Street
Street MAXI
Urban

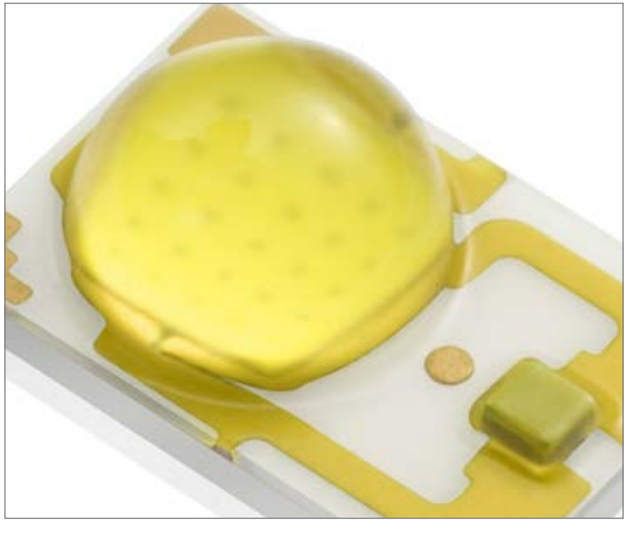
[03]

PUBLIC
LIGHTING
SYSTEMS

GEWISS

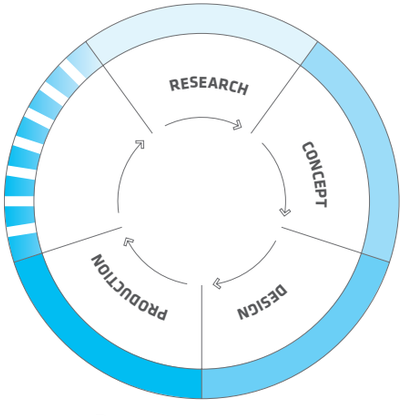
GEWISS was founded forty years ago and since its first day of operation, research into quality and development of exceptional solutions have been the values that have guided every action and every decision. Over the years, this philosophy and mission toward innovation have shaped a company model based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

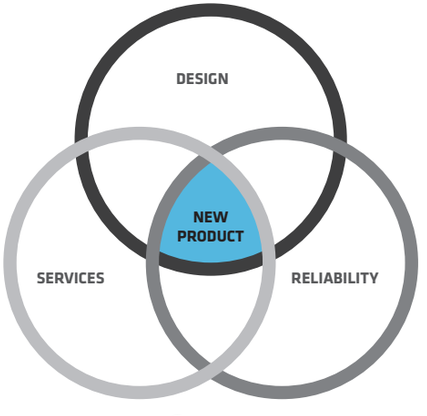


1. Concept and Design

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.



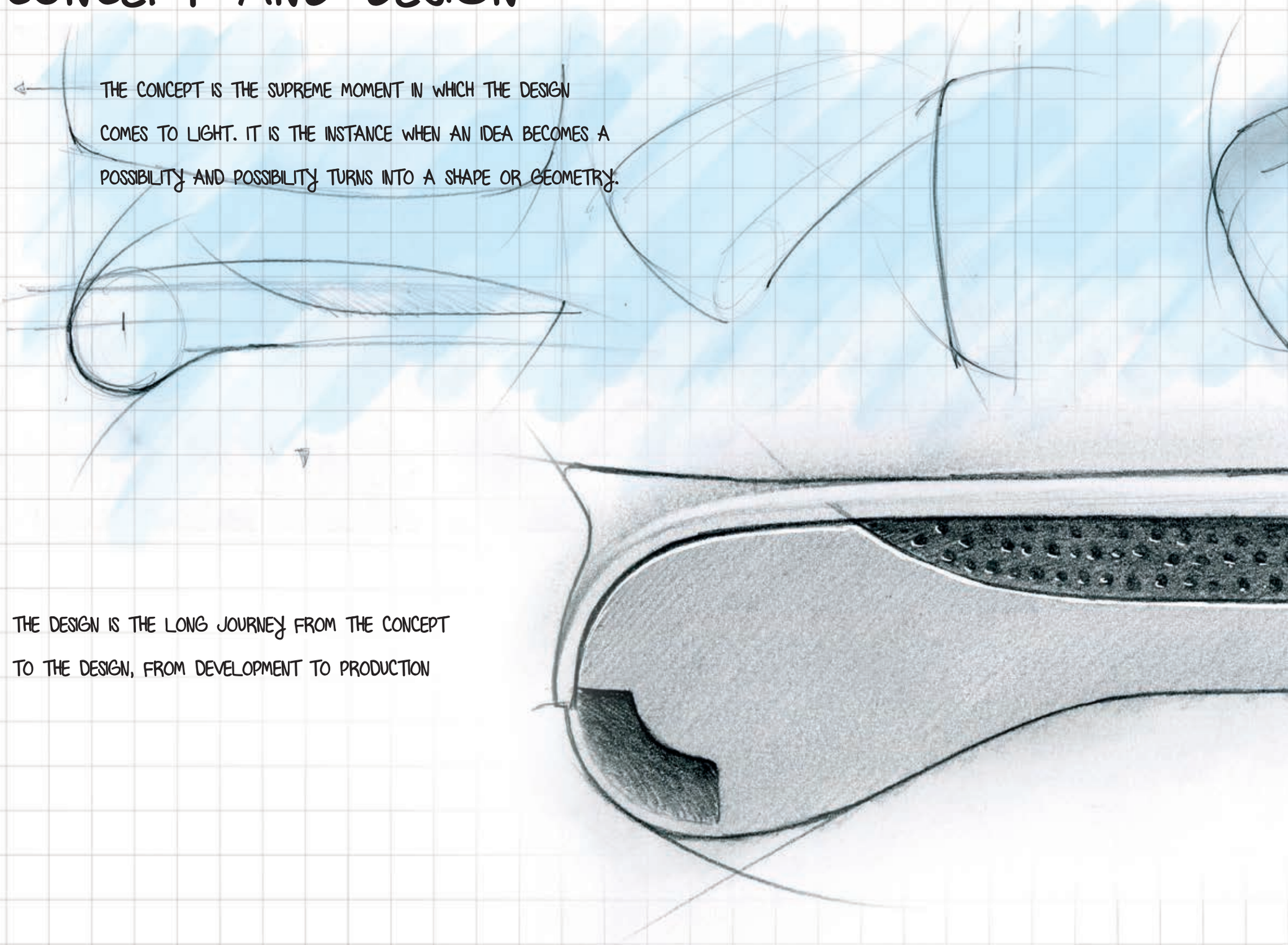
Design process



Concept

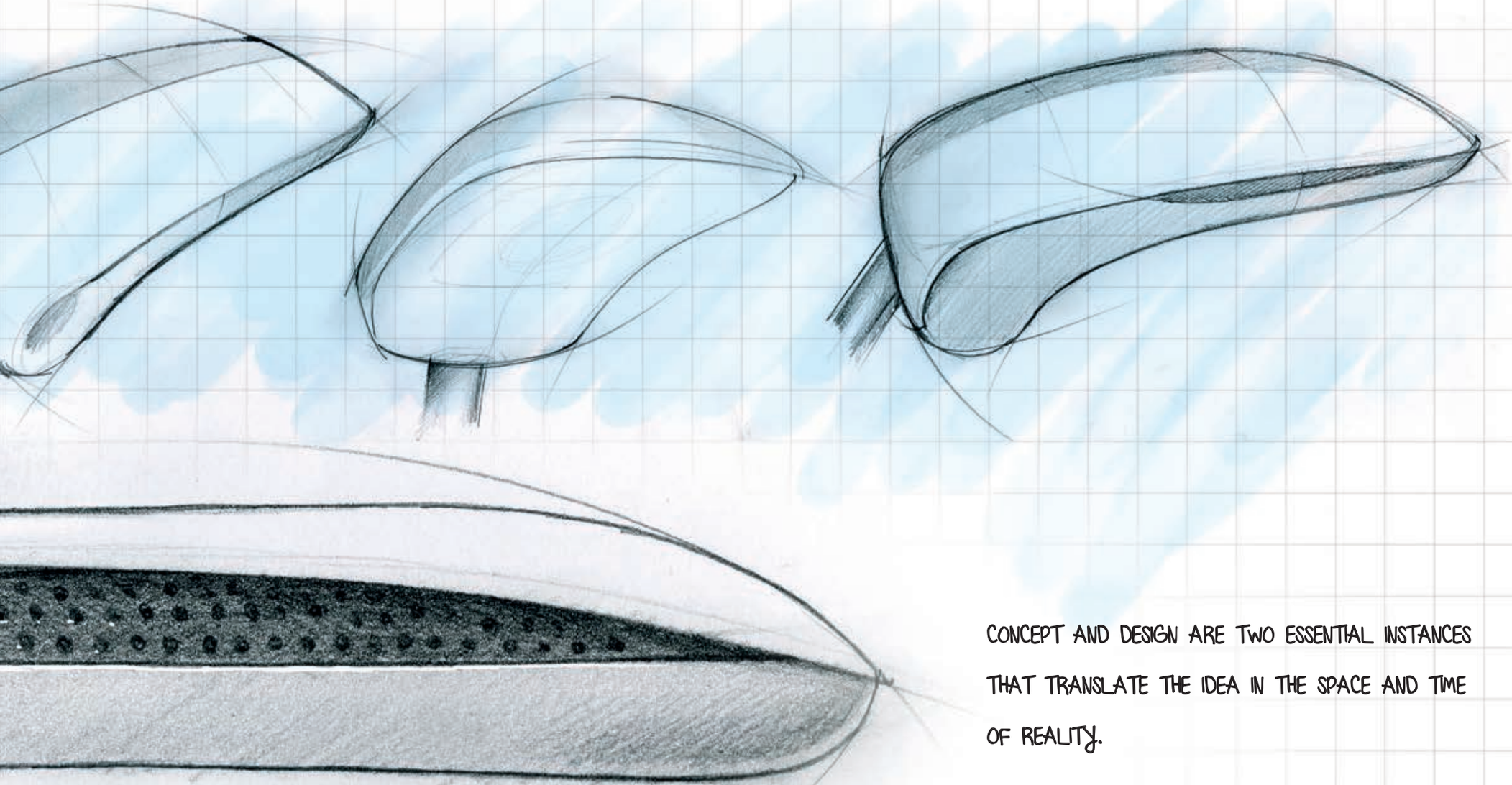
CONCEPT AND DESIGN

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.



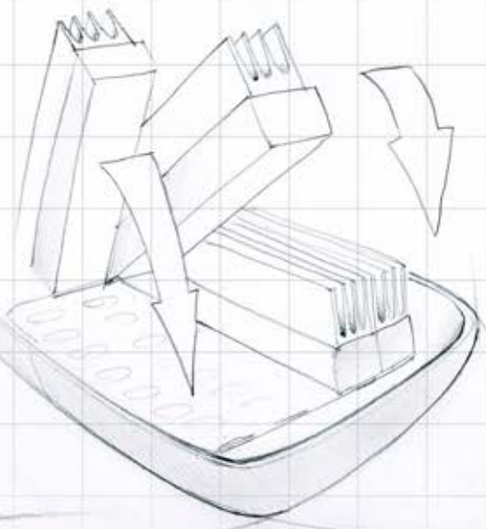
THE DESIGN IS THE LONG JOURNEY FROM THE CONCEPT TO THE DESIGN, FROM DEVELOPMENT TO PRODUCTION

STREET [03] RANGE



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

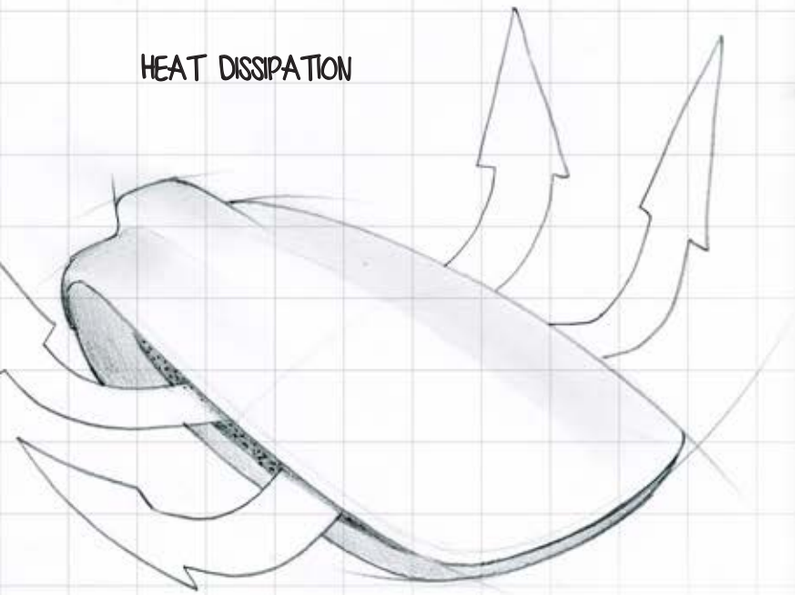
INTERCHANGEABILITY LED MOTOR/COSMOPOLIS



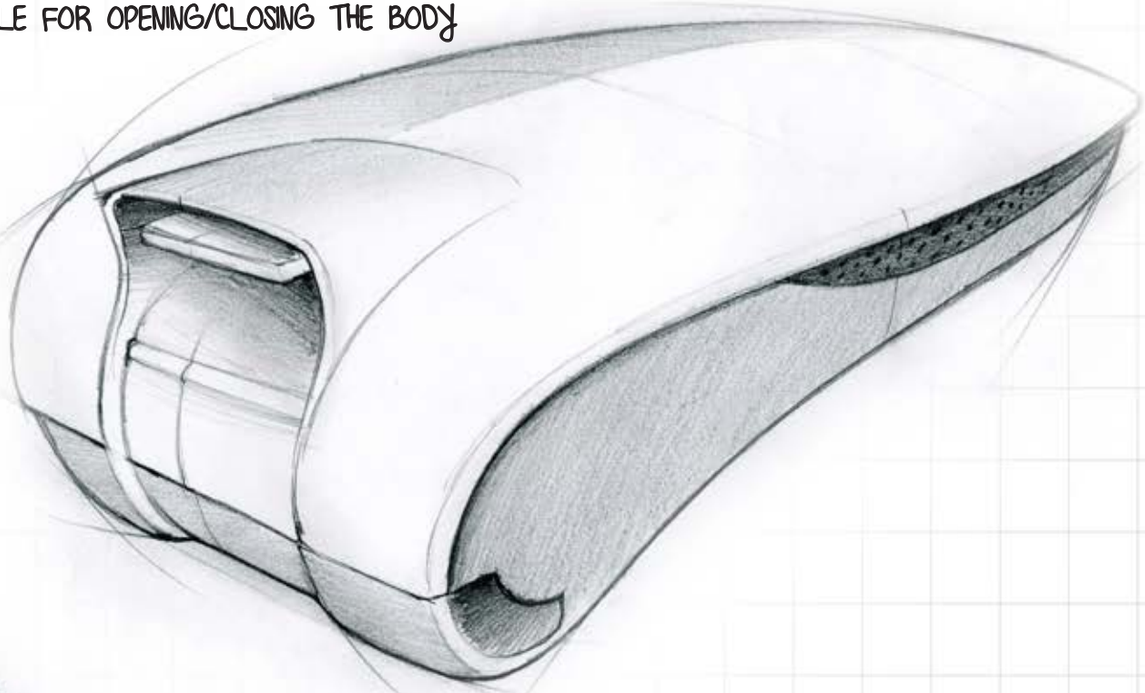
MODULARITY

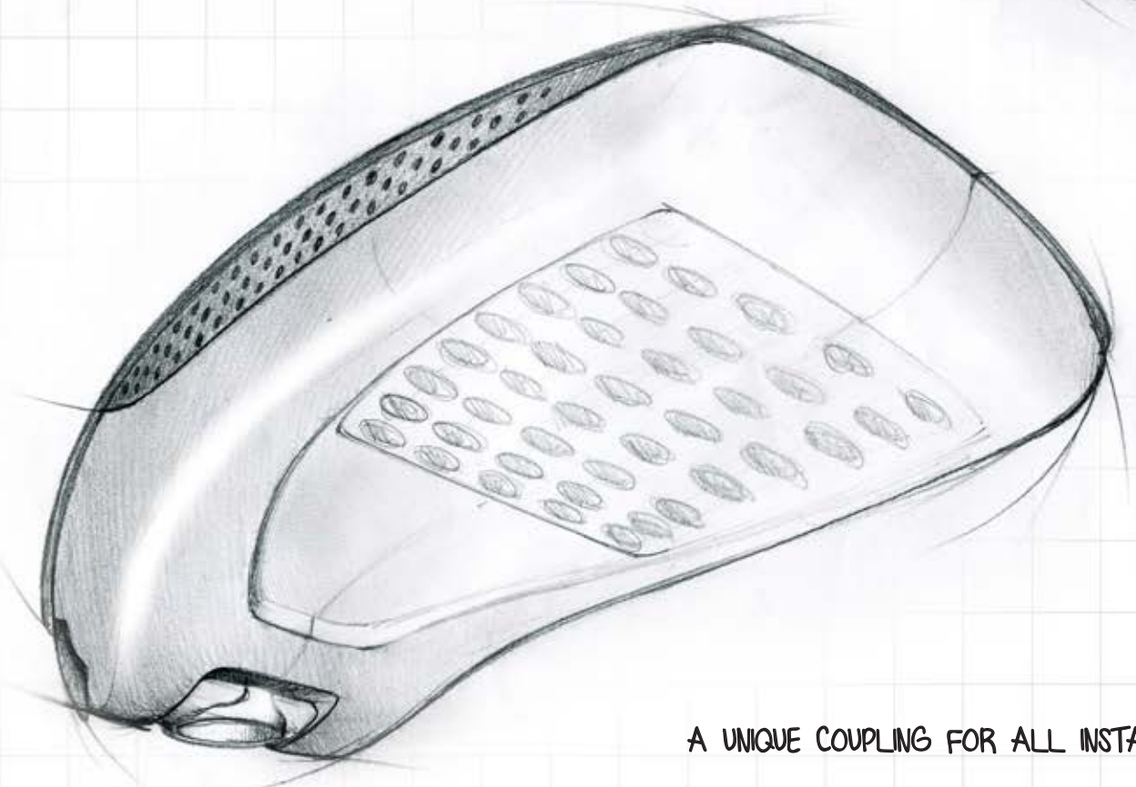
TOP CLOSURE MEMBRANE

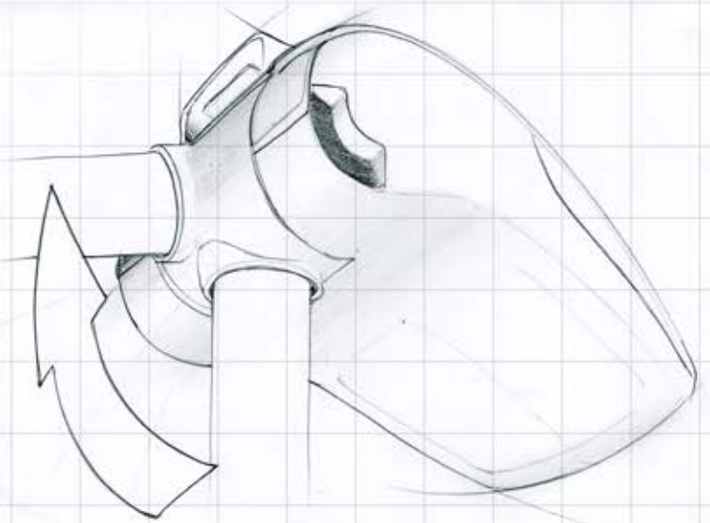
HEAT DISSIPATION



HANDLE FOR OPENING/CLOSING THE BODY

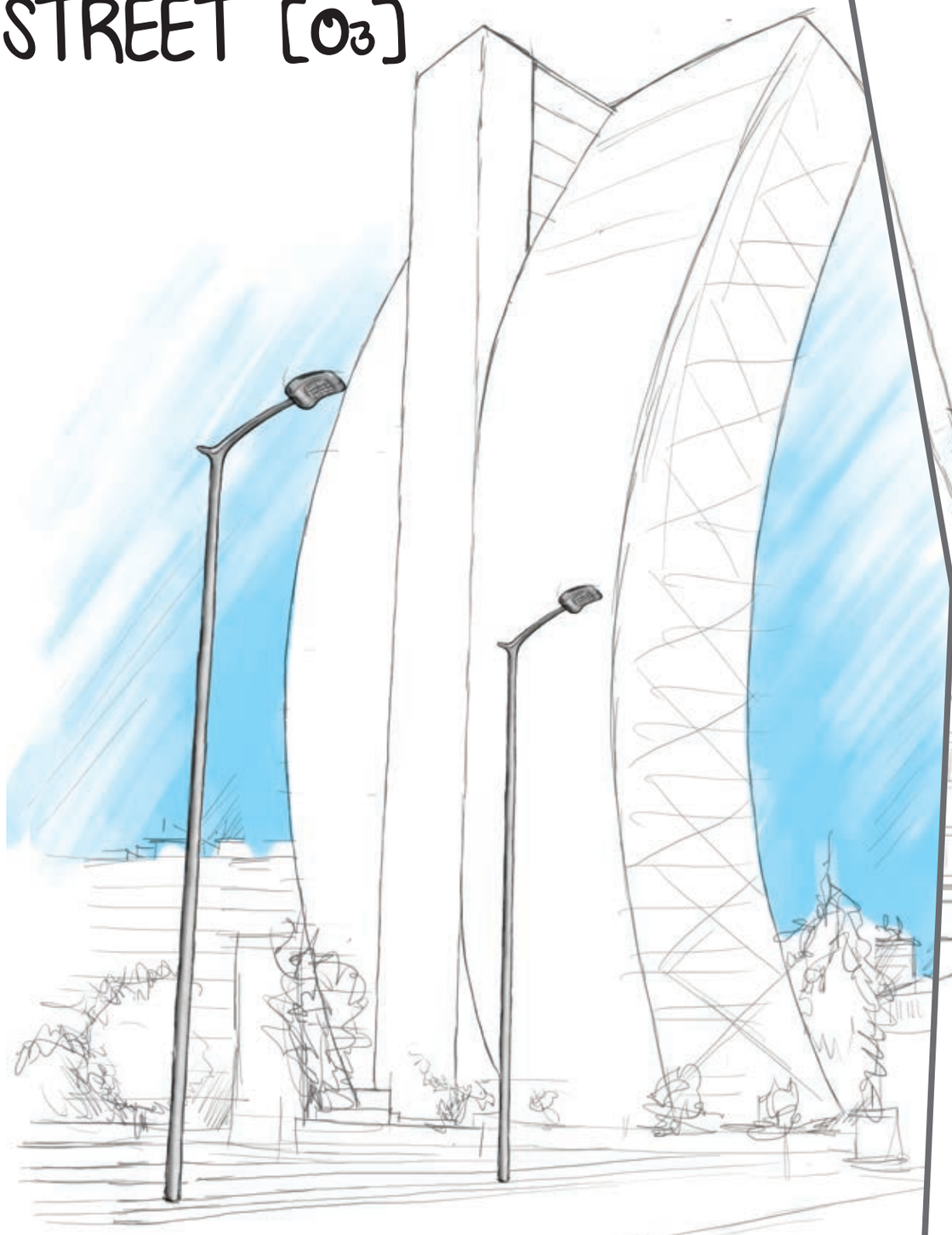




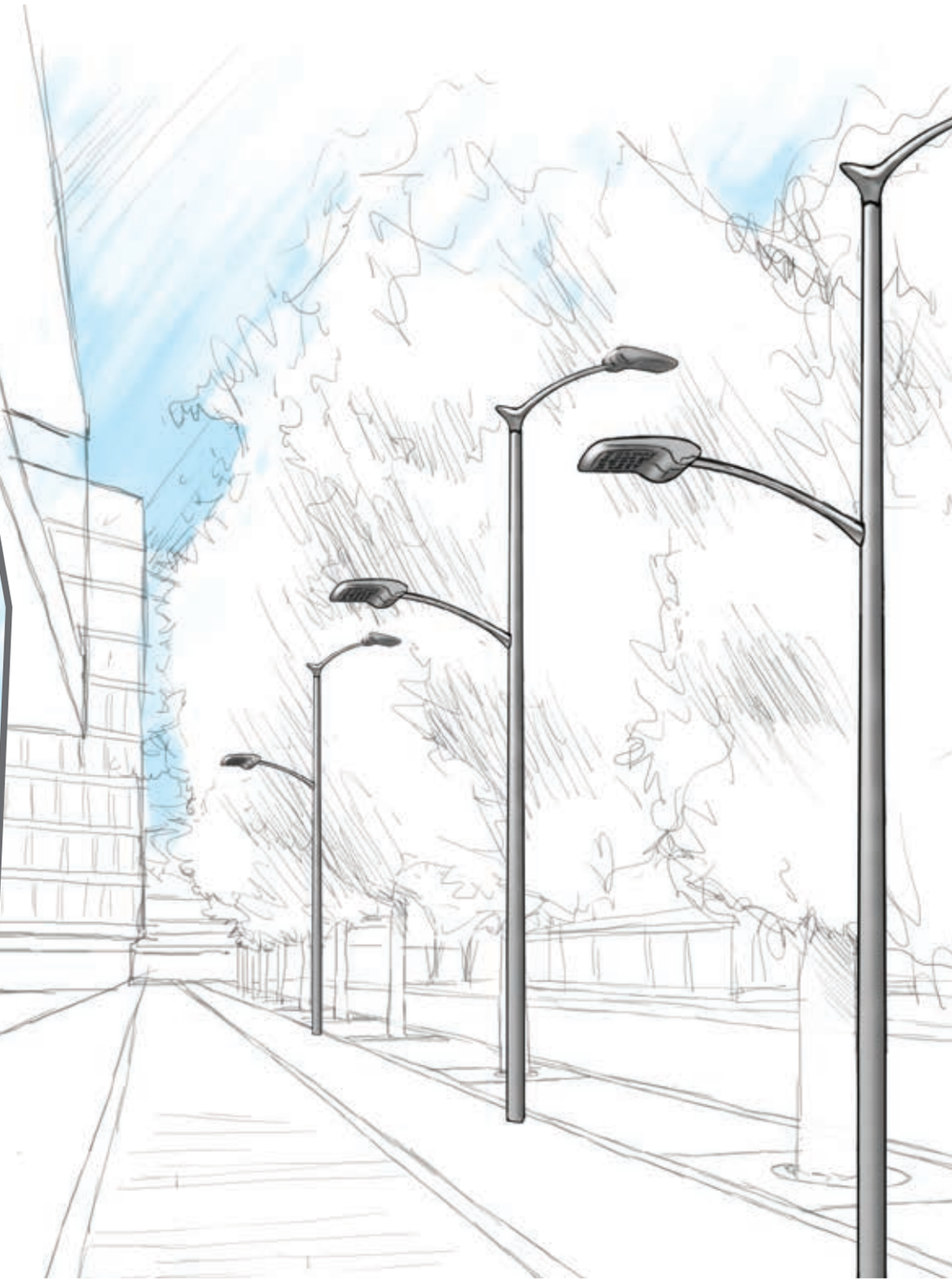


A UNIQUE COUPLING FOR ALL INSTALLATIONS

STREET [03]



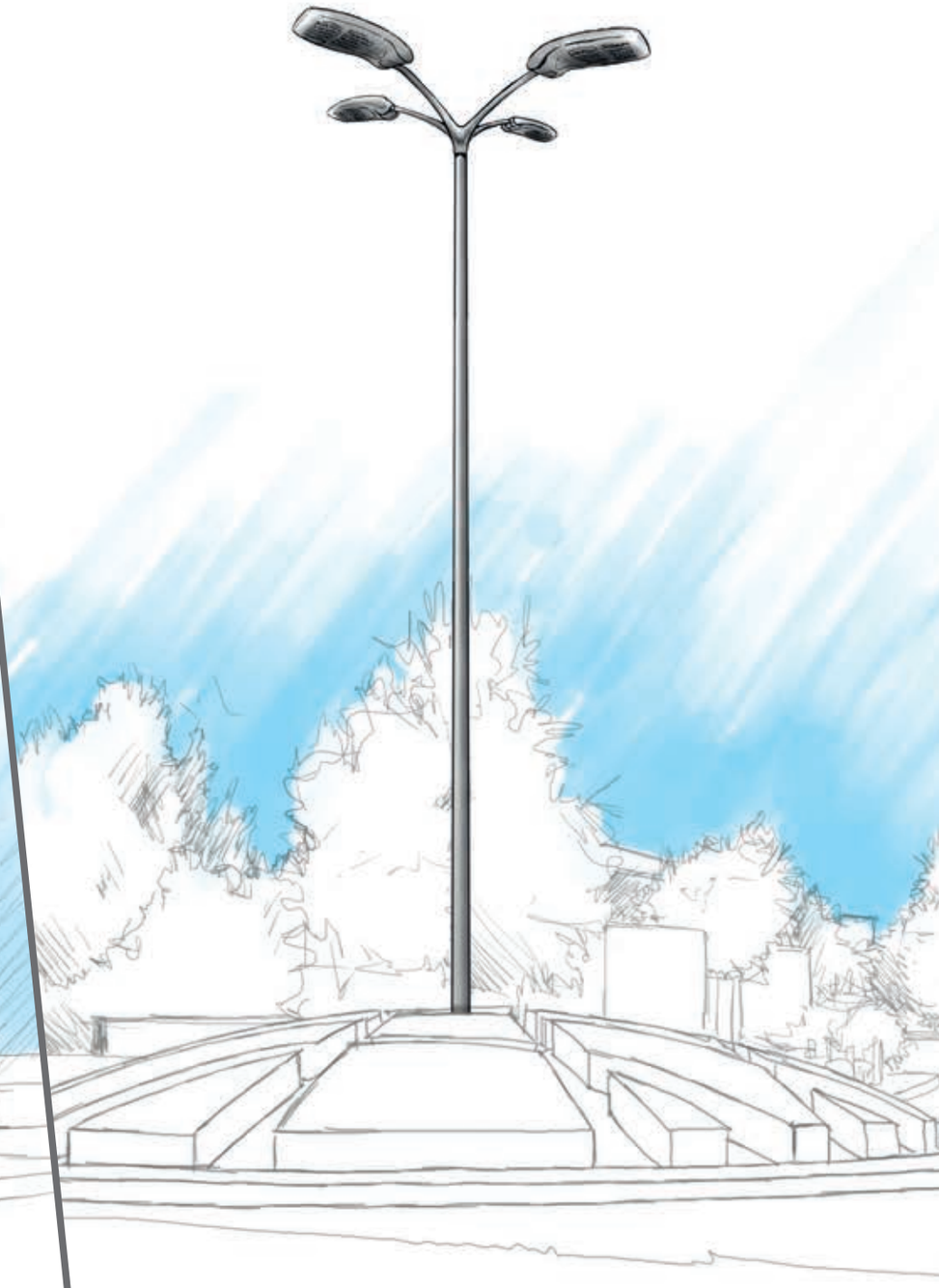
URBAN STREET



NEIGHBOURHOOD STREET

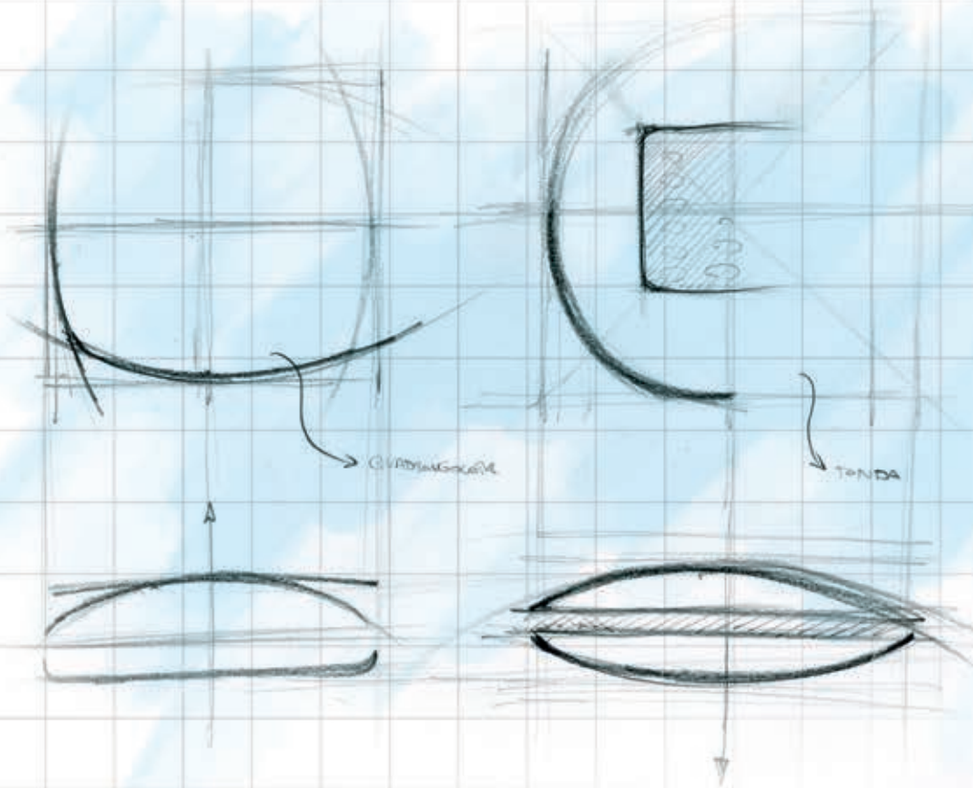
STREET [03] MAXI

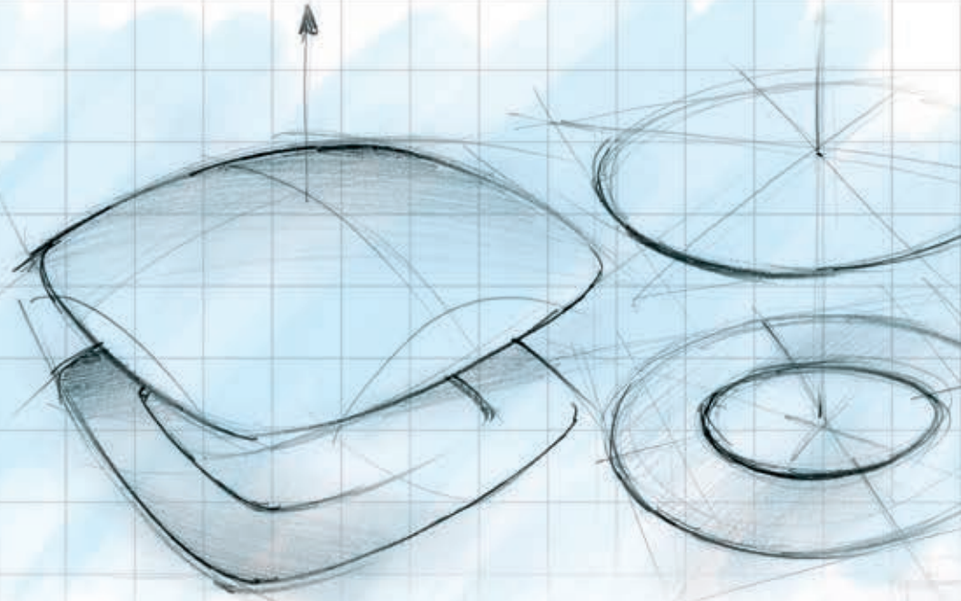
SUBURBAN STREET



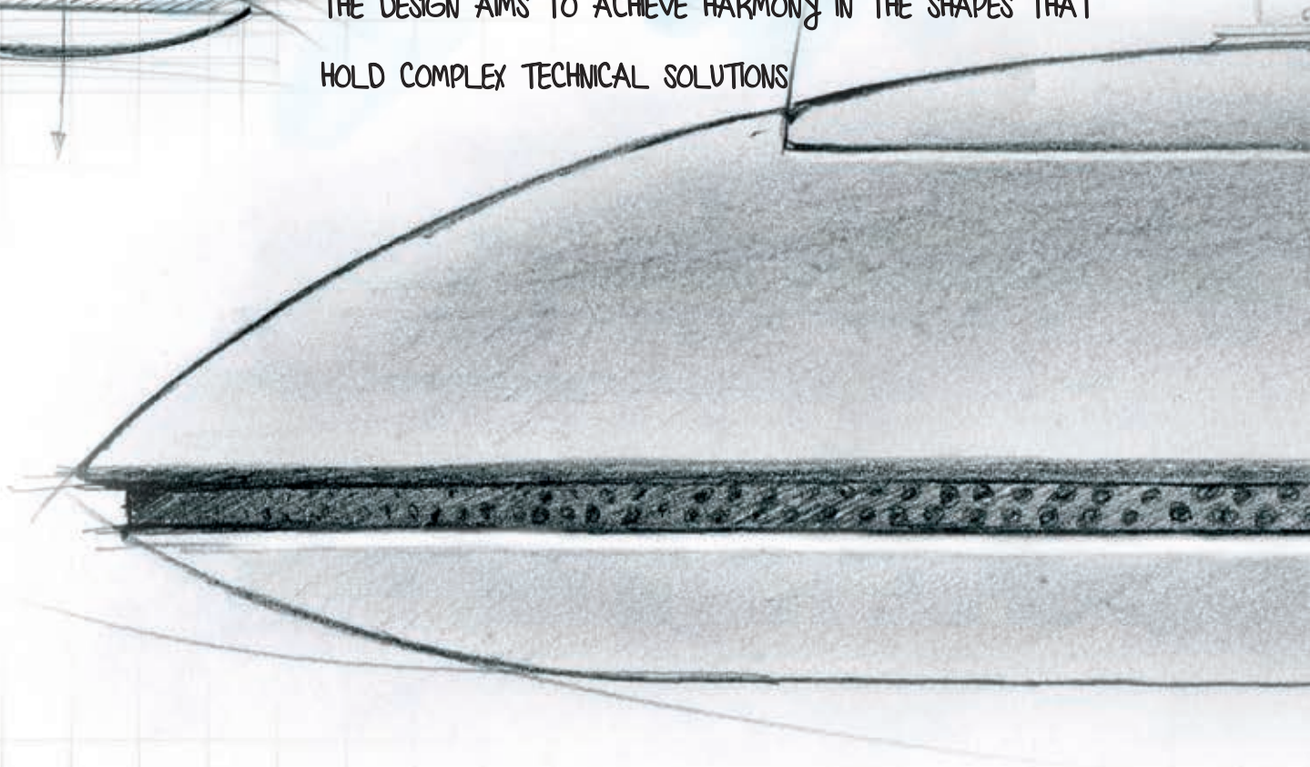
ROUNDABOUT

CONCEPT AND DESIGN



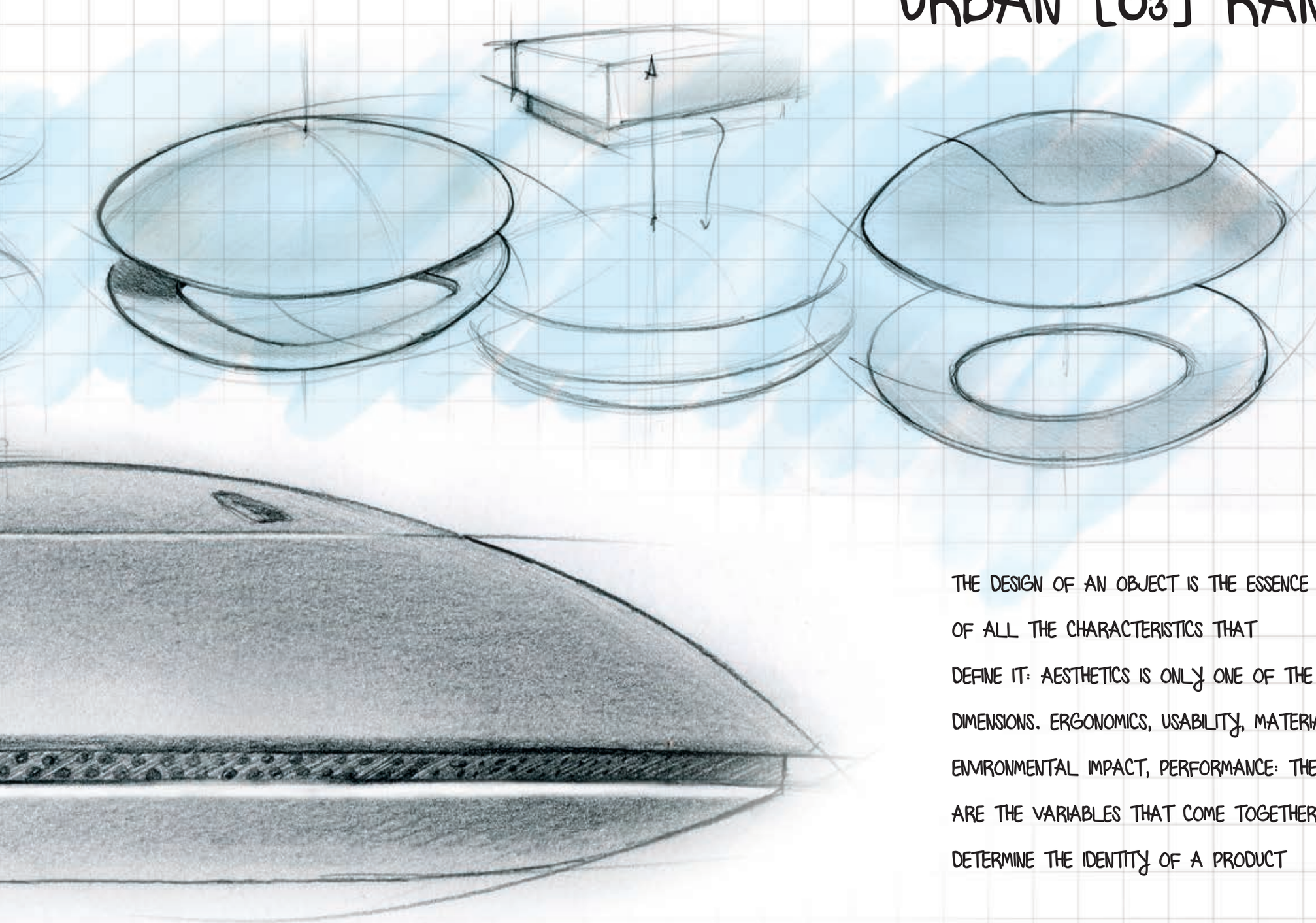


THE DESIGN AIMS TO ACHIEVE HARMONY IN THE SHAPES THAT HOLD COMPLEX TECHNICAL SOLUTIONS

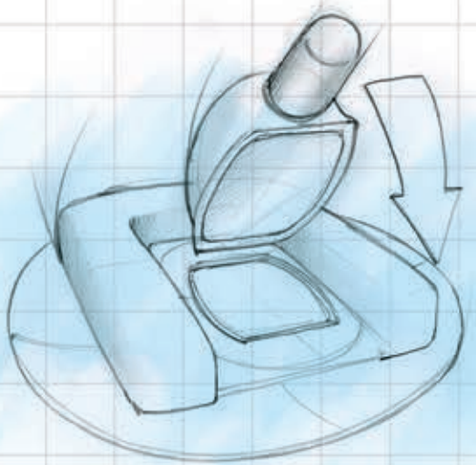


BEAUTY IS THE BALANCE THAT ARISES FROM THE PROPORTION, THE PSYCHOLOGICAL OUTLINE OF A SHAPE THAT SPEAKS TO THE SPACE WHERE IT LIVES

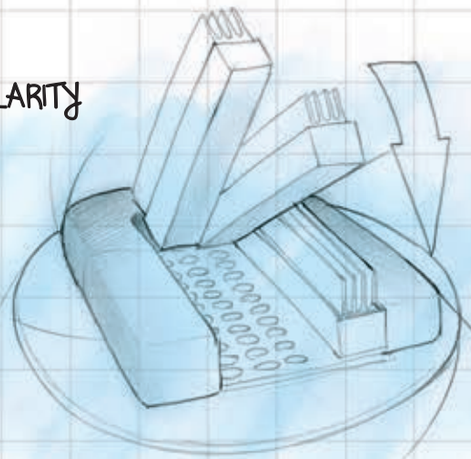
URBAN [03] RANGE

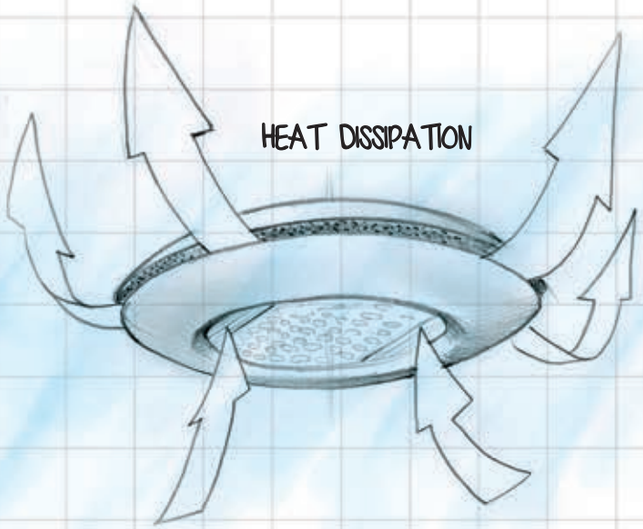


THE DESIGN OF AN OBJECT IS THE ESSENCE OF ALL THE CHARACTERISTICS THAT DEFINE IT: AESTHETICS IS ONLY ONE OF THE DIMENSIONS. ERGONOMICS, USABILITY, MATERIALS, ENVIRONMENTAL IMPACT, PERFORMANCE: THESE ARE THE VARIABLES THAT COME TOGETHER TO DETERMINE THE IDENTITY OF A PRODUCT



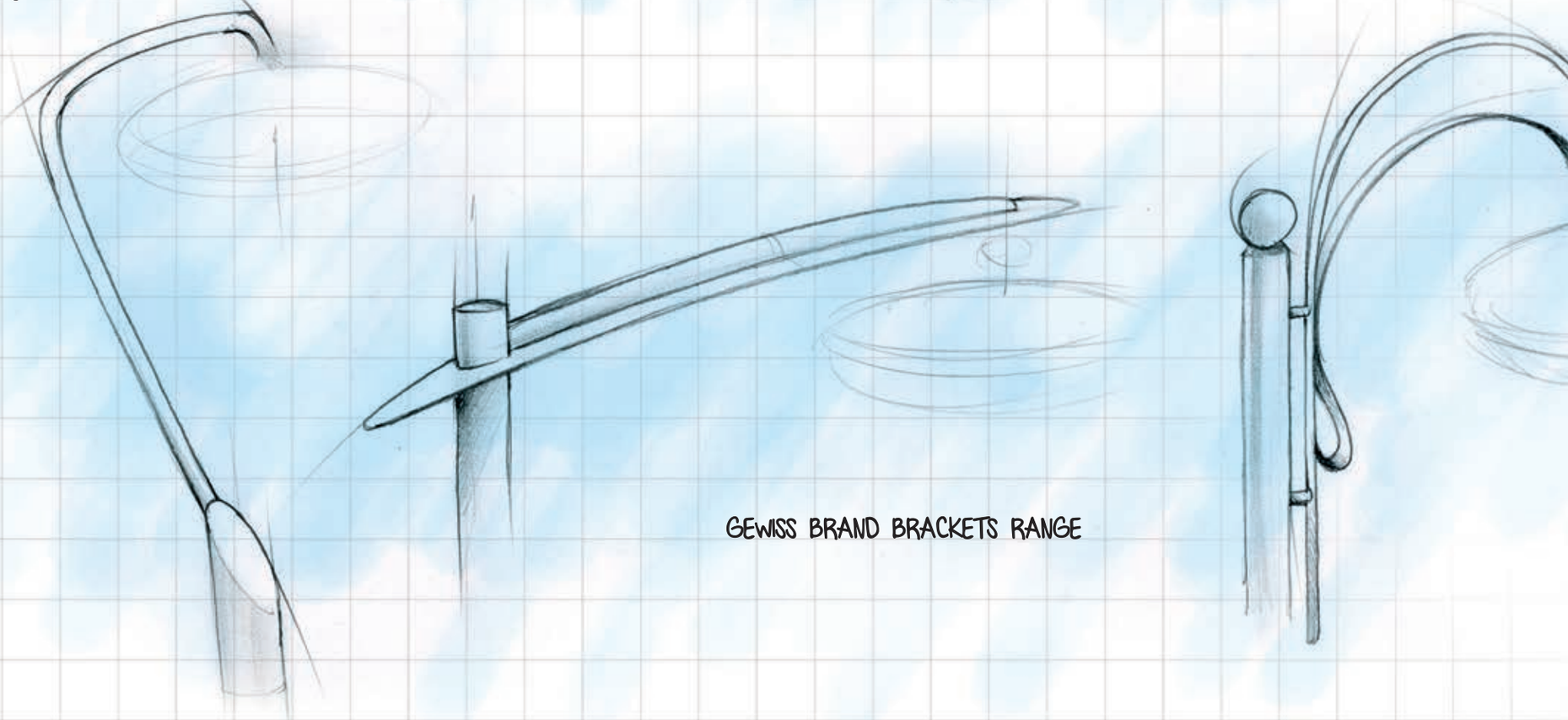
MODULARITY





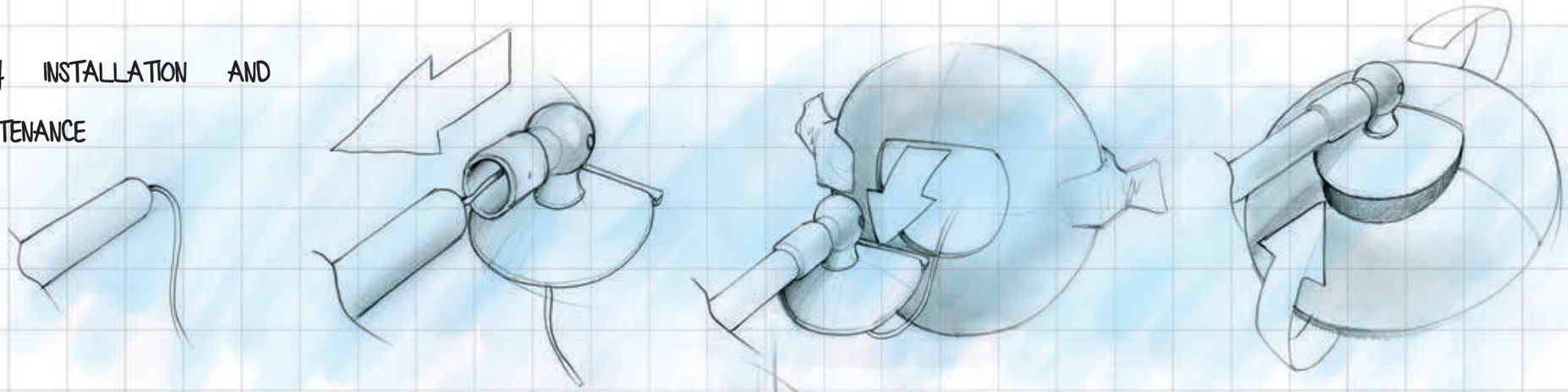
HEAT DISSIPATION

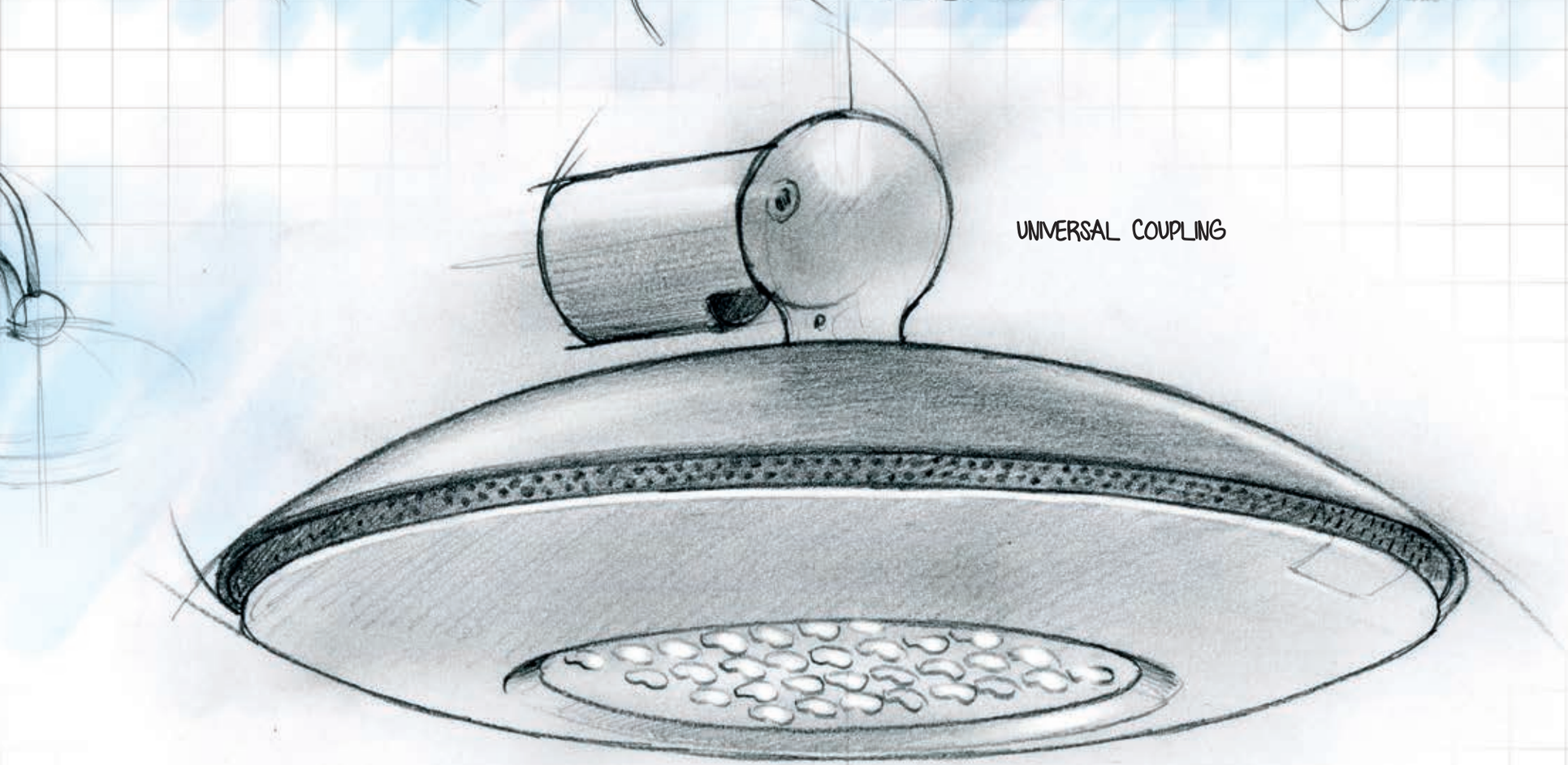
INTERCHANGEABILITY LED MOTOR/COSMOPOLIS



GEWISS BRAND BRACKETS RANGE

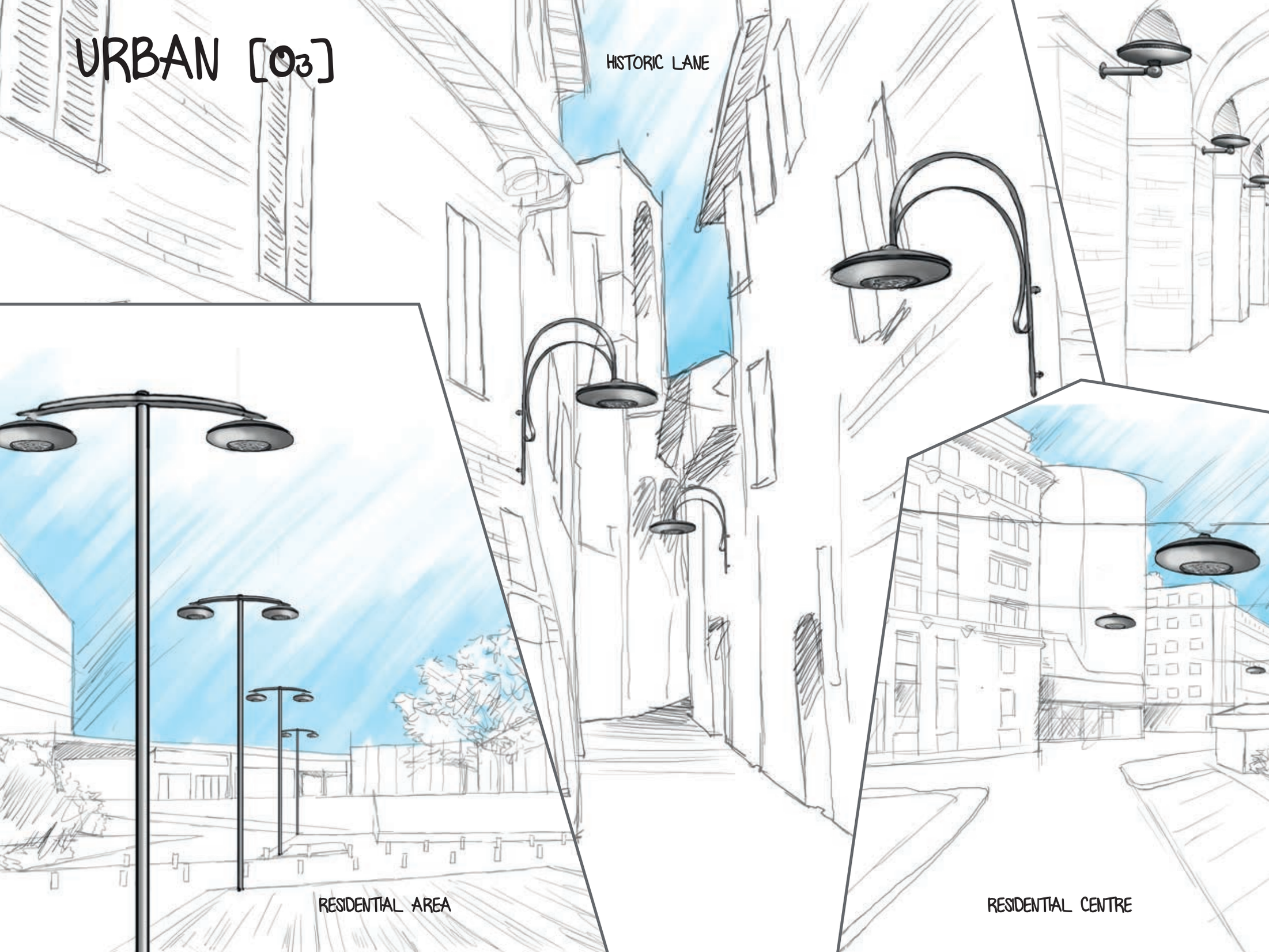
EASY INSTALLATION AND MAINTENANCE





UNIVERSAL COUPLING

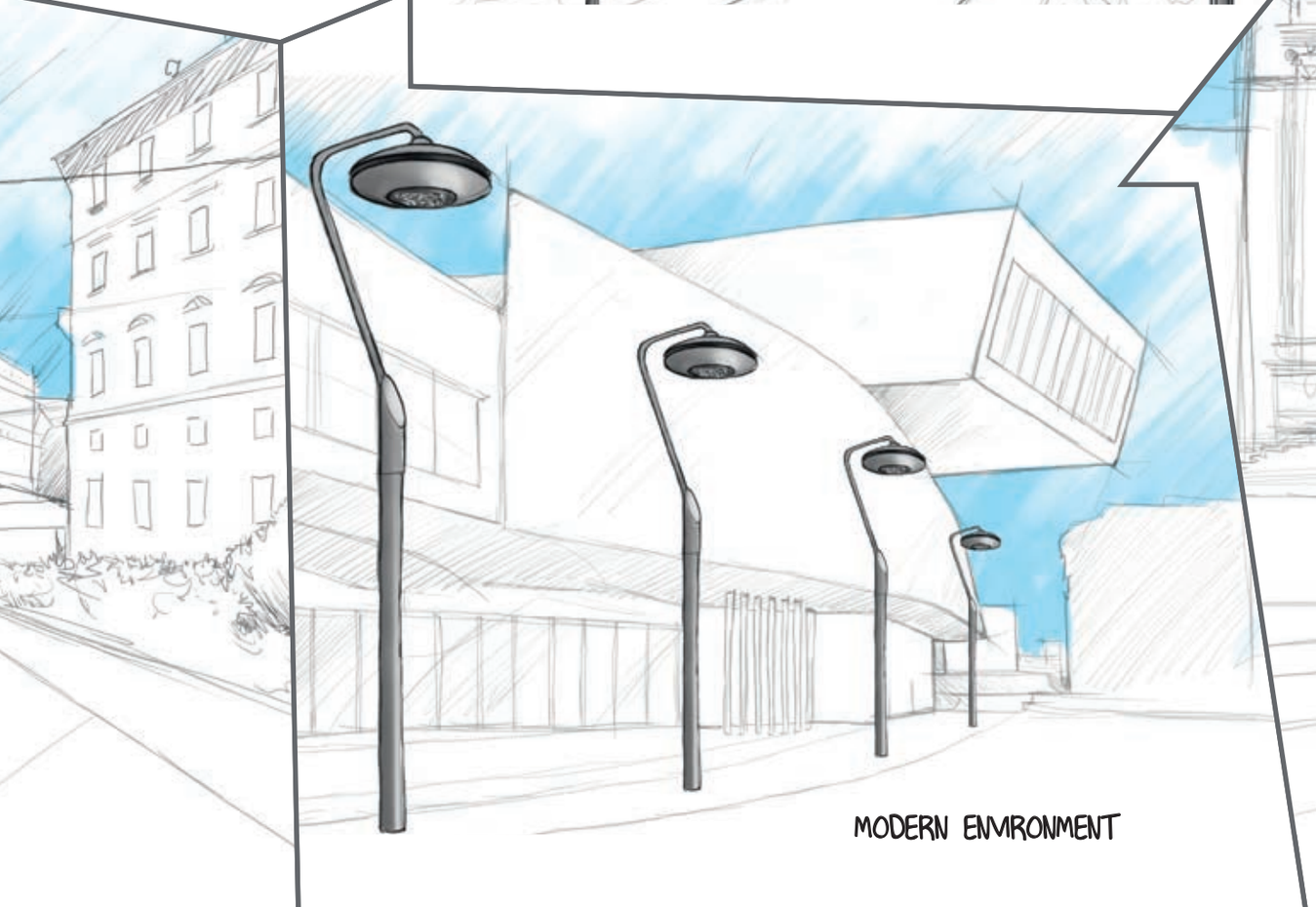
URBAN [03]



URBAN [03]

COLONNADE

PEDESTRIAN AREA



MODERN ENVIRONMENT

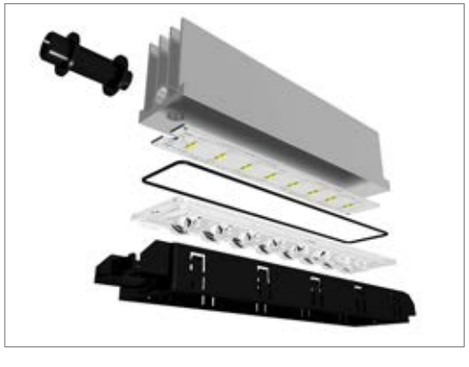
MONUMENTAL ENVIRONMENT

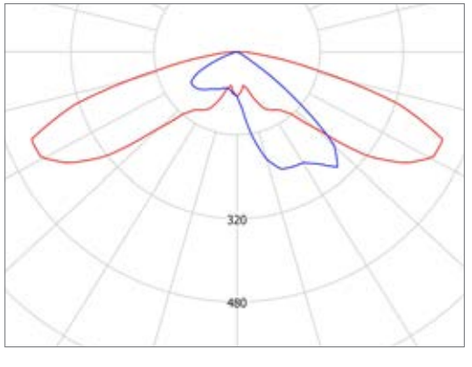
2. Light technologies

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.

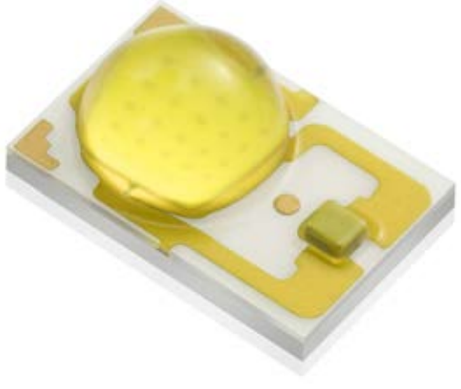
To translate a discovery into an innovation, you need to translate knowledge into action and viceversa: the experience and know-how accrued by GEWISS in its more than twenty years of history take shape in products and solutions that adopt the most advanced lighting technologies to offer lighting solutions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






A VITTORIO EMANUELE II I MILANESI
GRIMOLDI

White light sources: LED



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 (CO2). 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.

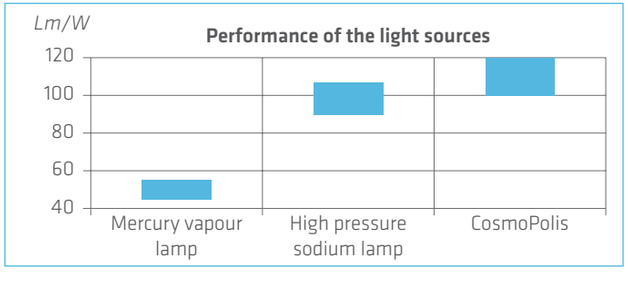
Cosmopolis

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.

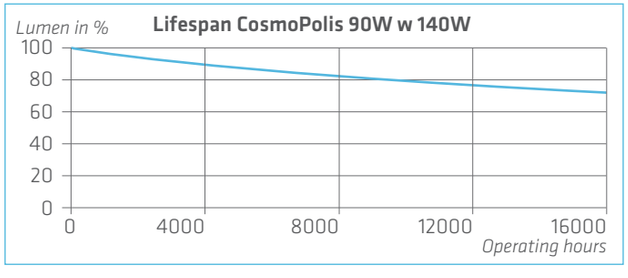
The advantages of Cosmopolis light sources

• **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.

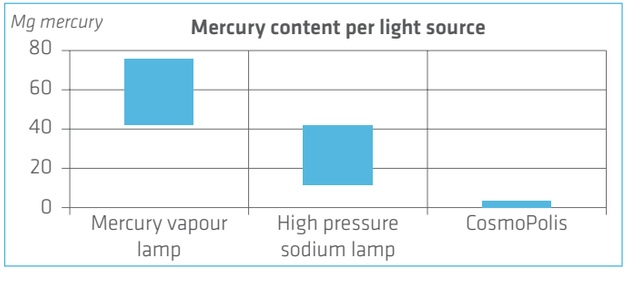
• **energy efficiency;** the recent technological advancements make it possible to obtain high energy performance reaching 120 lm/W.



• **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.



[O3]

Technology by Gewiss

Optimised Optical Output

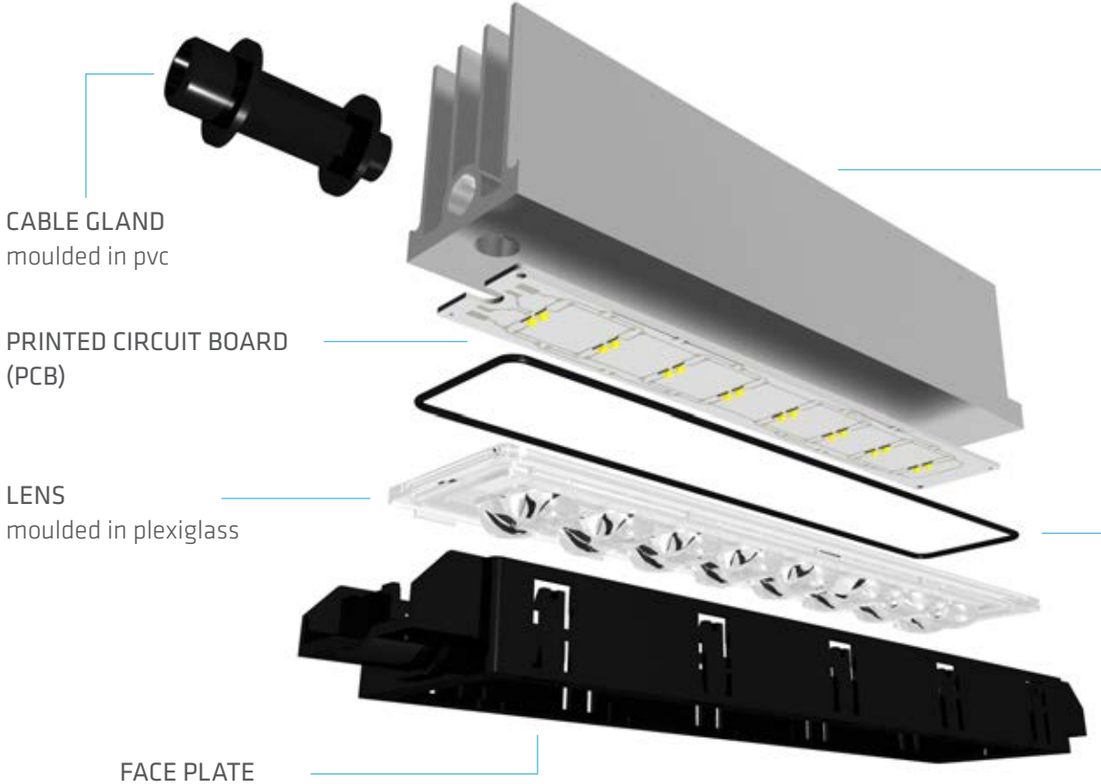
At the heart of the GEWISS product range:
an efficient and high performing optical system,
an essential tool to manage the potential
offered by LED sources

what it is	objective	advantages
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.*	*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, [O3] Technology can solve distribution problems of the luminous flux for street lighting fixtures.*	*"Software free" optical system guarantees the correct lighting for every type of street.*

LED motor

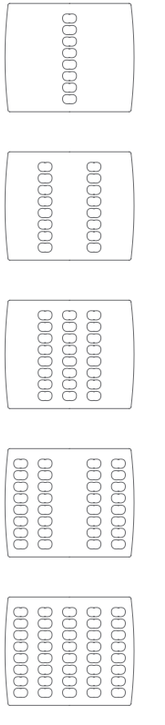
Design of the LED motor

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.

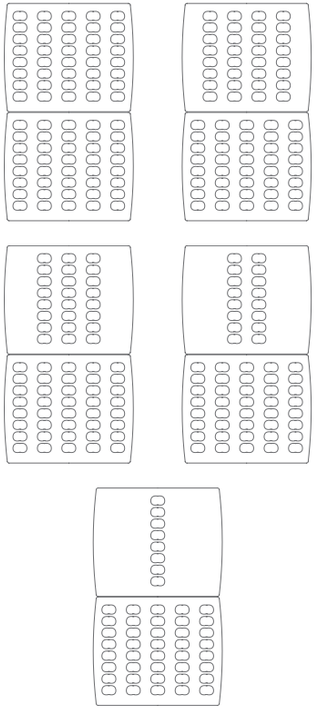


Modularity

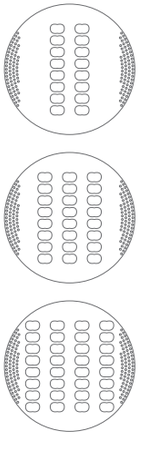
Gewiss devices are built using a modular system of light bars that can be added or removed to obtain the desired luminous flux.



[03] Street
Combinations of modules



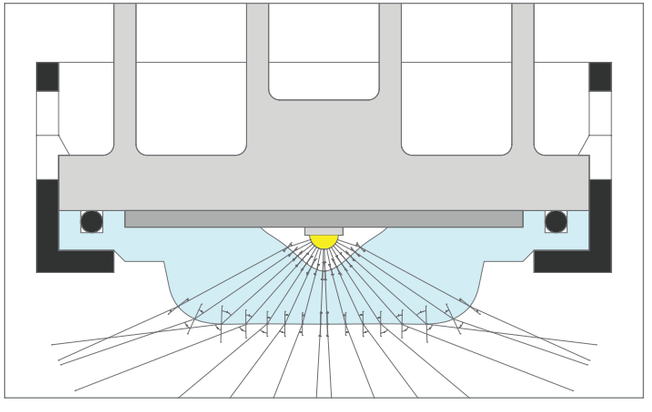
[03] Street Maxi
Combinations of modules

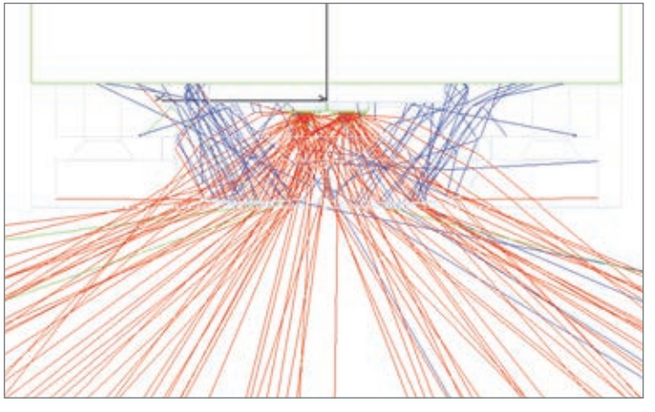


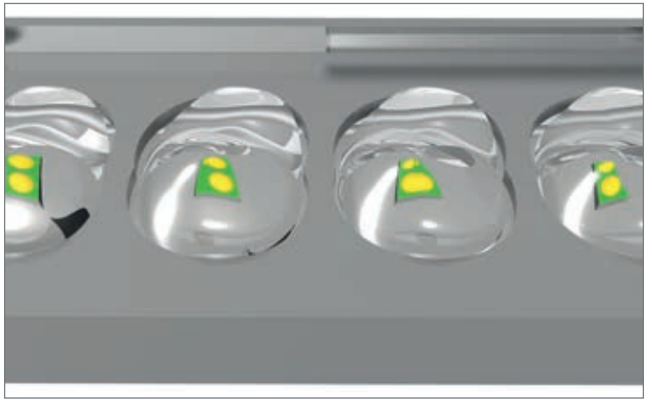
[03] Urban
Combinations of modules

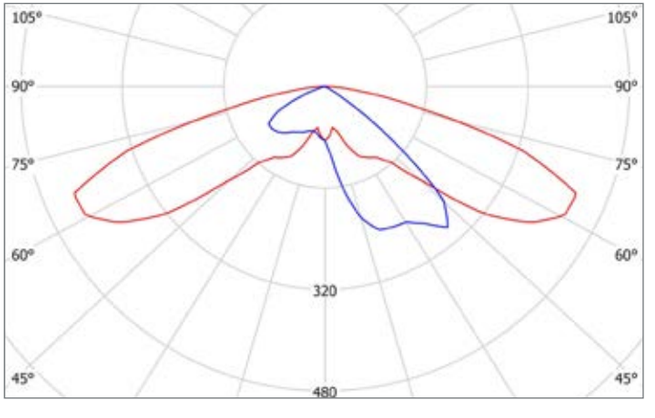
Lens design

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.



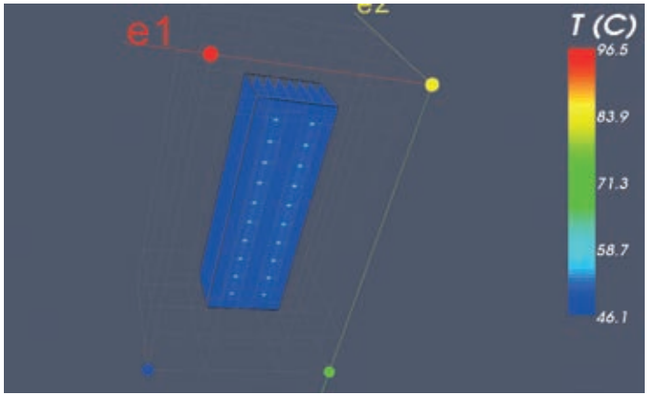






Dissipator Design

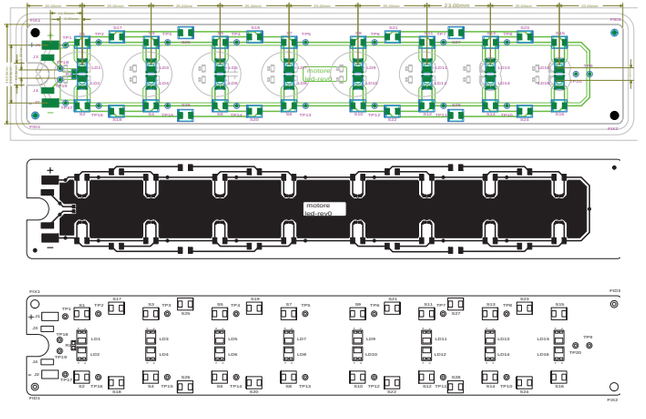
If not dissipated properly, the heat produced during operation of the LED chip can lead to an alteration of the quantitative and qualitative performance, including luminous efficiency, average lifespan, and the spectral emission. Gewiss has decided to create a dissipator in aluminium that is sized in 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.

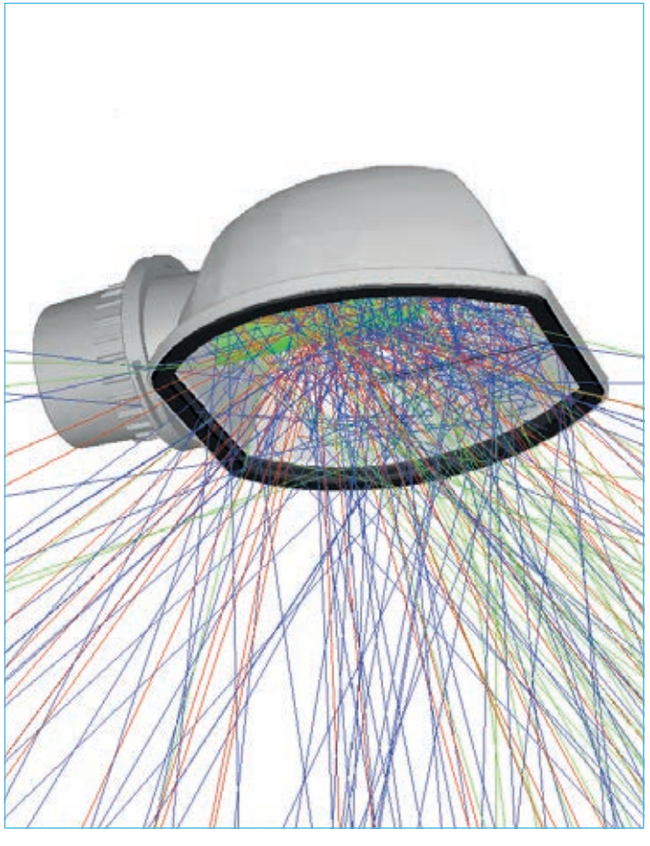
In any event, to ensure a longer service life, Gewiss has also mounted a counterdiode every 4 LEDs as a standard feature; this limits the possible loss of flow of the individual motor, in the event one of the diodes crashes, to a group of no more than 4 LEDs.
For more restrictive applications, Gewiss 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

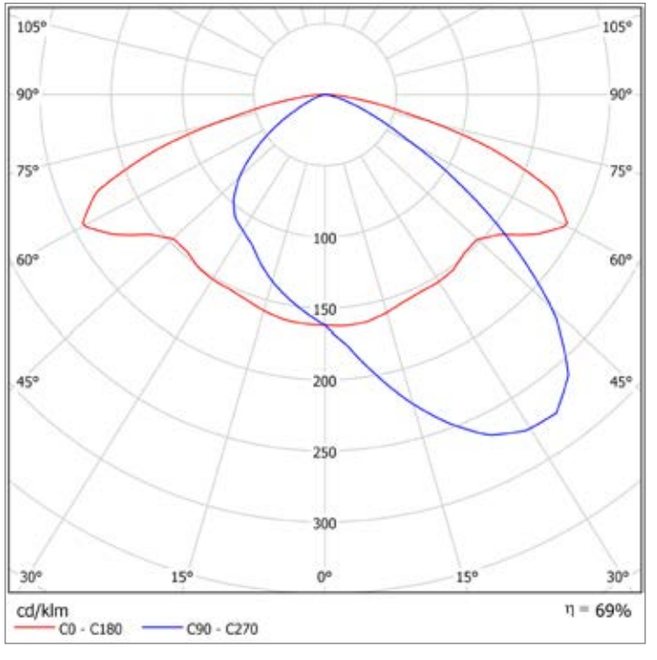
Cosmopolis motor design

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.
The Cosmopolis lamp Version are thinked and so suitable only for Street [03] Normal/Standard version.



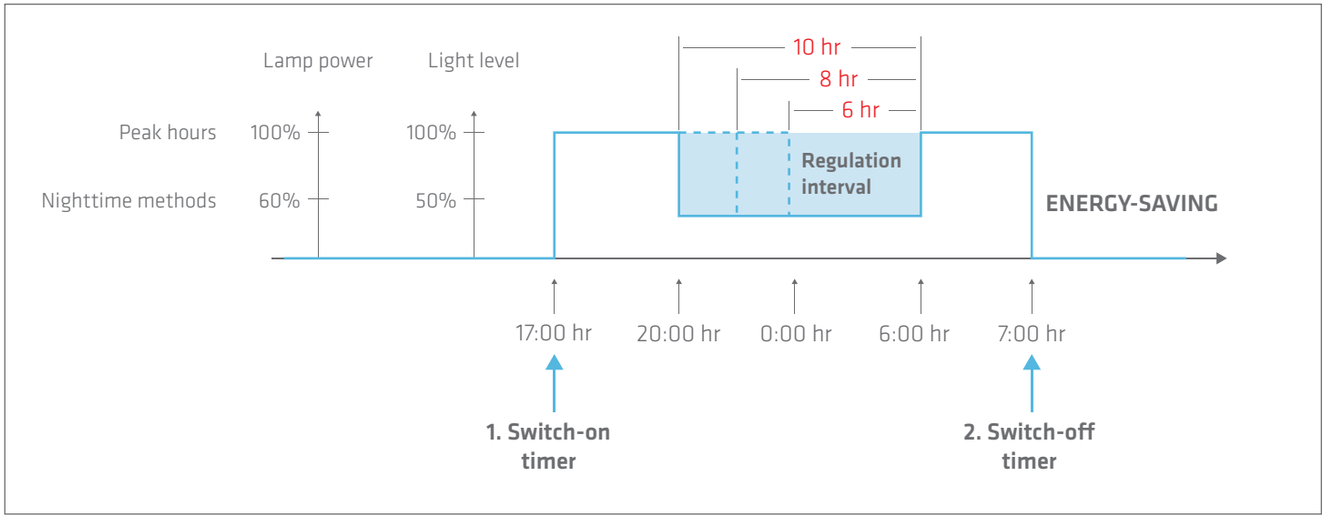
Reflector design

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.



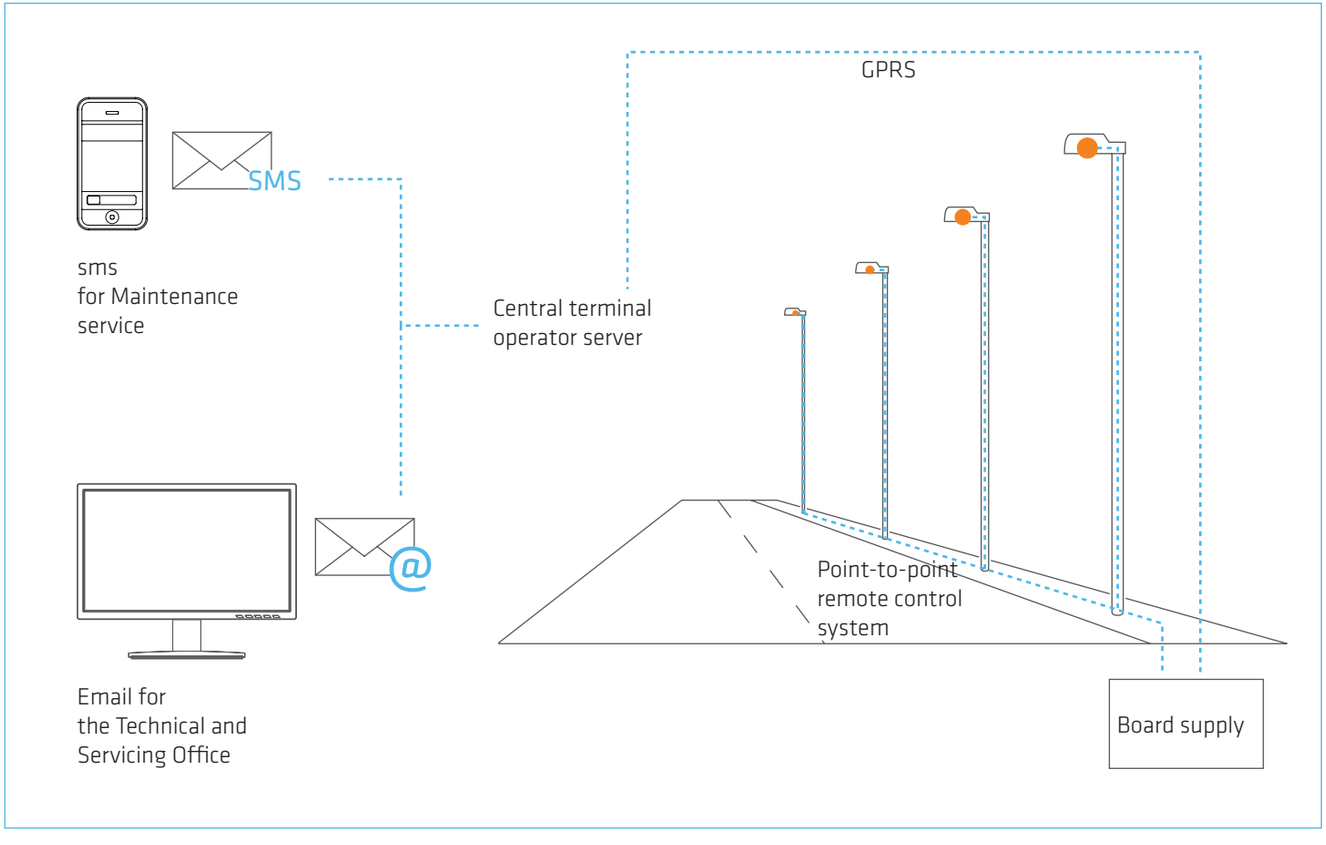
Lumistep and DALI

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 [03] - Street [03] Maxi - Urban [03]

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 [03] 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.
Moreover,the street range is been extended with the innovative street lighting device called Street [03]Maxi, and it is now possible to meet the lighting requirements of main roads suburban /extraurban street and generally speaking, for the enlightenment of all the open spaces/ large areas that needs a very high illuminance.
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 [03] 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 [O3]

STREET LIGHTING

Street [O3] Maxi

STREET LIGHTING

Urban [O3]

URBAN LIGHTING

Street [O3]

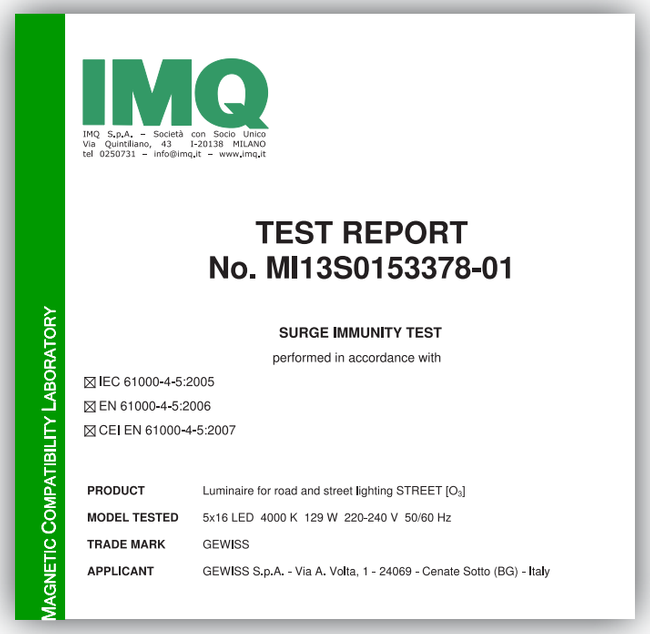
The innovative street lighting designed to house, in a single body, both the high performance LEDs or the innovative CosmoPolis discharge lamps.
- Protection degree IP 66
- Insulation class II
- LED versions in component modules with from 1 (16 LED) to 5 (80 LED) or, alternatively, versions with innovative 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.



MAGNETIC COMPATIBILITY LABORATORY

IMQ

IMQ S.p.A. – Società con Socio Unico
Via Quintiliano, 43 I-20138 MILANO
tel 0250731 – info@imq.it – www.imq.it

TEST REPORT
No. MI13S0153378-01

SURGE IMMUNITY TEST
performed in accordance with

☒ IEC 61000-4-5:2005
☒ EN 61000-4-5:2006
☒ CEI EN 61000-4-5:2007

PRODUCT	Luminaire for road and street lighting STREET [O3]
MODEL TESTED	5x16 LED 4000 K 129 W 220-240 V 50/60 Hz
TRADE MARK	GEWISS
APPLICANT	GEWISS S.p.A. - Via A. Volta, 1 - 24069 - Cenate Sotto (BG) - Italy

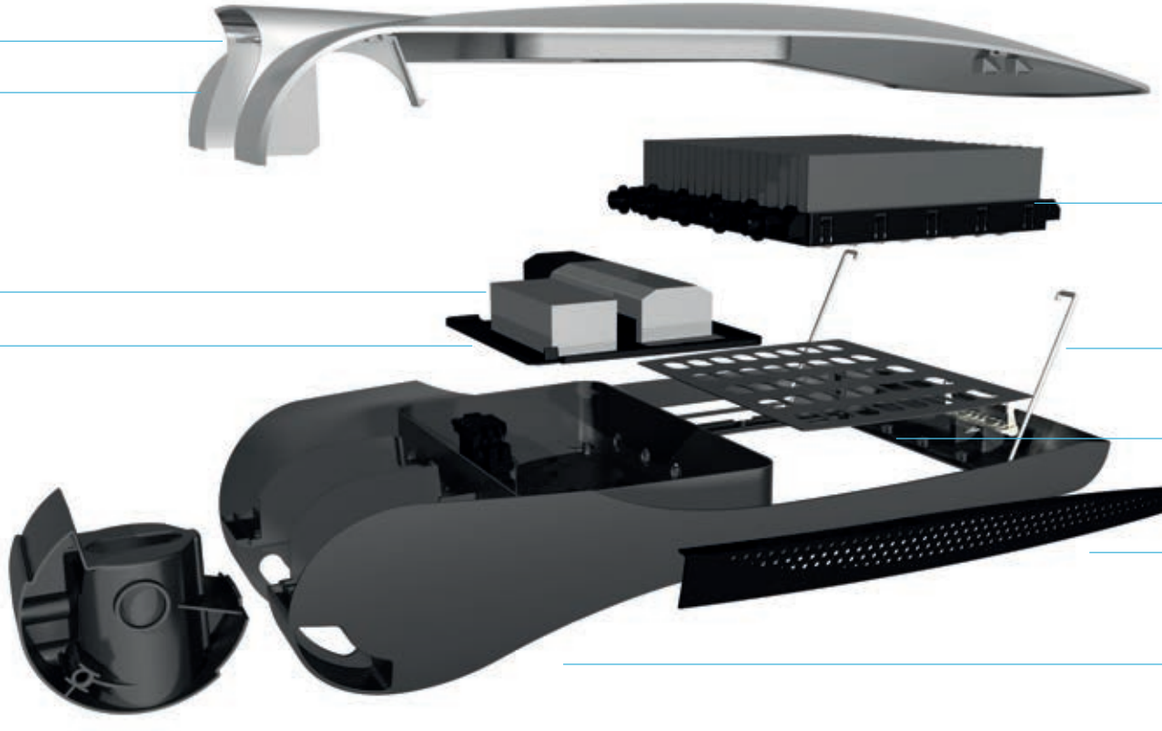
Ventilation

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.

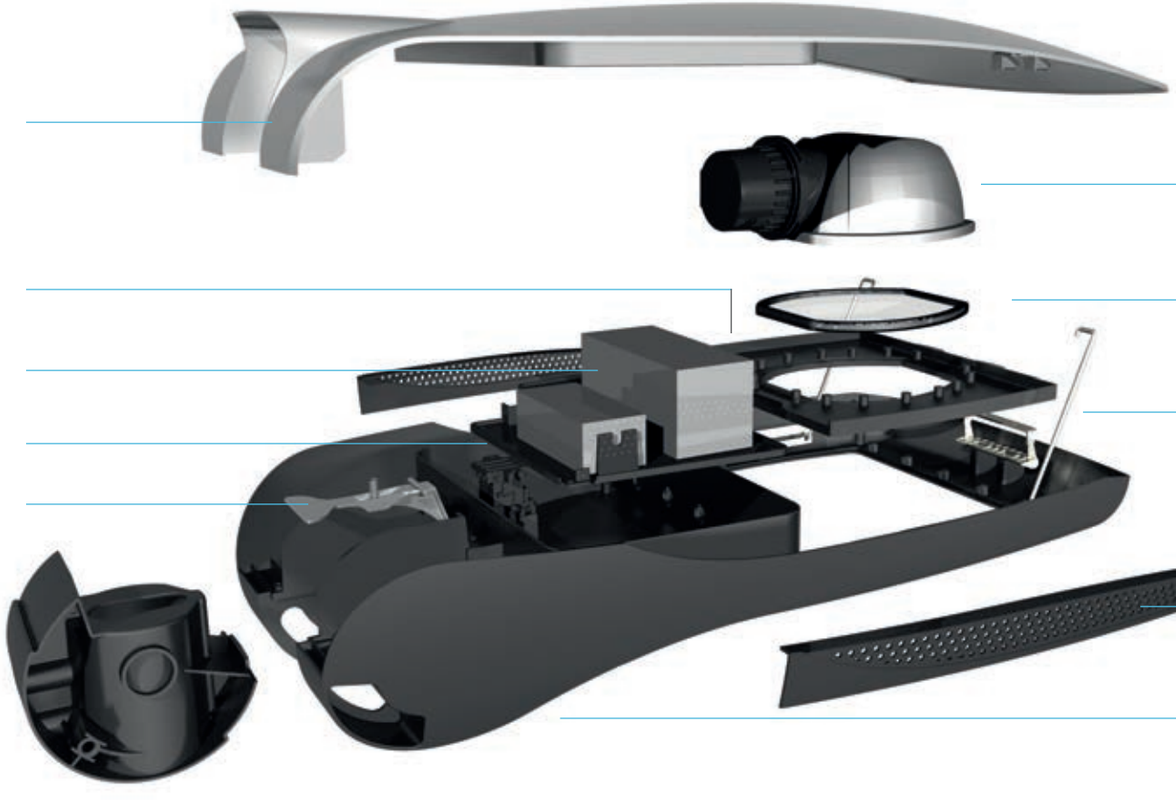
Overvoltages protection

Thanks to the complete separation of electrical and electronic parts of the body, the street lighting Street [O3] Maxi is protected from common over voltages up to 6kV, according to the European Standards. (Certified by third part)

LED version


Opening/closing handle
Die-cast aluminium cover
LED motor
Supply unit
Removable power supply plate
Opening and locking mechanism
Decorative closure shield
Pole joint
Mesh for ventilation
Die-cast aluminium base

CosmoPolis version



Street [O3] Maxi

LED lighting system in die-cast aluminium for main roads, extraurban street and large area lighting in general.
- Protection degree IP 66
- Insulation class II
- LED Versions with from 6 to 10 modules.
- Opening with a snap-on handle.
- Stand-alone or Bi-power self-learning versions.

Street [O3] Maxi LED

More power for largest street

The new street [O3] Maxi is able to reach a Lumen Output package up to 24000 lumen(10 modules) and to meet the lighting requirements of main roads, suburban, extra urban street and, generally speaking, for the enlightenment of all the open spaces/large areas.

Overvoltages protection

Thanks to the complete separation of electrical and electronic parts of the body, the street lighting Street [O3] Maxi is protected from common over voltages up to 6kV, according to the European Standards. (Certified by third part).

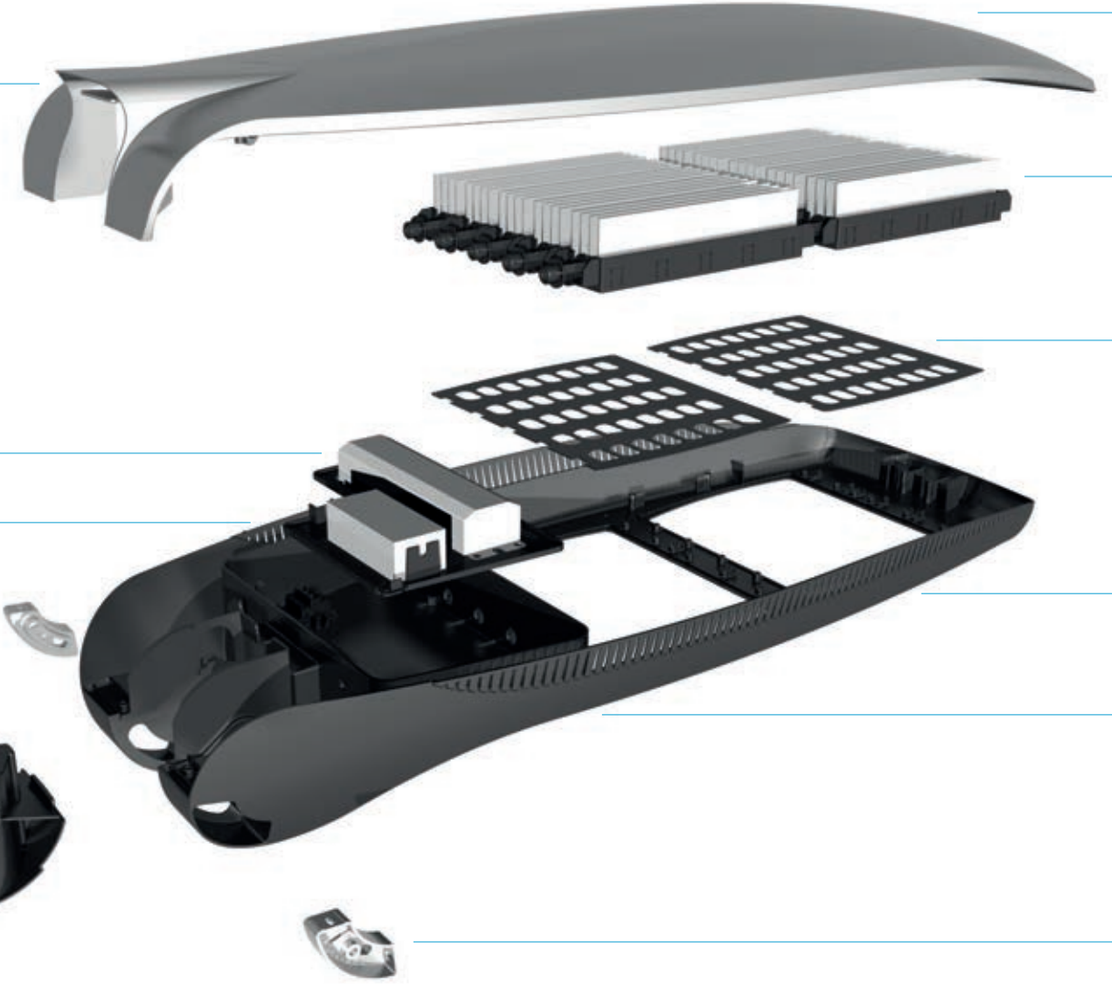
5 years warranty

All the LED lighting products of the Gewiss range offer the possibility of an additional warranty for a further 3 years after the standard 2-year warranty period, by registering on www.gewiss.com.

High temperature resistance

Street [O3] Maxi is particularly suitable for use in hot environments with very high temperatures.

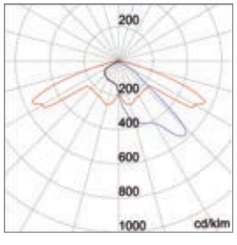
LED version

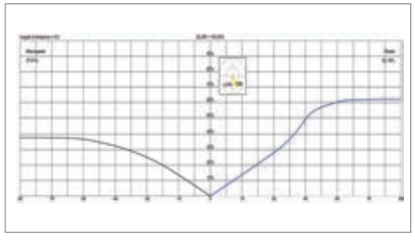

Opening/closing handle
Die-cast aluminium cover
LED motors
Decorative closure shield
Supply unit
Removable power supply plate
Mesh for ventilation
Die-cast aluminium base
Pole joint
Goniometer

Project type

Below, you can see some simple lighting projects that shows the photometric performances of Street [O3] - Street [O3] Maxi.

Urban street

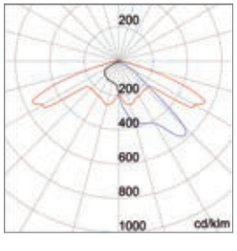


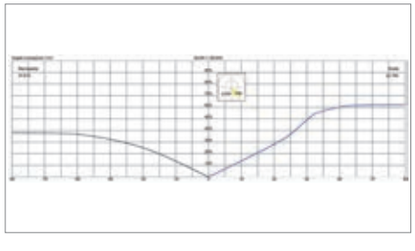


ME3c street optic

Device configuration	Standard reference	Class lighting	Number of carriageways	Number of lanes	Road width	Pole height	Centre distance
GEWISS GW 87 514 STREET O3 5x16LED 4000K	EN 13201	ME3c	1	2	8 m	8 m	30 m

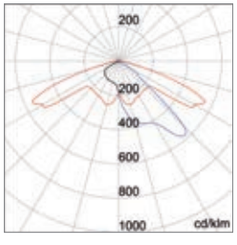
Large outdoor area

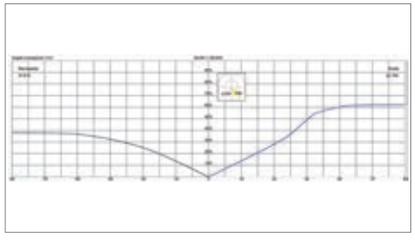




Device configuration	Reference standard	Dimensions of the outdoor area	Lighting tower height	Number of devices	Average lighting	Uniformity Min/av
GW S7 805 STREET O3 MAXI 10x16LED 4000K	EN 12464-2	50 x 50 m	30 m	7	20 Lux	0.40

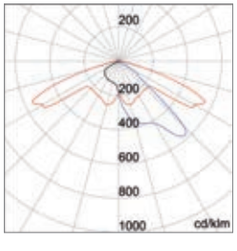
Roundabout

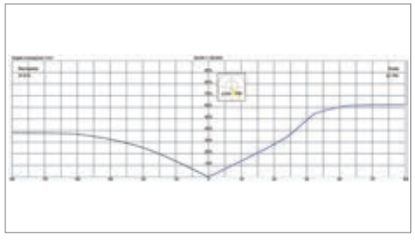




Device configuration	Reference standard	Lighting class	Road width	Pole height	Number of devices	External roundabout Ø	Internal roundabout Ø
GEWISS GW S7 804 STREET O3 MAXI 9x16LED 4000K	EN 13201	CE2	8m	15m	4	46 m	30m

Motorway





Device configuration	Reference standard	Lighting class	Number of carriageways	Number of lanes	Road width	Pole height	Centre distance
GEWISS GW S7 804 STREET O3 MAXI 9x16LED 4000K	EN 13201	ME1	2	3	9.5 m	10 m	30m

Poles

The Street [O3] 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 [O3] 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 [O3]

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 [O3] LED side coupling

Urban [O3] LED top coupling

Urban [O3] LED suspension

Urban [O3] Cosmo side coupling

Urban [O3] Cosmo top coupling

Urban [O3] 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.

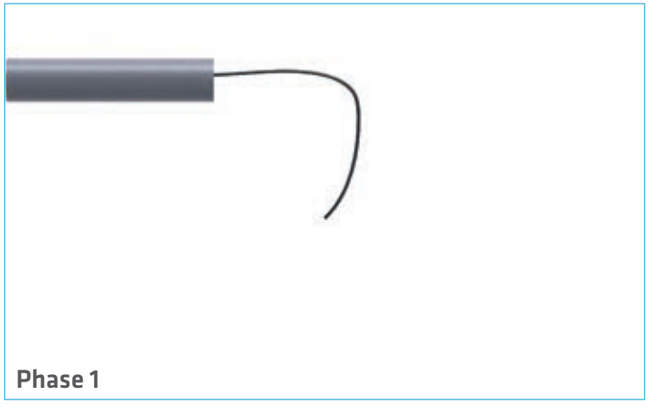
In this perspective, Gewiss has developed a series of products that start with the current best technologies and follow their evolution, while maintaining the ability to move on to the one that appears to be the best over time. This freedom of choice keeps the design of the product unchanged and does 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.
[O3] 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 [O3] 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.



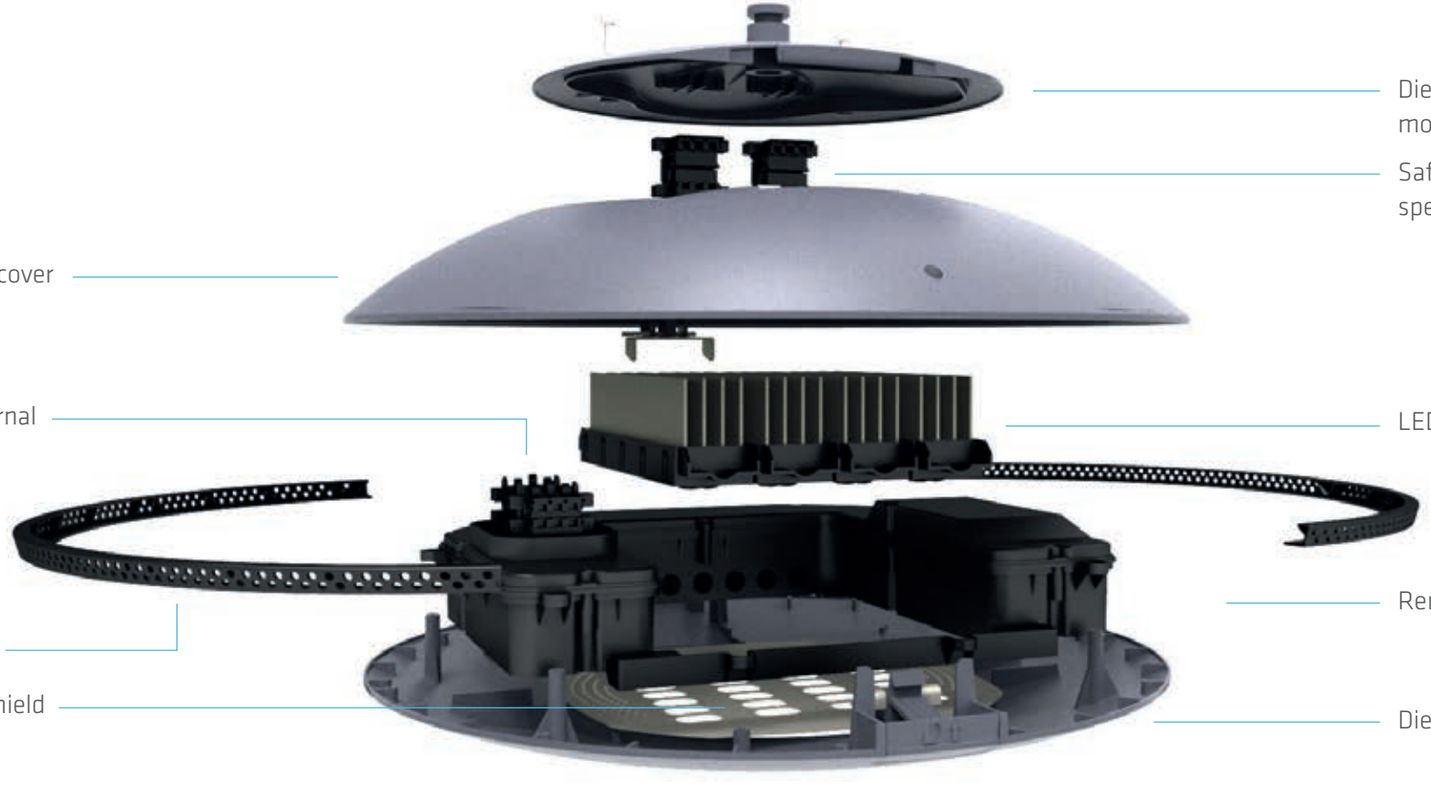
Phase 1

Phase 2

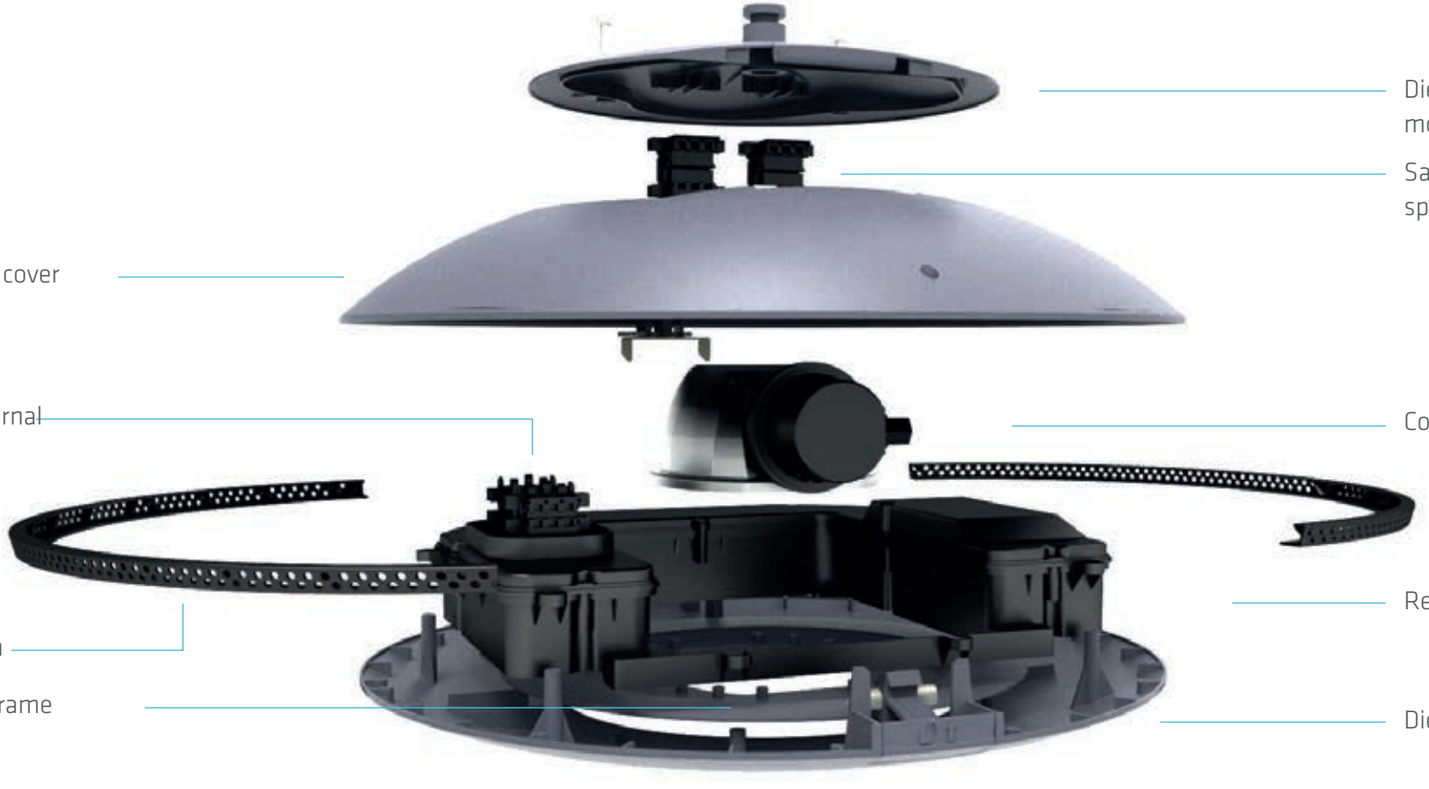
Phase 3

Phase 4

LED version


Die-cast aluminium pole mounting frame
Safety knife for installation and special maintenance
Die-cast aluminium cover
Safety knife for internal maintenance
LED motor
Removable power supply plate
Mesh for ventilation
Decorative closure shield
Die-cast aluminium base

CosmoPolis version



Urban [O3] - GEWISS side bracket systems

Urban [O3] pole-head

Urban [O3] Modern

Urban [O3] Pastoral

Urban [O3] pole-head

Urban [O3] Modern

Urban [O3] Pastoral

Street [O3] - product codes

STREET [O3] LED - Street optic

Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 501	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap/Alum
GW 87 502	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap/Alum
GW 87 503	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap/Alum
GW 87 504	5 (5x16 LED)	3500 K (Ra85)	129 W	7850	Grap/Alum
GW 87 510	1 (1x16 LED)	4000 K (Ra65)	31 W	2320	Grap/Alum
GW 87 511	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap/Alum
GW 87 512	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap/Alum
GW 87 513	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap/Alum
GW 87 514	5 (5x16 LED)	4000 K (Ra65)	129 W	10620	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 521	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap/Alum
GW 87 522	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap/Alum
GW 87 523	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap/Alum
GW 87 524	5 (5x16 LED)	3500 K (Ra85)	129 W	7850	Grap/Alum
GW 87 530	1 (1x16 LED)	4000 K (Ra65)	31 W	2320	Grap/Alum
GW 87 531	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap/Alum
GW 87 532	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap/Alum
GW 87 533	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap/Alum
GW 87 534	5 (5x16 LED)	4000 K (Ra65)	129 W	10620	Grap/Alum

NOTES: the versions from GW87521 to GW87534 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h).
The data refer to 530mA. LED pilot current can be set at 530/410/350 mA via a jumper or resistor.
Remote management versions available.

STREET [O3] LED - Street optic - 700 mA

Street lighting in die-cast aluminium - IP66
LED modules powered at 700 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand alone					
GW 87 410	1 (1x16 LED)	4000 K (Ra65)	39 W	3030	Grap/Alum
GW 87 411	2 (2x16 LED)	4000 K (Ra65)	71 W	5570	Grap/Alum
GW 87 412	3 (3x16 LED)	4000 K (Ra65)	102 W	8080	Grap/Alum

NOTES: The data refer to 700mA.

STREET [O3] LED - street optic - for photovoltaic systems

Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 24V dc - stand alone					
GW 87 571	2 (2x16 LED)	4000 K (Ra65)	52 W	4510	Grap/Alum

NOTES: The data refer to 530mA.

STREET [O3] LED - Cycle and pedestrian optic

Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 001	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap/Alum
GW S7 002	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap/Alum
GW S7 003	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap/Alum
GW S7 004	5 (5x16 LED)	3500 K (Ra85)	129 W	7360	Grap/Alum
GW S7 010	1 (1x16 LED)	4000 K (Ra65)	31 W	2170	Grap/Alum
GW S7 011	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap/Alum
GW S7 012	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap/Alum
GW S7 013	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap/Alum
GW S7 014	5 (5x16 LED)	4000 K (Ra65)	129 W	9960	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 021	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap/Alum
GW S7 022	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap/Alum
GW S7 023	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap/Alum
GW S7 024	5 (5x16 LED)	3500 K (Ra85)	129 W	7360	Grap/Alum
GW S7 030	1 (1x16 LED)	4000 K (Ra65)	31 W	2170	Grap/Alum
GW S7 031	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap/Alum
GW S7 032	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap/Alum
GW S7 033	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap/Alum
GW S7 034	5 (5x16 LED)	4000 K (Ra65)	129 W	9960	Grap/Alum

NOTES: the versions from GWS7021 to GWS7034 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h).
The data refer to 530mA. LED driving current can be set at 530/410/350 mA via a jumper or resistor.
Remote management versions available.

STREET [O3] LED - Cycle and pedestrian optic - 700 mA

Street lighting in die-cast aluminium - IP66
LED modules powered at 700 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand alone					
GW S7 110	1 (1x16 LED)	4000 K (Ra65)	39 W	2750	Grap/Alum
GW S7 111	2 (2x16 LED)	4000 K (Ra65)	71 W	5060	Grap/Alum
GW S7 112	3 (3x16 LED)	4000 K (Ra65)	102 W	7330	Grap/Alum

NOTES: The data refer to 700mA.

STREET [O3] LED - cycle and pedestrian optic - for photovoltaic systems

Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 24V dc - stand alone					
GW S7 071	2 (2x16 LED)	4000 K (Ra65)	52 W	4230	Grap/Alum

NOTES: The data refer to 530mA.

STREET [O3] COSMOPOLIS LED - Street optic

Street lighting in die-cast aluminium - Flat glass - IP66

Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 541	45 W	MT	PGZ-12	0.5 A	Grap/Alum
GW 87 542	60 W	MT	PGZ-12	0.65 A	Grap/Alum
GW 87 543	90 W	MT	PGZ-12	0.97 A	Grap/Alum
GW 87 544	140 W	MT	PGZ-12	1.49 A	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 552	60 W	MT	PGZ-12	0.65 A	Grap/Alum
GW 87 553	90 W	MT	PGZ-12	0.97 A	Grap/Alum
GW 87 554	140 W	MT	PGZ-12	1.49 A	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 561	45 W	MT	PGZ-12	0.5 A	Grap/Alum
GW 87 562	60 W	MT	PGZ-12	0.65 A	Grap/Alum
GW 87 563	90 W	MT	PGZ-12	0.97 A	Grap/Alum
GW 87 564	140 W	MT	PGZ-12	1.49 A	Grap/Alum

STREET [O3] MAXI LED - Street optic

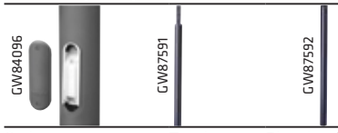
Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 801	6 (6x16 LED)	4000 K (Ra65)	160 W	14580	Grap/Alum
GW S7 802	7 (7x16 LED)	4000 K (Ra65)	185 W	17010	Grap/Alum
GW S7 803	8 (8x16 LED)	4000 K (Ra65)	209 W	19430	Grap/Alum
GW S7 804	9 (9x16 LED)	4000 K (Ra65)	233 W	21860	Grap/Alum
GW S7 805	10 (10x16 LED)	4000 K (Ra65)	258 W	24290	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 821	6 (6x16 LED)	4000 K (Ra65)	160 W	14580	Grap/Alum
GW S7 822	7 (7x16 LED)	4000 K (Ra65)	185 W	17010	Grap/Alum
GW S7 823	8 (8x16 LED)	4000 K (Ra65)	209 W	19430	Grap/Alum
GW S7 824	9 (9x16 LED)	4000 K (Ra65)	233 W	21860	Grap/Alum
GW S7 825	10 (10x16 LED)	4000 K (Ra65)	258 W	24290	Grap/Alum

NOTES: the Bi-power versions with self-learning can be configured in 3 flow reduction mode: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). The data refer to 530mA. The driving current can be set at 530 / 410 / 350 mA via a jumper or resistor.

Gewiss poles and side brackets Poles

Painted tapered poles

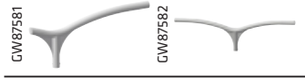


Code	Total length (m)	Planting (m)	Base diameter (mm)	Top diameter (mm)	Colour
GW 84 096	5.5	0.5	115	60	Grap grey
GW 87 591	6.8	0.8	128	60	Grap grey
GW 84 097	7.8	0.8	138	60	Grap grey
GW 87 592	8.8	0.8	148	60	Grap grey
GW 87 593	9.8	0.8	158	60	Grap grey

NOTE: painted poles in hot galvanised steel complete with a junction terminal block.

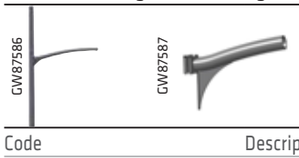
Fixing accessories

Pole head brackets - Ø 60 mm



Code	Description	Length	Colour
GW 87 581	Single pole head bracket	1 m	Grap grey
GW 87 582	Double pole head bracket	1 + 1 m	Grap grey

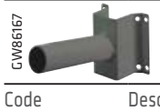
Brackets for fixing at variable heights



Code	Description	Length	Colour
GW 87 586	Long bracket	1 m	Grap grey
GW 87 587	Short bracket	0,5 m	Grap grey

NOTE: for poles with a diameter from 60 to 75 mm.

Bracket for wall-mounting



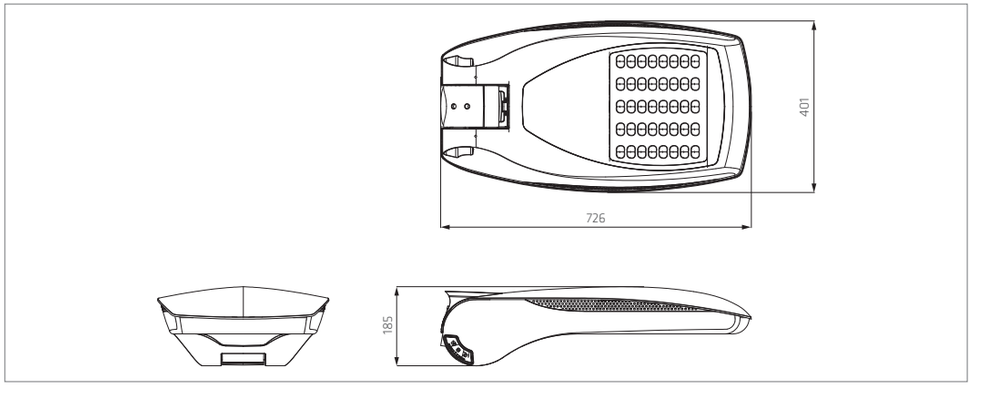
Code	Description	Outer dim. LxHxD (mm)	Colour
GW 86 167	Bracket for wall-mounting	150x160x290	Grap grey

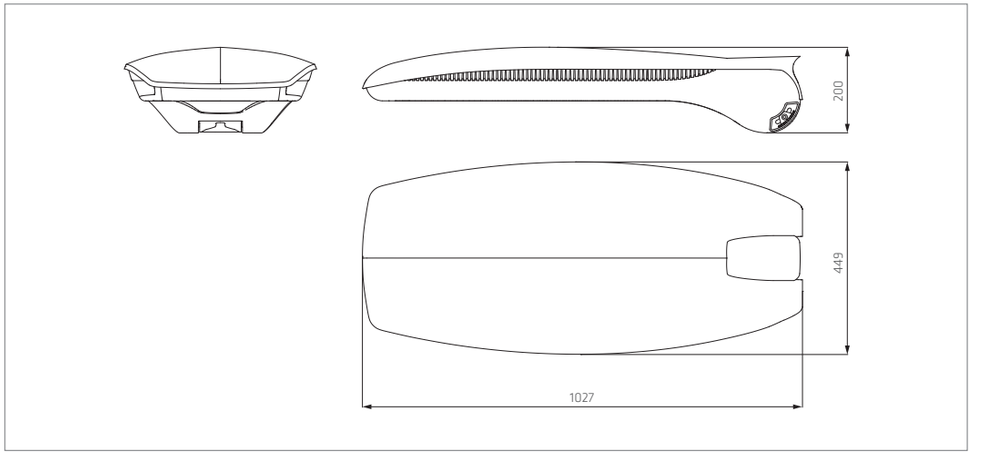
APPLICATIONS: allows the installation of the device on the wall and on 90° edges.
CHARACTERISTICS: hot galvanised steel, painted.

Colours

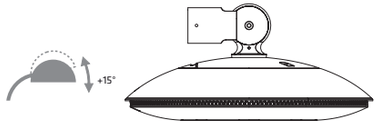
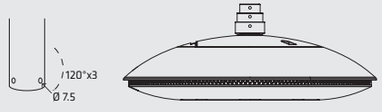
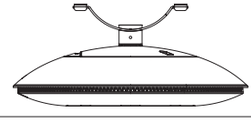
Bi-colour (G/A)

Dimensions

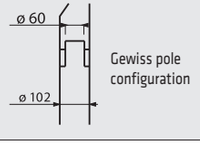
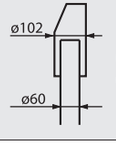




Possible compositions for systems for commercial side brackets

SIDE COUPLING	 + **Commercial side brackets**	*- min. Ø 55 mm* *- max. Ø 65 mm* 	**Notes** Complete system for coupling on commercial poles
UPPER COUPLING	 + **Commercial side brackets**	*- min. Ø 48 mm* *- max. Ø 60 mm* 	**Notes** Complete system for coupling on poles with Ø 48 mm or Ø 60 mm. Fixing of poles to the bush with three holes Ø 7.5 mm at 120°
SUSPENSION	 + **Metal ropes**	*- min. Ø 55 mm* *- max. Ø 65 mm* 	**Notes** Complete system for installation on metal ropes

Possible compositions for GEWISS side bracket systems

	 GW 87 901 / GW 87 968	+ **Single intermediate side bracket**  GW 87 986 * or GW 87 996 *	OR	**Single pole-head**  GW 87 984 * or GW 87 994 *	OR	**Double pole-head**  GW 87 985 * or GW 87 995 *	**Notes** Possibility of completing the system with Gewiss pole (Ø 60 mm)
	 GW 87 901 / GW 87 968	+ **Pastoral pole for conical pole**  GW 87 981 * or GW 87 991*	OR	**Pastoral pole for Place pole**  GW 87 982 * or GW 87 992 *			**Notes** Possibility to assemble dual side bracket solutions. (GW code x 2)
	 GW 87 901 / GW 87 968	+ **Surface-mounting pastoral pole**  GW 87 983 * or GW 87 993*					
	 GW 87 901 / GW 87 968	+ **Suspended pole head**  GW 87 987 * or GW 87 997*					**Notes**  Gewiss pole configuration  Commercial pole configuration

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

Urban [O3] - Systems for commercial side brackets - product codes

Side coupling systems
for commercial side brackets LED - Street optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 601	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 602	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 603	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 606	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 607	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 608	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 611	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 612	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 613	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 616	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 617	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 618	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 621	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 622	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 623	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 626	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 627	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 628	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 631	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 632	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 633	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 636	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 637	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 638	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTES: the versions from GW87621 to GW87638 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Side coupling systems
for commercial side brackets Led - Cycle and pedestrian optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 201	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 202	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 203	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 206	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 207	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 208	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 211	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 212	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 213	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 216	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 217	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 218	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 221	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 222	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 223	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 226	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 227	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 228	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 231	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 232	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 233	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 236	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 237	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 238	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium

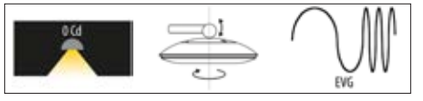
NOTE: the versions from GWS7221 to GWS7238 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Side coupling systems for commercial side brackets Led - Elliptical optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 251	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 252	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 253	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 256	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 257	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 258	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 261	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 262	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 263	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 266	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 267	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 268	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 271	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 272	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 273	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 276	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 277	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 278	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 281	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 282	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 283	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 286	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 287	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 288	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTE: the versions from GWS7271 to GWS7288 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available



Side coupling systems for commercial side brackets Cosmopolis - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66

Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 641	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 642	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 643	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 646	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 647	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 648	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 652	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 653	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 657	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 658	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 661	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 662	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 663	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 666	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 667	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 668	90 W	MT	PGZ-12	0.97 A	Aluminium

Fixing accessories

Accessories for pole fixing

Kit for fixing round bracket pole-head

Code	Description	Length	Colour
GW 87 881	Single	400 mm	Grap grey
GW 87 882	Double	800 mm	Grap grey
GW 87 891	Single	400 mm	Aluminium
GW 87 892	Double	800 mm	Aluminium

Fixing kit with variable-height round side bracket

Code	Description	Length	Colour
GW 87 883	Single intermediate	400 mm	Grap grey
GW 87 884	PLACE pole single intermediate	400 mm	Grap grey
GW 87 893	Single intermediate	400 mm	Aluminium
GW 87 894	PLACE pole single intermediate	400 mm	Aluminium

Accessories for surface-mounting

Kit for surface-mounting

Code	Description	Length	Colour
GW 87 885	Wall-fixing bracket	450 mm	Grap grey
GW 87 895	Wall-fixing bracket	450 mm	Aluminium

Systems for commercial side brackets with top connection LED - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 701	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 702	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 703	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 706	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 707	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 708	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 711	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 712	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 713	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 716	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 717	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 718	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 721	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 722	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 723	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 726	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 727	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 728	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 731	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 732	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 733	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 736	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 737	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 738	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTES: the versions from GW87721 to GW87738 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Systems for commercial
side brackets with top connection Led - Cycle and pedestrian optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 301	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 302	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 303	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 306	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 307	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 308	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 311	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 312	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 313	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 316	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 317	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 318	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 321	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 322	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 323	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 326	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 327	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 328	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 331	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 332	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 333	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 336	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 337	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 338	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium

NOTE: the versions from GWS7321 to GWS7338 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Systems for commercial
side brackets with top connection Led - Elliptical optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 351	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 352	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 353	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 356	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 357	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 358	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 361	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 362	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 363	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 366	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 367	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 368	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 371	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 372	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 373	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 376	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 377	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 378	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 381	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 382	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 383	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 386	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 387	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 388	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTE: the versions from GWS7371 to GWS7388 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Urban [O3] - Systems for commercial side brackets - product codes

Systems for commercial side brackets with top connection Cosmopolis - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66

Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 741	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 742	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 743	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 746	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 747	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 748	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 752	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 753	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 757	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 758	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 761	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 762	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 763	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 766	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 767	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 768	90 W	MT	PGZ-12	0.97 A	Aluminium

Systems for steel cable

LED - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 801	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 802	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 803	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 806	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 807	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 808	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 811	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 812	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 813	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 816	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 817	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 818	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 821	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 822	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 823	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 826	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 827	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 828	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 831	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 832	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 833	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 836	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 837	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 838	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTES: the versions from GW87821 to GW87838 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Systems for steel cable

Led - Cycle and pedestrian optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 401	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 402	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 403	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 406	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 407	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 408	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 411	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 412	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 413	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 416	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 417	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 418	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 421	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 422	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 423	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 426	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 427	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 428	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 431	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 432	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 433	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 436	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 437	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 438	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium

NOTE: the versions from GWS7421 to GWS7438 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Systems for steel cable

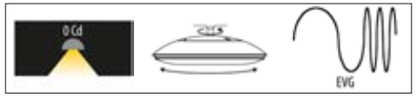
Led - Elliptical optics

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 451	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 452	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 453	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 456	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 457	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 458	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 461	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 462	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 463	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 466	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 467	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 468	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 471	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 472	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 473	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 476	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 477	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 478	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 481	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 482	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 483	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 486	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 487	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 488	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTE: the versions from GWS7471 to GWS7488 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Urban [O3] - Systems for steel cable - product codes



Systems for steel cable

Cosmopolis - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66

Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 841	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 842	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 843	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 846	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 847	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 848	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 852	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 853	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 857	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 858	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 861	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 862	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 863	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 866	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 867	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 868	90 W	MT	PGZ-12	0.97 A	Aluminium

Systems for Gewiss side brackets

LED - Street optics

LED-operated device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 901	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 902	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 903	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 906	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 907	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 908	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 911	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 912	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 913	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 916	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 917	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 918	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 921	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 922	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 923	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 926	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 927	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 928	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 931	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 932	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 933	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 936	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 937	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 938	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NB: to be completed with the accessories of the "Gewiss poles and side brackets" section.
NOTES: the versions from GW87921 to GW87938 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available.

Systems for Gewiss side brackets

Led - Cycle and pedestrian optic

LED-operated device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 501	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 502	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 503	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 506	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 507	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 508	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 511	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 512	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 513	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 516	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 517	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 518	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 521	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 522	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 523	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 526	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 527	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 528	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 531	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 532	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 533	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 536	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 537	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 538	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium

NB: to be completed with the accessories of the "Gewiss poles and side brackets" section.
NOTES: the versions from GWS7521 to GWS7538 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available.

Systems for Gewiss side brackets

Led - Elliptical optic

LED-operated device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 551	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 552	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 553	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 556	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 557	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 558	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 561	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 562	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 563	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 566	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 567	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 568	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 571	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 572	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 573	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 576	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 577	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 578	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 581	2 (2x16 LED)	3500 K (Ra85)	54 W	4510	Aluminium
GW S7 582	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 583	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 586	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 587	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 588	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NB: to be completed with the accessories of the "Gewiss poles and side brackets" section.
NOTES: the versions from GWS7571 to GWS7588 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available.

Systems for Gewiss side brackets

Cosmopolis - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66

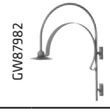
Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 941	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 942	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 943	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 946	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 947	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 948	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 952	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 953	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 957	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 958	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 961	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 962	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 963	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 966	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 967	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 968	90 W	MT	PGZ-12	0.97 A	Aluminium

NB: to be completed with the accessories of the "Gewiss poles and side brackets" section.

Gewiss poles and side brackets

Fixing accessories

Kit for pastoral pole

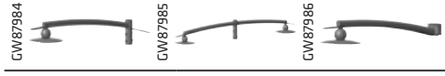


Code	Description	Colour
GW 87 981	Conical pole fixing	Grap grey
GW 87 982	PLACE pole fixing	Grap grey
GW 87 991	Conical pole fixing	Aluminium
GW 87 992	PLACE pole fixing	Aluminium

Pastoral pole kit for surface-mounting

Code	Description	Colour
GW 87 983	Wall fixing	Grap grey
GW 87 993	Wall fixing	Aluminium

Pole-head kit with flat side bracket for conical poles



Code	Description	Length	Colour
GW 87 984	Single	1000 mm	Grap grey
GW 87 985	Double	2000 mm	Grap grey
GW 87 986	Single intermediate	1000 mm	Grap grey
GW 87 994	Single	1000 mm	Aluminium
GW 87 995	Double	2000 mm	Aluminium
GW 87 996	Single intermediate	1000 mm	Aluminium

Suspended pole-head kit for cylindrical poles

Code	Description	Colour
GW 87 987	Single	Grap grey
GW 87 997	Single	Aluminium

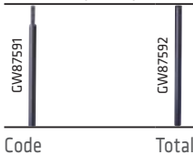
Poles

Painted cylindrical poles

Code	Total length (m)	Planting (m)	Base diameter (mm)	Top diameter (mm)	Colour
GW 87 691	4	0.5	102	60	Grap grey
GW 87 692	4.5	0.5	102	60	Grap grey
GW 87 696	4	0.5	102	60	Aluminium
GW 87 697	4.5	0.5	102	60	Aluminium

NOTE: painted poles in hot galvanised steel complete with a junction terminal block

Painted tapered poles



Code	Total length (m)	Planting (m)	Base diameter (mm)	Top diameter (mm)	Colour
GW 87 591	6.8	0.8	128	60	Grap grey
GW 87 592	8.8	0.8	148	60	Grap grey
GW 87 593	9.8	0.8	158	60	Grap grey
GW 87 596	6.8	0.8	128	60	Aluminium
GW 87 597	8.8	0.8	148	60	Aluminium
GW 87 598	9.8	0.8	158	60	Aluminium

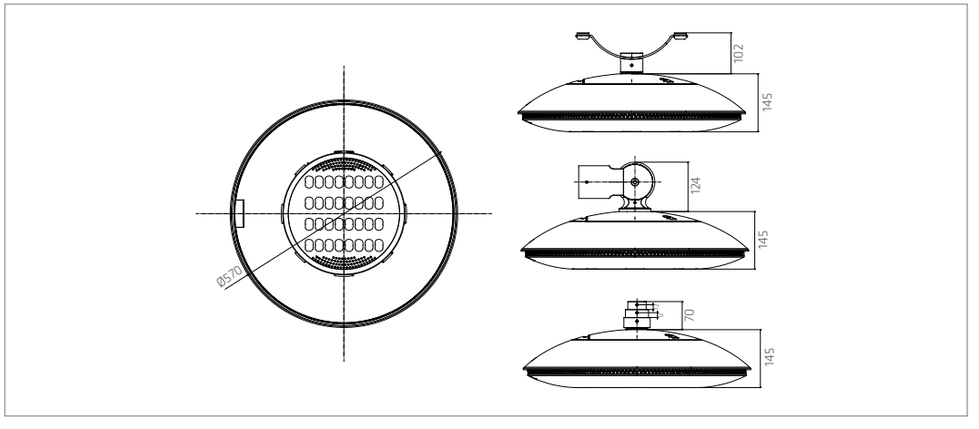
NOTE: painted poles in hot galvanised steel complete with a junction terminal block.

Colours

Aluminium (A)

Graphite grey (G)

Dimensions



GEWISS

LIGHT UP THE FUTURE.

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Sole Shareholder company - Bergamo Register of Companies/ VAT / Tax code (IT) 00385040167 - REA 107496
Share Capital 60,000,000.00 EUR fully paid up

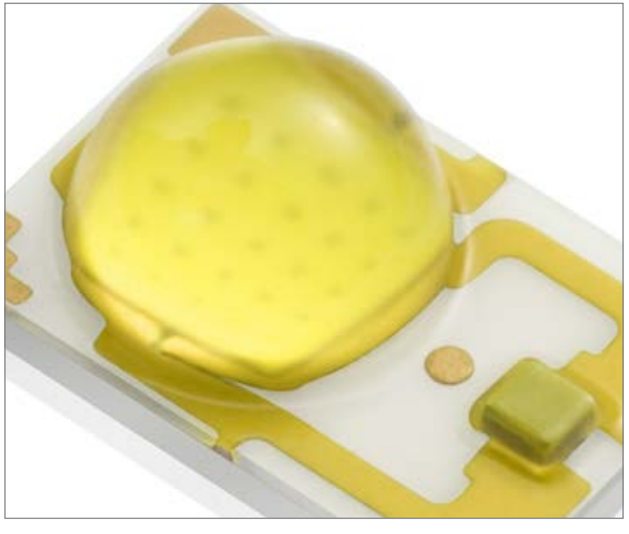
PB 22280 EN - 03.14

INNOVATIVE SOLUTIONS
FOR GLOBAL LIGHTING

TRADITIONAL TECHNOLOGY EMERGENCY LED TECHNOLOGY

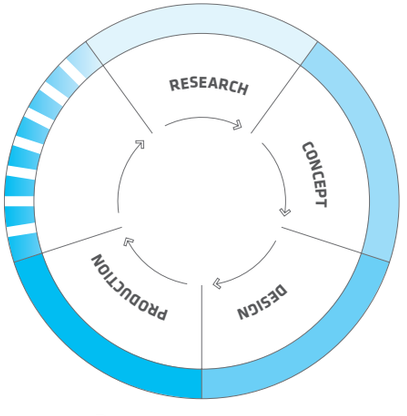
GEWISS was founded forty years ago and since its first day of operation, research into quality and development of exceptional solutions have been the values that have guided every action and every decision. Over the years, this philosophy and mission toward innovation have shaped a company model based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

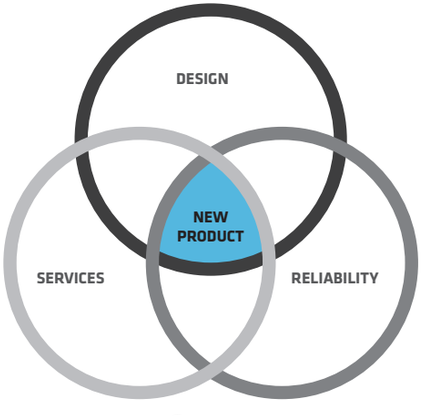


1. Concept and Design

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.



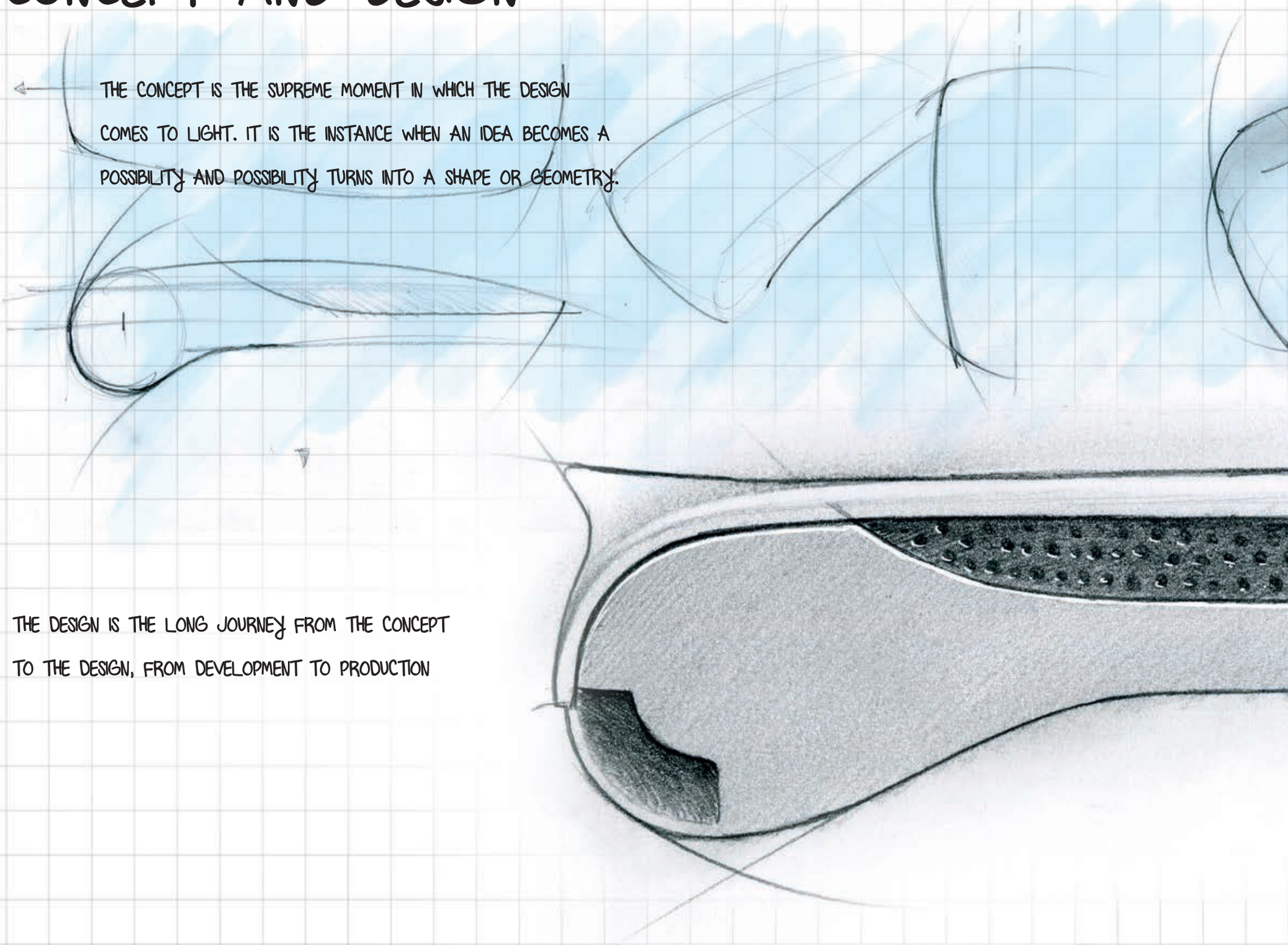
Design process



Concept

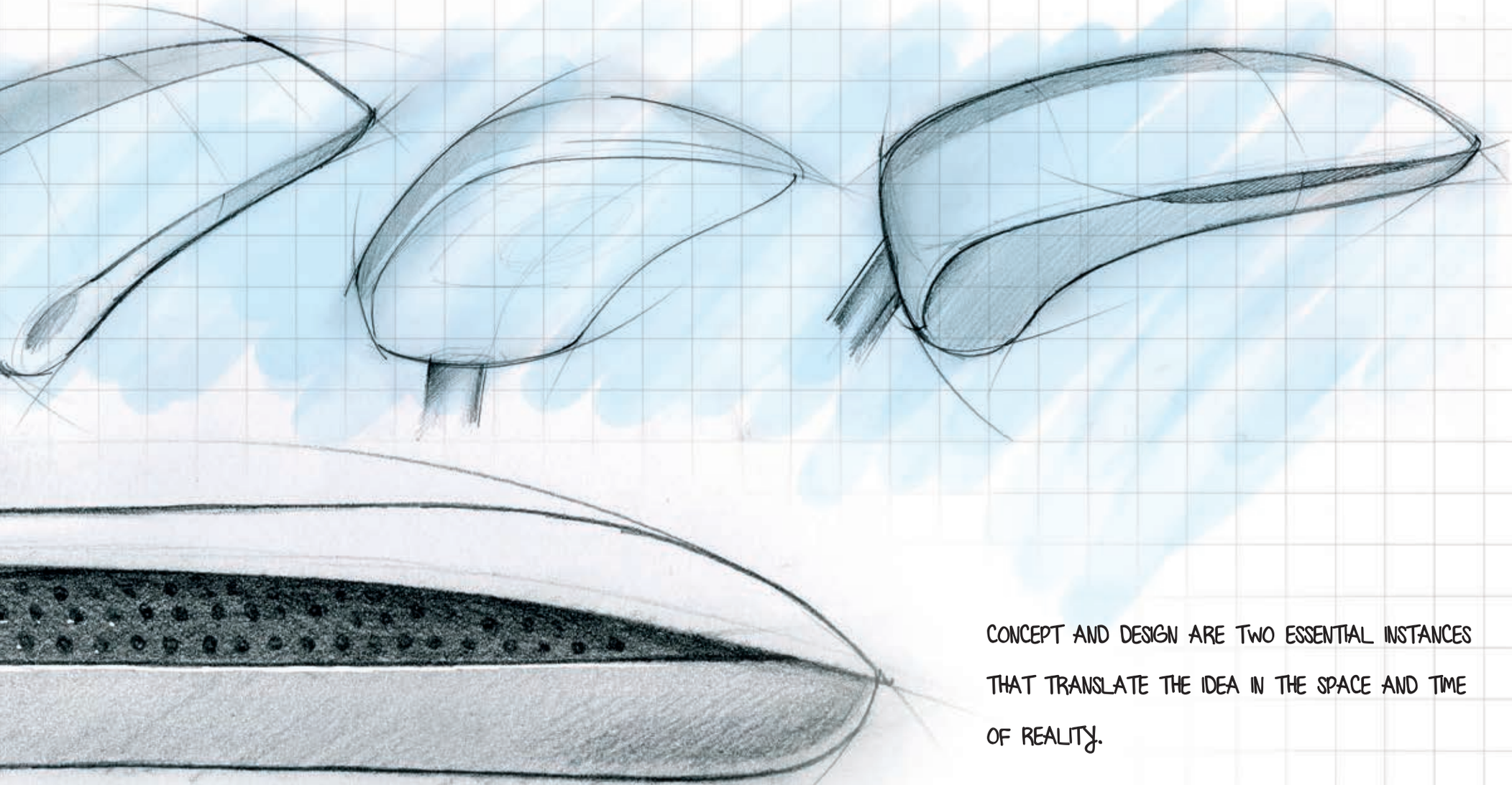
CONCEPT AND DESIGN

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.



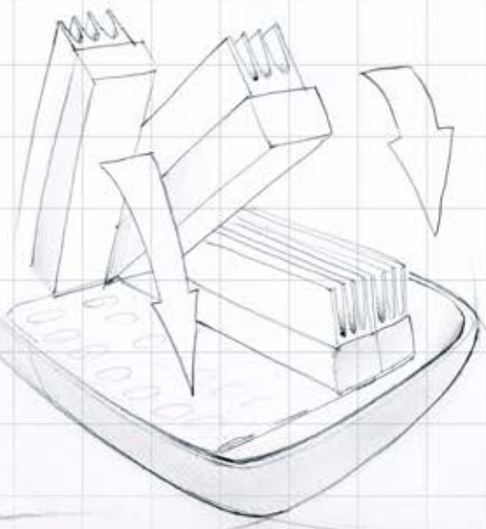
THE DESIGN IS THE LONG JOURNEY FROM THE CONCEPT TO THE DESIGN, FROM DEVELOPMENT TO PRODUCTION

STREET [03] RANGE



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

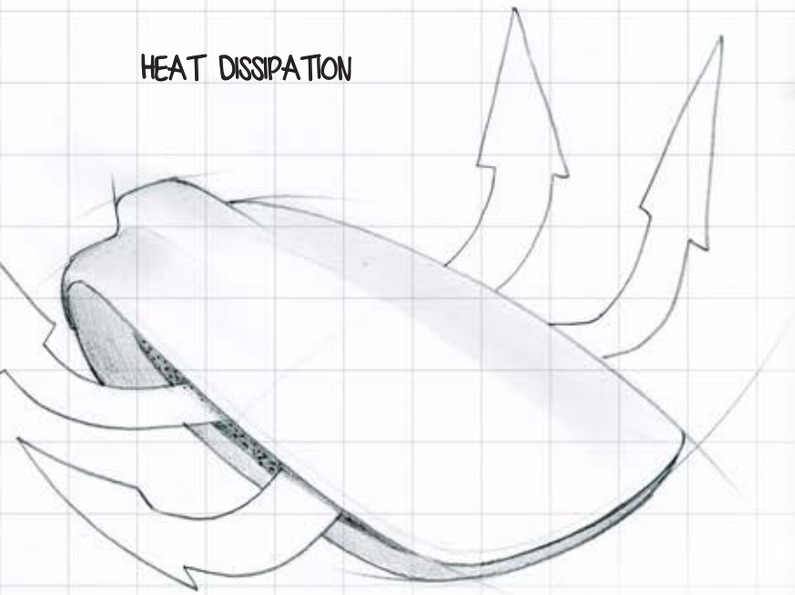
INTERCHANGEABILITY LED MOTOR/COSMOPOLIS



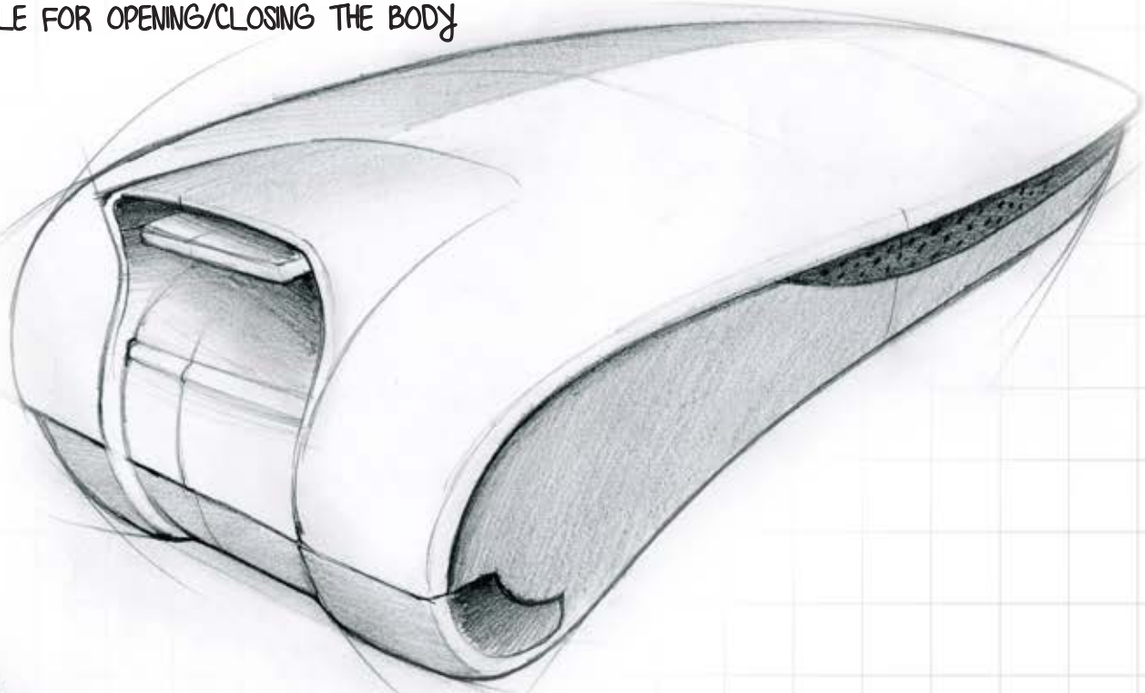
MODULARITY

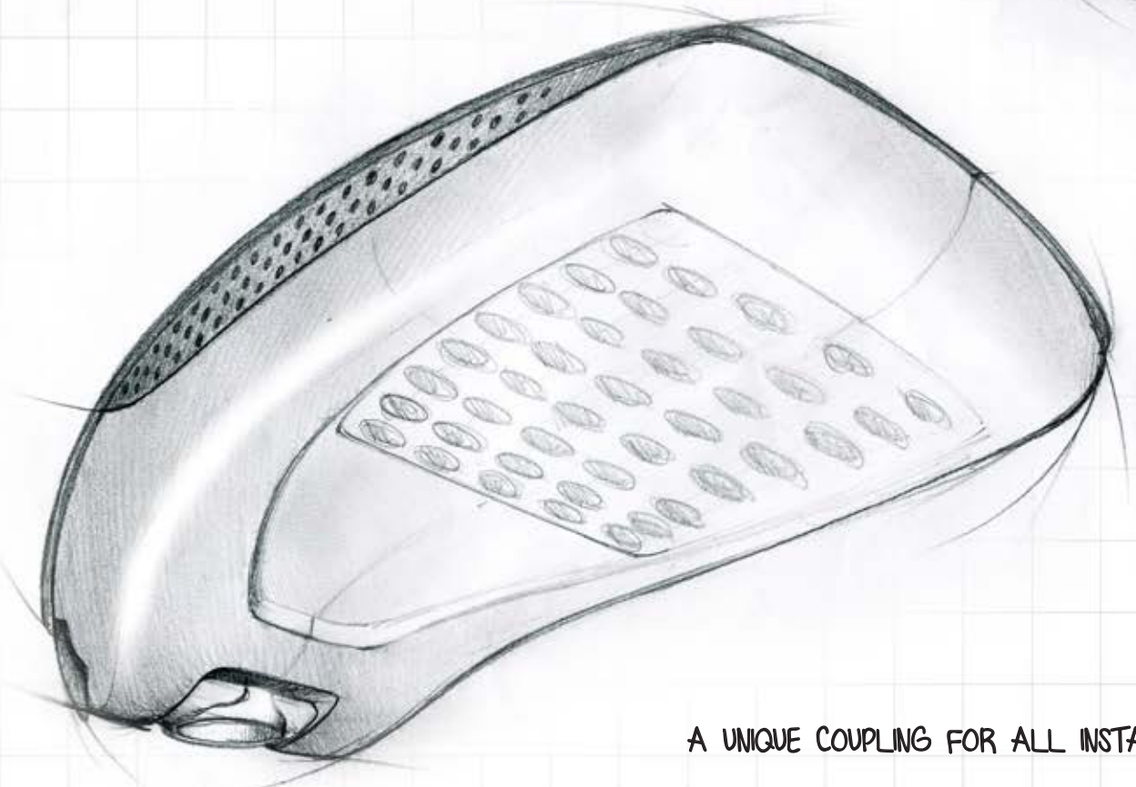
TOP CLOSURE MEMBRANE

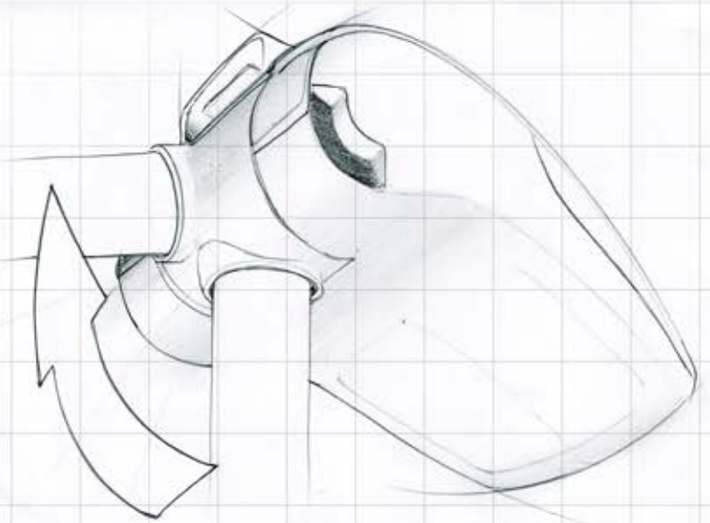
HEAT DISSIPATION



HANDLE FOR OPENING/CLOSING THE BODY

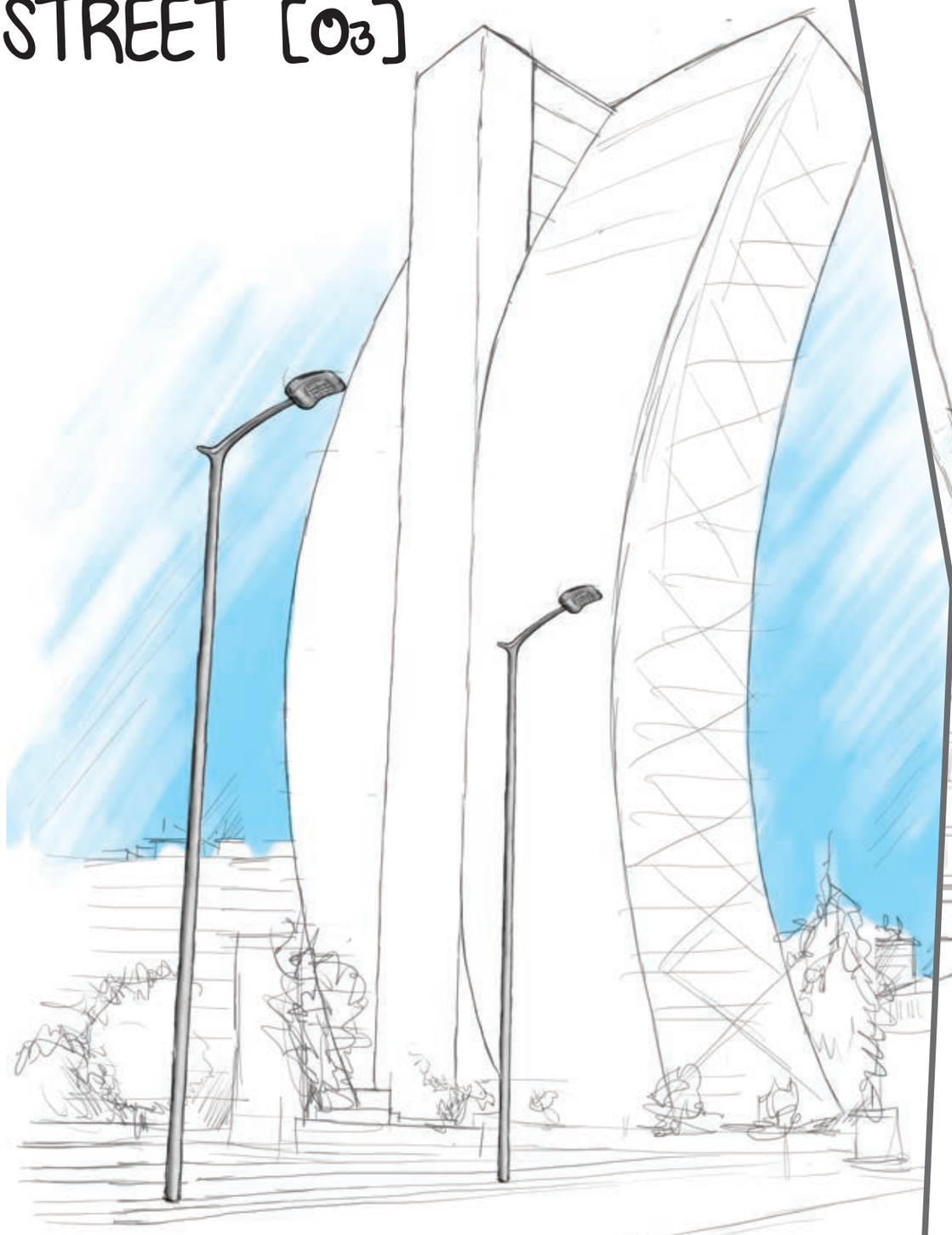




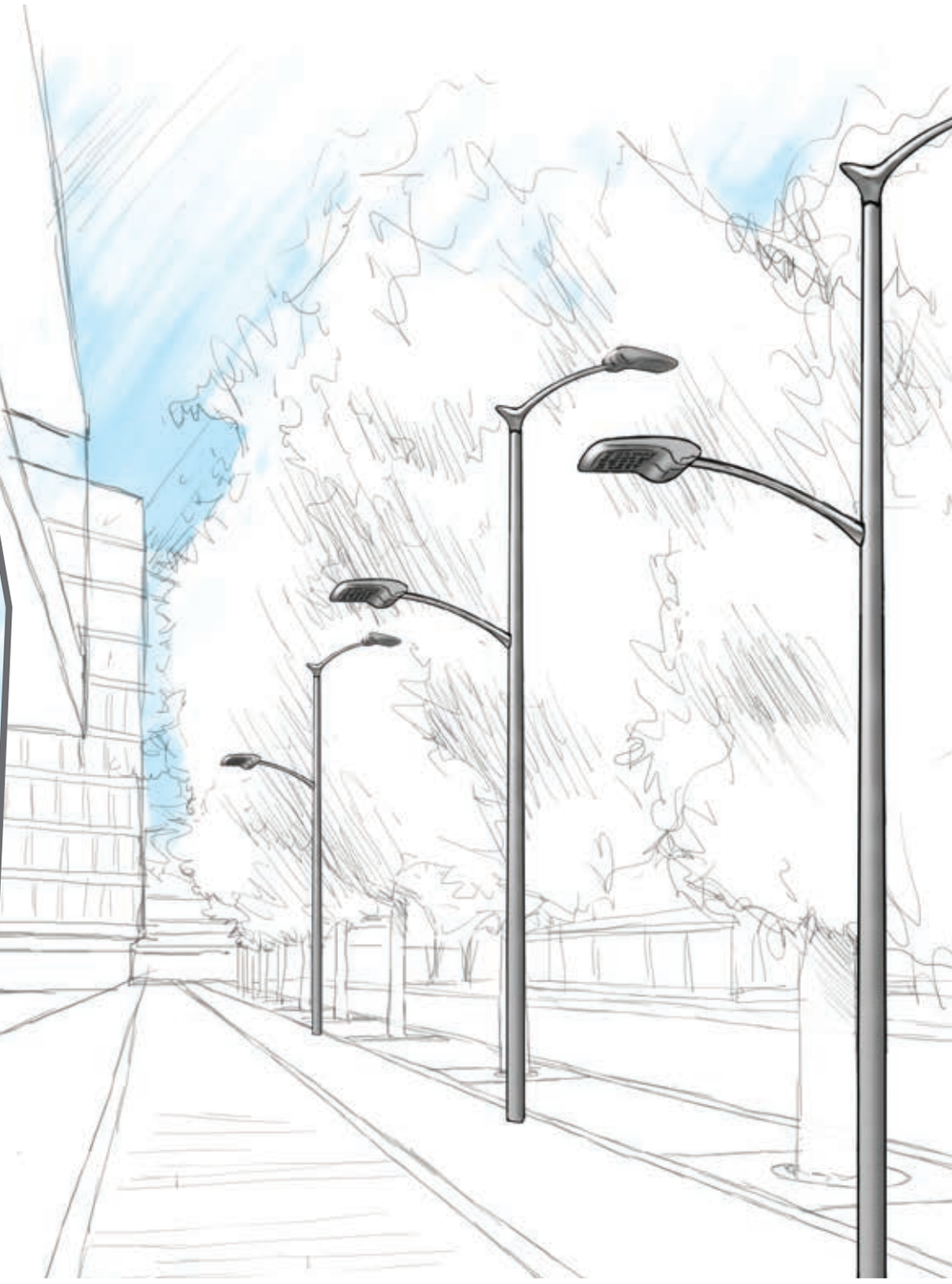


A UNIQUE COUPLING FOR ALL INSTALLATIONS

STREET [03]



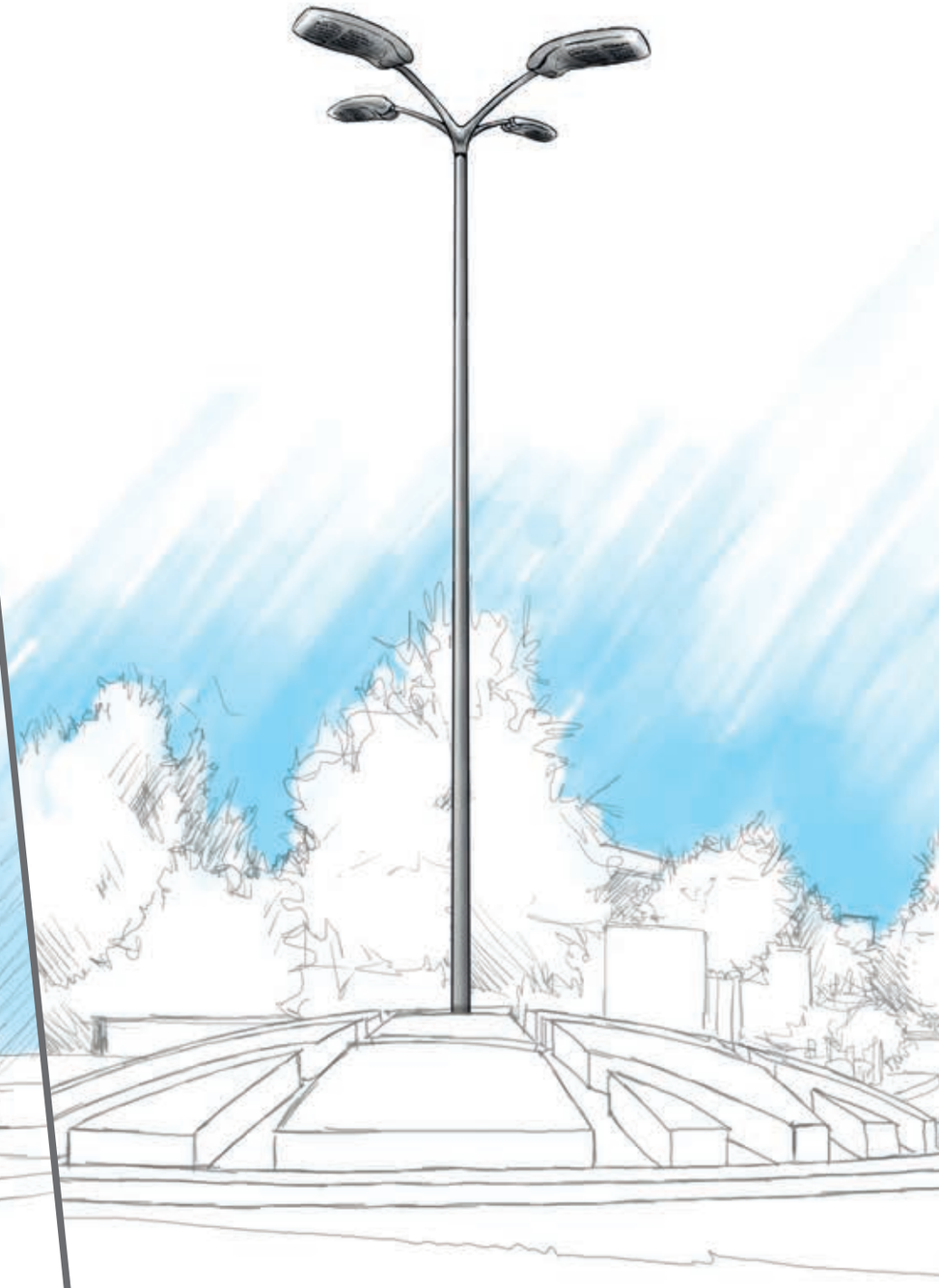
URBAN STREET



NEIGHBOURHOOD STREET

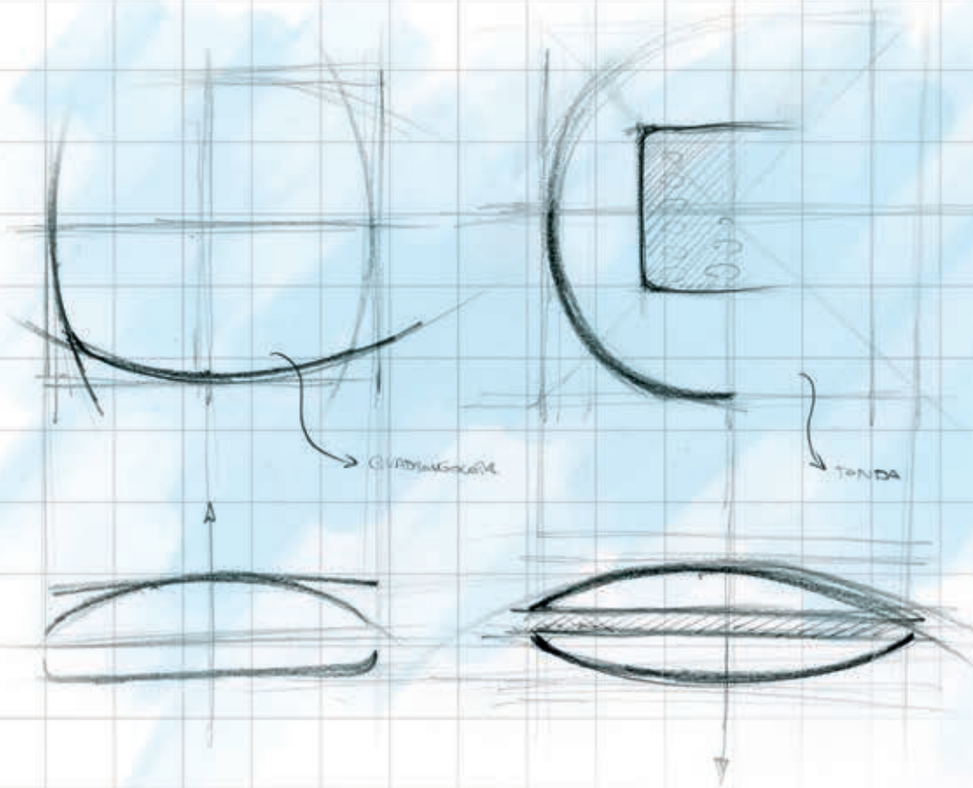
STREET [03] MAXI

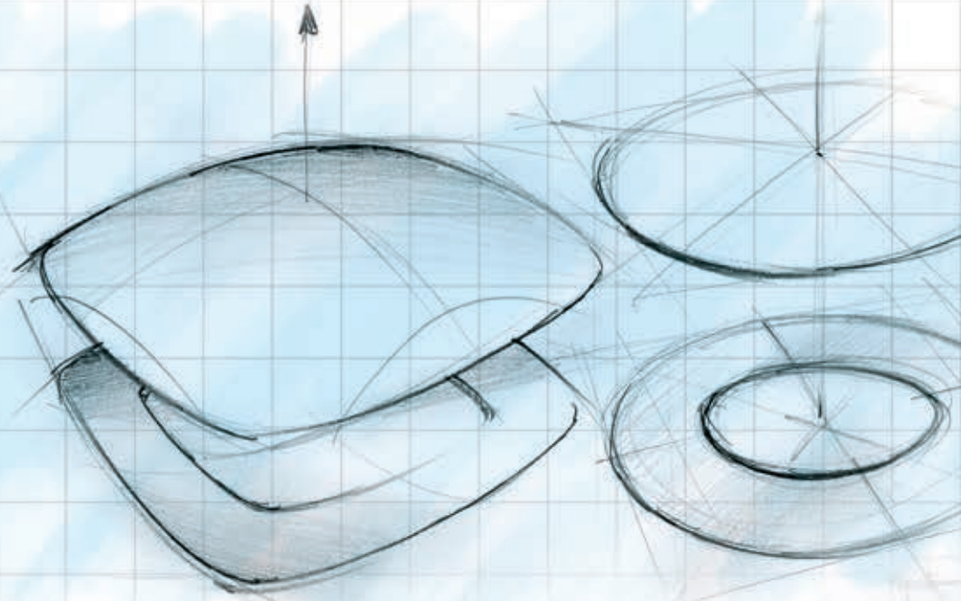
SUBURBAN STREET



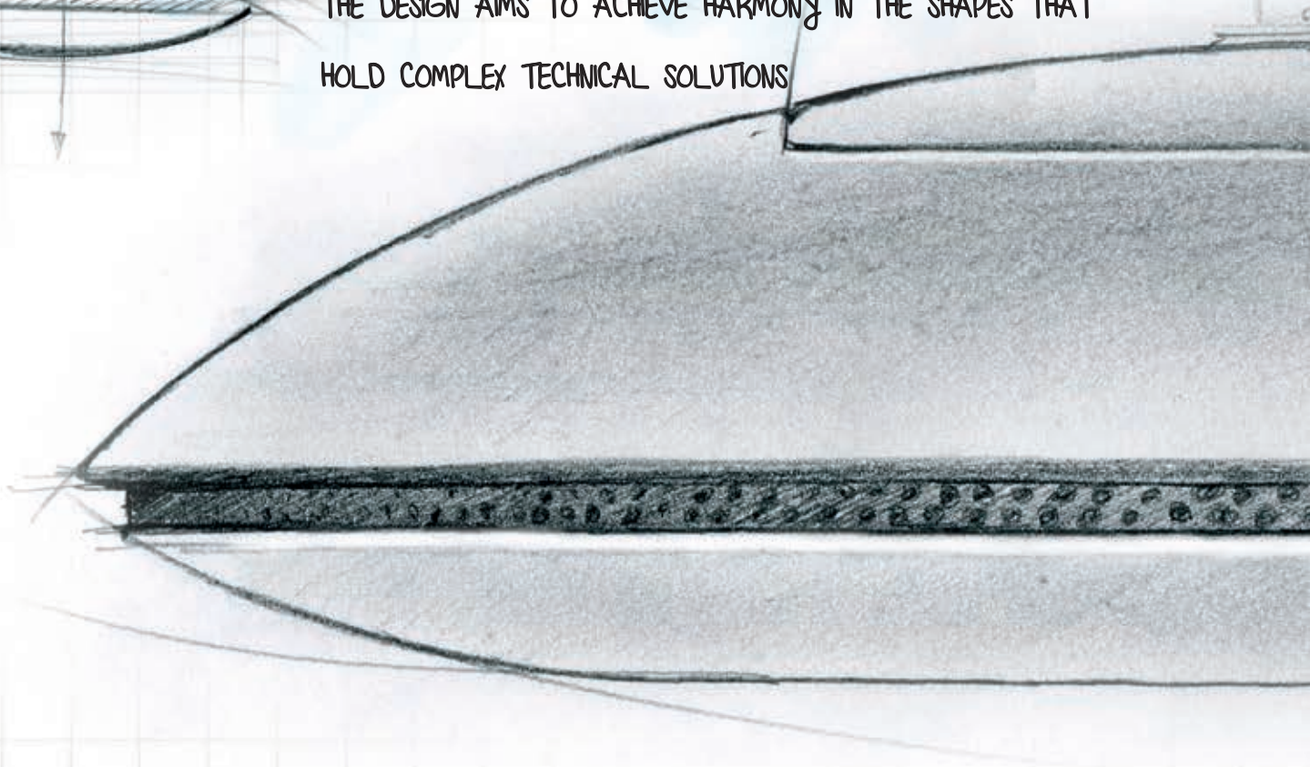
ROUNDABOUT

CONCEPT AND DESIGN



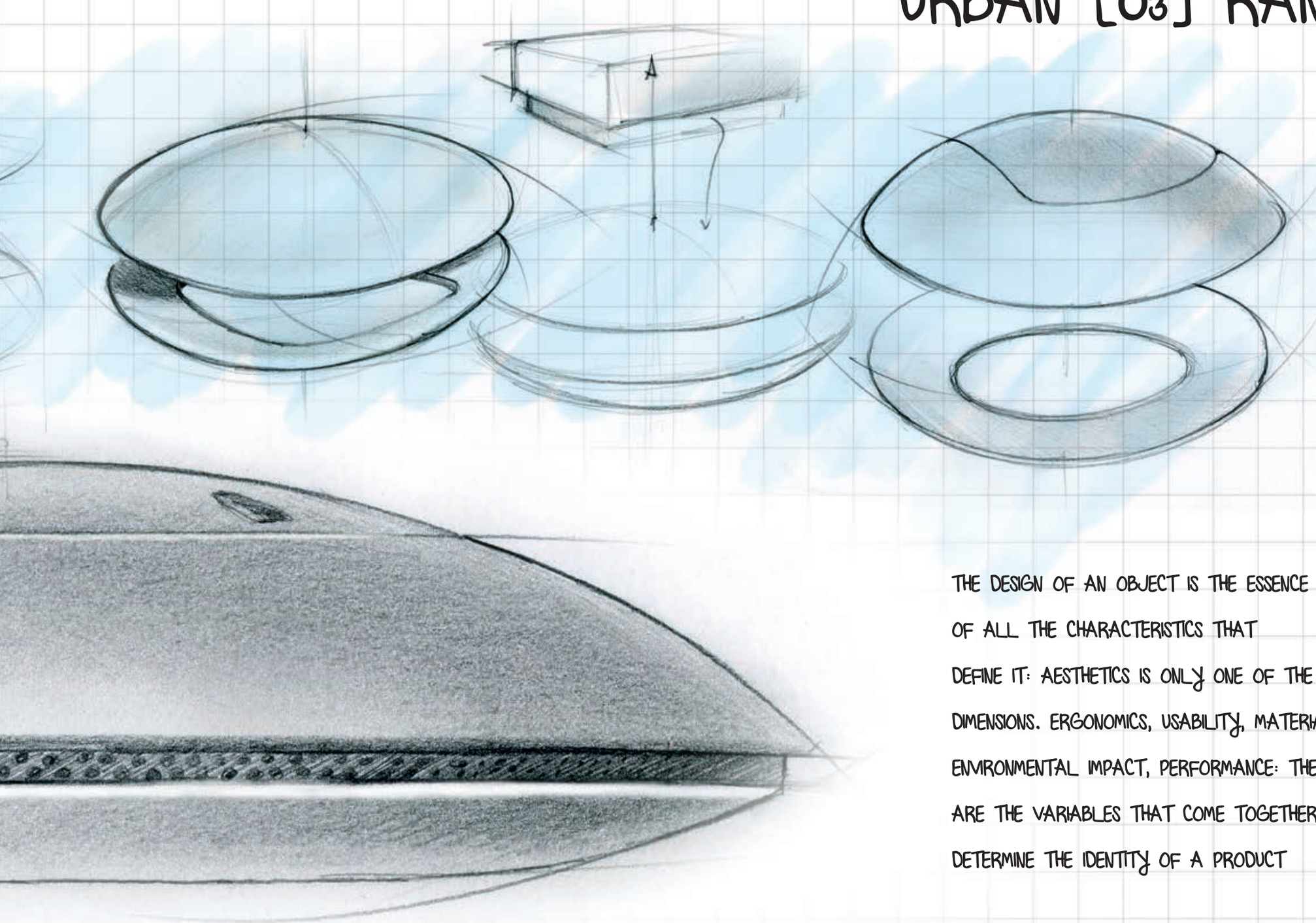


THE DESIGN AIMS TO ACHIEVE HARMONY IN THE SHAPES THAT HOLD COMPLEX TECHNICAL SOLUTIONS

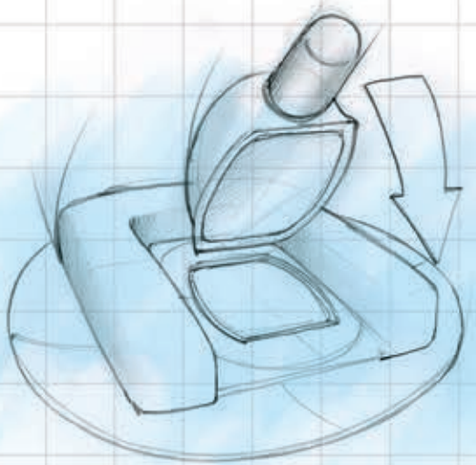


BEAUTY IS THE BALANCE THAT ARISES FROM THE PROPORTION, THE PSYCHOLOGICAL OUTLINE OF A SHAPE THAT SPEAKS TO THE SPACE WHERE IT LIVES

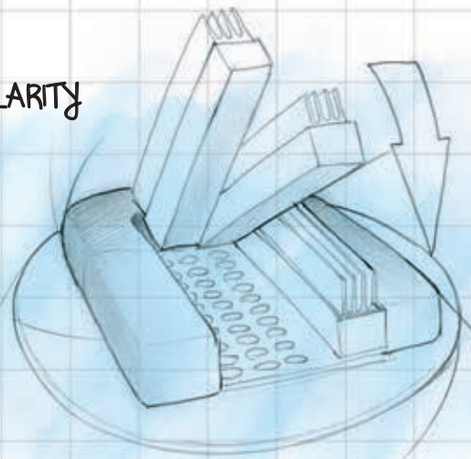
URBAN [03] RANGE

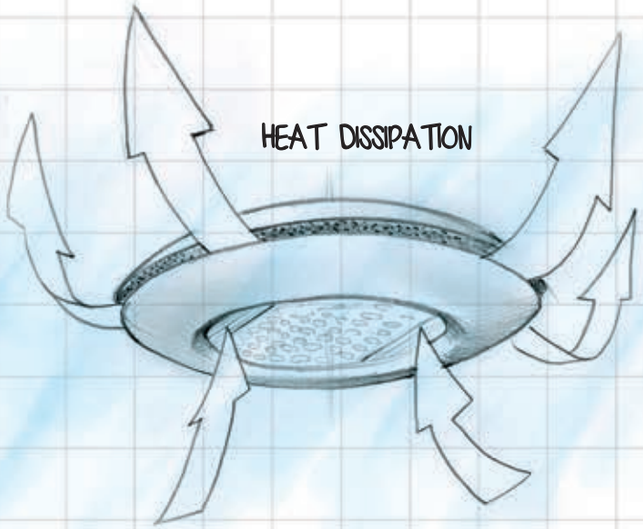


THE DESIGN OF AN OBJECT IS THE ESSENCE OF ALL THE CHARACTERISTICS THAT DEFINE IT: AESTHETICS IS ONLY ONE OF THE DIMENSIONS. ERGONOMICS, USABILITY, MATERIALS, ENVIRONMENTAL IMPACT, PERFORMANCE: THESE ARE THE VARIABLES THAT COME TOGETHER TO DETERMINE THE IDENTITY OF A PRODUCT



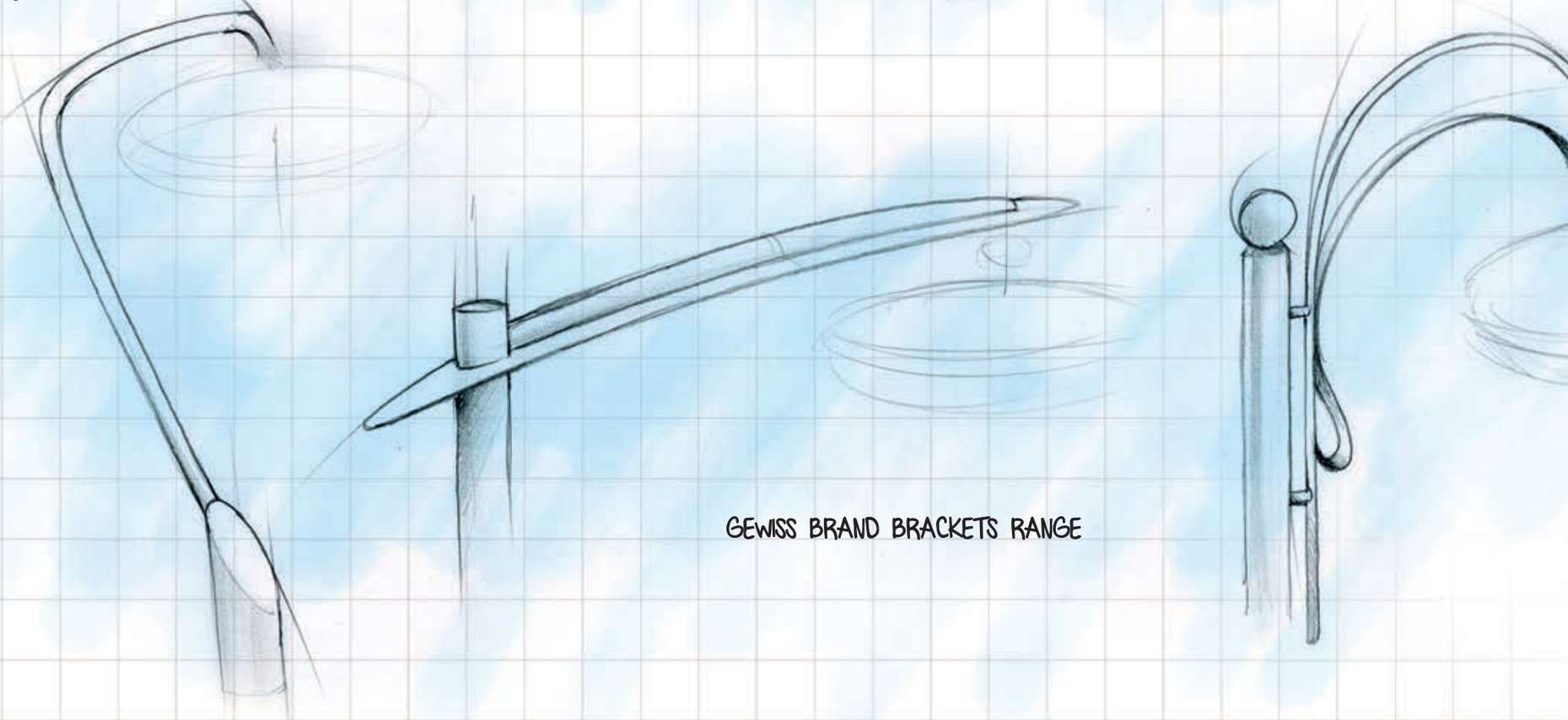
MODULARITY





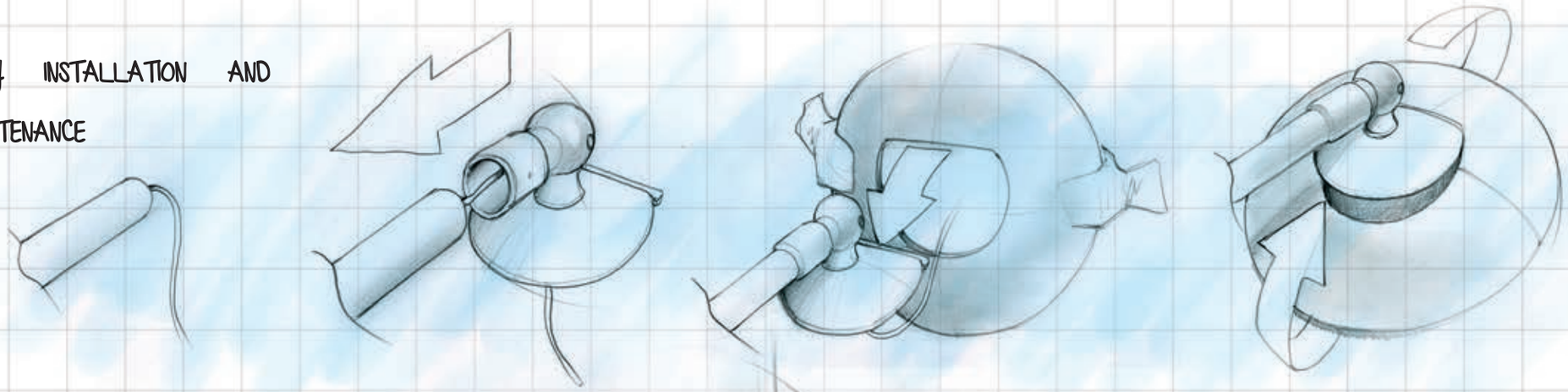
HEAT DISSIPATION

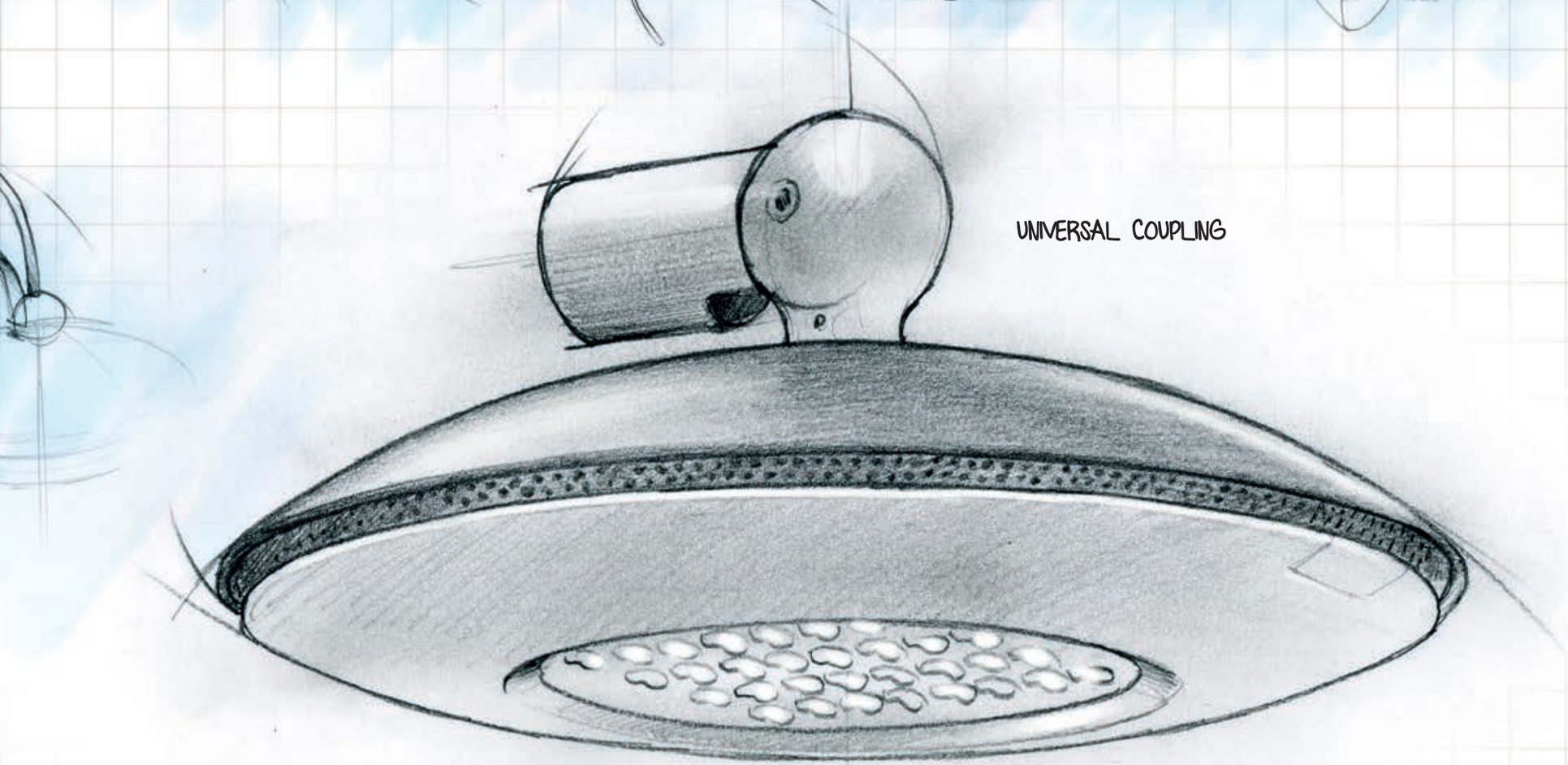
INTERCHANGEABILITY LED MOTOR/COSMOPOLIS



GEWISS BRAND BRACKETS RANGE

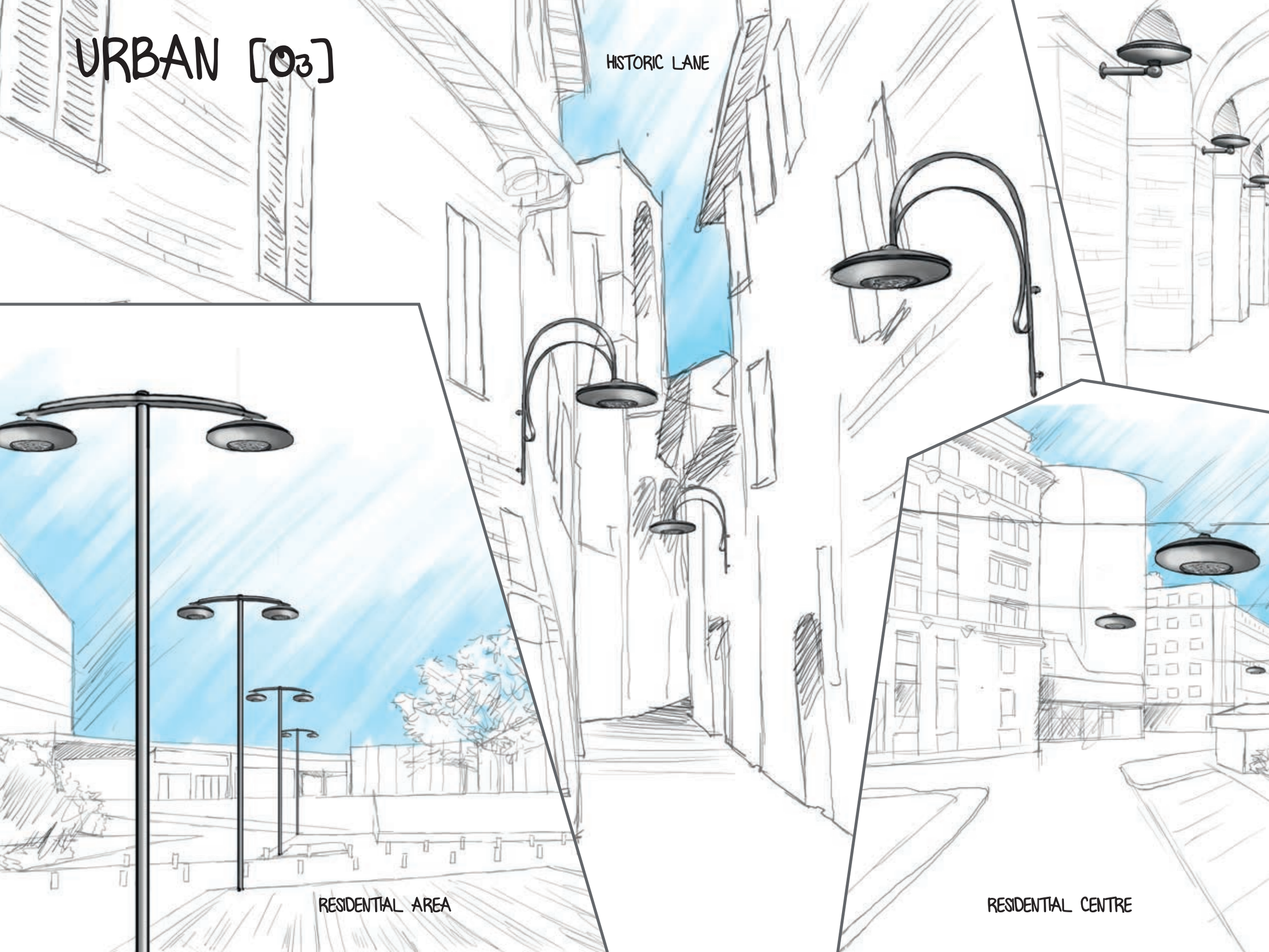
EASY INSTALLATION AND MAINTENANCE





UNIVERSAL COUPLING

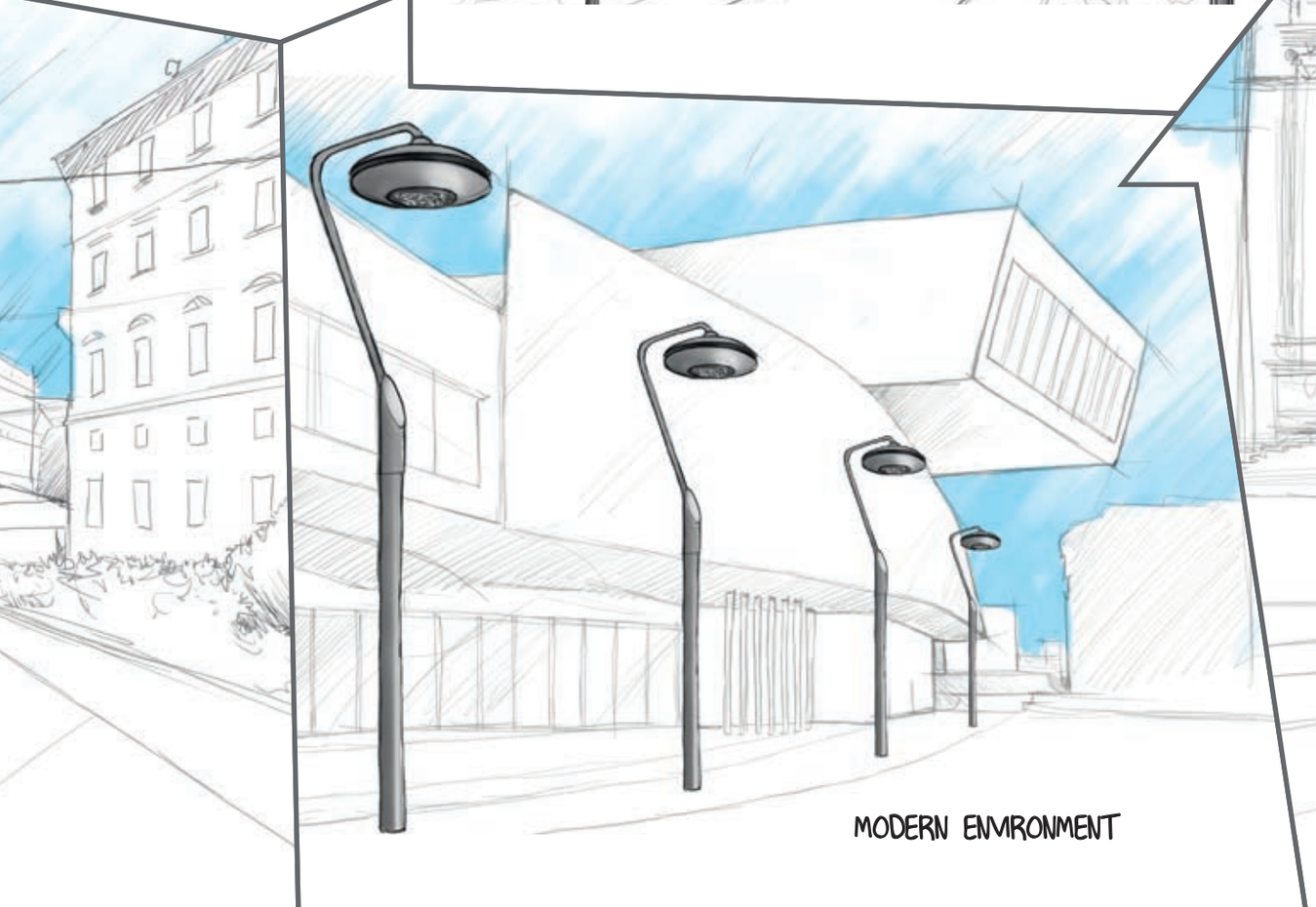
URBAN [03]



URBAN [03]

COLONNADE

PEDESTRIAN AREA



MODERN ENVIRONMENT

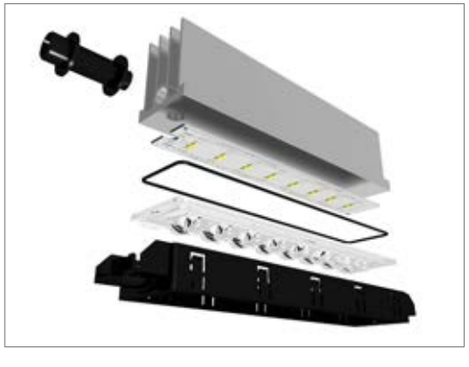
MONUMENTAL ENVIRONMENT

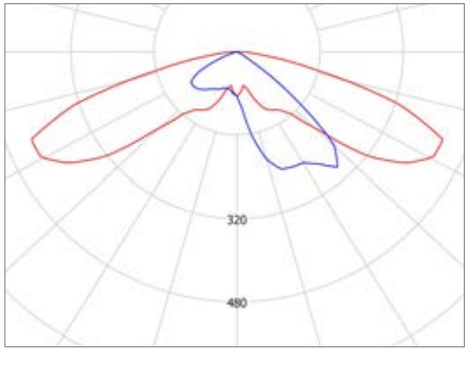
2. Light technologies

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.

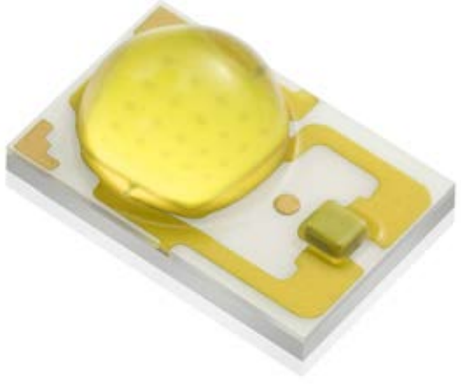
To translate a discovery into an innovation, you need to translate knowledge into action and viceversa: the experience and know-how accrued by GEWISS in its more than twenty years of history take shape in products and solutions that adopt the most advanced lighting technologies to offer lighting solutions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






A VITTORIO EMANUELE II I MILANESI
GRIMOLDI

White light sources: LED



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 (CO2). 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.

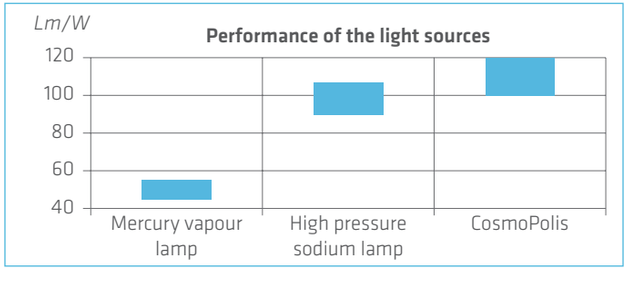
Cosmopolis

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.

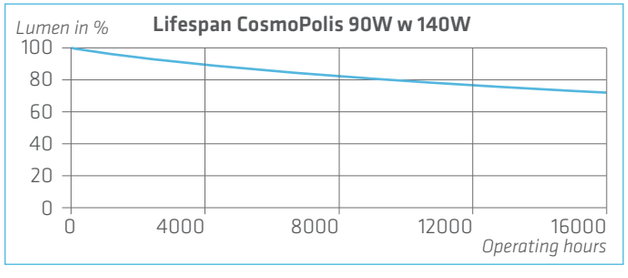
The advantages of Cosmopolis light sources

• **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.

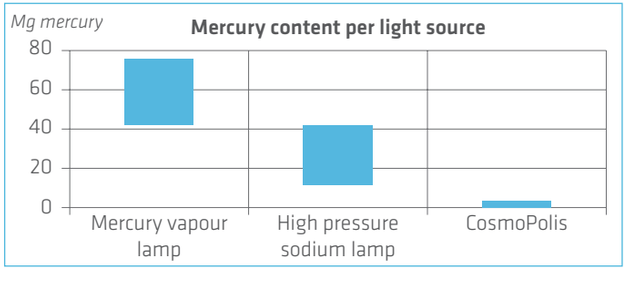
• **energy efficiency;** the recent technological advancements make it possible to obtain high energy performance reaching 120 lm/W.



• **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.



[O3]

Technology by Gewiss

Optimised Optical Output

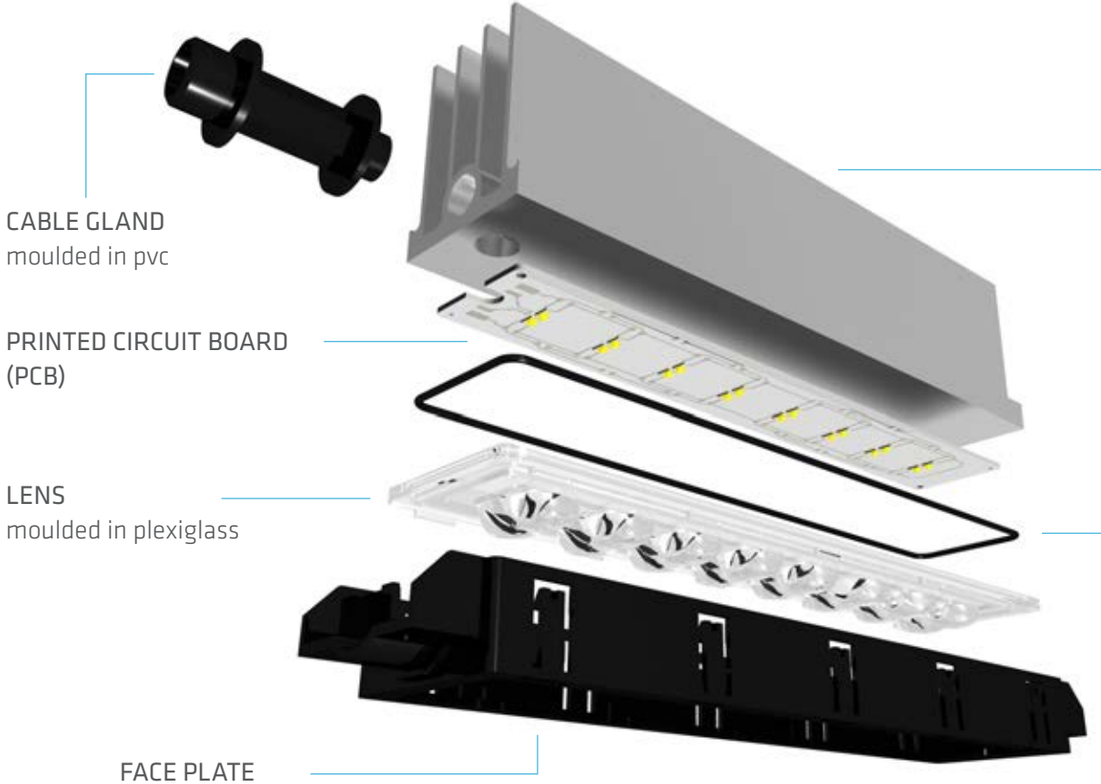
At the heart of the GEWISS product range:
an efficient and high performing optical system,
an essential tool to manage the potential
offered by LED sources

what it is	objective	advantages
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.*	*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, [O3] Technology can solve distribution problems of the luminous flux for street lighting fixtures.*	*"Software free" optical system guarantees the correct lighting for every type of street.*

LED motor

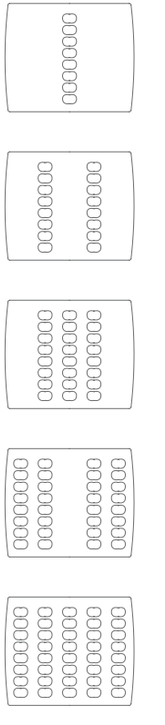
Design of the LED motor

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.

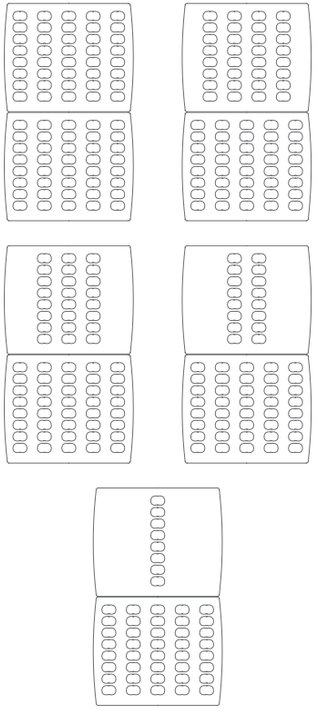


Modularity

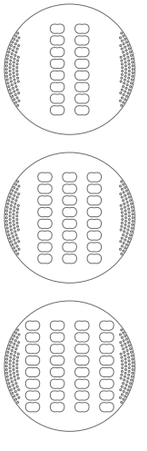
Gewiss devices are built using a modular system of light bars that can be added or removed to obtain the desired luminous flux.



[03] Street
Combinations of modules



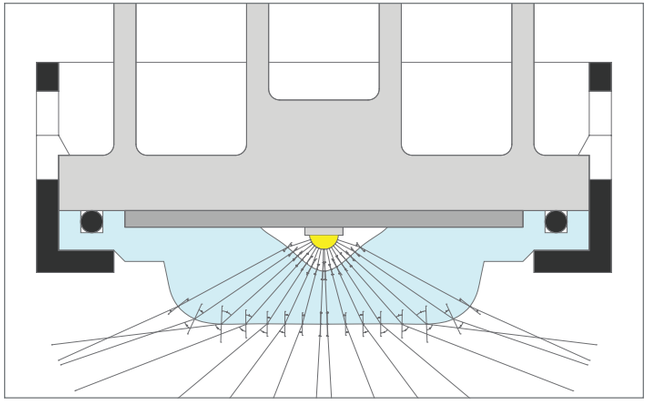
[03] Street Maxi
Combinations of modules

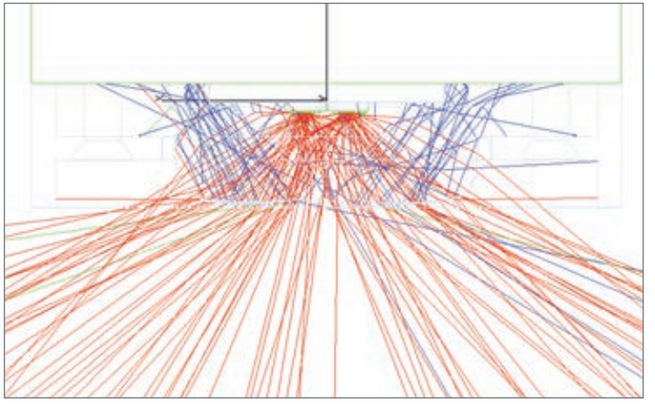


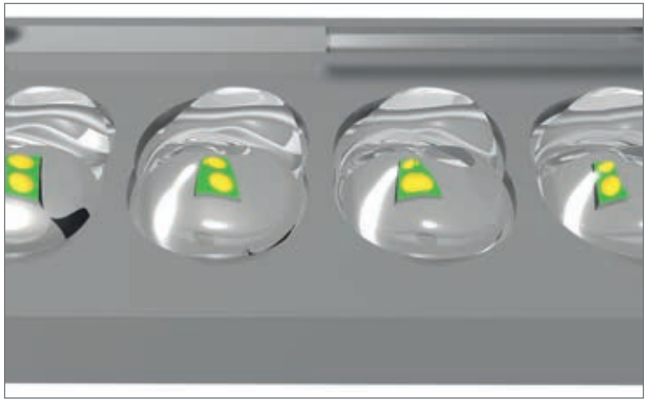
[03] Urban
Combinations of modules

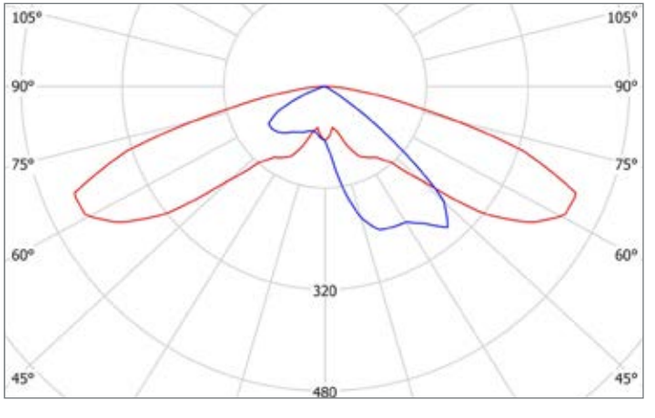
Lens design

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.



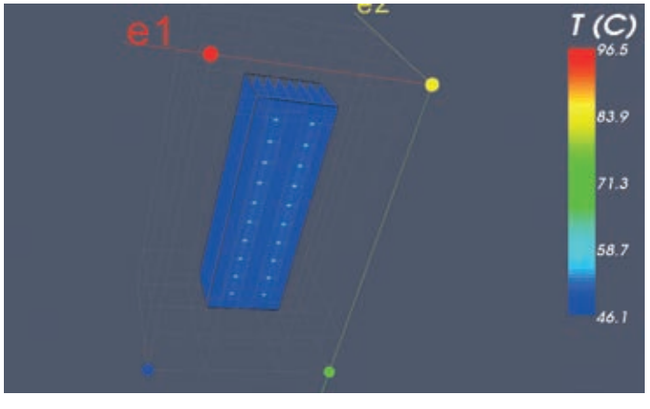






Dissipator Design

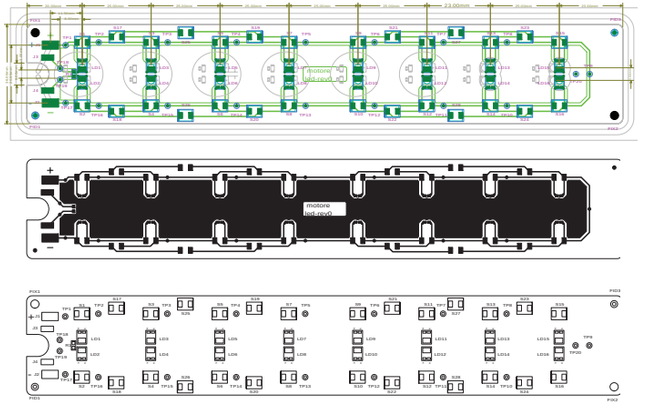
If not dissipated properly, the heat produced during operation of the LED chip can lead to an alteration of the quantitative and qualitative performance, including luminous efficiency, average lifespan, and the spectral emission. Gewiss has decided to create a dissipator in aluminium that is sized in 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.

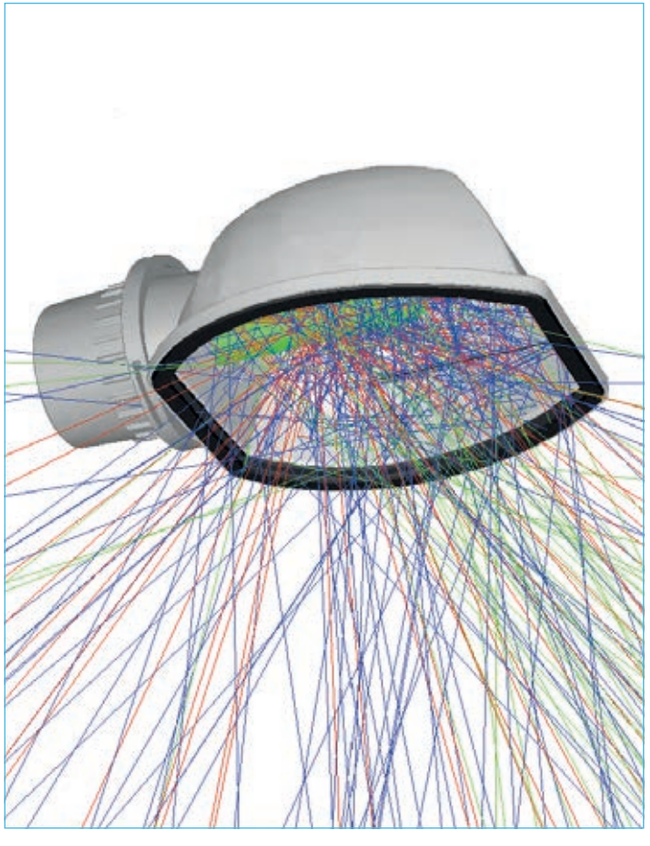
In any event, to ensure a longer service life, Gewiss has also mounted a counterdiode every 4 LEDs as a standard feature; this limits the possible loss of flow of the individual motor, in the event one of the diodes crashes, to a group of no more than 4 LEDs.
For more restrictive applications, Gewiss 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

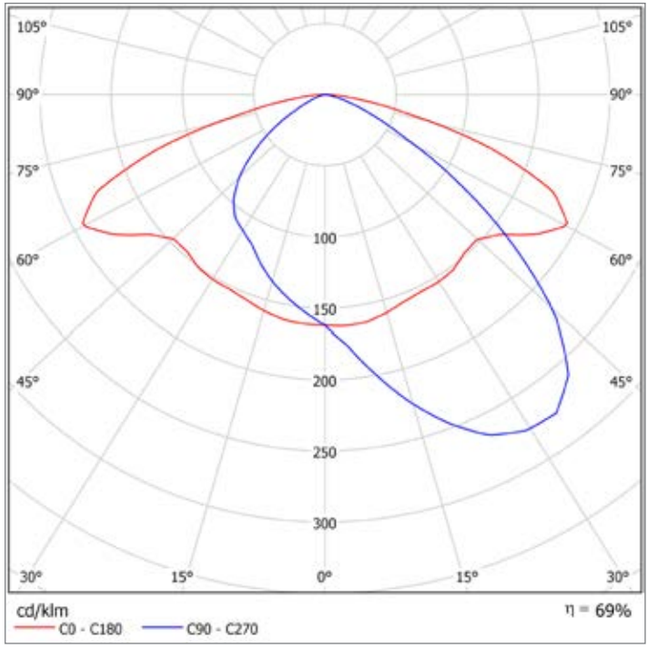
Cosmopolis motor design

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.
The Cosmopolis lamp Version are thinked and so suitable only for Street [03] Normal/Standard version.



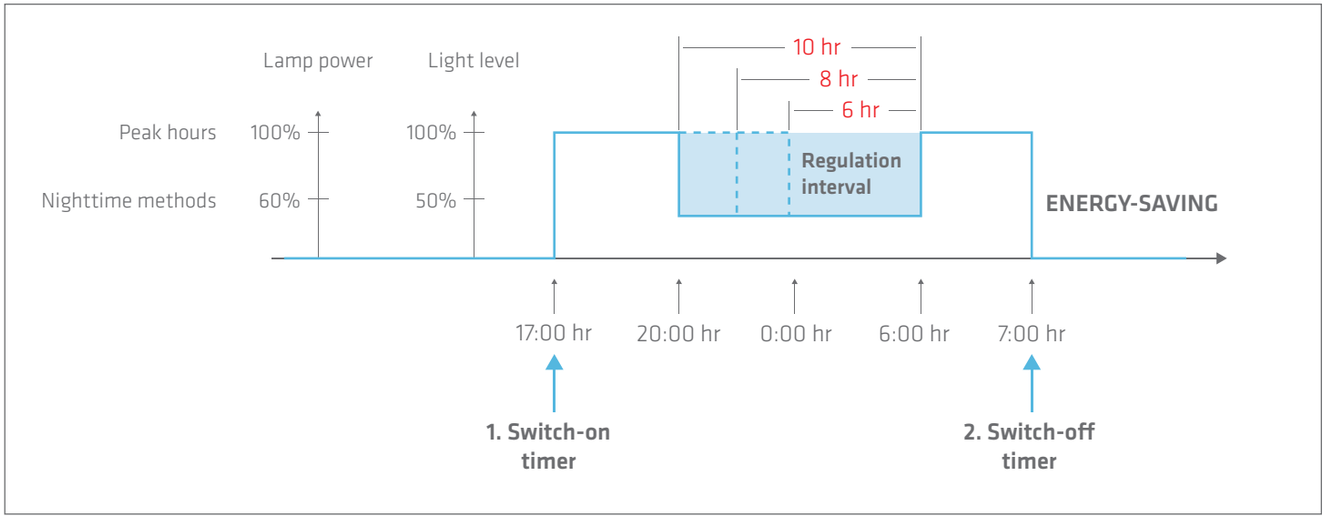
Reflector design

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.



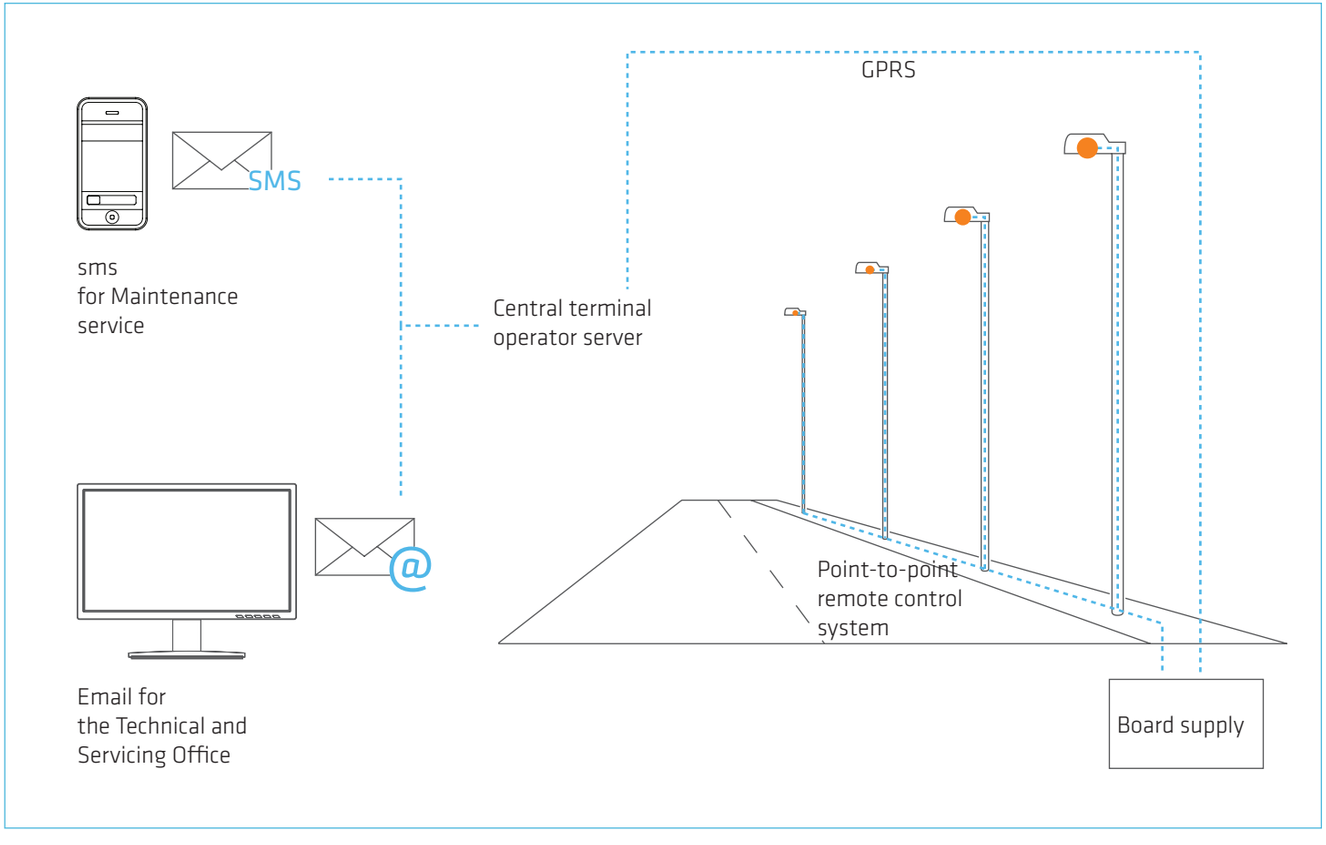
Lumistep and DALI

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 [03] - Street [03] Maxi - Urban [03]

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 [03] 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.
Moreover,the street range is been extended with the innovative street lighting device called Street [03]Maxi, and it is now possible to meet the lighting requirements of main roads suburban /extraurban street and generally speaking, for the enlightenment of all the open spaces/ large areas that needs a very high illuminance.
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 [03] 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 [O3]

STREET LIGHTING

Street [O3] Maxi

STREET LIGHTING

Urban [O3]

URBAN LIGHTING

Street [O3]

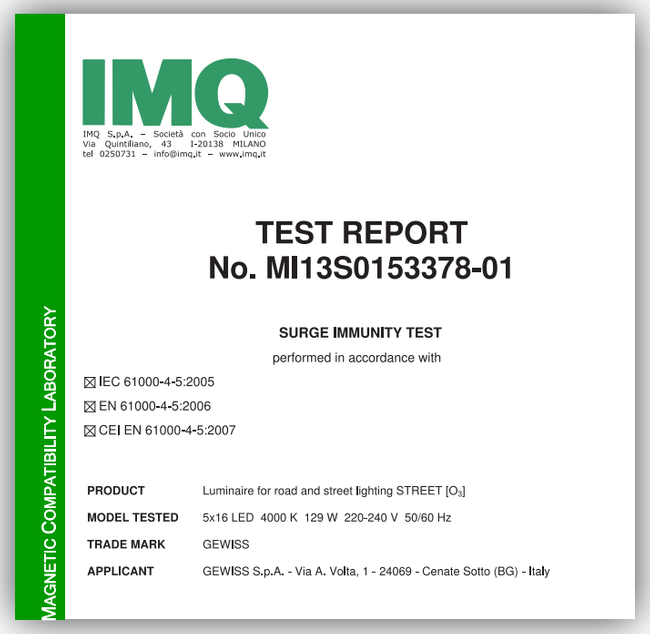
The innovative street lighting designed to house, in a single body, both the high performance LEDs or the innovative CosmoPolis discharge lamps.
- Protection degree IP 66
- Insulation class II
- LED versions in component modules with from 1 (16 LED) to 5 (80 LED) or, alternatively, versions with innovative 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.



MAGNETIC COMPATIBILITY LABORATORY

IMQ

IMQ S.p.A. – Società con Socio Unico
Via Quintiliano, 43 I-20138 MILANO
tel 0250731 – info@imq.it – www.imq.it

TEST REPORT
No. MI13S0153378-01

SURGE IMMUNITY TEST
performed in accordance with

☒ IEC 61000-4-5:2005
☒ EN 61000-4-5:2006
☒ CEI EN 61000-4-5:2007

PRODUCT	Luminaire for road and street lighting STREET [O3]
MODEL TESTED	5x16 LED 4000 K 129 W 220-240 V 50/60 Hz
TRADE MARK	GEWISS
APPLICANT	GEWISS S.p.A. - Via A. Volta, 1 - 24069 - Cenate Sotto (BG) - Italy

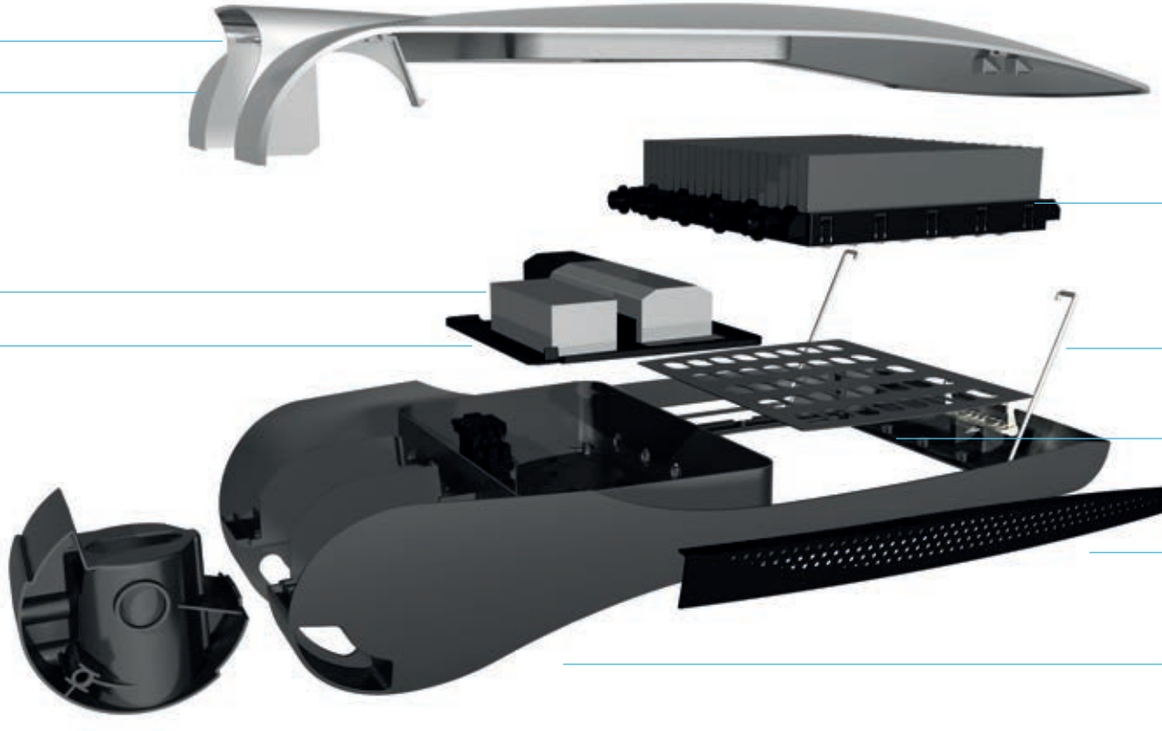
Ventilation

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.

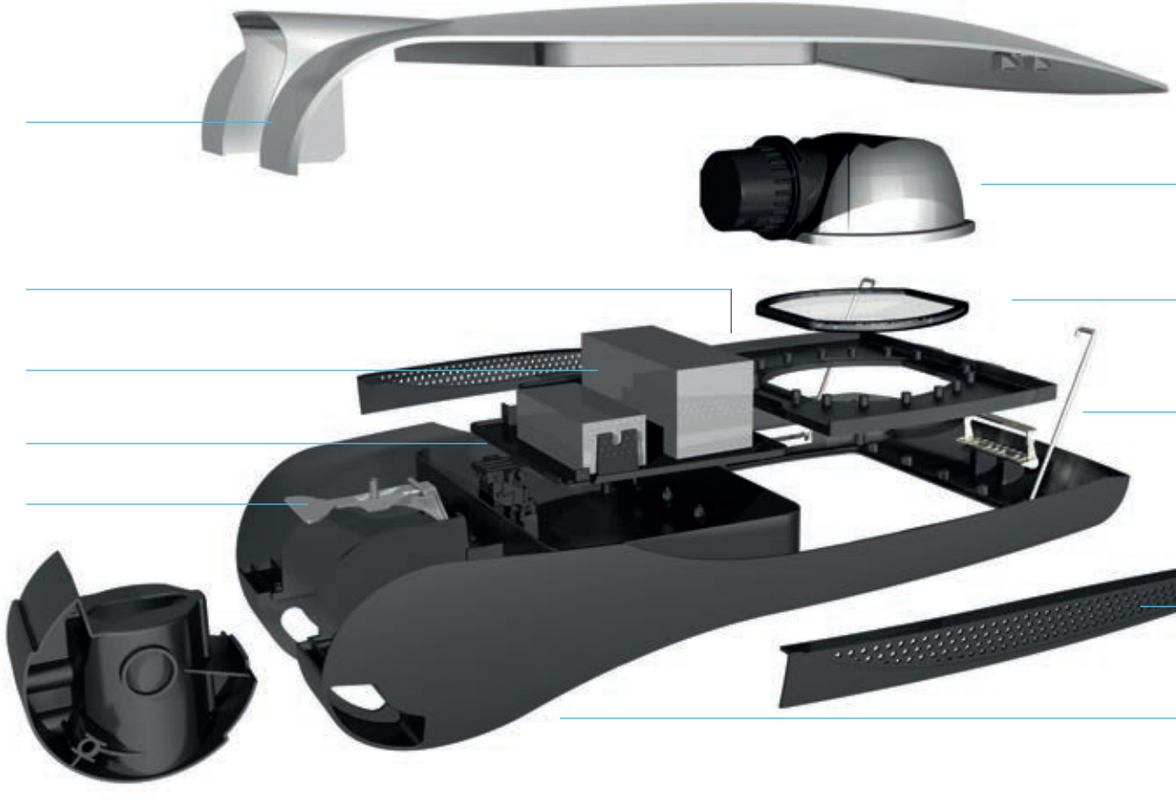
Overvoltages protection

Thanks to the complete separation of electrical and electronic parts of the body, the street lighting Street [O3] Maxi is protected from common over voltages up to 6kV, according to the European Standards. (Certified by third part)

LED version


Opening/closing handle
Die-cast aluminium cover
LED motor
Supply unit
Removable power supply plate
Opening and locking mechanism
Decorative closure shield
Pole joint
Mesh for ventilation
Die-cast aluminium base

CosmoPolis version



Street [O3] Maxi

LED lighting system in die-cast aluminium for main roads, extraurban street and large area lighting in general.
- Protection degree IP 66
- Insulation class II
- LED Versions with from 6 to 10 modules.
- Opening with a snap-on handle.
- Stand-alone or Bi-power self-learning versions.

Street [O3] Maxi LED

More power for largest street

The new street [O3] Maxi is able to reach a Lumen Output package up to 24000 lumen(10 modules) and to meet the lighting requirements of main roads, suburban, extra urban street and, generally speaking, for the enlightenment of all the open spaces/large areas.

Overvoltages protection

Thanks to the complete separation of electrical and electronic parts of the body, the street lighting Street [O3] Maxi is protected from common over voltages up to 6kV, according to the European Standards. (Certified by third part).

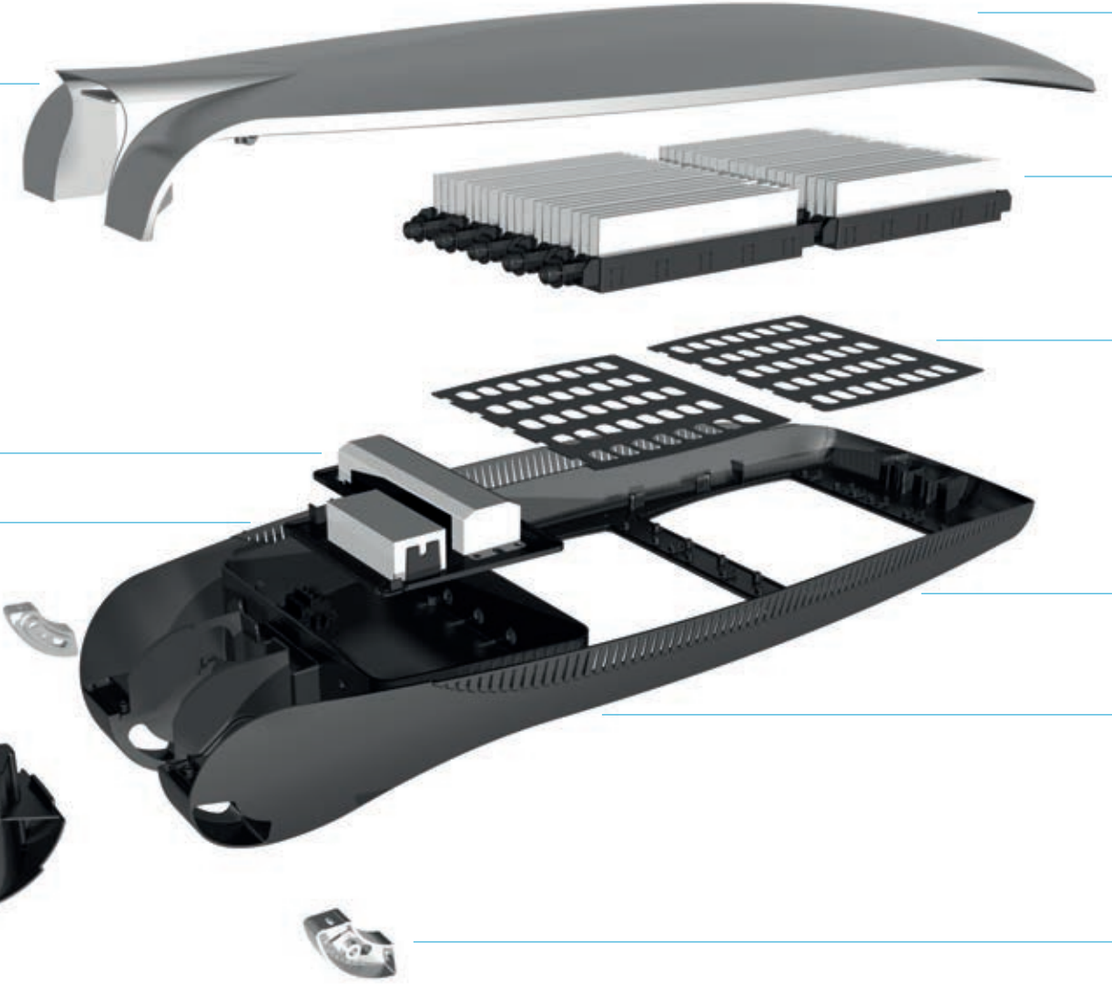
5 years warranty

All the LED lighting products of the Gewiss range offer the possibility of an additional warranty for a further 3 years after the standard 2-year warranty period, by registering on www.gewiss.com.

High temperature resistance

Street [O3] Maxi is particularly suitable for use in hot environments with very high temperatures.

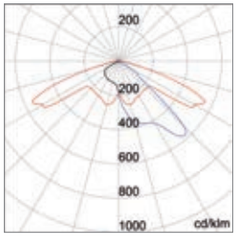
LED version

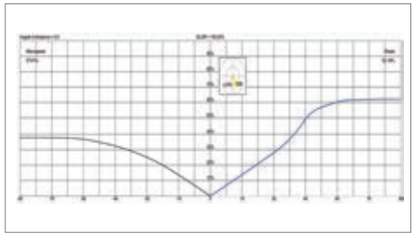

Opening/closing handle
Die-cast aluminium cover
LED motors
Decorative closure shield
Supply unit
Removable power supply plate
Mesh for ventilation
Die-cast aluminium base
Pole joint
Goniometer

Project type

Below, you can see some simple lighting projects that shows the photometric performances of Street [O3] - Street [O3] Maxi.

Urban street

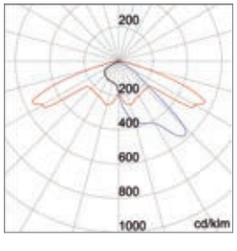


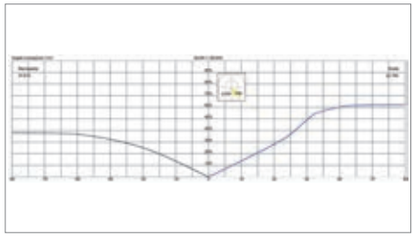


ME3c street optic

Device configuration	Standard reference	Class lighting	Number of carriageways	Number of lanes	Road width	Pole height	Centre distance
GEWISS GW 87 514 STREET O3 5x16LED 4000K	EN 13201	ME3c	1	2	8 m	8 m	30 m

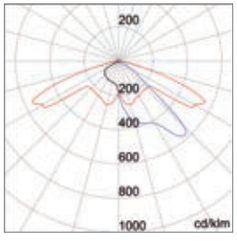
Large outdoor area

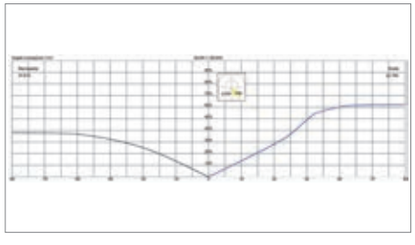




Device configuration	Reference standard	Dimensions of the outdoor area	Lighting tower height	Number of devices	Average lighting	Uniformity Min/av
GW S7 805 STREET O3 MAXI 10x16LED 4000K	EN 12464-2	50 x 50 m	30 m	7	20 Lux	0.40

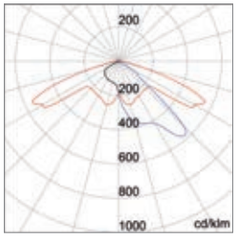
Roundabout

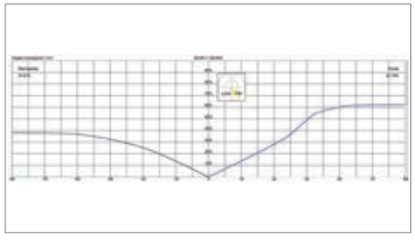




Device configuration	Reference standard	Lighting class	Road width	Pole height	Number of devices	External roundabout Ø	Internal roundabout Ø
GEWISS GW S7 804 STREET O3 MAXI 9x16LED 4000K	EN 13201	CE2	8m	15m	4	46 m	30m

Motorway





Device configuration	Reference standard	Lighting class	Number of carriageways	Number of lanes	Road width	Pole height	Centre distance
GEWISS GW S7 804 STREET O3 MAXI 9x16LED 4000K	EN 13201	ME1	2	3	9.5 m	10 m	30m

Poles

The Street [O3] 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 [O3] 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 [O3]

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 [O3] LED side coupling

Urban [O3] LED top coupling

Urban [O3] LED suspension

Urban [O3] Cosmo side coupling

Urban [O3] Cosmo top coupling

Urban [O3] 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.

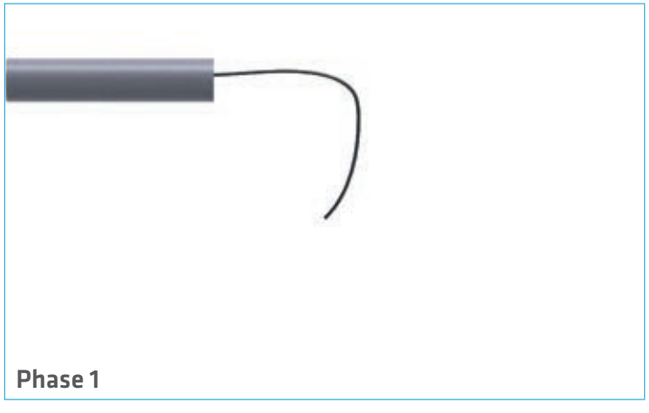
In this perspective, Gewiss has developed a series of products that start with the current best technologies and follow their evolution, while maintaining the ability to move on to the one that appears to be the best over time. This freedom of choice keeps the design of the product unchanged and does 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.
[O3] 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 [O3] 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.



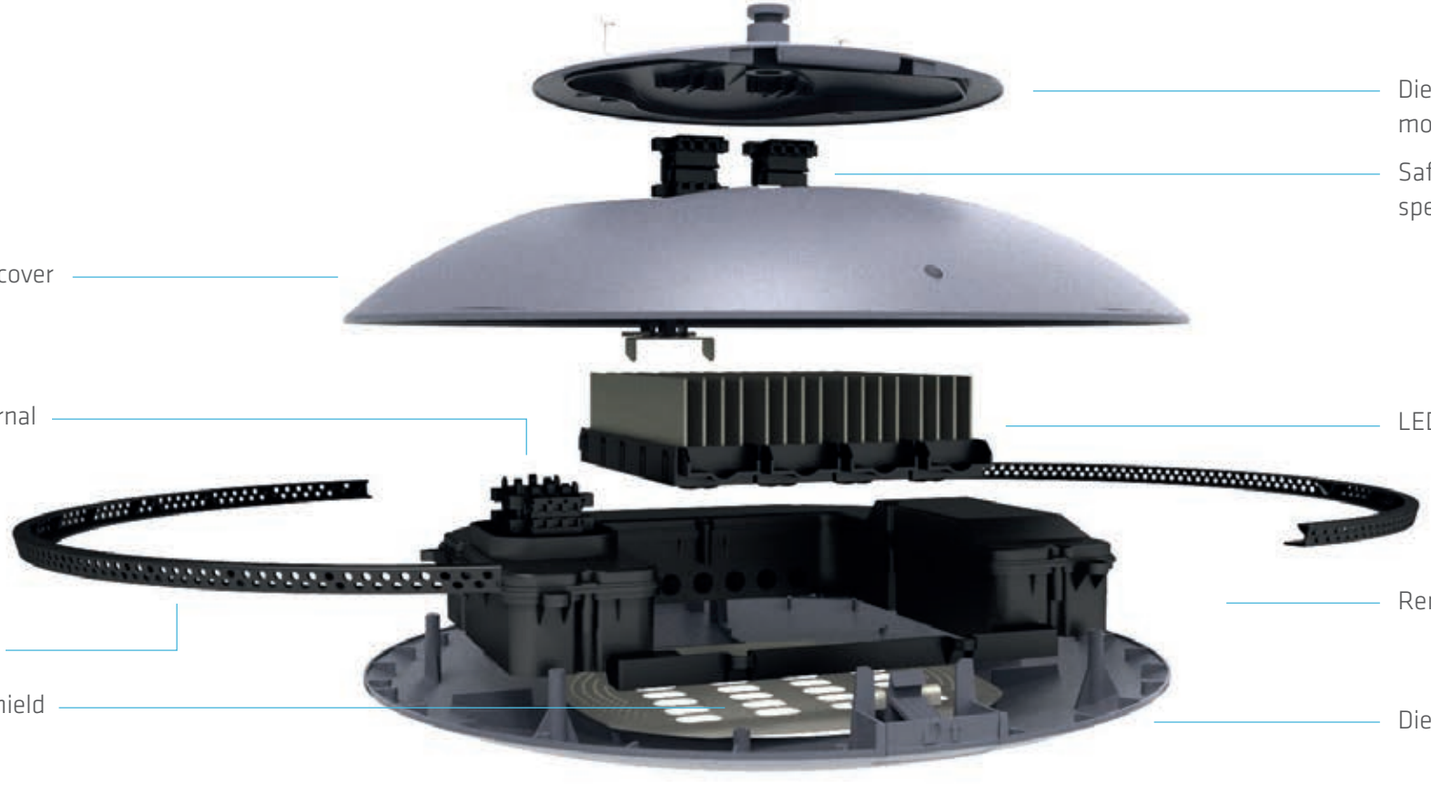
Phase 1

Phase 2

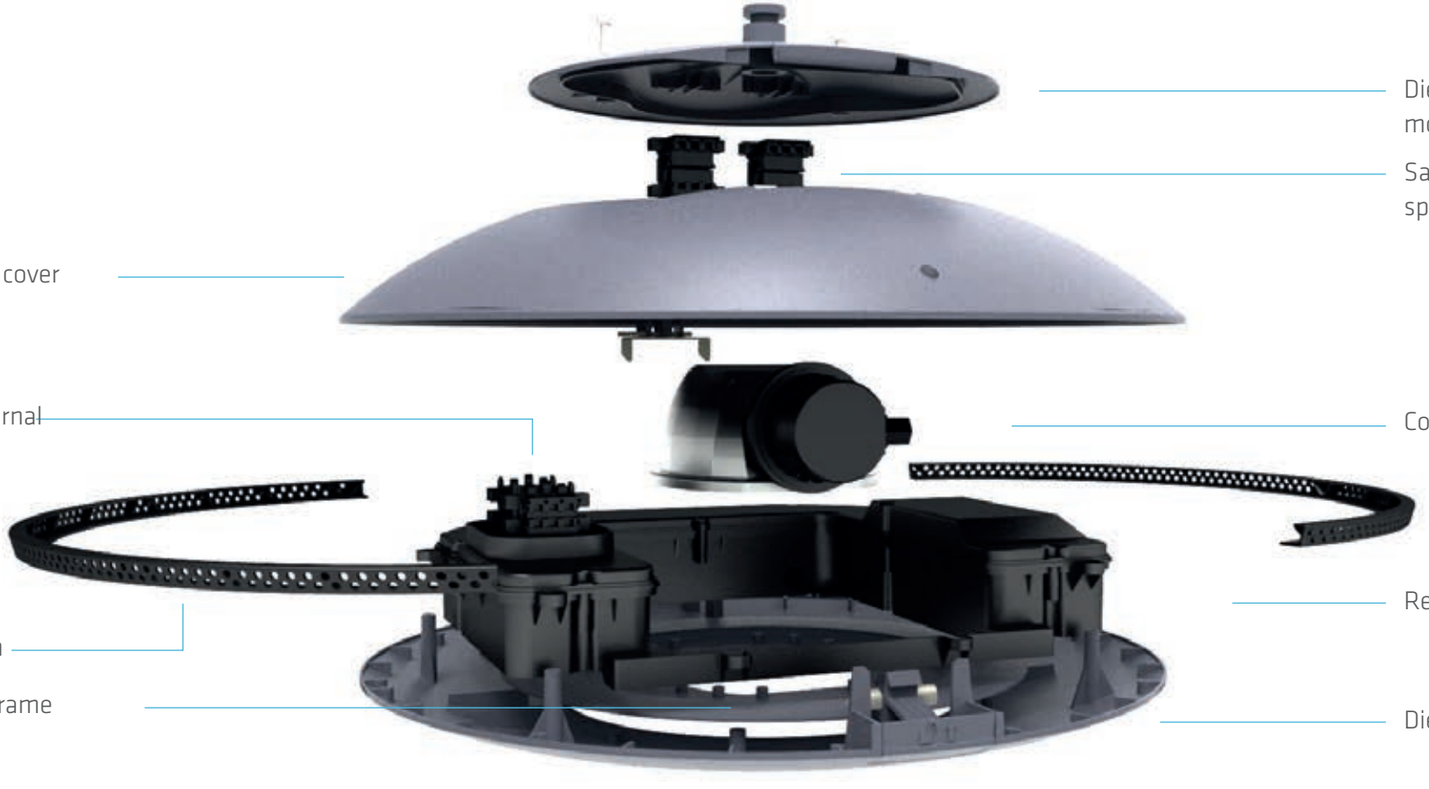
Phase 3

Phase 4

LED version


Die-cast aluminium pole mounting frame
Safety knife for installation and special maintenance
Die-cast aluminium cover
Safety knife for internal maintenance
LED motor
Removable power supply plate
Mesh for ventilation
Decorative closure shield
Die-cast aluminium base

CosmoPolis version



Urban [O3] - GEWISS side bracket systems

Urban [O3] pole-head

Urban [O3] Modern

Urban [O3] Pastoral

Urban [O3] pole-head

Urban [O3] Modern

Urban [O3] Pastoral

Street [O3] - product codes

STREET [O3] LED - Street optic

Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 501	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap/Alum
GW 87 502	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap/Alum
GW 87 503	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap/Alum
GW 87 504	5 (5x16 LED)	3500 K (Ra85)	129 W	7850	Grap/Alum
GW 87 510	1 (1x16 LED)	4000 K (Ra65)	31 W	2320	Grap/Alum
GW 87 511	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap/Alum
GW 87 512	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap/Alum
GW 87 513	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap/Alum
GW 87 514	5 (5x16 LED)	4000 K (Ra65)	129 W	10620	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 521	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap/Alum
GW 87 522	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap/Alum
GW 87 523	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap/Alum
GW 87 524	5 (5x16 LED)	3500 K (Ra85)	129 W	7850	Grap/Alum
GW 87 530	1 (1x16 LED)	4000 K (Ra65)	31 W	2320	Grap/Alum
GW 87 531	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap/Alum
GW 87 532	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap/Alum
GW 87 533	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap/Alum
GW 87 534	5 (5x16 LED)	4000 K (Ra65)	129 W	10620	Grap/Alum

NOTES: the versions from GW87521 to GW87534 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h).
The data refer to 530mA. LED pilot current can be set at 530/410/350 mA via a jumper or resistor.
Remote management versions available.

STREET [O3] LED - Street optic - 700 mA

Street lighting in die-cast aluminium - IP66
LED modules powered at 700 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand alone					
GW 87 410	1 (1x16 LED)	4000 K (Ra65)	39 W	3030	Grap/Alum
GW 87 411	2 (2x16 LED)	4000 K (Ra65)	71 W	5570	Grap/Alum
GW 87 412	3 (3x16 LED)	4000 K (Ra65)	102 W	8080	Grap/Alum

NOTES: The data refer to 700mA.

STREET [O3] LED - street optic - for photovoltaic systems

Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 24V dc - stand alone					
GW 87 571	2 (2x16 LED)	4000 K (Ra65)	52 W	4510	Grap/Alum

NOTES: The data refer to 530mA.

STREET [O3] LED - Cycle and pedestrian optic

Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 001	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap/Alum
GW S7 002	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap/Alum
GW S7 003	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap/Alum
GW S7 004	5 (5x16 LED)	3500 K (Ra85)	129 W	7360	Grap/Alum
GW S7 010	1 (1x16 LED)	4000 K (Ra65)	31 W	2170	Grap/Alum
GW S7 011	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap/Alum
GW S7 012	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap/Alum
GW S7 013	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap/Alum
GW S7 014	5 (5x16 LED)	4000 K (Ra65)	129 W	9960	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 021	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap/Alum
GW S7 022	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap/Alum
GW S7 023	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap/Alum
GW S7 024	5 (5x16 LED)	3500 K (Ra85)	129 W	7360	Grap/Alum
GW S7 030	1 (1x16 LED)	4000 K (Ra65)	31 W	2170	Grap/Alum
GW S7 031	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap/Alum
GW S7 032	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap/Alum
GW S7 033	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap/Alum
GW S7 034	5 (5x16 LED)	4000 K (Ra65)	129 W	9960	Grap/Alum

NOTES: the versions from GWS7021 to GWS7034 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h).
The data refer to 530mA. LED driving current can be set at 530/410/350 mA via a jumper or resistor.
Remote management versions available.

STREET [O3] LED - Cycle and pedestrian optic - 700 mA

Street lighting in die-cast aluminium - IP66
LED modules powered at 700 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand alone					
GW S7 110	1 (1x16 LED)	4000 K (Ra65)	39 W	2750	Grap/Alum
GW S7 111	2 (2x16 LED)	4000 K (Ra65)	71 W	5060	Grap/Alum
GW S7 112	3 (3x16 LED)	4000 K (Ra65)	102 W	7330	Grap/Alum

NOTES: The data refer to 700mA.

STREET [O3] LED - cycle and pedestrian optic - for photovoltaic systems

Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 24V dc - stand alone					
GW S7 071	2 (2x16 LED)	4000 K (Ra65)	52 W	4230	Grap/Alum

NOTES: The data refer to 530mA.

STREET [O3] COSMOPOLIS LED - Street optic

Street lighting in die-cast aluminium - Flat glass - IP66

Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 541	45 W	MT	PGZ-12	0.5 A	Grap/Alum
GW 87 542	60 W	MT	PGZ-12	0.65 A	Grap/Alum
GW 87 543	90 W	MT	PGZ-12	0.97 A	Grap/Alum
GW 87 544	140 W	MT	PGZ-12	1.49 A	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 552	60 W	MT	PGZ-12	0.65 A	Grap/Alum
GW 87 553	90 W	MT	PGZ-12	0.97 A	Grap/Alum
GW 87 554	140 W	MT	PGZ-12	1.49 A	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 561	45 W	MT	PGZ-12	0.5 A	Grap/Alum
GW 87 562	60 W	MT	PGZ-12	0.65 A	Grap/Alum
GW 87 563	90 W	MT	PGZ-12	0.97 A	Grap/Alum
GW 87 564	140 W	MT	PGZ-12	1.49 A	Grap/Alum

STREET [O3] MAXI LED - Street optic

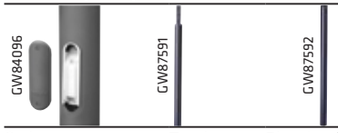
Street lighting in die-cast aluminium - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 801	6 (6x16 LED)	4000 K (Ra65)	160 W	14580	Grap/Alum
GW S7 802	7 (7x16 LED)	4000 K (Ra65)	185 W	17010	Grap/Alum
GW S7 803	8 (8x16 LED)	4000 K (Ra65)	209 W	19430	Grap/Alum
GW S7 804	9 (9x16 LED)	4000 K (Ra65)	233 W	21860	Grap/Alum
GW S7 805	10 (10x16 LED)	4000 K (Ra65)	258 W	24290	Grap/Alum
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 821	6 (6x16 LED)	4000 K (Ra65)	160 W	14580	Grap/Alum
GW S7 822	7 (7x16 LED)	4000 K (Ra65)	185 W	17010	Grap/Alum
GW S7 823	8 (8x16 LED)	4000 K (Ra65)	209 W	19430	Grap/Alum
GW S7 824	9 (9x16 LED)	4000 K (Ra65)	233 W	21860	Grap/Alum
GW S7 825	10 (10x16 LED)	4000 K (Ra65)	258 W	24290	Grap/Alum

NOTES: the Bi-power versions with self-learning can be configured in 3 flow reduction mode: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). The data refer to 530mA. The driving current can be set at 530 / 410 / 350 mA via a jumper or resistor.

Gewiss poles and side brackets Poles

Painted tapered poles

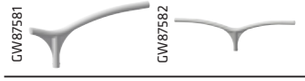


Code	Total length (m)	Planting (m)	Base diameter (mm)	Top diameter (mm)	Colour
GW 84 096	5.5	0.5	115	60	Grap grey
GW 87 591	6.8	0.8	128	60	Grap grey
GW 84 097	7.8	0.8	138	60	Grap grey
GW 87 592	8.8	0.8	148	60	Grap grey
GW 87 593	9.8	0.8	158	60	Grap grey

NOTE: painted poles in hot galvanised steel complete with a junction terminal block.

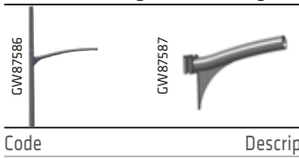
Fixing accessories

Pole head brackets - Ø 60 mm



Code	Description	Length	Colour
GW 87 581	Single pole head bracket	1 m	Grap grey
GW 87 582	Double pole head bracket	1 + 1 m	Grap grey

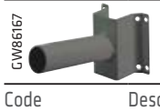
Brackets for fixing at variable heights



Code	Description	Length	Colour
GW 87 586	Long bracket	1 m	Grap grey
GW 87 587	Short bracket	0,5 m	Grap grey

NOTE: for poles with a diameter from 60 to 75 mm.

Bracket for wall-mounting



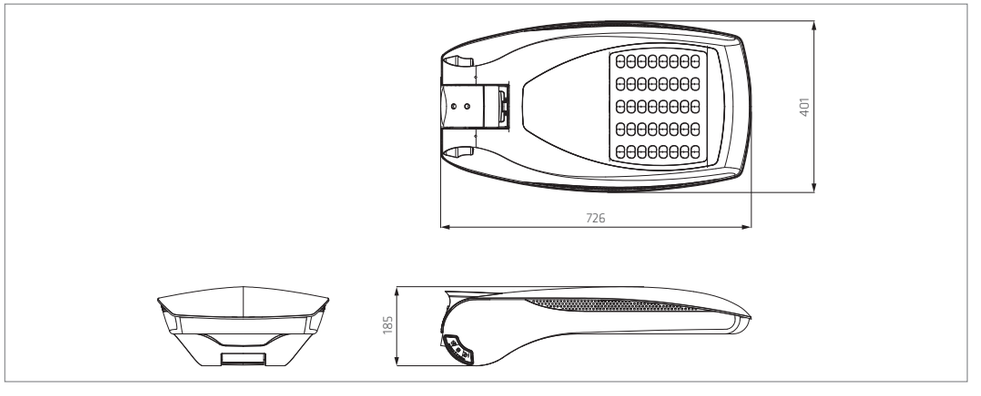
Code	Description	Outer dim. LxHxD (mm)	Colour
GW 86 167	Bracket for wall-mounting	150x160x290	Grap grey

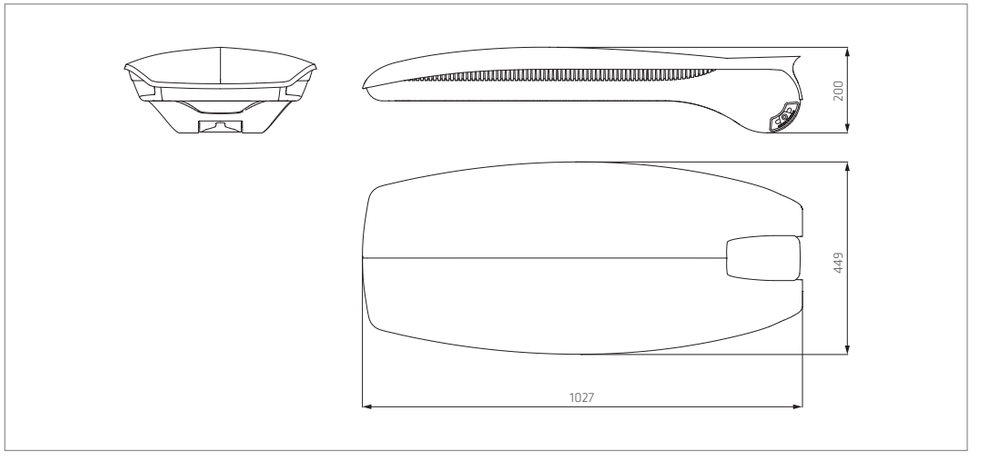
APPLICATIONS: allows the installation of the device on the wall and on 90° edges.
CHARACTERISTICS: hot galvanised steel, painted.

Colours

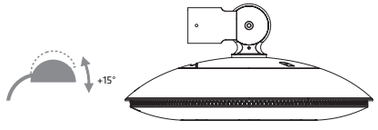
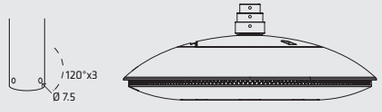
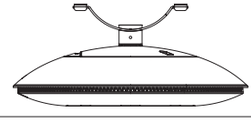
Bi-colour (G/A)

Dimensions

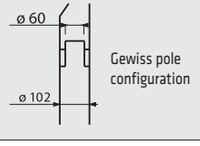
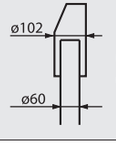




Possible compositions for systems for commercial side brackets

SIDE COUPLING	 + **Commercial side brackets**	*- min. Ø 55 mm* *- max. Ø 65 mm* 	**Notes** Complete system for coupling on commercial poles
UPPER COUPLING	 + **Commercial side brackets**	*- min. Ø 48 mm* *- max. Ø 60 mm* 	**Notes** Complete system for coupling on poles with Ø 48 mm or Ø 60 mm. Fixing of poles to the bush with three holes Ø 7.5 mm at 120°
SUSPENSION	 + **Metal ropes**	*- min. Ø 55 mm* *- max. Ø 65 mm* 	**Notes** Complete system for installation on metal ropes

Possible compositions for GEWISS side bracket systems

	 GW 87 901 / GW 87 968	+ **Single intermediate side bracket**  GW 87 986 * or GW 87 996 *	OR	**Single pole-head**  GW 87 984 * or GW 87 994 *	OR	**Double pole-head**  GW 87 985 * or GW 87 995 *	**Notes** Possibility of completing the system with Gewiss pole (Ø 60 mm)
	 GW 87 901 / GW 87 968	+ **Pastoral pole for conical pole**  GW 87 981 * or GW 87 991*	OR	**Pastoral pole for Place pole**  GW 87 982 * or GW 87 992 *			**Notes** Possibility to assemble dual side bracket solutions. (GW code x 2)
	 GW 87 901 / GW 87 968	+ **Surface-mounting pastoral pole**  GW 87 983 * or GW 87 993*					
	 GW 87 901 / GW 87 968	+ **Suspended pole head**  GW 87 987 * or GW 87 997*					**Notes**  Gewiss pole configuration  Commercial pole configuration

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

Urban [O3] - Systems for commercial side brackets - product codes

Side coupling systems
for commercial side brackets LED - Street optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 601	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 602	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 603	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 606	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 607	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 608	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 611	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 612	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 613	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 616	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 617	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 618	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 621	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 622	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 623	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 626	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 627	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 628	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 631	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 632	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 633	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 636	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 637	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 638	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTES: the versions from GW87621 to GW87638 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Side coupling systems
for commercial side brackets Led - Cycle and pedestrian optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 201	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 202	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 203	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 206	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 207	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 208	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 211	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 212	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 213	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 216	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 217	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 218	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 221	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 222	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 223	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 226	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 227	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 228	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 231	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 232	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 233	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 236	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 237	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 238	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium

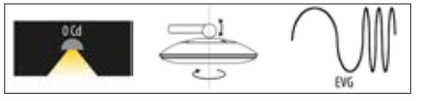
NOTE: the versions from GWS7221 to GWS7238 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Side coupling systems for commercial side brackets Led - Elliptical optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 251	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 252	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 253	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 256	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 257	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 258	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 261	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 262	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 263	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 266	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 267	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 268	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 271	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 272	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 273	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 276	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 277	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 278	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 281	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 282	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 283	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 286	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 287	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 288	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTE: the versions from GWS7271 to GWS7288 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available



Side coupling systems for commercial side brackets Cosmopolis - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66

Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 641	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 642	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 643	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 646	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 647	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 648	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 652	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 653	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 657	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 658	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 661	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 662	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 663	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 666	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 667	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 668	90 W	MT	PGZ-12	0.97 A	Aluminium

Fixing accessories

Accessories for pole fixing

Kit for fixing round bracket pole-head

Code	Description	Length	Colour
GW 87 881	Single	400 mm	Grap grey
GW 87 882	Double	800 mm	Grap grey
GW 87 891	Single	400 mm	Aluminium
GW 87 892	Double	800 mm	Aluminium

Fixing kit with variable-height round side bracket

Code	Description	Length	Colour
GW 87 883	Single intermediate	400 mm	Grap grey
GW 87 884	PLACE pole single intermediate	400 mm	Grap grey
GW 87 893	Single intermediate	400 mm	Aluminium
GW 87 894	PLACE pole single intermediate	400 mm	Aluminium

Accessories for surface-mounting

Kit for surface-mounting

Code	Description	Length	Colour
GW 87 885	Wall-fixing bracket	450 mm	Grap grey
GW 87 895	Wall-fixing bracket	450 mm	Aluminium

Systems for commercial side brackets with top connection LED - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 701	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 702	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 703	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 706	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 707	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 708	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 711	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 712	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 713	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 716	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 717	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 718	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 721	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 722	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 723	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 726	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 727	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 728	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 731	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 732	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 733	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 736	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 737	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 738	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTES: the versions from GW87721 to GW87738 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Systems for commercial
side brackets with top connection Led - Cycle and pedestrian optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 301	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 302	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 303	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 306	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 307	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 308	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 311	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 312	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 313	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 316	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 317	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 318	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 321	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 322	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 323	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 326	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 327	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 328	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 331	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 332	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 333	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 336	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 337	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 338	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium

NOTE: the versions from GWS7321 to GWS7338 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Systems for commercial
side brackets with top connection Led - Elliptical optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 351	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 352	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 353	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 356	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 357	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 358	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 361	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 362	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 363	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 366	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 367	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 368	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 371	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 372	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 373	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 376	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 377	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 378	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 381	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 382	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 383	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 386	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 387	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 388	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTE: the versions from GWS7371 to GWS7388 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Urban [O3] - Systems for commercial side brackets - product codes

Systems for commercial side brackets with top connection Cosmopolis - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66

Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 741	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 742	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 743	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 746	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 747	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 748	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 752	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 753	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 757	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 758	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 761	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 762	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 763	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 766	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 767	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 768	90 W	MT	PGZ-12	0.97 A	Aluminium

Systems for steel cable

LED - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 801	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 802	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 803	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 806	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 807	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 808	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 811	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 812	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 813	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 816	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 817	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 818	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 821	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 822	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 823	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 826	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 827	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 828	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 831	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 832	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 833	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 836	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 837	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 838	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTES: the versions from GW87821 to GW87838 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Systems for steel cable

Led - Cycle and pedestrian optic

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 401	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 402	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 403	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 406	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 407	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 408	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 411	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 412	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 413	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 416	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 417	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 418	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 421	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 422	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 423	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 426	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 427	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 428	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 431	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 432	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 433	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 436	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 437	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 438	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium

NOTE: the versions from GWS7421 to GWS7438 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Systems for steel cable

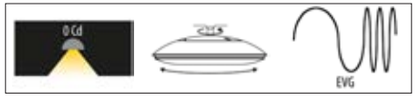
Led - Elliptical optics

Device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 451	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 452	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 453	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 456	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 457	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 458	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 461	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 462	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 463	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 466	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 467	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 468	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 471	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 472	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 473	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 476	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 477	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 478	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 481	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 482	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 483	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 486	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 487	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 488	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NOTE: the versions from GWS7471 to GWS7488 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available

Urban [O3] - Systems for steel cable - product codes



Systems for steel cable

Cosmopolis - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66

Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 841	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 842	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 843	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 846	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 847	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 848	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 852	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 853	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 857	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 858	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 861	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 862	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 863	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 866	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 867	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 868	90 W	MT	PGZ-12	0.97 A	Aluminium

Systems for Gewiss side brackets

LED - Street optics

LED-operated device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW 87 901	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 902	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 903	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 906	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 907	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 908	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 911	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 912	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 913	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 916	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 917	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 918	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW 87 921	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW 87 922	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW 87 923	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW 87 926	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW 87 927	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW 87 928	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW 87 931	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW 87 932	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW 87 933	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW 87 936	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW 87 937	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW 87 938	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NB: to be completed with the accessories of the "Gewiss poles and side brackets" section.
NOTES: the versions from GW87921 to GW87938 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available.

Systems for Gewiss side brackets

Led - Cycle and pedestrian optic

LED-operated device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 501	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 502	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 503	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 506	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 507	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 508	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 511	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 512	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 513	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 516	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 517	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 518	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 521	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Grap grey
GW S7 522	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Grap grey
GW S7 523	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Grap grey
GW S7 526	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Grap grey
GW S7 527	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Grap grey
GW S7 528	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Grap grey
GW S7 531	2 (2x16 LED)	3500 K (Ra85)	54 W	3120	Aluminium
GW S7 532	3 (3x16 LED)	3500 K (Ra85)	80 W	4560	Aluminium
GW S7 533	4 (4x16 LED)	3500 K (Ra85)	104 W	5970	Aluminium
GW S7 536	2 (2x16 LED)	4000 K (Ra65)	54 W	4230	Aluminium
GW S7 537	3 (3x16 LED)	4000 K (Ra65)	80 W	6170	Aluminium
GW S7 538	4 (4x16 LED)	4000 K (Ra65)	104 W	8080	Aluminium

NB: to be completed with the accessories of the "Gewiss poles and side brackets" section.
NOTES: the versions from GWS7521 to GWS7538 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available.

Systems for Gewiss side brackets

Led - Elliptical optic

LED-operated device in die-cast aluminium for urban lighting - flat glass - IP66
LED modules powered at 530 mA with PMMA lenses

Code	Number of modules	Temperature of colour	System power	Output (lm)	Colour
Voltage: 220/240 V - 50/60 Hz - Stand-alone and/or possibility of dimmer 1-10 V					
GW S7 551	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 552	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 553	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 556	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 557	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 558	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 561	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Aluminium
GW S7 562	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 563	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 566	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 567	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 568	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning					
GW S7 571	2 (2x16 LED)	3500 K (Ra85)	54 W	3330	Grap grey
GW S7 572	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Grap grey
GW S7 573	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Grap grey
GW S7 576	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Grap grey
GW S7 577	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Grap grey
GW S7 578	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Grap grey
GW S7 581	2 (2x16 LED)	3500 K (Ra85)	54 W	4510	Aluminium
GW S7 582	3 (3x16 LED)	3500 K (Ra85)	80 W	4860	Aluminium
GW S7 583	4 (4x16 LED)	3500 K (Ra85)	104 W	6360	Aluminium
GW S7 586	2 (2x16 LED)	4000 K (Ra65)	54 W	4510	Aluminium
GW S7 587	3 (3x16 LED)	4000 K (Ra65)	80 W	6580	Aluminium
GW S7 588	4 (4x16 LED)	4000 K (Ra65)	104 W	8610	Aluminium

NB: to be completed with the accessories of the "Gewiss poles and side brackets" section.
NOTES: the versions from GWS7571 to GWS7588 can be configured in 3 flow-reduction modes: two of 6 hours (0-6h or 2-4h) and one of 8 hours (2-6h). Remote management versions available.

Systems for Gewiss side brackets

Cosmopolis - Street optics

Device in die-cast aluminium for urban lighting - flat glass - IP66

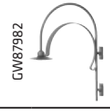
Code	Lamp power	Lamp	Lamp holder	Lamp current	Colour
Voltage: 220/240 V - 50/60 Hz					
GW 87 941	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 942	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 943	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 946	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 947	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 948	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - Bi-power with self-learning (8 h)					
GW 87 952	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 953	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 957	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 958	90 W	MT	PGZ-12	0.97 A	Aluminium
Voltage: 220/240 V - 50/60 Hz - DALI					
GW 87 961	45 W	MT	PGZ-12	0.5 A	Grap grey
GW 87 962	60 W	MT	PGZ-12	0.65 A	Grap grey
GW 87 963	90 W	MT	PGZ-12	0.97 A	Grap grey
GW 87 966	45 W	MT	PGZ-12	0.5 A	Aluminium
GW 87 967	60 W	MT	PGZ-12	0.65 A	Aluminium
GW 87 968	90 W	MT	PGZ-12	0.97 A	Aluminium

NB: to be completed with the accessories of the "Gewiss poles and side brackets" section.

Gewiss poles and side brackets

Fixing accessories

Kit for pastoral pole

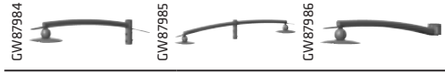


Code	Description	Colour
GW 87 981	Conical pole fixing	Grap grey
GW 87 982	PLACE pole fixing	Grap grey
GW 87 991	Conical pole fixing	Aluminium
GW 87 992	PLACE pole fixing	Aluminium

Pastoral pole kit for surface-mounting

Code	Description	Colour
GW 87 983	Wall fixing	Grap grey
GW 87 993	Wall fixing	Aluminium

Pole-head kit with flat side bracket for conical poles



Code	Description	Length	Colour
GW 87 984	Single	1000 mm	Grap grey
GW 87 985	Double	2000 mm	Grap grey
GW 87 986	Single intermediate	1000 mm	Grap grey
GW 87 994	Single	1000 mm	Aluminium
GW 87 995	Double	2000 mm	Aluminium
GW 87 996	Single intermediate	1000 mm	Aluminium

Suspended pole-head kit for cylindrical poles

Code	Description	Colour
GW 87 987	Single	Grap grey
GW 87 997	Single	Aluminium

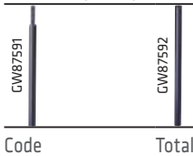
Poles

Painted cylindrical poles

Code	Total length (m)	Planting (m)	Base diameter (mm)	Top diameter (mm)	Colour
GW 87 691	4	0.5	102	60	Grap grey
GW 87 692	4.5	0.5	102	60	Grap grey
GW 87 696	4	0.5	102	60	Aluminium
GW 87 697	4.5	0.5	102	60	Aluminium

NOTE: painted poles in hot galvanised steel complete with a junction terminal block

Painted tapered poles



Code	Total length (m)	Planting (m)	Base diameter (mm)	Top diameter (mm)	Colour
GW 87 591	6.8	0.8	128	60	Grap grey
GW 87 592	8.8	0.8	148	60	Grap grey
GW 87 593	9.8	0.8	158	60	Grap grey
GW 87 596	6.8	0.8	128	60	Aluminium
GW 87 597	8.8	0.8	148	60	Aluminium
GW 87 598	9.8	0.8	158	60	Aluminium

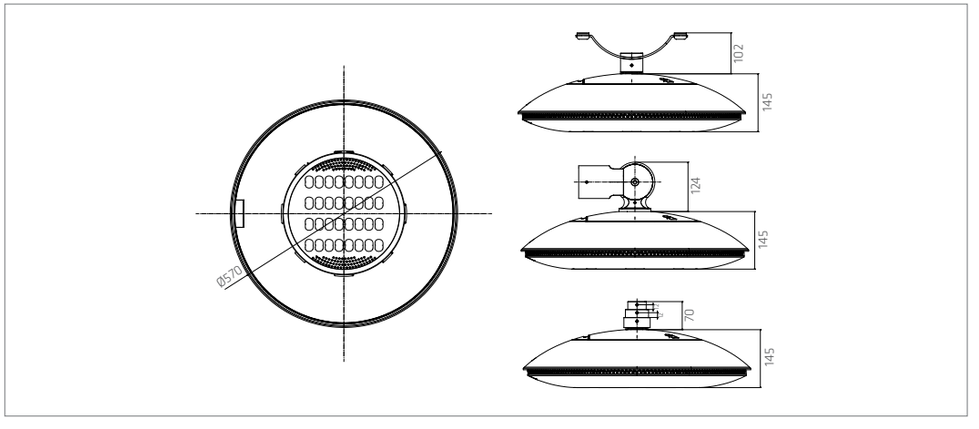
NOTE: painted poles in hot galvanised steel complete with a junction terminal block.

Colours

Aluminium (A)

Graphite grey (G)

Dimensions



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