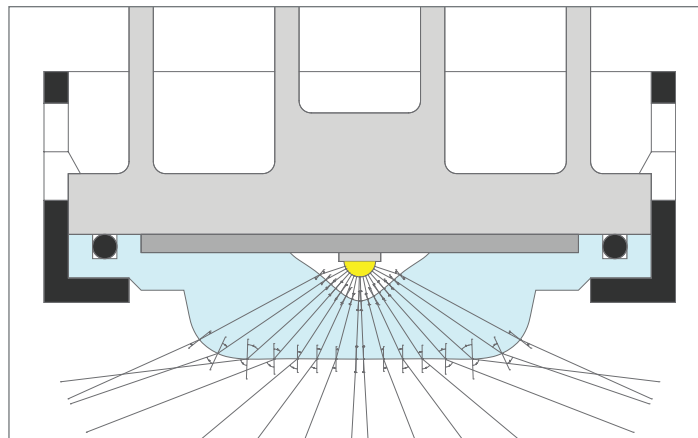
## Lens design

The optic system is used to control the light emitted by the LED. GEWISS has decided to use a refraction optic coupled with the light source to obtain the best performance and optimal distribution of the luminous flux. Gewiss optics were designed using 3D modelling with a view to defining the geometries with utmost precision. In PMMA, the optics will not yellow or lose transparency and maintain their performance unchanged in time.

Phase 1 - Analysis: this is the phase in which the project is defined, the objectives and regulatory needs are analysed, the project parameters and variables are defined.

Phase 2 - CAD Modelling: in this phase, the use of 3D CAD software creates a computerised model of the parts of the design and changes can be made.

Phase 3 - Simulation: the intrinsic properties of the materials and surfaces are applied to the model. The geometric definition of the sources allows a simulation of the real behaviour of the system.

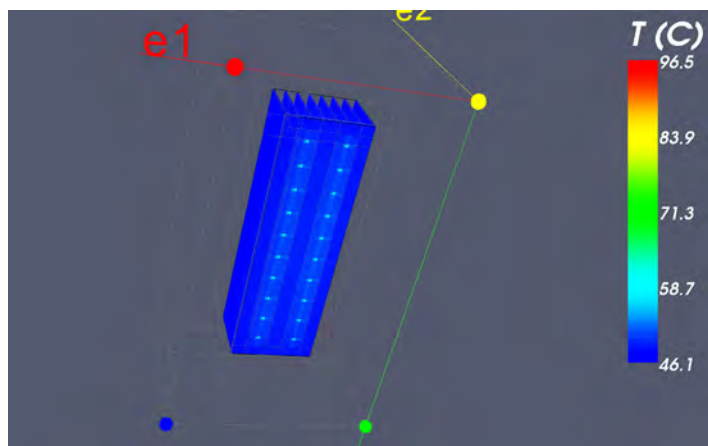




## Dissipator Design

If not dissipated properly, the heat produced during operation of the LED chip can lead to an alteration of the quantitative and qualitative performance, including luminous efficiency, average lifespan, and the spectral emission.

Gewiss has decided to create a dissipator in aluminium that is sized in a way to guarantee correct operation of the diodes for different pilot currents. Careful preliminary studies, carried out using dedicated software and validated by sample testing, ensure optimal conditions of operation.



## PCB Design

The PCB is the key to device performance; proper functioning of the LEDs is significantly influenced by the proper design of the PCB and its quality.

Specifically, the ability for the individual LED to be correctly dissipated and the behaviour of the entire motor in the event of problems on one of the diodes depend on the characteristics of the circuit and correct assembly.

Gewiss has come up with a metal core (aluminium) support that, mounted by interlayering a heat conductive sheet on the dissipator, ensures the best conditions for eliminating the heat and the resulting maintenance in time of the optimal operating requirements.

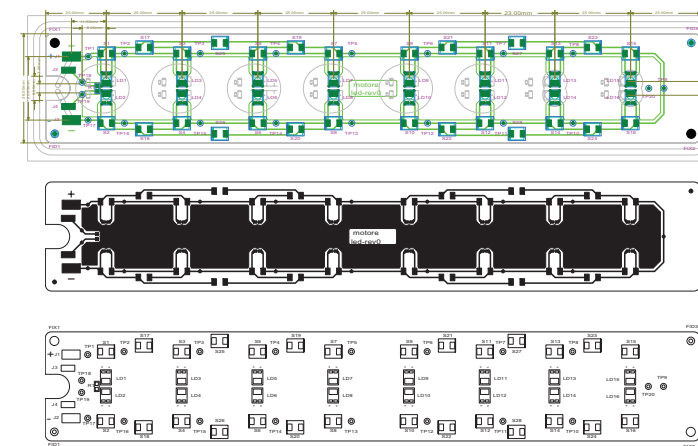
If unexpected external events should cause the LED to overheat, the temperature sensor located on the PCB activates, causing the ballast to dim the power supply current until the originally required operating conditions are restored.

Gewiss has selected LEDs that statistically fault in a short circuit in the unlikely event of a crash, thereby not compromising the power continuity of the other diodes connected in series.

In any event, to ensure a longer service life, Gewiss has

also mounted a counterdiode every 4 LEDs as a standard feature; this limits the possible loss of flow of the individual motor, in the event one of the diodes crashes, to a group of no more than 4 LEDs.

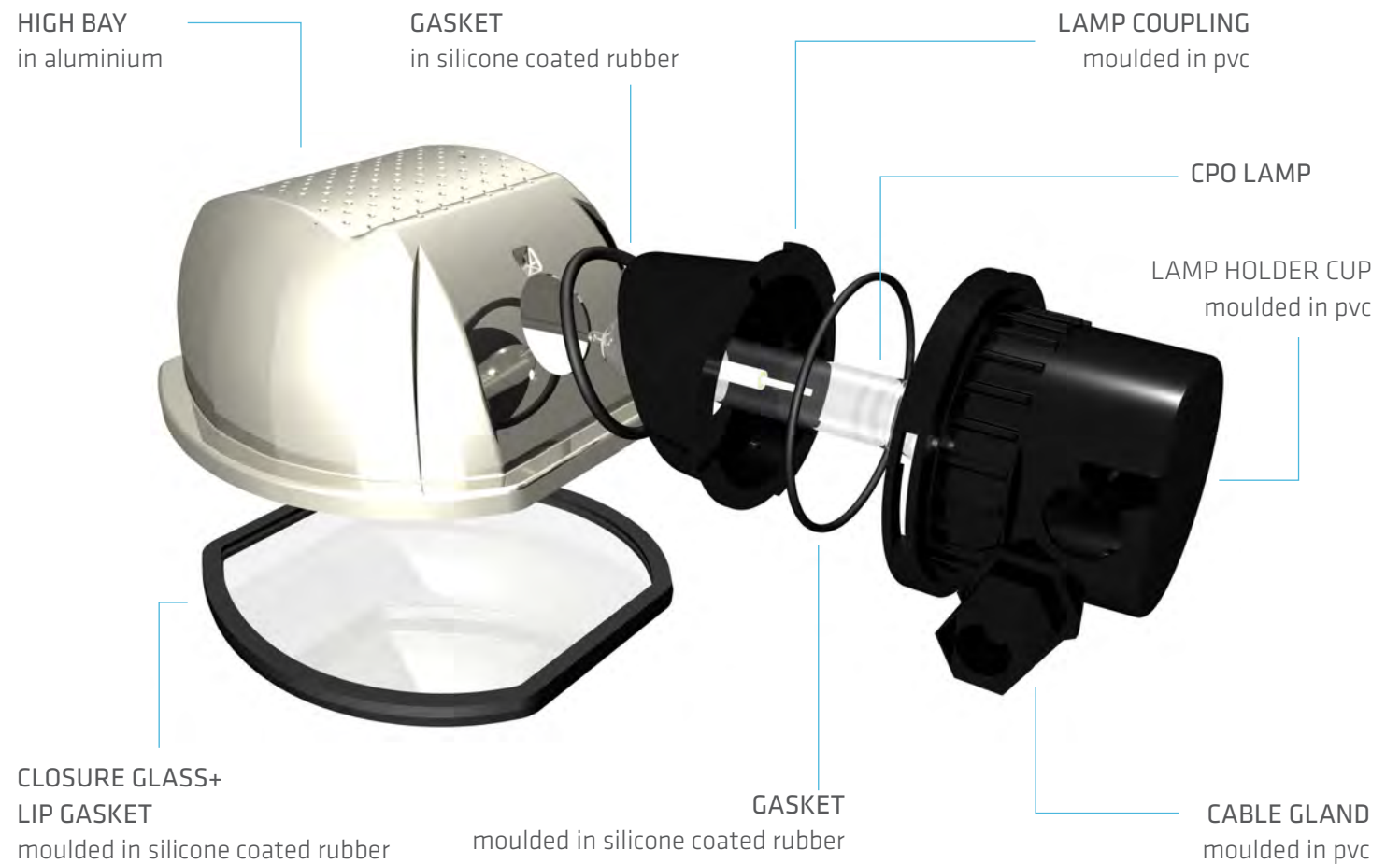
For more restrictive applications, Gewiss has already designed the PCB so that the counterdiode can be mounted on every two or on each individual LED, thereby reducing even more dramatically the effects of unexpected faults.

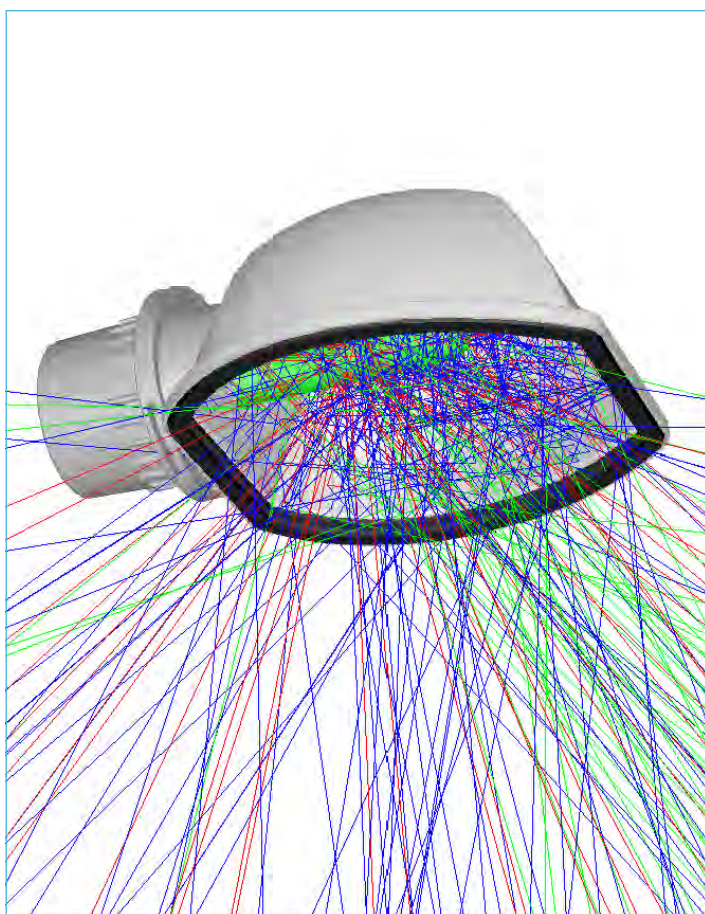


# Cosmopolis motor

## Cosmopolis motor design

Cosmopolis lamps, along with LED sources, represent the state of the art and the future of lighting. Gewiss has developed an innovative system of extremely small and high performing products around these lights. The motor for the Cosmopolis lamp, designed by Gewiss, characterised by a high degree of protection (IP66), represents a truly sustainable solution. The use of white light, intelligent control of energy use along with valorisation of the lighting, represent concrete actions finalised at finding the most ideal solutions for specific applications.

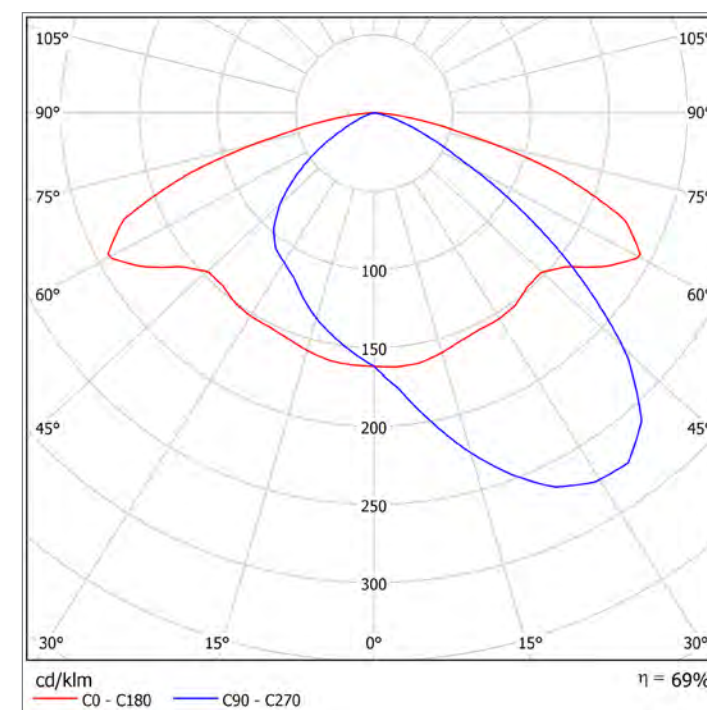




## High bay design

The first step is the design of the optic function; it is key to begin with the result to obtain in terms of footprint of the luminous flux distribution.

The objective of Gewiss is the reduce wasted light while guaranteeing the levels of light required by prevailing regulations: this translates into the design of an extremely precise optic that can limit dispersion of the light. Processing the data for the tracking of the profile of the high bay is followed by the construction phase, by 3D modelling, with the related verification of the correct distribution of the flux made originally by simulations via software and subsequently through laboratory tests on prototypes.



## Lumistep and DALI

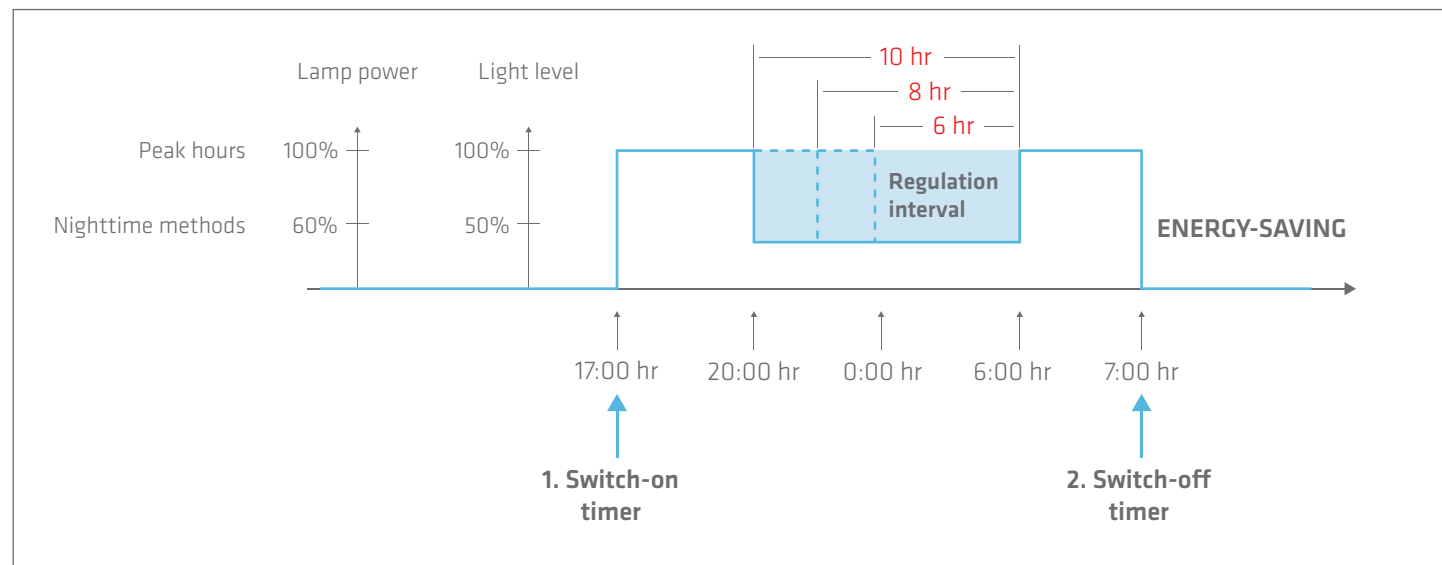
With a view to maximising energy savings, Gewiss has designed the products of the Street [03] and Urban [03] families to be supplied with systems to reduce the luminous flux (-40% of power at 50% of the flux), for the versions with Cosmopolis technologies as well as LEDs. Where the application requirements make it possible, this innovation

brings an additional reduction of consumption and a resulting decrease in operating costs.

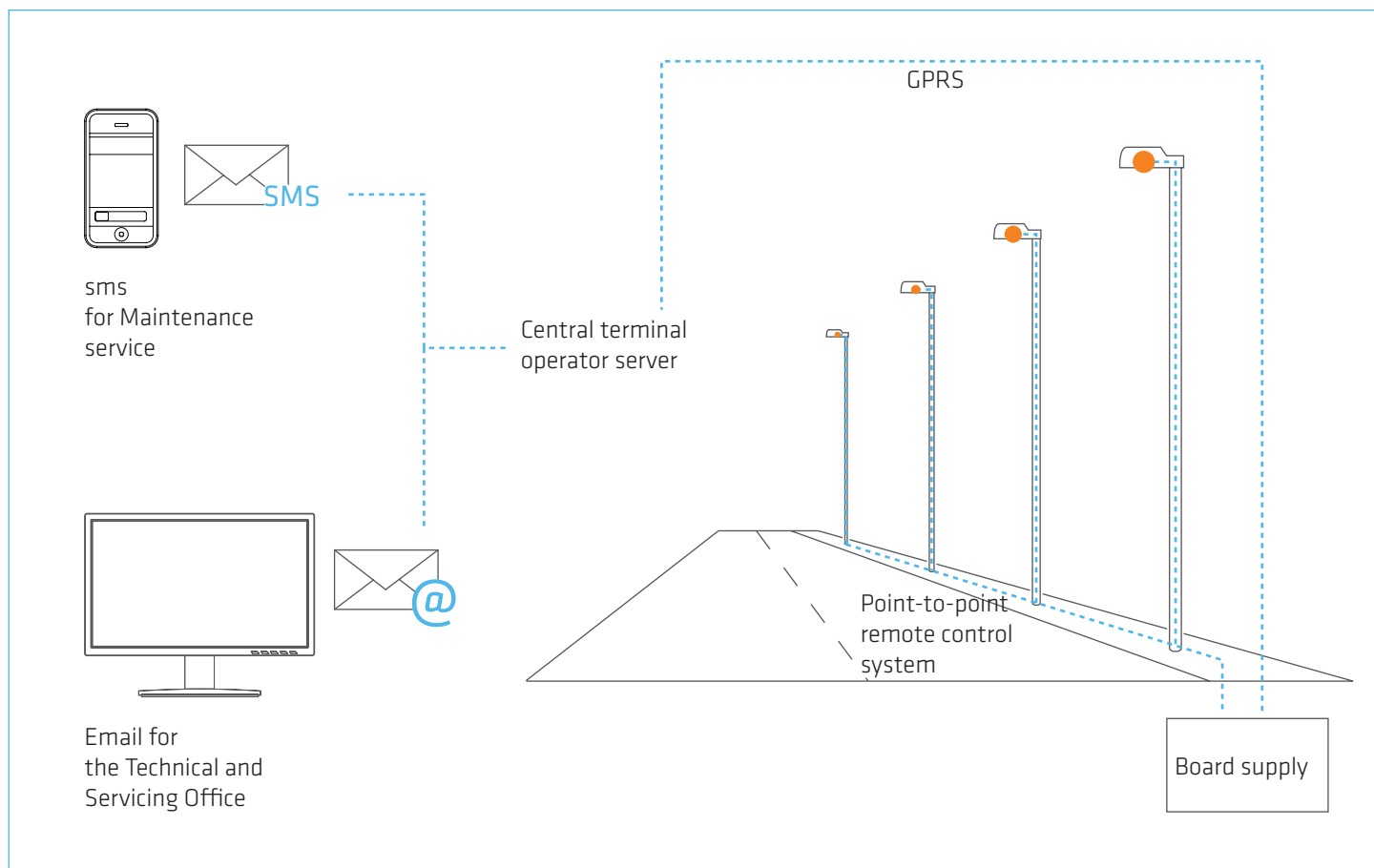
Reduced consumption takes place through the process "learning" as it operates according to when it is turned on and off in the past three days, determines the hypothetical virtual midnight versus which the decrease will be applied according to the profile for which the device was configured.

For the Cosmopolis products with the Lumistep protocol, Gewiss supplies a standard 8-hour version (non-modifiable), acting two hours before and six hours after the virtual midnight. LED Lumistep devices can also be configured through a set of resistances (included) to mount between the two signal cables, according to the following outline:

The DALI option, provided by Gewiss only on products with Cosmopolis technology, provides utmost flexibility of configuration, with up to 5 levels of dimming that can be set on the device and/or controlled by a communications protocol.



Resistence	Dim level	Control
CC o R <30k/Ohms	50%/6 ore	2+4
100-200 k/Ohms	66%/6 ore	0+6
Open circuit	50%/8 ore	2+6



## Remote control and management

### POWER LINE COMMUNICATION SYSTEM OF THE LIGHTING SYSTEMS

The application of power line communication eliminates the need for additional wiring and provides the flexibility to dynamically activate commands, in different areas and at different times (modifiable at any time as needed), for the partialisation of systems (selective shut-off of individual lighting devices) and/or luminous flux reduction.

### REMOTE DIAGNOSTICS AND REMOTE MANAGEMENT DOWN TO AN INDIVIDUAL LIGHTING DEVICE

The operating control of the individual lamp represents an innovative function, especially because a simple connection of the electronic device in a series to the power supply line makes it possible to control the lamp, while detecting the operating conditions.

The electronic device is compatible with any lamp (type, power, and brand) available on the market and can be installed in the access chamber, in the pole slot or in the luminaire shell.

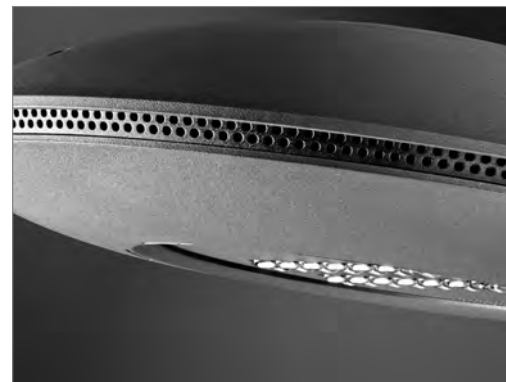


### 3. Street [O3] and Urban [O3]

The new public lighting systems by GEWISS combine technology with the originality of Italian design to come up with a solution to new needs for urban and street applications.

GEWISS has conceived the **Street [O3]** lighting to house, in a single body, the high performance LEDs or the innovative Cosmopolis discharge lamps. In this way, it is possible to obtain improved design qualities of the night-time urban landscape, greater safety in night-time living of the cities, more energy efficiency and an intelligent regulation of the luminous flux.

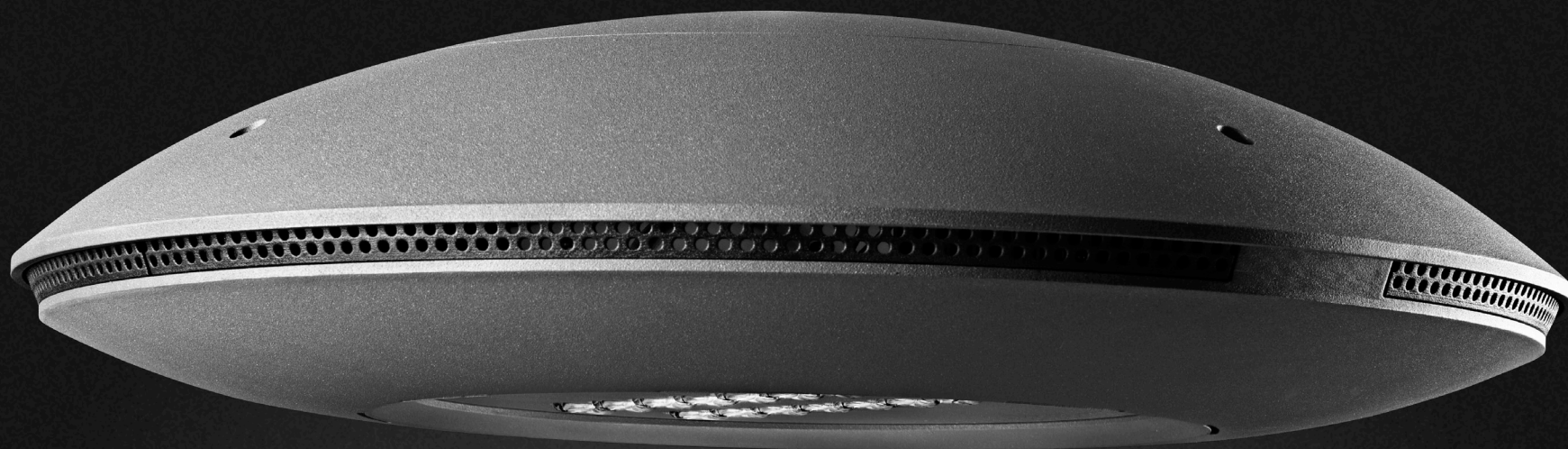
Contemporary urban lighting is characterised by a fragmentation of the lighting solutions: the proposals differ by type of light source, design of the luminaire shell and type of lighting. **Urban [O3]** is the GEWISS concept for urban lighting: a system which includes a vast range of fixing accessories and luminous sources which can respond to the multiple needs of lighting in public areas and ensure energy savings and respect for the environment. The new device is also available in the versions with new generation of CosmoPolis or LED lamps, in the stand-alone configurations with two-speed device and self-learning and remote management.





**Street [0<sub>3</sub>]**  
STREET LIGHTING





**Urban [0]**<sub>3</sub>  
URBAN LIGHTING

## Street [O3]

The innovative street lighting designed to house, in a single body, both the high performance LEDs or the innovative CosmoPolis discharge lamps.

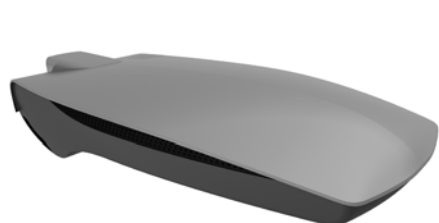
- Protection degree IP 66
- Insulation class II
- LED versions in component modules with from 2 (32 LED) to 5 (80 LED) or, alternatively, versions with innovative CosmoPolis discharge lamps
- Opening with a tripping handle
- Auto-learning bi-power versions or DALI versions



*Street [O3] LED*



*Street [O3] COSMO*



## Interchangeability

The applied experience teaches that there is no one single ideal configuration for all applications and the needs can be very different, from a technical or economic perspective. At the same time, the evolution of lighting products from electromechanical to electronic technologies can make the rigidity of the decisions made today potentially costly for tomorrow.

In this perspective, Gewiss has developed a series of products that start with the best technologies today and follow their evolution, while maintaining the ability to move on to the one that appears to be the best over time. This freedom of choice keeps the design of the product unchanged and does not dramatically affect replacement operations.



## Ventilation

Heat dispersion in the lighting device is guaranteed by the correct design of the heat dissipator located directly in contact with the printed circuit board and by inserting lateral nets that allow an optimal exchange of heat between the device and the environment.

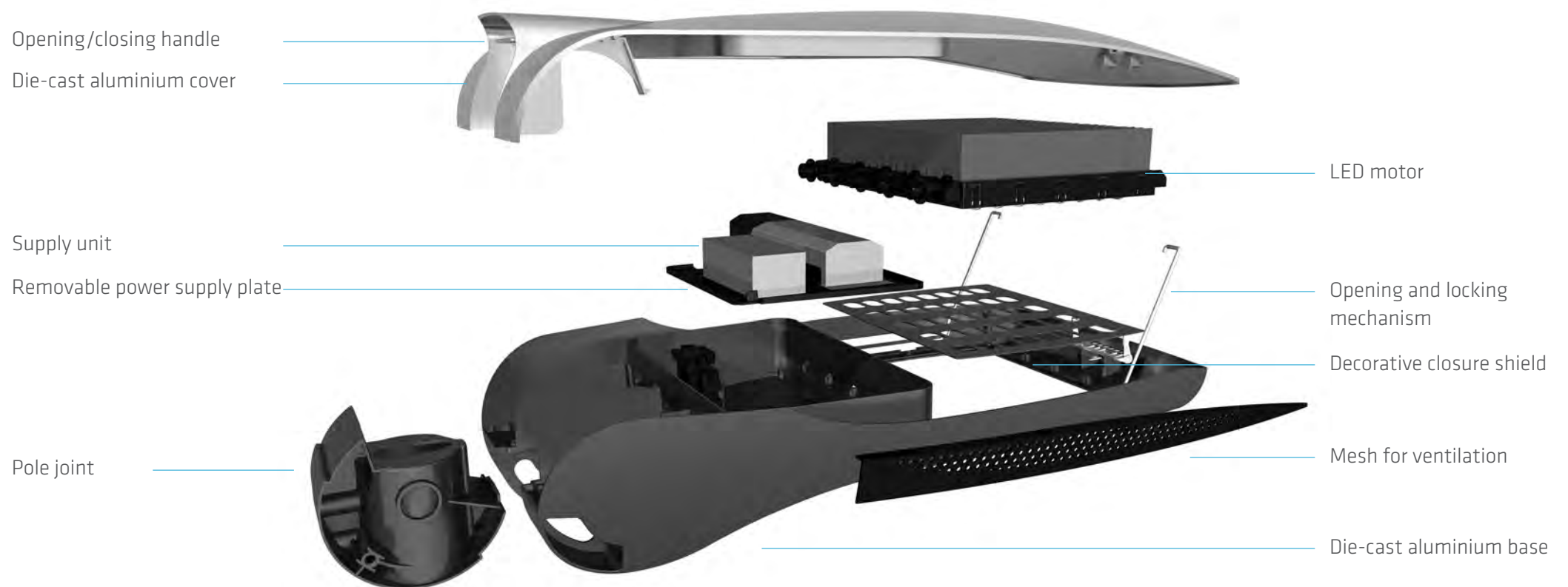
[O3] Street, designed according to integrated heat criteria, uses even the smallest change in the air speed to increase convection exchange.

## Electrical insulation

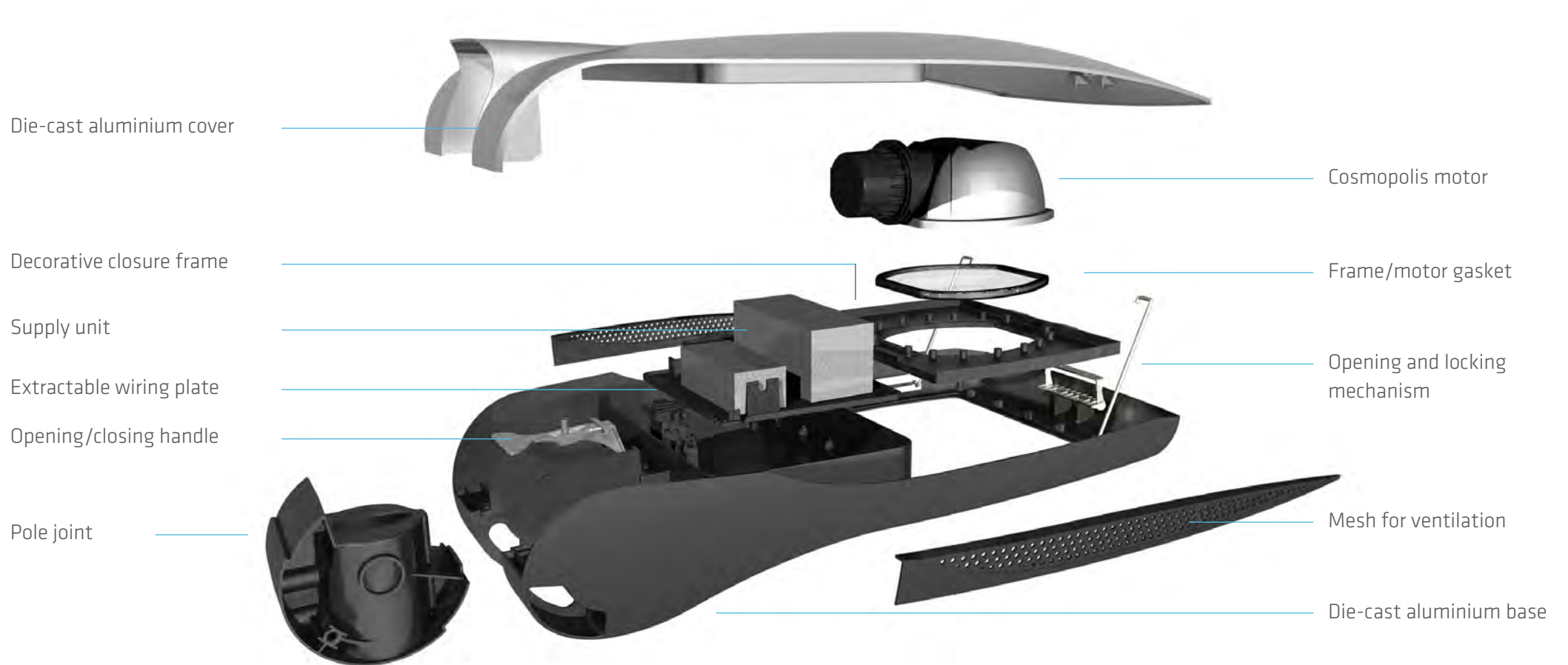
The LED module is electrically insulated from the body through the use of a plate on the module, made in polymer material.

The electrical cables pass between the optic modules with cable glands, which are also in plastic material.

## LED version



## CosmoPolis version



### Poles

The Street [O<sub>3</sub>] range products can be installed on all pole systems, with or without a side bracket, with a diameter from 42 to 76 mm.

At the same time, GEWISS can supply its own range of poles and side brackets that blend with the design of the Street [O<sub>3</sub>] to enhance its design and to characterise the final result of the installation.



*Pole with one side bracket*



*Pole for mixed applications*



*Pole with two side brackets*



An analysis of the contexts of application and the desire to create elegant settings has led GEWISS to conceive a series of street lighting products and the relevant brackets, connoted by a high design content.

## Urban [03]

The new system of street lighting which includes a vast range of fixing accessories and light sources which can respond to the multiple needs of lighting in public areas.

The solution is designed to guarantee significant energy savings and utmost respect for the environment.

- Protection degree IP66
- Insulation class II
- Moveable ball joint for fixing to the pole
- LED versions in component modules (2-4) or, alternatively, versions with innovative CosmoPolis discharge lamps
- Auto-learning bi-power versions or DALI versions







*Urban [O<sub>3</sub>] LED side coupling*



*Urban [O<sub>3</sub>] LED top coupling*



*Urban [O<sub>3</sub>] LED suspension*



*Urban [O<sub>3</sub>] Cosmo side coupling*



*Urban [O<sub>3</sub>] Cosmo top coupling*



*Urban [O<sub>3</sub>] Cosmo suspension*

### Interchangeability of motors

Applied experience teaches that there is no one single ideal configuration for all applications and needs can be very different, from both a technical and economic perspective. At the same time, the evolution of lighting products from electromechanical to electronic technologies can make the rigidity of the decisions made today potentially costly for tomorrow.



In this perspective, Gewiss has developed a series of products that start with the current best technologies and follow their evolution, while maintaining the ability to move on to the one that appears to be the best over time. This freedom of choice keeps the design of the product unchanged and does not dramatically affect replacement operations.



### Ventilation

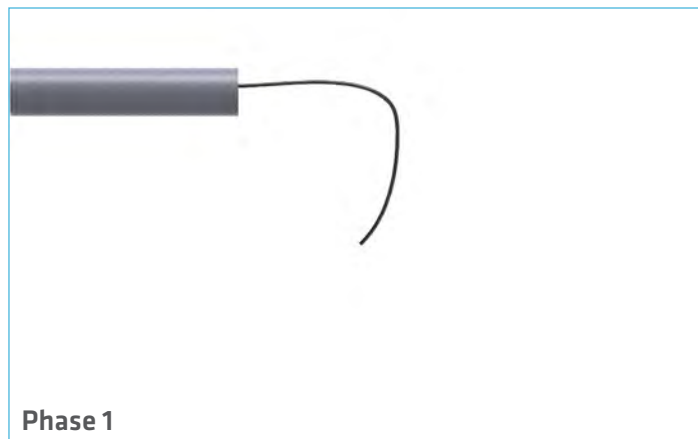
Heat dispersion in the lighting device is achieved by the correct design of the heat dissipator located directly in contact with the printed circuit board and by inserting a side mesh that allows an optimal exchange of heat between the inside of the device and the outside environment.

[O<sub>3</sub>] Urban, designed according to integrated thermal criteria, uses even the smallest movement of the air to dissipate the heat.

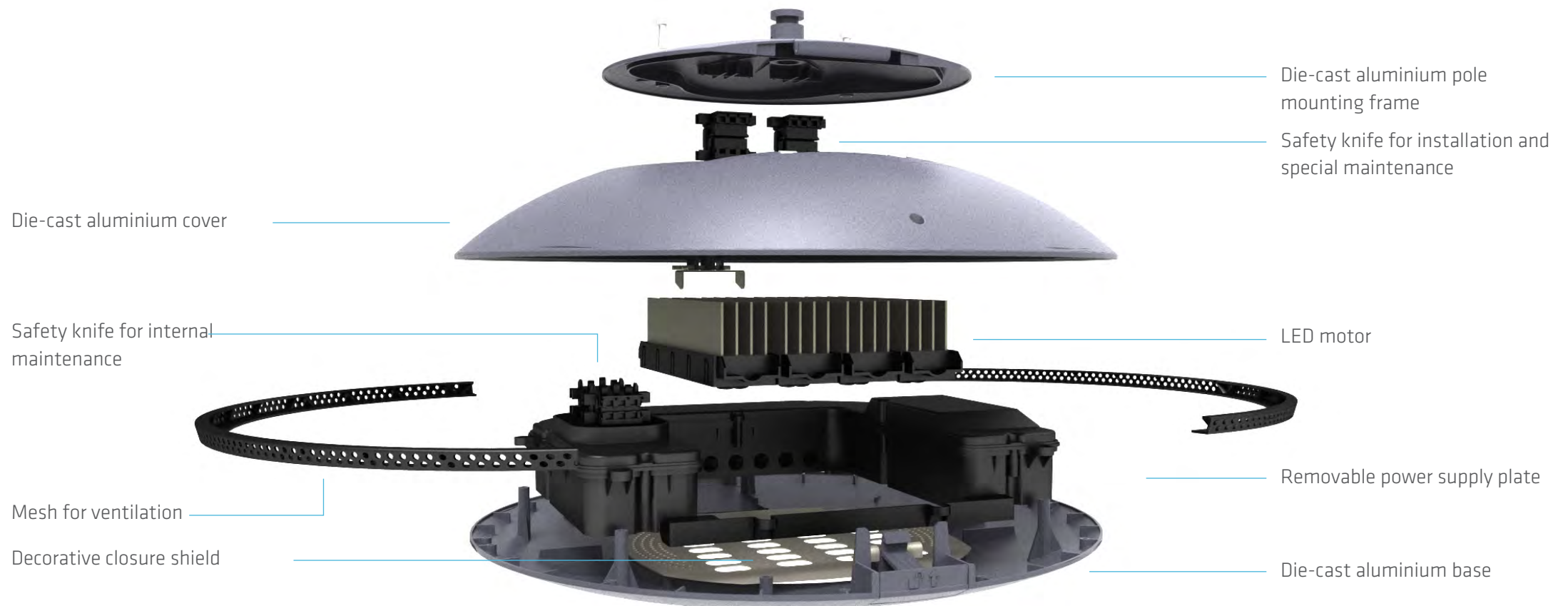


**Ease of installation**

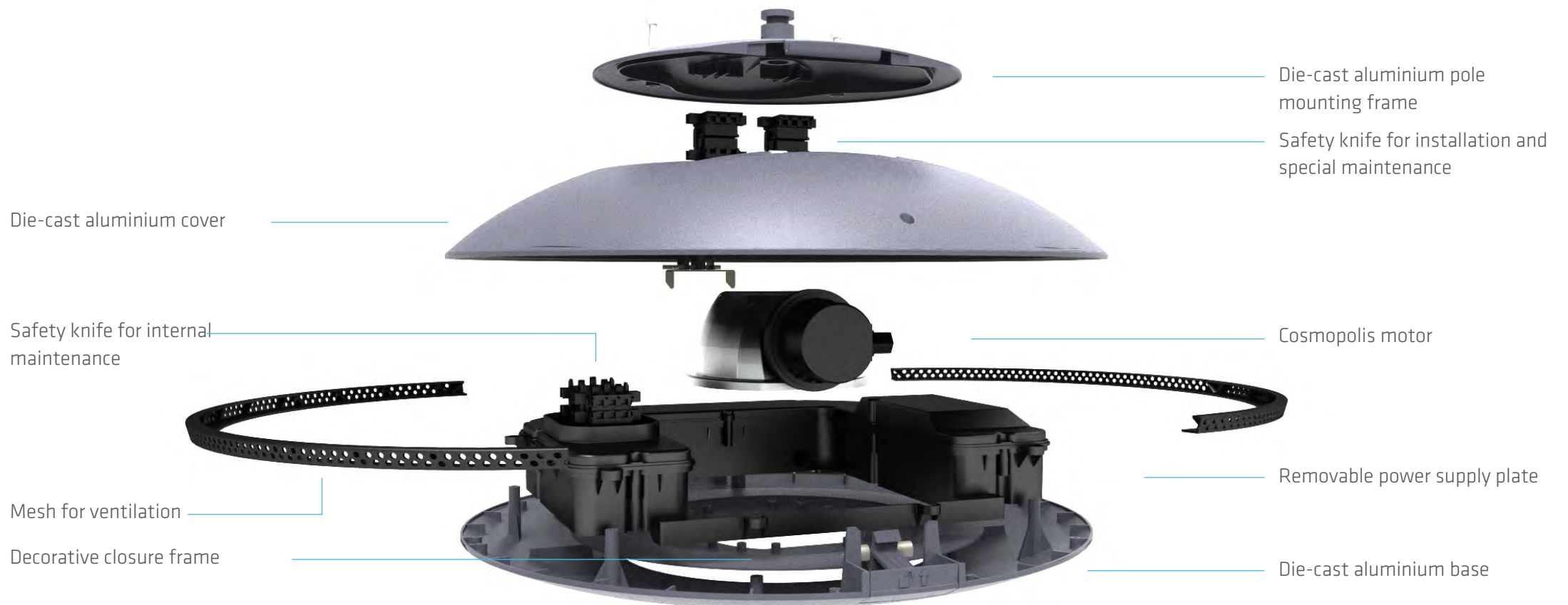
One of the key features of [O<sub>3</sub>] Urban is its easy installation. In the design stages, Gewiss has taken account of the difficulties that installers typically encounter when installing or maintaining at height.



## LED version



## CosmoPolis version



## Urban [O<sub>3</sub>] - GEWISS side bracket systems

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*Urban [O<sub>3</sub>] pole-head*



*Urban [O<sub>3</sub>] Modern*



*Urban [O<sub>3</sub>] Pastoral*



*Urban [O<sub>3</sub>] pole-head*



*Urban [O<sub>3</sub>] Modern*



*Urban [O<sub>3</sub>] Pastoral*

## Street [O<sub>3</sub>] - product codes



### O<sub>3</sub> STREET LED - STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66 - 525mA POWER SUPPLY

Voltage: 220/240V - 50/60Hz - stand alone and/or dimmerable 0-10V

Product code	Modules	N LED	T colour	Power	Colour
GW 87501	2	32	3500K	48W	G/A
GW 87502	3	48	3500K	72W	G/A
GW 87503	4	64	3500K	96W	G/A
GW 87504	5	80	3500K	120W	G/A
GW 87511	2	32	4000K	48W	G/A
GW 87512	3	48	4000K	72W	G/A
GW 87513	4	64	4000K	96W	G/A
GW 87514	5	80	4000K	120W	G/A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions

Product code	Modules	N LED	T colour	Power	Colour
GW 87521	2	32	3500K	48W	G/A
GW 87522	3	48	3500K	72W	G/A
GW 87523	4	64	3500K	96W	G/A
GW 87524	5	80	3500K	120W	G/A
GW 87531	2	32	4000K	48W	G/A
GW 87532	3	48	4000K	72W	G/A
GW 87533	4	64	4000K	96W	G/A
GW 87534	5	80	4000K	120W	G/A



### O<sub>3</sub> STREET COSMOPOLIS - STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66

Voltage: 220/240V - 50/60Hz

Product code	Lamp	Coupling	Power	Current	Colour
GW 87541	CPO	PGZ-12	45W	0,5A	G/A
GW 87542	CPO	PGZ-12	60W	0,65A	G/A
GW 87543	CPO	PGZ-12	90W	0,97A	G/A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions (8h)

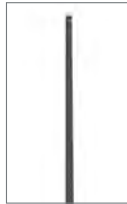
Product code	Lamp	Coupling	Power	Current	Colour
GW 87552	CPO	PGZ-12	60W	0,65A	G/A
GW 87553	CPO	PGZ-12	90W	0,97A	G/A

Voltage: 220/240V - 50/60Hz - DALI

Product code	Lamp	Coupling	Power	Current	Colour
GW 87561	CPO	PGZ-12	45W	0,5A	G/A
GW 87562	CPO	PGZ-12	60W	0,65A	G/A
GW 87563	CPO	PGZ-12	90W	0,97A	G/A

Note: the power indicated refers to the single lighting source.





Painted conical poles

Product code	Length	Colour
GW 87591	6m	graphite grey
GW 87592	8m	graphite grey
GW 87593	9m	graphite grey



Pole-head brackets - Ø 60mm

Product code	Description	Colour
GW 87581	Single bracket	graphite grey
GW 87582	Double bracket	graphite grey



Brackets for fixing at variable heights

Product code	Description	Colour
GW 87586	Bracket with extension	graphite grey
GW 87587	Bracket without extension	graphite grey



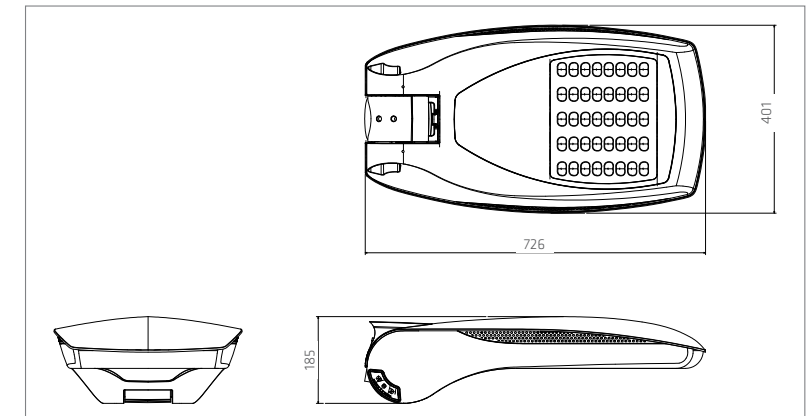
Bracket for surface-mounting

Product code	Description	Colour
GW 86167	150x160x290mm	graphite grey

Colours



Dimensions

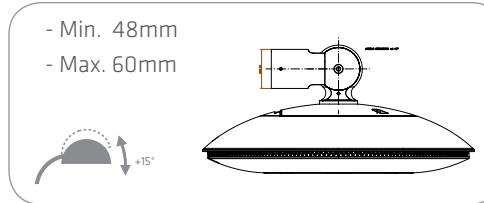


# Urban [O<sub>3</sub>] - Possible compositions for commercial side brackets

Side coupling



+ commercial side brackets

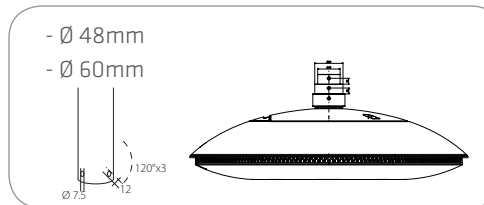


Notes:  
Complete system for coupling on commercial poles

High coupling



+ commercial side brackets

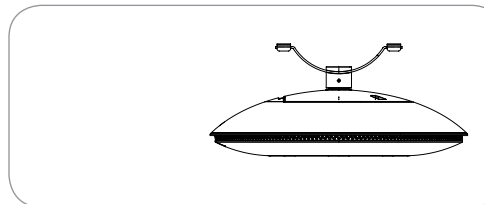


Notes:  
- Complete system for coupling on poles with Ø 48mm or Ø 60mm.  
Fixing of poles to the bush in three holes Ø 7.5mm at 120°

Suspension



+ metal ropes



Notes:  
Complete system for installation on metal ropes

# Urban [O<sub>3</sub>] - Systems for commercial side brackets - product codes



## Urban [O<sub>3</sub>] LED - STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66 - 525mA POWER SUPPLY

Voltage: 220/240V - 50/60Hz - stand alone and/or dimmerable 0-10V

Product code	Modules	N LED	T colour	Power	Colour
GW 87601	2	32	3500K	48W	G
GW 87602	3	48	3500K	72W	G
GW 87603	4	64	3500K	96W	G
GW 87606	2	32	4000K	48W	G
GW 87607	3	48	4000K	72W	G
GW 87608	4	64	4000K	96W	G
GW 87611	2	32	3500K	48W	A
GW 87612	3	48	3500K	72W	A
GW 87613	4	64	3500K	96W	A
GW 87616	2	32	4000K	48W	A
GW 87617	3	48	4000K	72W	A
GW 87618	4	64	4000K	96W	A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions

Product code	Modules	N LED	T colour	Power	Colour
GW 87621	2	32	3500K	48W	G
GW 87622	3	48	3500K	72W	G
GW 87623	4	64	3500K	96W	G
GW 87626	2	32	4000K	48W	G
GW 87627	3	48	4000K	72W	G
GW 87628	4	64	4000K	96W	G
GW 87631	2	32	3500K	48W	A
GW 87632	3	48	3500K	72W	A
GW 87633	4	64	3500K	96W	A
GW 87636	2	32	4000K	48W	A
GW 87637	3	48	4000K	72W	A
GW 87638	4	64	4000K	96W	A



## Urban [O<sub>3</sub>] Cosmopolis- STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66

Voltage: 220/240V - 50/60Hz

Product code	Lamp	Coupling	Power	Current	Colour
GW 87641	CPO	PGZ-12	45W	0,5A	G
GW 87642	CPO	PGZ-12	60W	0,65A	G
GW 87643	CPO	PGZ-12	90W	0,97A	G
GW 87646	CPO	PGZ-12	45W	0,5A	A
GW 87647	CPO	PGZ-12	60W	0,65A	A
GW 87648	CPO	PGZ-12	90W	0,97A	A

Voltage: 220/240V - 50/60Hz - DALI

Product code	Lamp	Coupling	Power	Current	Colour
GW 87661	CPO	PGZ-12	45W	0,5A	G
GW 87662	CPO	PGZ-12	60W	0,65A	G
GW 87663	CPO	PGZ-12	90W	0,97A	G
GW 87666	CPO	PGZ-12	45W	0,5A	A
GW 87667	CPO	PGZ-12	60W	0,65A	A
GW 87668	CPO	PGZ-12	90W	0,97A	A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions (8h)

Product code	Lamp	Coupling	Power	Current	Colour
GW 87652	CPO	PGZ-12	60W	0.695A	G
GW 87653	CPO	PGZ-12	90W	0.97A	G
GW 87657	CPO	PGZ-12	60W	0.695A	A
GW 87658	CPO	PGZ-12	90W	0.97A	A

Note: the power indicated refers to the single lighting source.

## Systems for commercial side brackets with top coupling - product codes - Urban [O<sub>3</sub>]



### Urban [O<sub>3</sub>] LED - STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66 - 525mA POWER SUPPLY

Voltage: 220/240V - 50/60Hz - stand alone and/or dimmerable 0-10V

Product code	Modules	N LED	T colour	Power	Colour
GW 87701	2	32	3500K	48W	G
GW 87702	3	48	3500K	72W	G
GW 87703	4	64	3500K	96W	G
GW 87706	2	32	4000K	48W	G
GW 87707	3	48	4000K	72W	G
GW 87708	4	64	4000K	96W	G
GW 87711	2	32	3500K	48W	A
GW 87712	3	48	3500K	72W	A
GW 87713	4	64	3500K	96W	A
GW 87716	2	32	4000K	48W	A
GW 87717	3	48	4000K	72W	A
GW 87718	4	64	4000K	96W	A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions

Product code	Modules	N LED	T colour	Power	Colour
GW 87721	2	32	3500K	48W	G
GW 87722	3	48	3500K	72W	G
GW 87723	4	64	3500K	96W	G
GW 87726	2	32	4000K	48W	G
GW 87727	3	48	4000K	72W	G
GW 87728	4	64	4000K	96W	G
GW 87731	2	32	3500K	48W	A
GW 87732	3	48	3500K	72W	A
GW 87733	4	64	3500K	96W	A
GW 87736	2	32	4000K	48W	A
GW 87737	3	48	4000K	72W	A
GW 87738	4	64	4000K	96W	A



### Urban [O<sub>3</sub>] Cosmopolis - STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66

Voltage: 220/240V - 50/60Hz

Product code	Lamp	Coupling	Power	Current	Colour
GW 87741	CPO	PGZ-12	45W	0.5A	G
GW 87742	CPO	PGZ-12	60W	0.65A	G
GW 87743	CPO	PGZ-12	90W	0.97A	G
GW 87746	CPO	PGZ-12	45W	0.5A	A
GW 87747	CPO	PGZ-12	60W	0.65A	A
GW 87748	CPO	PGZ-12	90W	0.97A	A

Voltage: 220/240V - 50/60Hz - DALI

Product code	Lamp	Coupling	Power	Current	Colour
GW 87761	CPO	PGZ-12	45W	0.5A	G
GW 87762	CPO	PGZ-12	60W	0.65A	G
GW 87763	CPO	PGZ-12	90W	0.97A	G
GW 87766	CPO	PGZ-12	45W	0.5A	A
GW 87767	CPO	PGZ-12	60W	0.65A	A
GW 87768	CPO	PGZ-12	90W	0.97A	A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions (8h)

Product code	Lamp	Coupling	Power	Current	Colour
GW 87752	CPO	PGZ-12	60W	0.695A	G
GW 87753	CPO	PGZ-12	90W	0.97A	G
GW 87757	CPO	PGZ-12	60W	0.695A	A
GW 87758	CPO	PGZ-12	90W	0.97A	A

Note: the power indicated refers to the single lighting source.

## Urban [O<sub>3</sub>] - Systems for commercial side brackets - product codes



### Urban [O<sub>3</sub>] LED - STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66 - 525mA POWER SUPPLY

Voltage: 220/240V - 50/60Hz - stand alone and/or dimmerable 0-10V

Product code	Modules	N LED	T colour	Power	Colour
GW 87801	2	32	3500K	48W	G
GW 87802	3	48	3500K	72W	G
GW 87803	4	64	3500K	96W	G
GW 87806	2	32	4000K	48W	G
GW 87807	3	48	4000K	72W	G
GW 87808	4	64	4000K	96W	G
GW 87811	2	32	3500K	48W	A
GW 87812	3	48	3500K	72W	A
GW 87813	4	64	3500K	96W	A
GW 87816	2	32	4000K	48W	A
GW 87817	3	48	4000K	72W	A
GW 87818	4	64	4000K	96W	A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions

Product code	Modules	N LED	T colour	Power	Colour
GW 87821	2	32	3500K	48W	G
GW 87822	3	48	3500K	72W	G
GW 87823	4	64	3500K	96W	G
GW 87826	2	32	4000K	48W	G
GW 87827	3	48	4000K	72W	G
GW 87828	4	64	4000K	96W	G
GW 87831	2	32	3500K	48W	A
GW 87832	3	48	3500K	72W	A
GW 87833	4	64	3500K	96W	A
GW 87836	2	32	4000K	48W	A
GW 87837	3	48	4000K	72W	A
GW 87838	4	64	4000K	96W	A



### Urban [O<sub>3</sub>] Cosmopolis - STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66

Voltage: 220/240V - 50/60Hz

Product code	Lamp	Coupling	Power	Current	Colour
GW 87841	CPO	PGZ-12	45W	0.5A	G
GW 87842	CPO	PGZ-12	60W	0.65A	G
GW 87843	CPO	PGZ-12	90W	0.97A	G
GW 87846	CPO	PGZ-12	45W	0.5A	A
GW 87847	CPO	PGZ-12	60W	0.65A	A
GW 87848	CPO	PGZ-12	90W	0.97A	A

Voltage: 220/240V - 50/60Hz - DALI

Product code	Lamp	Coupling	Power	Current	Colour
GW 87861	CPO	PGZ-12	45W	0.5A	G
GW 87862	CPO	PGZ-12	60W	0.65A	G
GW 87863	CPO	PGZ-12	90W	0.97A	G
GW 87866	CPO	PGZ-12	45W	0.5A	A
GW 87867	CPO	PGZ-12	60W	0.65A	A
GW 87868	CPO	PGZ-12	90W	0.97A	A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions (8h)

Product code	Lamp	Coupling	Power	Current	Colour
GW 87852	CPO	PGZ-12	60W	0.695A	G
GW 87853	CPO	PGZ-12	90W	0.97A	G
GW 87857	CPO	PGZ-12	60W	0.695A	A
GW 87858	CPO	PGZ-12	90W	0.97A	A

Note: the power indicated refers to the single lighting source.

## Fixing accessories for systems for commercial side brackets - product codes Urban [O<sub>3</sub>]



### Kit for fixing round bracket pole-head

Product code	Description	Length	Colour
GW 87881	Single	400mm	G
GW 87882	Double	800mm	G
GW 87883	Single intermediate	400mm	G
GW 87884	PLACE pole single intermediate	400mm	G
GW 87891	Single	400mm	A
GW 87892	Double	800mm	A
GW 87893	Single intermediate	400mm	A
GW 87894	PLACE pole single intermediate	400mm	A



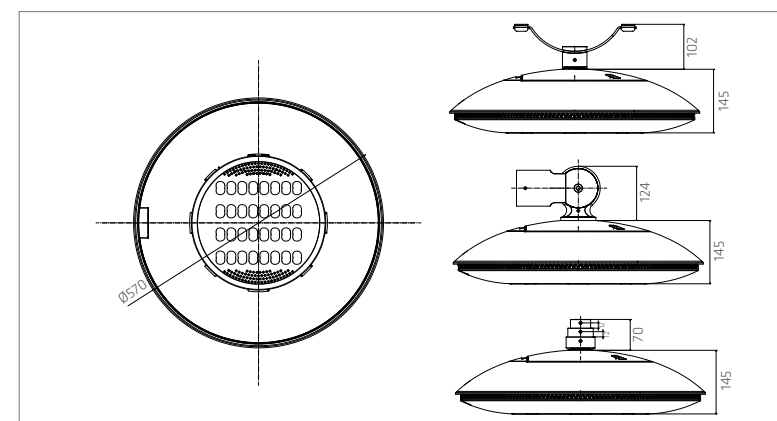
### Kit for surface-mounting

Product code	Description	Length	Colour
GW 87885	Wall-fixing bracket	450mm	G
GW 87895	Wall-fixing bracket	850mm	A

### Colours



### Dimensions



# Possible configurations for systems for Gewiss side brackets



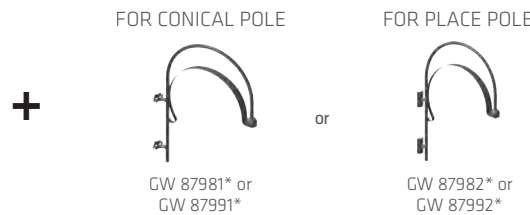
GW 87901/GW 87968



Notes:  
Possibility of completing the system with Gewiss pole Ø 60 mm



GW 87901/GW 87968



Notes:  
Possibility of assemble dual side bracket solutions. (GW code x 2)



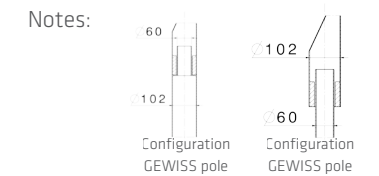
GW 87901/GW 87968



SUSPENDED POLE-HEAD



GW 87901/GW 87968



\* The installation kit includes the fixing component and the cover

## Urban [O<sub>3</sub>] - Systems for GEWISS side brackets - product codes



### Urban [O<sub>3</sub>] LED - STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66 - 525mA POWER SUPPLY

Voltage: 220/240V - 50/60Hz - stand alone and/or dimmerable 0-10V

Product code	Modules	N LED	T colour	Power	Colour
GW 87901	2	32	3500K	48W	G
GW 87902	3	48	3500K	72W	G
GW 87903	4	64	3500K	96W	G
GW 87906	2	32	4000K	48W	G
GW 87907	3	48	4000K	72W	G
GW 87908	4	64	4000K	96W	G
GW 87911	2	32	3500K	48W	A
GW 87912	3	48	3500K	72W	A
GW 87913	4	64	3500K	96W	A
GW 87916	2	32	4000K	48W	A
GW 87917	3	48	4000K	72W	A
GW 87918	4	64	4000K	96W	A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions

Product code	Modules	N LED	T colour	Power	Colour
GW 87921	2	32	3500K	48W	G
GW 87922	3	48	3500K	72W	G
GW 87923	4	64	3500K	96W	G
GW 87926	2	32	4000K	48W	G
GW 87927	3	48	4000K	72W	G
GW 87928	4	64	4000K	96W	G
GW 87931	2	32	3500K	48W	A
GW 87932	3	48	3500K	72W	A
GW 87933	4	64	3500K	96W	A
GW 87936	2	32	4000K	48W	A
GW 87937	3	48	4000K	72W	A
GW 87938	4	64	4000K	96W	A



### Urban [O<sub>3</sub>] Cosmopolis- STREET LIGHTING IN DIE-CAST ALUMINIUM - FLAT GLASS - IP66

Voltage: 220/240V - 50/60Hz

Product code	Lamp	Coupling	Power	Current	Colour
GW 87941	CPO	PGZ-12	45W	0.5A	G
GW 87942	CPO	PGZ-12	60W	0.65A	G
GW 87943	CPO	PGZ-12	90W	0.97A	G
GW 87946	CPO	PGZ-12	45W	0.5A	A
GW 87947	CPO	PGZ-12	60W	0.65A	A
GW 87948	CPO	PGZ-12	90W	0.97A	A

Voltage: 220/240V - 50/60Hz - DALI

Product code	Lamp	Coupling	Power	Current	Colour
GW 87961	CPO	PGZ-12	45W	0.5A	G
GW 87962	CPO	PGZ-12	60W	0.65A	G
GW 87963	CPO	PGZ-12	90W	0.97A	G
GW 87966	CPO	PGZ-12	45W	0.5A	A
GW 87967	CPO	PGZ-12	60W	0.65A	A
GW 87968	CPO	PGZ-12	90W	0.97A	A

Voltage: 220/240V - 50/60Hz - Auto-learning bi-power versions (8h)

Product code	Lamp	Coupling	Power	Current	Colour
GW 87952	CPO	PGZ-12	60W	0.695A	G
GW 87953	CPO	PGZ-12	90W	0.97A	G
GW 87957	CPO	PGZ-12	60W	0.695A	A
GW 87958	CPO	PGZ-12	90W	0.97A	A

Note: the power indicated refers to the single lighting source.



## Fixing accessories for systems for GEWISS side brackets - product codes - Urban [O<sub>3</sub>]

### FIXING ACCESSORIES FOR SYSTEMS FOR GEWISS SIDE BRACKETS



Kit for fixing flat bracket pole-head

Product code	Description	Length	Colour
GW 87984	Single	1000mm	G
GW 87985	Double	2000mm	G
GW 87986	Single intermediate	1000mm	G
GW 87994	Single	1000mm	A
GW 87995	Double	2000mm	A
GW 87996	Single intermediate	1000mm	A



Kit for pastoral pole

Product code	Description	Colour
GW 87981	Conical pole fixing	G
GW 87982	PLACE pole fixing	G
GW 87991	Conical pole fixing	A
GW 87992	PLACE pole fixing	A



Kit for fixing suspended pole-head

Product code	Description	Colour
GW 87987	Single	G
GW 87997	Single	A



Kit for surface-mounting pastoral pole

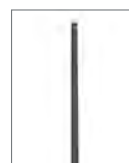
Product code	Description	Colour
GW 87983	Surface-mounting fixing	G
GW 87993	Surface-mounting fixing	A

### POLES



Painted cylindrical poles

Product code	Length above ground (mm)	Ø	Length underground	Colour
GW 87691	3500mm	60mm	500mm	G
GW 87692	4000mm	60mm	500mm	G
GW 87696	3500mm	60mm	500mm	A
GW 87697	4000mm	60mm	500mm	A



Painted conical poles

Product code	Length above ground (mm)	Ø	Length underground	Colour
GW 87591	6000mm	60mm	800mm	G
GW 87592	8000mm	60mm	800mm	G
GW 87593	9000mm	60mm	800mm	G
GW 87596	6000mm	60mm	800mm	A
GW 87597	8000mm	60mm	800mm	A
GW 87598	9000mm	60mm	800mm	A

# Gewiss public lighting products

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## Floodlights



*Mercurio*



*Horus*



*Urano*



*Titano*



*Colosseum*



*Stadium*

## Street lighting



*Avenue 1*



*Avenue 2*



*Avenue 3*



*Avenue 3 LED*



*Indy 1*



*Indy 2*

## Urban lighting



*Saturno System*



*Mercurio System*



*Place*



*Saturno Led*



*Dedalo Led*



*Dedalo Led RGB*

## Residential



*Bilight Led*



*Trilight Led*



*Extro*



*Luxor*



*Luxor Wall*



*Metrolight Led*





**GEWISS**

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