

Road lighting solutions

For safe, pleasant, sustainable and connected road infrastructure



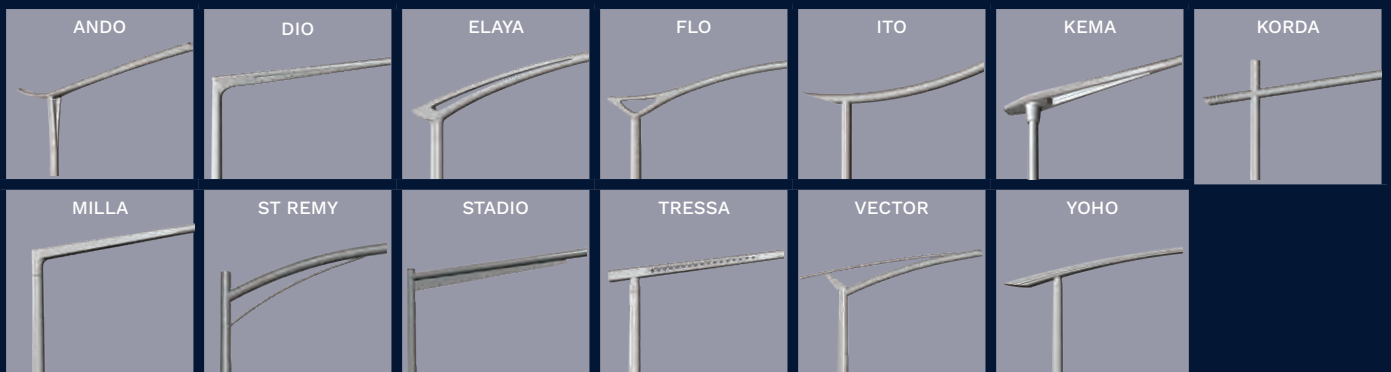
LUMINAIRE RANGE



CONTROL SYSTEMS



BRACKET RANGE





Lightability™

a spirit, a mission, our beliefs



Schröder

Experts in lightability™

With a century-long tradition of innovation and entrepreneurial spirit, Schröder pushes the limits of smart lighting. We are broadening our expertise to not only light the urban environment but also provide more services to interact with public spaces and the people in them.

We **help** local authorities establish open, interoperable platforms and provide easy-to-integrate infrastructure that not only improves the quality of life in cities but also the quality of democracy.

We **care** about taxpayers' money and provide the best cost/benefit for citizens. Hence we encourage more effective use of public finances by integrating public policies and operational cost reductions through new technologies.

We **stimulate** active, open and inclusive participation of actors belonging to a city's innovation eco-system, to foster the social, environmental and economic development of businesses and citizens.

We **strive** to create inclusive environments that stimulate accessibility for people with disabilities, encourage gender and ethnic equity, and bring new opportunities to vulnerable places in cities.

We **encourage** and implement training initiatives for citizens, planners and public managers on lighting & smarter cities in an open, transparent and non-biased way.

Your partner in sustainability



Schröder has developed a cohesive, company-wide sustainability strategy called **“Together for our Future”**. This commitment is structured around three axes encompassing the relevant prioritised **UN Sustainable Development Goals** (SDGs).

Sustainability is embedded into our strategy, structure, processes and culture. At Schröder, we collaborate closely with our customers to develop robust and long-term solutions to meet the challenges they face, while adding value with a positive, lasting impact on society and the environment.

PLANET

Being responsible for the planet by reducing our own and our customers' environmental impact.

COMMUNITY

Being responsible for the community by having a resolutely positive impact on society through our solutions.



PEOPLE

Being responsible for our staff members by developing human growth through diversity and respect for human rights.



**SUSTAINABLE
DEVELOPMENT
GOALS**

«Our role as market leader motivates us to take part in the global battle against climate change and contribute to respectful economic development. We help communities face their biggest challenges, making the world more sustainable.»

Werner de Wolf
CEO – Schröder

A company
strongly committed
to sustainability



EcoVadis evaluates more than 85,000 organisations in over 160 countries and in over 200 industries every year. **Based on 21 criteria, the rating assesses a company's performance** in four categories: Environment, Labour and Human Rights, Ethics and Sustainable Procurement.

The EcoVadis gold rating acknowledges the efforts being made every day by every single Schröder employee to enable a better and more sustainable world.

More information:
www.ecovadis.com



YOUR PARTNER IN SUSTAINABILITY



Being responsible
for the planet

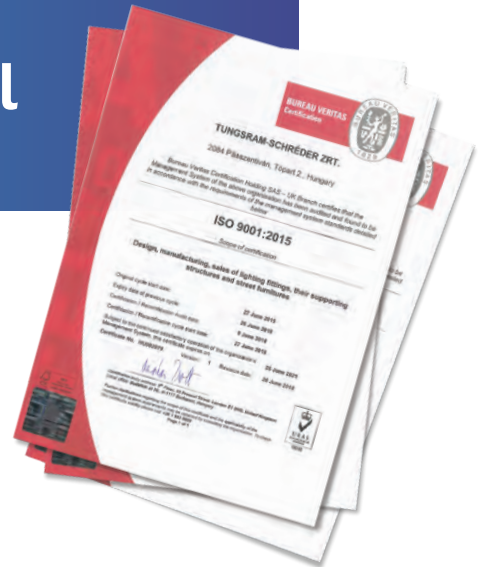
Manufacturing according to the highest environmental standards

All Schröder factories are certified ISO 14001:2015 which recognises their efforts for their environmental management system.

For each factory, a continuous improvement plan for resource efficiency and waste management is put into action by the quality manager.

More information:

www.iso.org

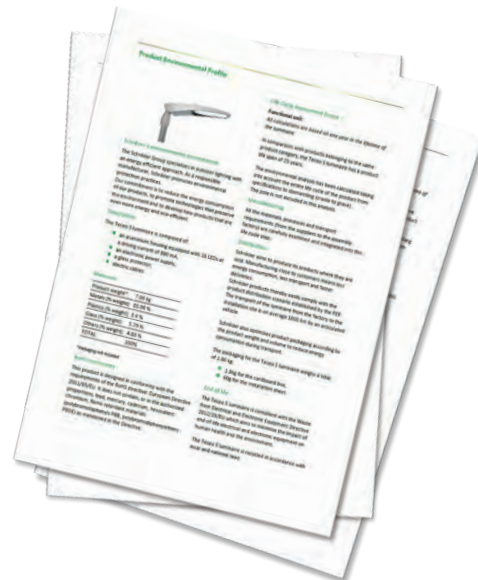


Transparency throughout the complete product life cycle

To provide our customers with clear information on the environmental impact of each luminaire, Schröder relies on **a product life cycle analysis tool** (Instant LCA), developed in collaboration with an independent agency (in accordance with the principles of ISO 14040:2006). The results are available in the **Product Environmental Profile** (PEP) documents.

They summarise the luminaire's life cycle assessment, by examining its environmental impact throughout its life cycle, from raw material extraction to end of life.

The PEP documents are available upon request to all customers to help them demonstrate their regulatory compliance and commitment to minimising their environmental footprint.



Building a circular ecosystem



Schröder takes the circular economy into account, right from the outset. From the concept phase, design guidelines not only consider the production and environmental impact of our luminaires. They also facilitate removing components and increasing the standardisation of parts and the materials' separability once their working life is over.

The **Schröder Circle Light Label** designates products that are optimised for a circular economy without compromising on quality.

We assess our luminaires to evaluate their potential circularity through 12 objective criteria in 5 categories:

- ✓ Performance
- ✓ Maintenance
- ✓ Refurbishment
- ✓ Non-destructive disassembly
- ✓ Recycling



The **Schröder Smart Label** allows installers and infrastructure managers to access essential luminaire information by scanning a QR code. It enables project specific details to be added during installation and facilitates communication between installers and city managers. Troubleshooting assistance and spare parts ordering are also available via the Smart Label, ensuring reliable information on luminaires, anytime, anywhere.

- ✓ Provides instant access to luminaire information via QR code scanning (works online and offline)
- ✓ Provides the ability to add key information during installation
- ✓ Facilitates interaction between installers and city managers
- ✓ Provides support for repairs and parts ordering

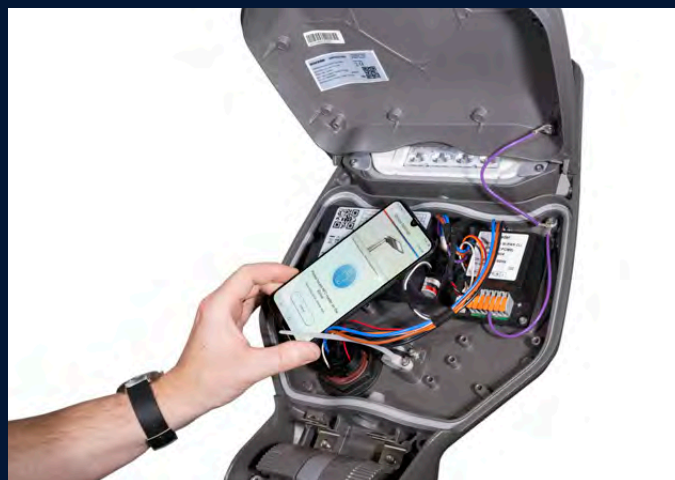


The **Schröder Circle Light App** is the practical tool for on-site programming and quick one-for-one driver replacement, to refurbish installed luminaires and extend their life while maintaining the desired operating mode.



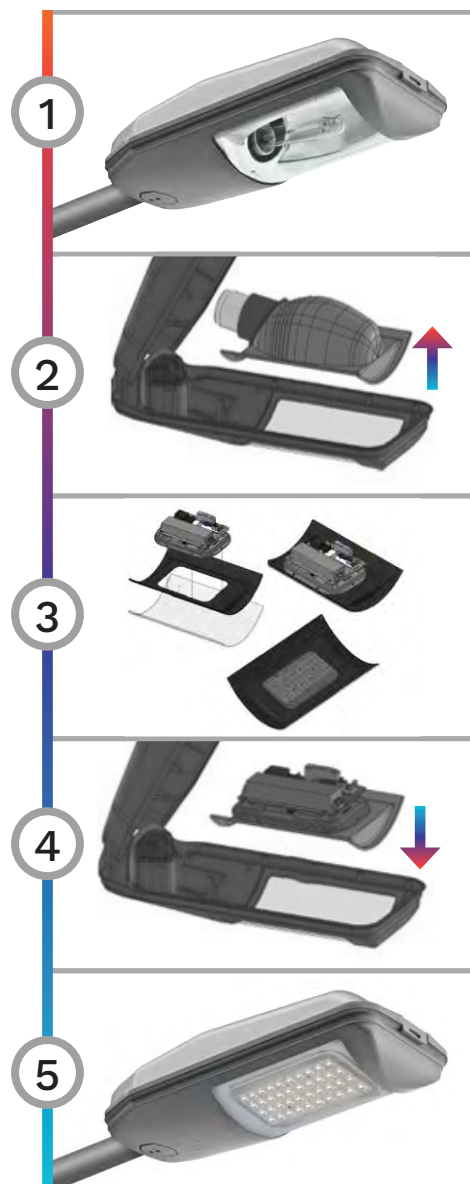
It helps lighting operators and installers to:

- ✓ Access all relevant luminaire information by scanning a QR code
- ✓ Program luminaire settings on site and reduce inventory complexity
- ✓ Capture asset installation data
- ✓ View installed luminaires on a map interface
- ✓ Read diagnostic information and operating history on site
- ✓ Extend luminaire life while preserving existing settings



Easily upgrade your existing installations with the **Schröder CIRCLE LED BASE** retrofit kits, sustainable solutions that extend the life of your luminaires. They help you reduce waste, comply with light pollution regulations, minimise maintenance and save energy. With the CIRCLE LED BASE, you can meet the principles of a circular economy without the need for new wiring or changes to your existing lighting infrastructure.

- ✓ **Easy to upgrade:** adapts to existing luminaire frames for LED conversion or replacement.
- ✓ **Easy installation:** plug-and-play design for quick and convenient installation.
- ✓ **Extended infrastructure life:** replace light sources for improved efficiency, preserving existing infrastructure.
- ✓ **Enhanced performance:** superior features including glare control, flicker control, extended life, light pollution reduction and improved safety.

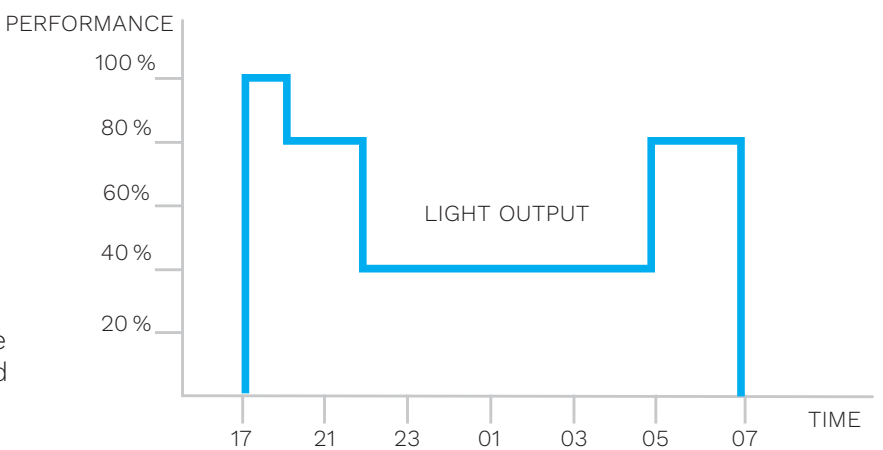




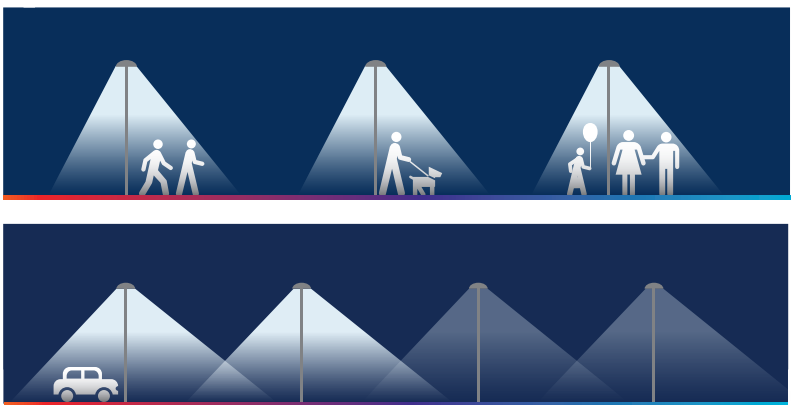
Solutions for maximised energy efficiency

CUSTOM FACTORY DRIVER SETTINGS

Intelligent luminaire drivers can be programmed in the factory with complex dimming profiles. The period between switching on and switching off is used to activate the **preset dimming profile**. The customised dimming system generates maximum energy savings while respecting the required lighting levels and uniformity throughout the night.



SENSORS FOR AUTONOMOUS DYNAMIC SCENARIOS



Photoelectric sensors switch on the luminaires exactly when natural light becomes insufficient (cloudy day, night fall, etc.) so as to provide safety and comfort in the public space.

In places with little nocturnal activity, lighting can be dimmed to a minimum most of the time. By using **motion sensors such as PIR sensors or radars** (taking into account speed and direction criteria), levels can be raised as soon as a pedestrian or a vehicle is detected in the area.

ADVANCED REMOTE CONTROL SYSTEMS

With its user-friendly remote control systems for intelligent lighting, Schröder integrates advanced features for **programming the most efficient dimming profiles based on endless variables** (calendar days, special events, seasons, etc.) while providing safety, comfort and a sense of well-being for people.

Schröder can integrate smart lighting applications such as the ability to adapt the colour of the light or build dynamic lighting scenarios through PIR sensors or radars. As they offer **complete interoperability**, Schröder control systems can manage controllers/sensors and control luminaires from other manufacturers.



Towards environmental excellence of the built environment



We encourage our customers to think strategically about sustainability, co-creating solutions that improve their performance against a wide variety of sustainability criteria. By drawing on our long experience in designing high-performance, low-energy spaces, we can deliver lighting solutions with all the necessary documentation to **help our customers achieve BREEAM certification**.

BREEAM (Building Research Establishment Environmental Assessment Method) is a certification based on the leading sustainability assessment method for buildings, communities and infrastructure projects.

Using Schröder solutions, up to 17 credits (counting for 6 of the 10 criteria considered) can be achieved in the BREEAM assessment.

More information:
www.breem.com



YOUR PARTNER IN SUSTAINABILITY



Tackling climate change with renewable energy

SOLAR SYSTEMS TO DECARBONISE LIGHTING

With its solar-powered systems, Schröder helps cities and municipalities decarbonise their lighting. The combination of the best technology for harvesting, storing and releasing solar energy with the latest lighting concepts guarantees the best use of renewable energy in the fight against climate change.



SIGNIFICANT SAVINGS COMPARED TO GRID LIGHTING

LED-based solar street lighting solutions are becoming more accessible and cost-effective, driving their adoption in various regions. They provide cities and municipalities with various types of savings.



Energy savings

No electricity bills. Solar systems operate autonomously, using only renewable energy from the sun.



Installation savings

No need for electrical infrastructure. Installation costs are much lower than grid-connected lighting, especially in remote areas or areas with difficult terrain.



Maintenance savings

No reliance on power transmission or distribution infrastructure. There are fewer components to wear out or require maintenance. The solar panels are self-cleaning.



Environmental savings

No heavy infrastructure work to install. No greenhouse gas emissions or other environmental impact during operation.



A SUSTAINABLE SOLUTION FOR MANY APPLICATIONS

Solar lighting has become a credible alternative to grid-powered lighting for a wide range of typical outdoor applications: from roads to bike paths, car parks to campuses, recreational sports facilities to business facilities, solar lighting may be the best solution for your project!

SOLAR-ENABLED SCHRÉDER LUMINAIRES SETTING THE INDUSTRY STANDARD

The IZYLUM, TECEO GEN2 and CITEA NG2 ranges now have specific solar versions as part of the Schröder EKINOX powered by Sunna Design range. With up to 180 lm/W, these optimised solutions make the most of every available watt of solar energy to create safe and comfortable conditions for end users.



Schröder EKINOX Sunna Design
Sustainable outdoor lighting solutions

Click for more information



Being responsible for the community

The right light where, when and how it is needed

The art of smart lighting consists of putting the kind of light you request where you need it, and taking it away from where you don't require it and when you don't want it. Schröder is your partner for **maximising the advantages of lighting while taking care of the environment** and improving your operational benefit.

With our modern and versatile technologies enabling a **"Dim It, Aim It, Tone It, Change It"** philosophy, we offers our customers complete flexibility to modulate light according to any environmental challenge.



A guarantee of the best photometric solution

As pioneers in lighting technology, our lighting solutions deliver the right light in the right place.

We have developed **numerous photometric engines** over the years to provide **the best solution for every project** in terms of performance, comfort, desired outcome and return on investment. We constantly strive to innovate and develop solutions that are as positive for people as they are sustainable for the environment.

We combine our technical and photometrical know-how to **meet the most demanding lighting standards.**

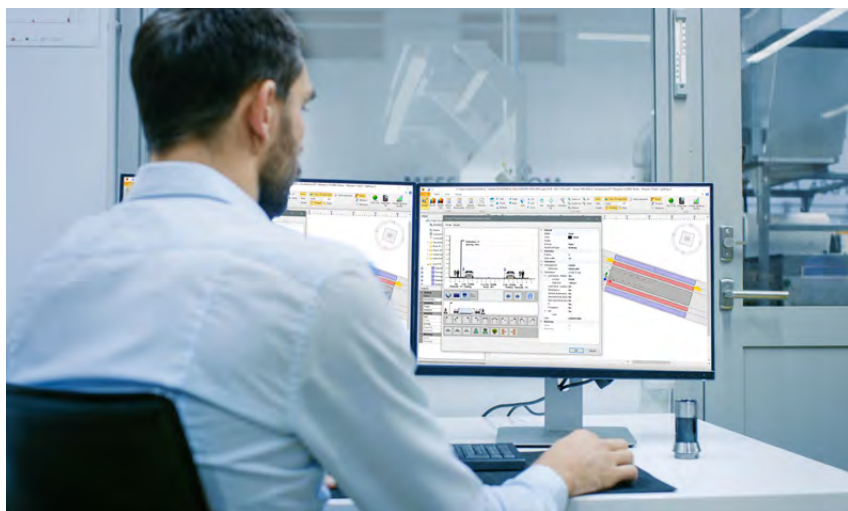
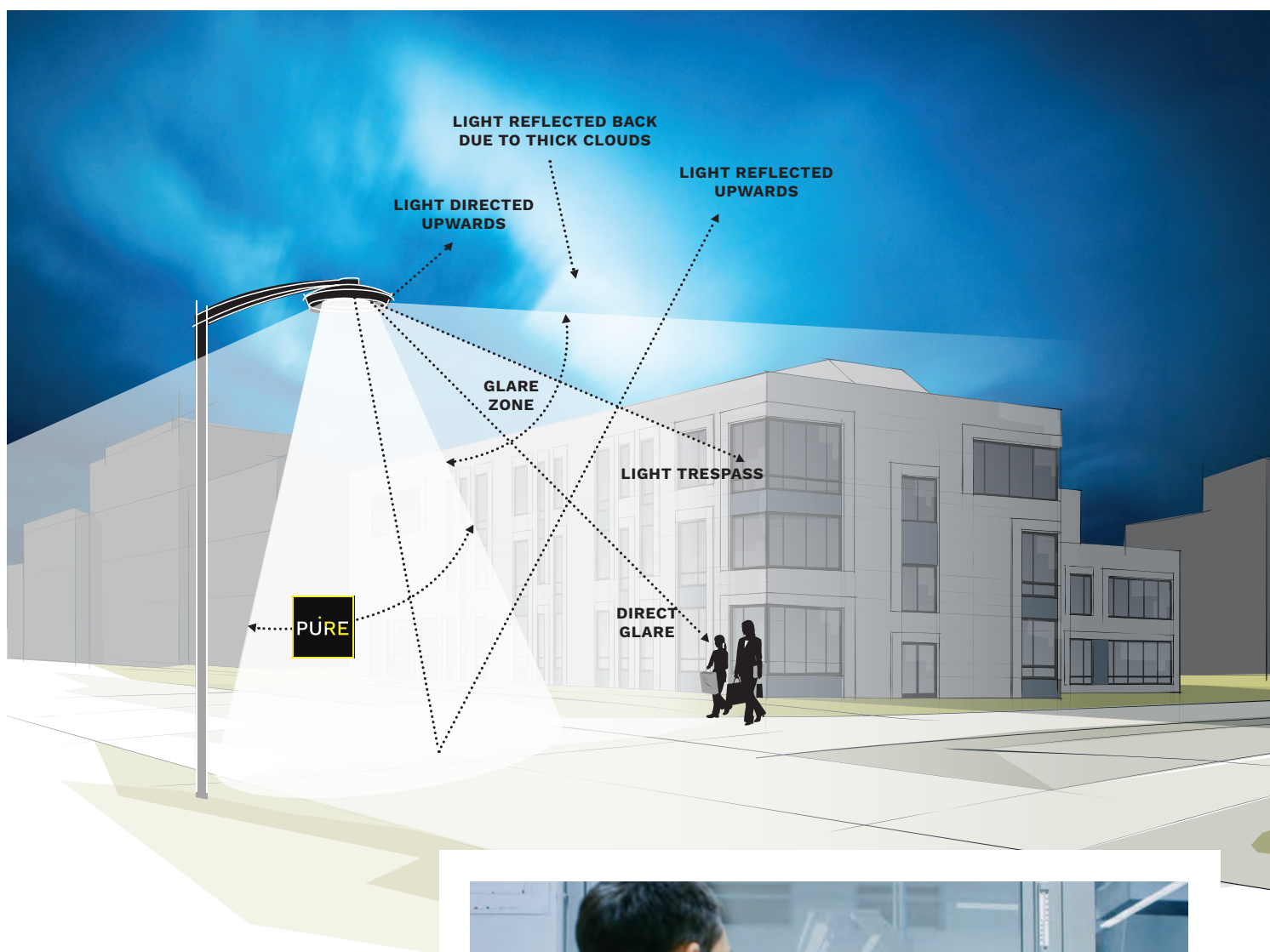


	LENSO FLEX®	MID FLEX™	PRO FLEX™	CONTI FLEX™	BLAST FLEX™	RE FLEXO™
LED type	High-power 2mm ²	Mid-power 2mm ²	High-power 2mm ²	High-power 2mm ²	High-power 2 or 4mm ²	High-power 2 or 4mm ²
Optic	PMMA lenses	PMMA lenses	Polycarbonate lenses	PMMA lenses	PMMA collimators	Aluminium reflectors
Protector	Flat glass or deep protector	Flat glass	Lenses integrated in the PC protector	Flat glass	Flat glass or PC protector	Flat glass or PC protector
Options (depending on luminaire)	Back light control Glare limiter	-	Back light control	-	Back light control Glare limiter	-
Typical applications	All road, urban, tunnel applications and beyond	All road applications and beyond	All road applications and beyond	Continuous line lighting in tunnels	Floodlighting and large areas	Where very asymmetrical beams and visual comfort are both required
Number of optics	77	11	32	4	13	14

PureNight: dark sky, bright ideas

PURE

With its PureNight concept based on high-end lighting designs with state-of-the-art photometrical platforms and aiming accessories, Schröder offers the ultimate solution for bringing the night sky back without switching off cities. With Schröder PureNight solutions, you can **direct the light only where it is wanted and needed**.



The right colour temperature at any time

**FLEXI
WHITE**

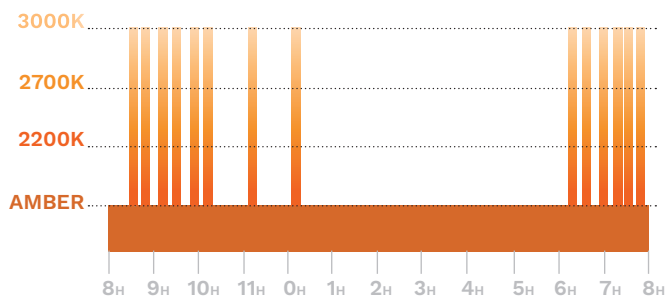
To choose is to forsake. When it comes to deciding which colour temperature you will opt for, it is never a happy moment. You know that a colder white light optimises performance while a warmer one is more preferable to people and animal natural cycles. What if you didn't have to choose? The Schröder FlexiWhite solution offers you the freedom to use the right colour temperature at any time.

Whether it relies on pre-programmed scenarios, works with the our remote control systems, uses sensors or a mix of all three, the FlexiWhite solution offers you the flexibility to provide **the right level with the right colour temperature at the right place and the right time.**

CASE #1

Preservation of nature, promotion of active mobility

Environment: Bike/pedestrian path
FlexiWhite solution: Amber as default, 3000K upon detection.



AMBER
Nature-friendly, minimal safety lighting

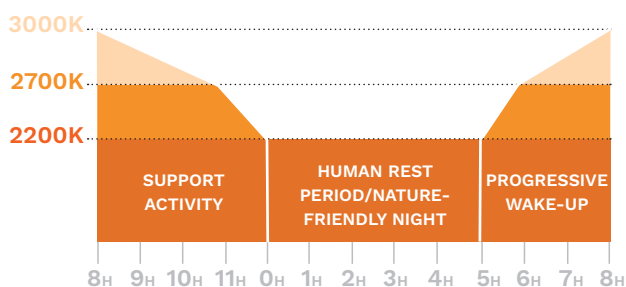


3000K
people detection, maximised safety and comfort (high visibility)

CASE #2

Attractiveness, ambiance and circadian rhythm

Environment: City centre
FlexiWhite solution: 2200K, 3000K and everything in between.



3000K – 30lux
Early evening/early morning
Stimulating atmosphere



2700K – 20lux
Evening/early night
Quieter ambiance



2200K – 5lux
Night
Completely calm mood

Complying with the strictest environmental regulations

Each country, if not each region, has its own environmental regulations. They can be more or less strict and focus on certain specific criteria. All of them are largely inspired by the **EU green public procurement policy** for road lighting, issued in 2019.

Regulation strives to:

- ✓ Limit ULOR to max. 1%;
- ✓ Reduce glare: at least 95% of the light emission is confined to angles below 14.5 degrees from the horizontal;
- ✓ Restrict the emission of blue light with CCT <3000K;
- ✓ Restrain the amount of light to less than 35lm/m²;
- ✓ Prohibit intrusive lighting towards dwellings and any kind of lighting of waterways and the sea.

The PureNight certification software developed by Schröder guarantees that **your lighting solution satisfies environmental laws and requirements**. Schröder has its own certified laboratory and is also endorsed by numerous independent certification bodies.





Preserving the ecosystem

Fauna and flora can suffer from high light intensity, the colour spectrum (blue light) and excessive lighting over time. **Only experts can minimise the disturbance to the different species of fish, insects and endangered animals.**

Trees and hedgerows are natural environments for bats, while rivers and canals are also important for foraging. Certain species of bat are very sensitive to light.

Light pollution, i.e. excessive lighting and uncontrolled light spill, contributes significantly to insect mortality.

The **Schröder PureNight photometry meets dark-sky specifications** (0% ULOR and 2200K) and take advantage of accessories (backlight control and glare limiter) to focus the light only where it is needed.

Schröder's FlexiWhite solution combines dimming and colour temperature changes according to fixed or on-demand scenarios with sensors for **safe and environmentally-friendly lighting**.

The IP66 design of our luminaires prevent insects from entering and being captured in the housing. With low driving current, the outer surface of the housing maintains a low temperature, preventing insects from dying from the heat.

With the right luminaire design, photometry, colour temperature and dimming scenario, Schröder protects wildlife and contributes to the preservation of the ecosystem.



YOUR PARTNER IN SUSTAINABILITY





Supporting communities towards active mobility

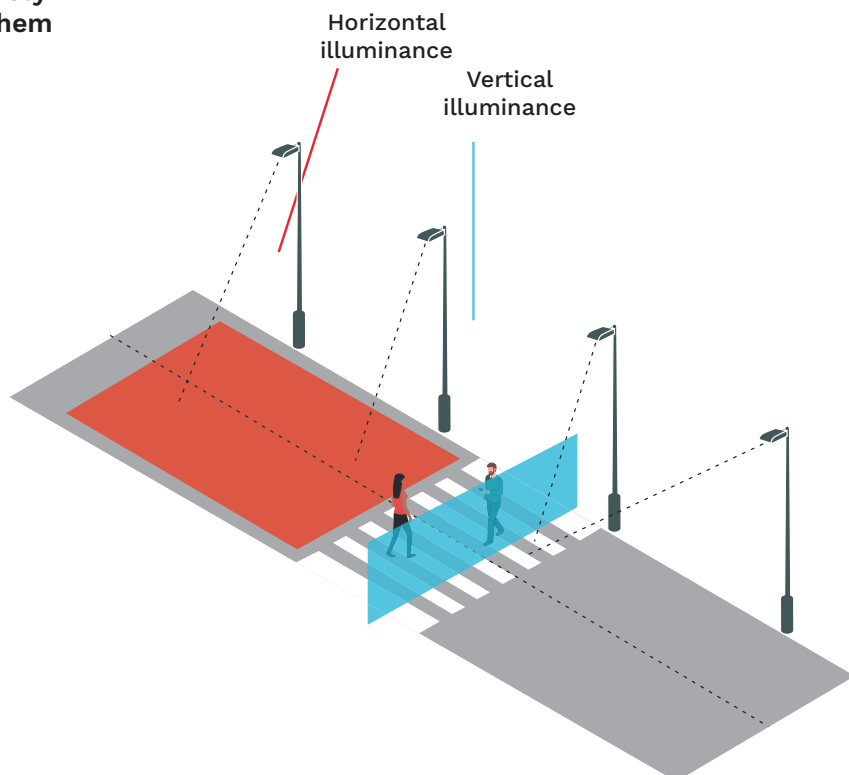
SOLUTIONS FOR SAFE PEDESTRIAN CROSSINGS

Effective lighting for pedestrian crossings needs to do three things. Firstly, ensure the crossing is highly visible and distinguishable from the surrounding area. Next, it needs to give drivers clear visibility of pedestrians approaching and using the crossing. And finally, lighting should minimise glare for drivers.

Schröder has a long history of developing specific optics to light pedestrian crossings to **ensure safety for both motorists and pedestrians and help them share the public space** in a safer manner.

It comes down to providing a lighting solution that has a high vertical illuminance on pedestrians, so they are clearly visible from the driver's position, and horizontal illuminance on the pedestrian crossing for people crossing the road.

Of course, our solutions save energy, are sustainably manufactured and look aesthetically pleasing, as well.



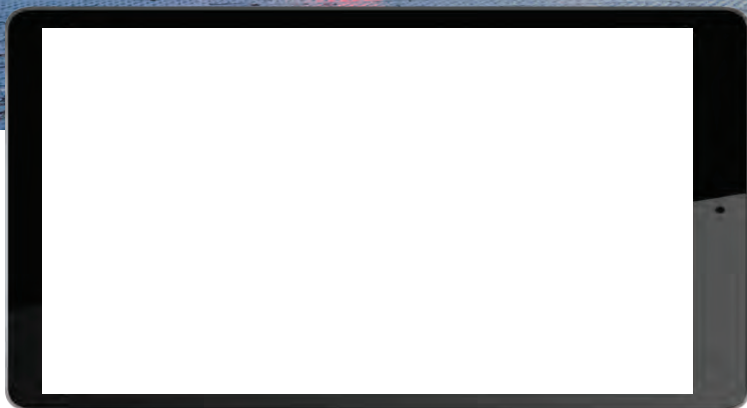
SMART LIGHTING, SMART BIKING

We are living in the age of the cycle revival. Electric bikes also are becoming more affordable, meaning that this trend is very likely to continue. But getting a bike is only part of the story: **safe, attractive routes and user-friendly infrastructure** play a huge role in encouraging people out of their cars.

When it comes to switching to cycling, feeling safe is just as important as being safe. Lighting plays a huge role in this, and it's something that we've quietly

become experts in over the years at Schröder, helping cities from Rio to Budapest to not just accommodate, but actively encourage, cycling.

Our smart lighting solutions for bicycle paths ensure that we provide the right light at all times in the right places. They **minimise energy consumption, respect wildlife, facilitate network expansion, optimise maintenance operations** and asset management while offering the best user experience.



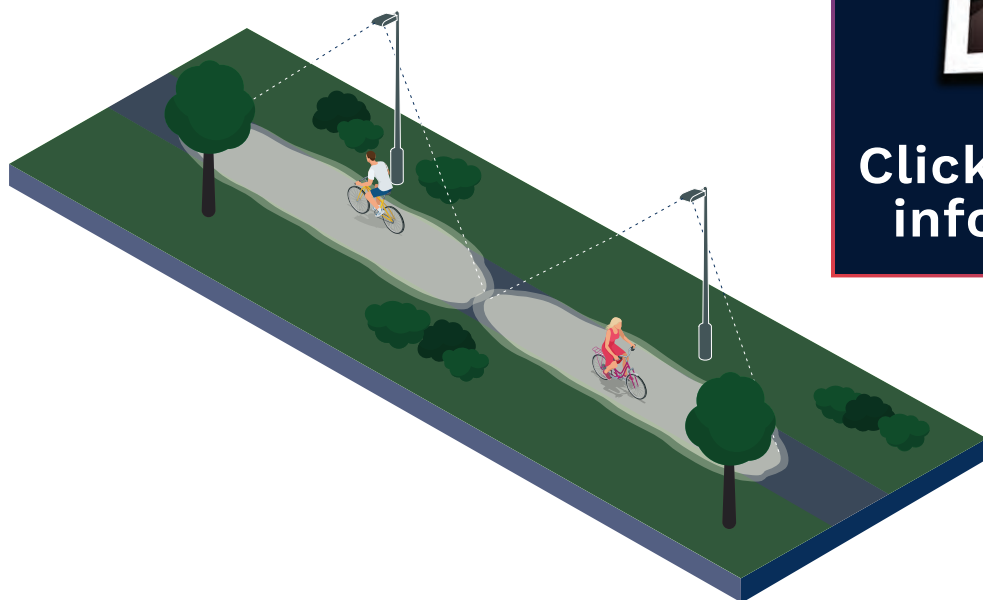
Schröder
Iluminación Exterior

FOCUS

Carriles de bicicletas

Soluciones de iluminación que marcan la diferencia.

Click for more information





Being responsible with people

Valuing difference, being inclusive, and embracing diversity

At Schröder, every employee is valued for her or his skill set. We actively look for and choose employees based on their experience and the value they bring to the company. This concept is underlined in our **Code of Conduct**.

The diversity of the staff, in all its forms (skills, experience, age, gender, culture, etc.), is **a source of renewal, innovation and creativity**. In line with the UN's goals, we decided to focus our efforts primarily on gender diversity and equality, as this is still an on-going concern in society as a whole.



Protecting human rights

Schröder has adopted the Responsible Business Alliance (RBA) Code of Conduct as its standard on human rights. Our goal is to **protect human rights directly and indirectly** by ensuring that Schröder's entities and their supply chain are safe and that workers are treated with respect and dignity.

We require all our suppliers to confirm adherence and compliance with the RBA standard.

More info: www.responsiblebusiness.org

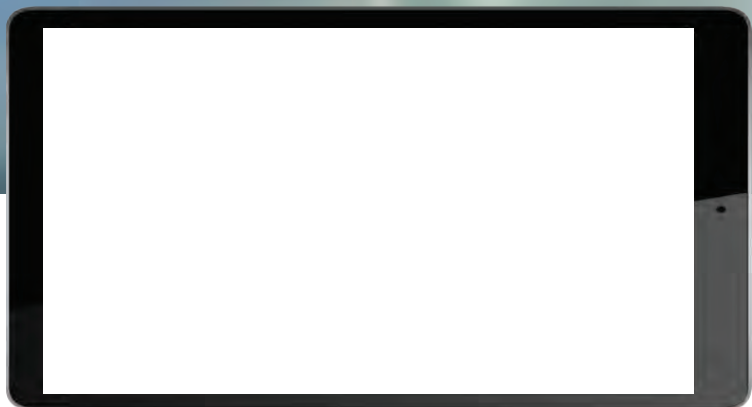




Training and education

Schröder has developed its own internal training academy called SKILL, which stands for Sharing Knowledge in Light and Lighting. SKILL's mission is to **increase Schröder employees' and stakeholders' competencies to successfully face changes** in the lighting market such as smart lighting and new control systems. SKILL also develops e-learning and online courses, both for Schröder employees and customers.

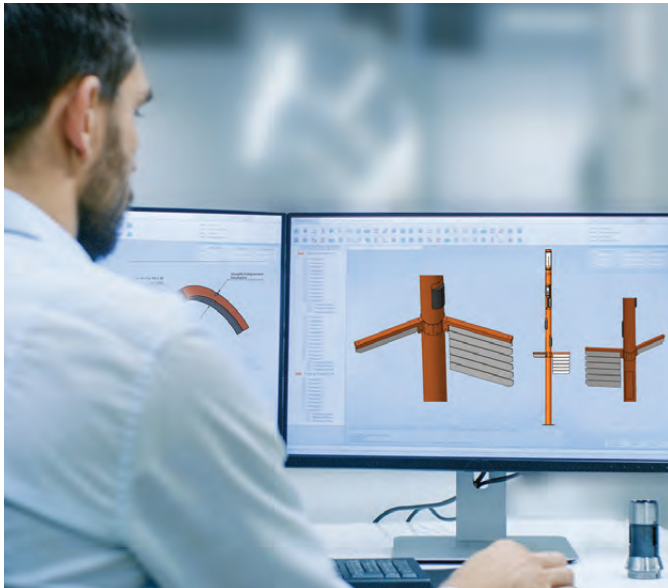




Creating your custom solution

While our standard lighting solutions are engineered for performance and designed for customer satisfaction, we regularly receive requests for a bespoke touch or a more unique solution. Schröder STUDIO comes into play to deliver a bespoke solution that fulfils customer expectations and environmental specifications.

From stock... or not!



Customer feedback plays a critical role in our innovative design process and we are continuously extending and improving our ranges. Yet, sometimes, our customers face specific technical constraints.

Schröder STUDIO - our in-house custom design service - takes up the challenge, **engineering dedicated solutions** that match the same high quality as our standard luminaires.

Schröder STUDIO tweaks and optimises features **to meet our customers' own technical preferences**. These solutions, which meet specific individual requests, are designed to enable mass production, if needed.

Pairi Daiza - BELGIUM



Full-scope service



Our efficient, transparent process delivers **quality custom products** in a short time. It all starts with a feasibility study and a cost assessment.

The design phase explores every possible way of delivering the result. We work with multiple software packages to **provide the calculations and visuals to facilitate validation**. To ensure that the final product will meet expectations at every level, we use **rapid prototyping to test the functionalities**.

This allows stakeholders to explore the fine details while enabling us to propose improvements for the final design.





Bruges - BELGIUM



Bernheze - THE NETHERLANDS



Vienna - AUSTRIA



Paris - FRANCE

STUDIO

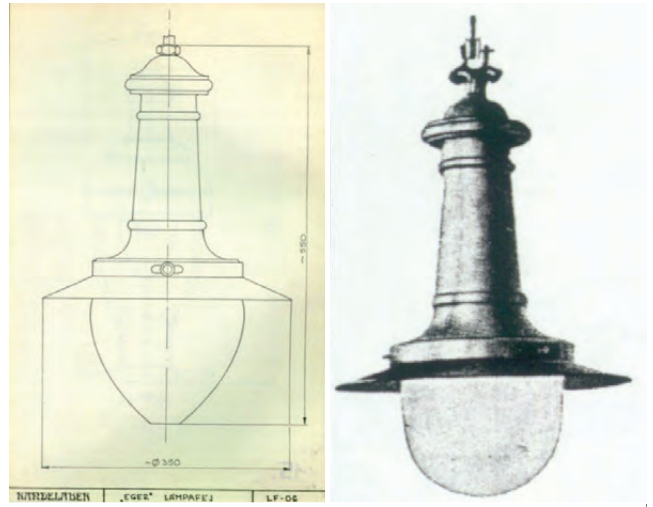
Customisation, retrofitting or re-creation

The expertise of Schröder STUDIO also includes retrofitting existing luminaires or the complete re-creation of heritage lanterns with modern and connected LED technology.

Whether customers are looking for lanterns for castle grounds, luminaires for an eastern style bazaar or a customised fixture, we can create **tailor-made solutions** to suit their specific needs.

With the support of our Kandeláber team in Hungary, we transform their ideas into reality, even if they are just based on a few sketches.

Put your thoughts on paper, send us your drawings or an old photo and we will **design and develop your concept**.



Budapest - HUNGARY



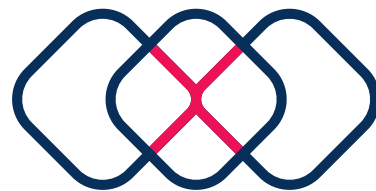
Schröder STUDIO adapts, retrofits or re-creates luminaires according to your technical preferences, with the same quality requirements we apply to our standard portfolio.

EXEDRA



Your city
as smart
as you want

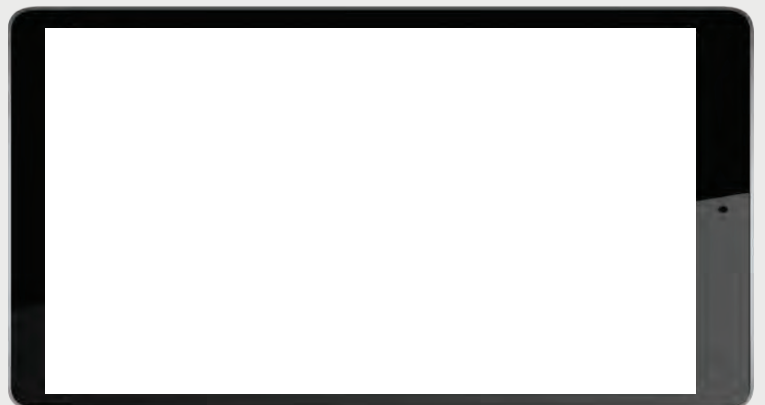
Schröder EXEDRA is the most advanced lighting management system on the market for controlling, monitoring and analysing streetlights in a user-friendly way. It is the right tool for aligning value with short- and mid-term targets while sustaining a long-term vision.



EXEDRA

KEY ADVANTAGES

- › Remote control to maximise energy/maintenance savings while providing the right light to keep people safe and comfortable at any time in outdoor environments
- › Technology-agnostic platform: shared and open technologies to unlock complete interoperability
- › Plug-and-play solution
- › Intuitive and comprehensive City Management System for smart device management
- › Fully customisable user interface with personalised dashboards
- › Data collection, aggregation and analysis for decision-making based on practical visualisation and reports





THE SKY IS THE LIMIT

With EXEDRA, Schröder has developed **a futureproof platform** that combines the constant need to address new challenges and to evolve with technology. Schröder relies on open standards and protocols to design an architecture able to interact seamlessly with third-party software and hardware solutions.

AT THE TOP OF YOUR GAME

Schröder EXEDRA includes **all the advanced features needed** for smart device management, real-time and scheduled control, dynamic and automated lighting scenarios, maintenance and field operation planning, energy consumption management and third-party connected hardware integration.



SIMPLICITY, THE ULTIMATE SOPHISTICATION

Schröder EXEDRA is **a plug-and-play solution** that enables quick and easy deployment of a connected lighting network. An intelligent **automated commissioning** process recognises, verifies and retrieves luminaire data in the user interface.

GREAT INSIGHTS, GREAT DECISIONS

Data is gold. Schröder EXEDRA provides this with all the clarity managers need to drive decisions. The platform collects massive amounts of data from terminal devices and aggregates, analyses and intuitively displays them to **help end-users take the right actions**.



PROTECTED ON EVERY SIDE

Schröder EXEDRA provides **state-of-the-art data security** with encryption, hashing, tokenisation, and key management practices that protect data across the whole system and its associated services.

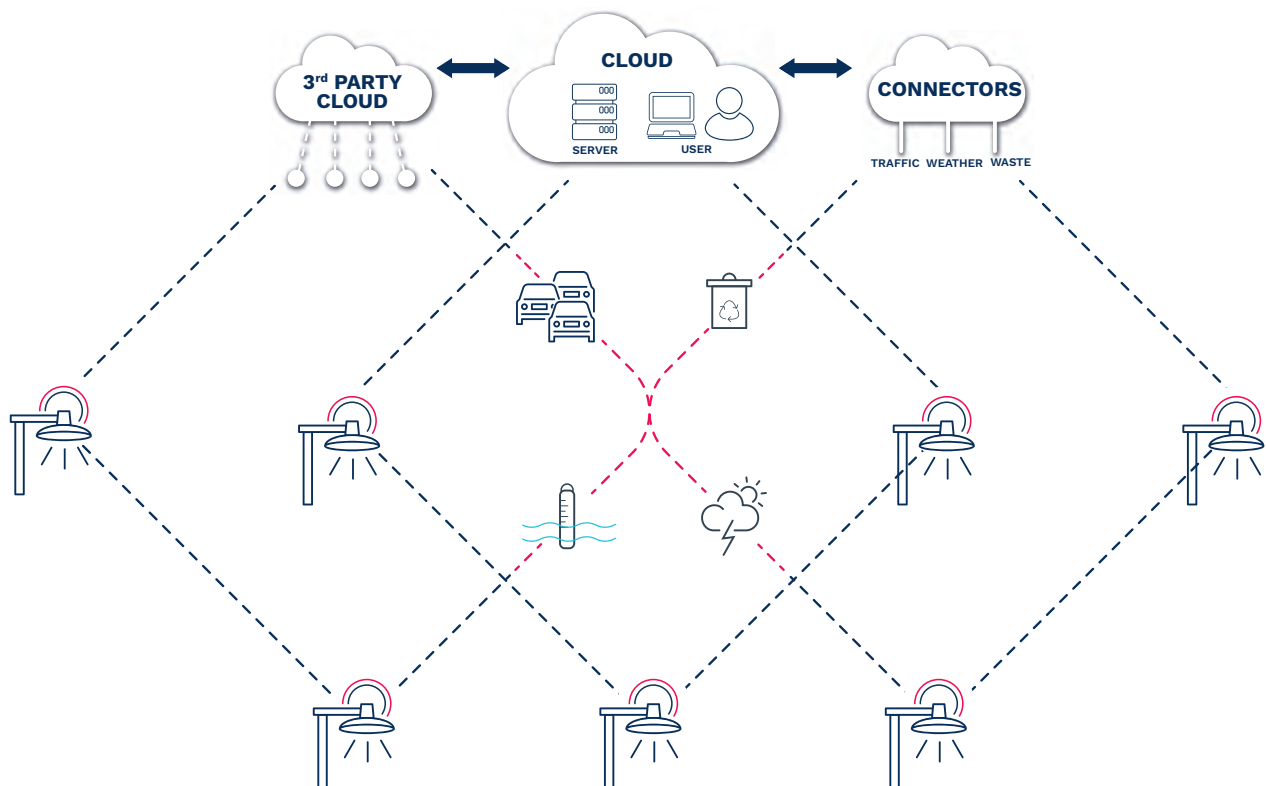


Standardisation to enable custom IoT solutions

The Schröder EXEDRA system architecture is designed to interact with other software and hardware solutions seamlessly. How is this possible? Unlike proprietary systems that prevent interoperability and generate vendor lock-in or expensive proprietary integrations, Schröder EXEDRA is **a complete solution based on open standards and protocols.**

Schröder plays a key role in driving standardisation with alliances and partners such as uCIFI, TalQ or D4i. Our joint commitment is to provide **solutions designed for vertical and horizontal IoT integration.** From the body (hardware) to the language (data model) and the intelligence (algorithms), the complete Schröder EXEDRA system relies on shared and open technologies.

This interoperable platform ensures that customers can connect existing or third-party systems/devices to Schröder EXEDRA and even means that we are open to working with our competitors.



EXEDRA

Our ecosystem partners for technology-agnostic solutions



The end of proprietary wireless communication networks for smart cities and utilities

The uCIFI Alliance is open to any industrial company, consulting firm, end customer, public authority, utility and other entity, that is committed to developing open, non-proprietary solutions to unlock the smart city and smart energy markets.

www.ucifi.com



The global smart city protocol

The TALQ Consortium aims to define a globally accepted smart city protocol for central management software, to configure, control, command and monitor heterogeneous smart city device networks.

www.talq-consortium.org



Interoperability of luminaires, sensors and/or communication nodes

The Zhaga consortium joined forces with the DiiA to produce a single Zhaga-D4i certification that covers all the critical features including mechanical fit, digital communication, data reporting and power requirements within a single luminaire, ensuring plug-and-play interoperability of luminaires (drivers) and peripherals such as connectivity nodes.

www.zhagastandard.org



Open, flexible and secure cloud computing services

Microsoft Azure is an ever-expanding set of cloud services provided with the highest levels of trust, transparency, standards conformance and regulatory compliance. Microsoft Azure offers the freedom to build, manage, and deploy applications on a massive, global network using customers' favourite tools and frameworks.

www.azure.microsoft.com



FULLY CONFIGURABLE DASHBOARD

Customise your working environment: add, move, resize and organise widgets for each and every stakeholder's personal dashboard.



INTEGRATED INVENTORY AND DEVICE MANAGEMENT

Retrieve, create, edit or delete luminaires, cabinet controllers, meters, electric cables, sensors and more.



DEVICE STATUS AND REAL-TIME INSIGHT/CONTROL

Stay connected to your network. Navigate on a map view to check key performance indicators and device statuses, and manage them when needed.



LIGHTING SCHEDULES

Program your lighting. Create and edit your dimming profiles based on endless variables (calendar days, special occasions, season, etc.). Assign these rules to configurable groups of luminaires.



DYNAMIC LIGHTING

Maximise your benefits by associating sensors with groups of luminaires to trigger pre-defined lighting scenarios.



REPORTS, ALARMS AND DATA ANALYTICS

Anticipate and react in real time. Configure warning messages, get useful insights using the reports. Take advantage of aggregated data to make informed decisions.



ENERGY CONSUMPTION MANAGEMENT

Keep bills under control. Monitor, meter, compare. Schröder EXEDRA provides all the relevant features to help you improve energy efficiency.



TICKETING SYSTEM

Organise field operations through a fully integrated ticketing system that will help you optimise your asset management and maintenance.





AUTOMATION

Take advantage of the Schröder EXEDRA automation centre to easily customise advanced sequences of automated actions based on the conditions and rules you have defined.



USER MANAGEMENT

Distribute roles and rights to all project stakeholders according to their missions and responsibilities.



MULTI-TENANT

Configure and manage different zones independently. Thanks to Schröder EXEDRA multi-tenant architecture, contractors, utilities or big cities are able to segregate areas.



APPLICATION SOLUTION

Connect different types of hardware from various manufacturers to the EXEDRA UI. This applies to both light control and other applications: environmental monitoring, smart water, smart grid, smart parking, smart waste and more.



Click for more information





Anytime, anywhere,
connect to your street
lighting with the
Schröder EXEDRA App

The Schröder EXEDRA mobile application offers the essential functionalities of the desktop platform, to accompany all types of operator on site in their daily effort to maximise the potential of connected lighting.

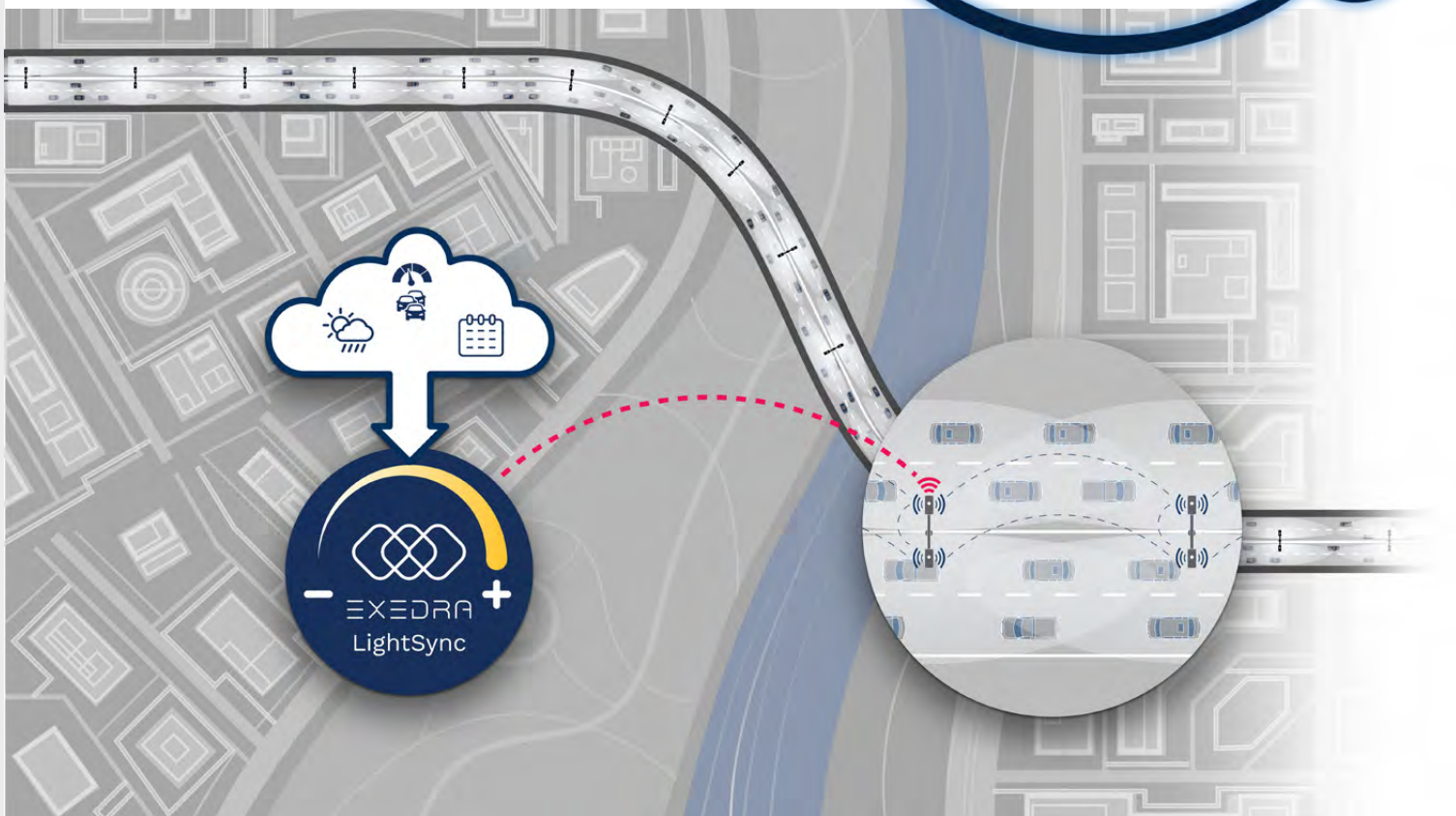
- > Commission your connected luminaires quickly and easily
- > Search for any connected luminaire, using geolocation, a unique ID or a QR code
- > Manage your assets (add/edit any critical information in the database)
- > Perform a test procedure to check any connected luminaire
- > Set alarms, create tickets and assign them to maintenance operators
- > Control and adjust your luminaires in real time



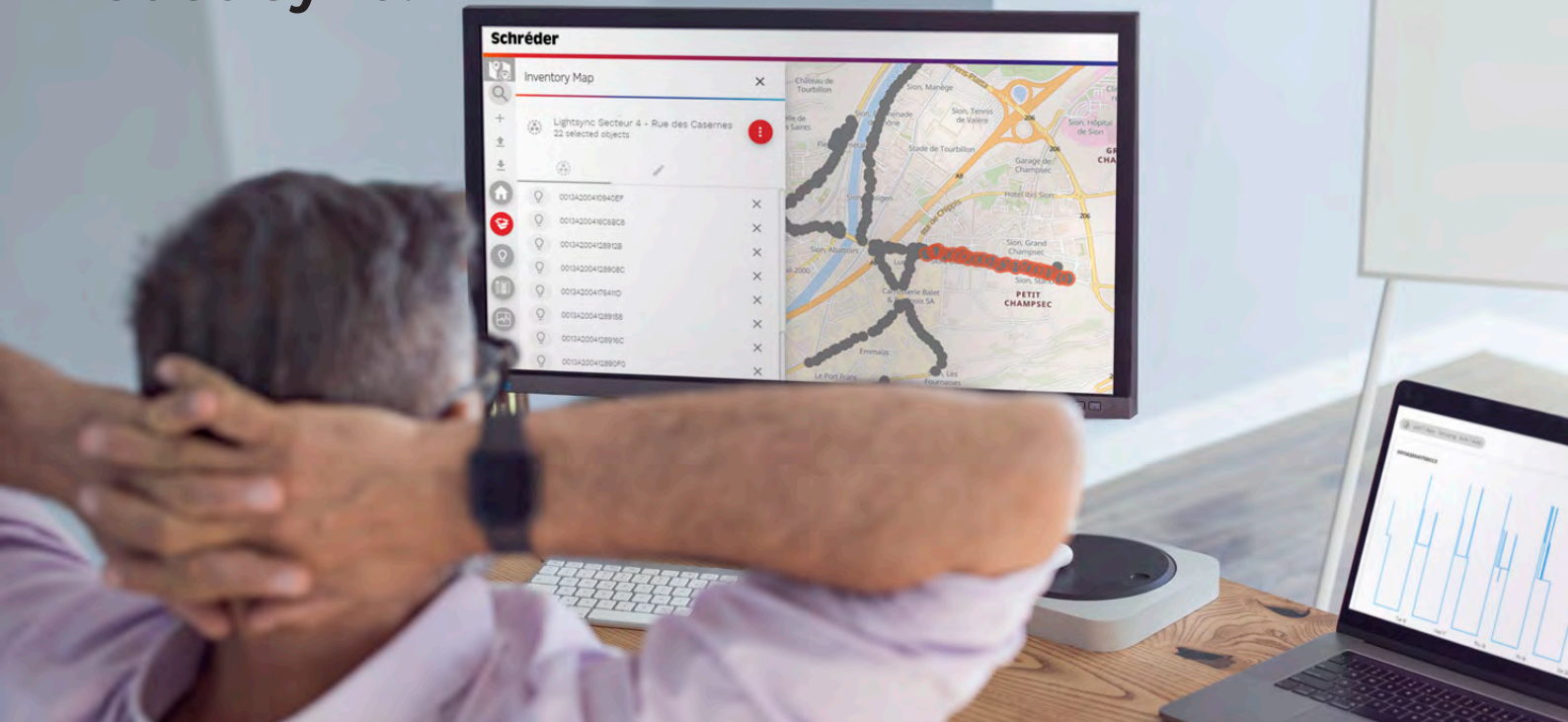
Schröder EXEDRA LightSync: continuous adjustment of lighting levels to actual conditions

Schröder EXEDRA LightSync is an innovative service offered by the Schröder EXEDRA platform. It uses real-time data to continuously adjust the lighting level of a group of luminaires based on local traffic and weather conditions. With Schröder EXEDRA LightSync, cities can achieve the perfect balance between the safety and well-being of citizens, convenience and the sustainable use of outdoor lighting infrastructure.

Schröder EXEDRA LightSync uses georeferencing to collect environmental data and analyses factors such as traffic and weather via the Schröder EXEDRA platform. This information is used to calculate the appropriate lighting level and control commands are sent to all the luminaires in the group. The system retrieves updated data up to every 15 minutes, ensuring a rapid response to changes in the environment. If data is unavailable, the lighting level reverts to the pre-defined control program until data becomes available.



Skip the hardware
 Stop worrying about events
 Forget calendars
 Just sync!



> **Optimised energy savings**

Schröder EXEDRA LightSync helps street lighting operators achieve a better balance between reducing light levels to save energy and ensuring the safety and well-being of road users.

> **Enhanced convenience**

The appropriate dimming profile and calendar are set once, as the service automatically adapts to surrounding events. This eliminates the need for managing multiple calendars for different situations.

> **Integration with third-party platforms**

The service leverages traffic and weather data from third-party platforms, eliminating the need for additional specific sensors in remote locations.

> **Lower dimming levels**

With the ability to automatically restore high lighting levels when the density of users increases, Schröder EXEDRA LightSync enables cities to operate at lower dimming levels than traditional profiles/calendars allow.

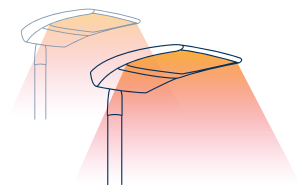
Pulls information from available data sources or types



Computes the adequate lighting level



Adapts the lighting accordingly



Collect, monitor, generate insights, process and adapt

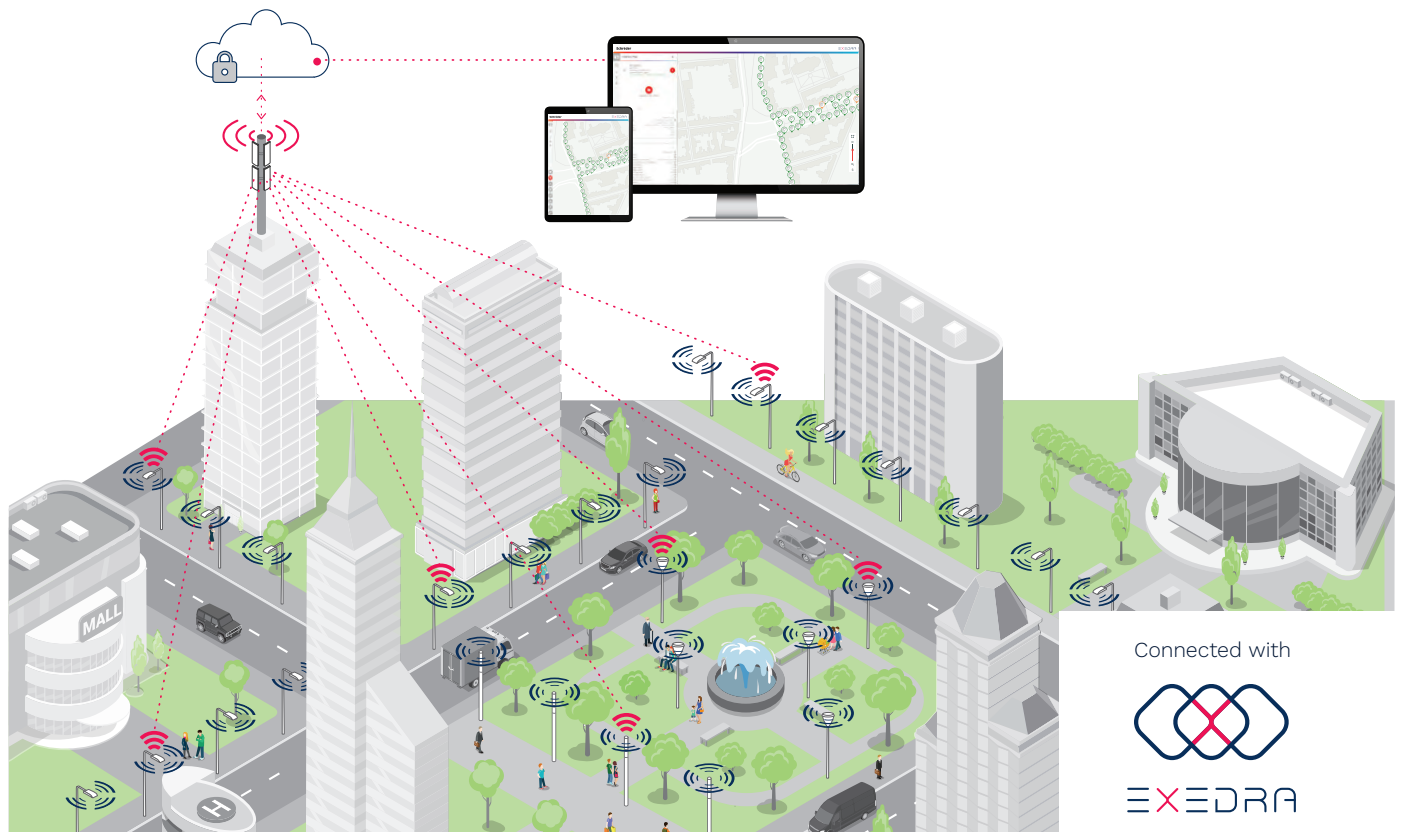
OWLET IV:

the state-of-the-art
wireless controllers
designed for EXEDRA

OWLET IV luminaire controllers operate Schröder's luminaires and luminaires from third parties. They offer easy installation and have fast plug-and-play commissioning. OWLET IV controllers use both cellular and mesh radio networks, **optimising geographical coverage**

and redundancy for continuous operation. DATALIFTs use mesh network to aggregate information from a cluster of MESHNODES, and forward this on to the IoT platform using cellular connectivity. Among other features, OWLET IV controllers use advanced

cybersecurity mechanisms to protect the deployment in the city and provide accurate power outage information to the city's streetlight managers. OWLET IV controllers are managed with EXEDRA, Schröder's advanced smart lighting management platform.



FEATURES

- > Hybrid architecture: local mesh (MESHNODES and DATALIFTs) and cellular communication (DATALIFTs)
- > Gateway-less hybrid network architecture using WI-SUN mesh network & cellular connectivity
- > Built-in GPS and built-in photocell to control each luminaire based on local ambient light level
- > Embedded self-test capability to check installation
- > Offers responsive light-on-demand use cases triggered by local sensors
- > Over-the-Air (OTA) firmware update
- > End-to-end encrypted communication

KEY ADVANTAGES

- > Auto-commissioning: easy installation and plug-and-play
- > Auto-geolocation: GPS-location detection and time synchronisation
- > Real time dynamic lighting: mesh technology to broadcast sensor triggering event locally within a cluster of luminaire controllers
- > Last gasp messaging: power outage detection allowing a last message when power cuts off
- > Asset management: asset data import
- > Tunable white: ability to control luminaires with variable colour temperature



OWLET IV N

NEMA



MESHNODE N

DATALIFT N



OWLET IV Z

ZD⁴



DATALIFT Z

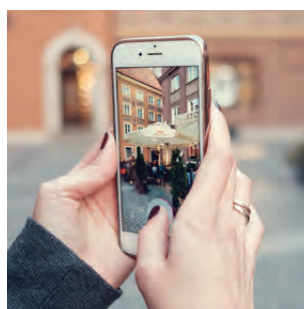
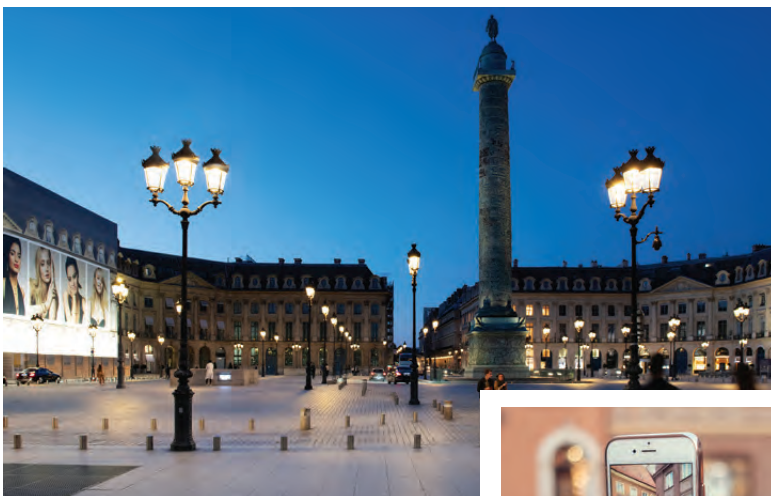
MESHNODE Z

Future-proofing the investment



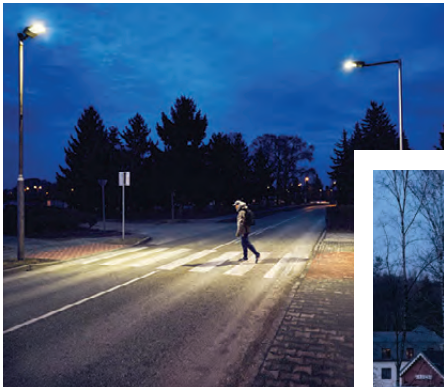
Schröder EXEDRA unifies the lighting network thanks to its ability to control nodes plugged into Zhaga/NEMA sockets and luminaires from multiple manufacturers. With an API, EXEDRA can interact with third-party asset management systems to merge the whole scheme into a unique, modern, insightful and user-friendly platform.

Backing the city branding



Schröder EXEDRA not only provides real-time monitoring of connected urban assets such as luminaires, litter bins or public WiFi. Thanks to its automation centre, you can define conditional rules, set up alarms and automate ticketing to optimise on-site maintenance operations. All IoT devices using the same open standards for data and communication can seamlessly integrate into the platform. And, of course, in these iconic places, lighting can be adapted according to specific schedules to support special events.

Maximising both savings and safety



Schröder EXEDRA enables the creation of lighting scenarios including the most efficient dimming profiles and light-on-demand features based on sensor detection. The selection of sensor(s) to which the luminaires react and the associated configuration parameters (i.e. trigger activation delay, hold time) are easily assigned to luminaire controllers. The detection events generate useful data for decision-making regarding future investments and priorities.

Protecting wildlife



Schröder EXEDRA provides a flexible control solution that enables the creation of various clusters of luminaires programmed with specific scenarios for dimming and colour temperature changes. On installation, the system imports all information related to the luminaire configurations chosen after a careful lighting study. This asset inventory feature enables the implementation of solutions optimised from a design and control point of view.

ROAD



“ Solutions for safe, comfortable, sustainable & connected roads ”



Schröder



ROAD

PRODUCT RANGE

IZYLUM 	 MID FLEX™ 2 PHOTOMETRY	 LENZO FLEX® 4 PHOTOMETRY	 SMART LABEL SERVICES	 CIRCLELIGHT SUSTAINABILITY	 EXEDRA CONTROL	
AVENTO 	 MID FLEX™ PHOTOMETRY	 LENZO FLEX® 2 PHOTOMETRY	 LENZO FLEX® 4 PHOTOMETRY	 SMART LABEL SERVICES	 CIRCLELIGHT SUSTAINABILITY	 EXEDRA CONTROL
VOLTANA 	 LENZO FLEX® 2 PHOTOMETRY	 PRO FLEX™ PHOTOMETRY	 SMART LABEL SERVICES	 CIRCLELIGHT SUSTAINABILITY	 EXEDRA CONTROL	
AMPERA 	 MID FLEX™ PHOTOMETRY	 LENZO FLEX® 4 PHOTOMETRY	 LENZO FLEX® 2 PHOTOMETRY	 SMART LABEL SERVICES	 CIRCLELIGHT SUSTAINABILITY	 EXEDRA CONTROL
TECEO 	 LENZO FLEX® 4 PHOTOMETRY	 SMART LABEL SERVICES	 CIRCLELIGHT SUSTAINABILITY	 EXEDRA CONTROL		
AXIA 3 	 PRO FLEX™ PHOTOMETRY	 SMART LABEL SERVICES	 EXEDRA CONTROL			
AXIA 3 EVO 	 PRO FLEX™ PHOTOMETRY	 SMART LABEL SERVICES	 CIRCLELIGHT SUSTAINABILITY	 EXEDRA CONTROL		
AXIA 2 	 PRO FLEX™ PHOTOMETRY	 SMART LABEL SERVICES	 EXEDRA CONTROL			

IZYLUM

Design: Indio da Costa



MAIN APPLICATIONS



A time-saving,
versatile, high-
performance
road and
urban solution

Based on Schröder's experience and proven track record with road and urban LED lighting, the IZYLUM luminaire benefits from numerous innovations.

IZYLUM provides the best experience for all stakeholders in public lighting: cities looking for a fast return on investment with an environmentally friendly, easy-to-operate lighting solution, contractors wanting to save time and avoid mistakes during installation, and citizens requiring safe and comfortable environments.

This connected-ready range of luminaires not only offers a realistic platform for smart cities; its compact, lightweight, optimised design minimises the carbon footprint at every stage of the product lifecycle.

IZYLUM stands out as the best in class for a circular economy.



IZYLUM	1	2	3	4	5
Recommended installation height	4 to 15m+ / 13' to 49'+				
Typical luminaire output flux (range)	600 to 8,700lm	1,900 to 15,000lm	2,600 to 23,900lm	4,600 to 32,800lm	4,500 to 40,000lm
Power consumption	7.2W to 65W	18.6W to 109W	20W to 162W	41W to 218W	41W to 280W
Colour temperature	Warm white (722, 727, 730 and 830), neutral white (740) or cool white (757)				
Nominal voltage	120-277V / 220-240V / 347-480V 50-60Hz				
Surge protection	6 / 8 / 10kV				



KEY ADVANTAGES

- > Maximised savings in energy and maintenance costs
- > New generation of LensoFlex®4 and MidFlex™2 photometric engines offering high-efficiency lighting, comfort and safety
- > 5 sizes to provide the most accurate solutions for numerous road and urban applications
- > Tool-free access with a clear, perceptible click upon closing
- > On-site adjustment from post-top to side-entry without disconnecting the luminaire from the pole thanks to IzyFix
- > Wide range of operating temperatures
- > Zhaga-D4i certified
- > Connected-ready



DIMENSIONS | MOUNTING

IZYLUM	1	2	3	4	5
A	587mm 23.1"	604mm 23.8"	715mm 28.1"	873mm 34.4"	873mm 34.4"
B	94mm 3.7"	94mm 3.7"	94mm 3.7"	94mm 3.7"	94mm 3.7"
C	294mm 11.6"	352mm 13.9"	368mm 14.5"	390mm 15.4"	390mm 15.4"
KG	4.9-5.9kg 10.8-13lbs	6.3-7.3kg 13.9-16.1lbs	7-8.3kg 15.4-18.3lbs	9.9-12.1kg 21.8-26.6lbs	10.3-12.6kg 22.7-27.7lbs



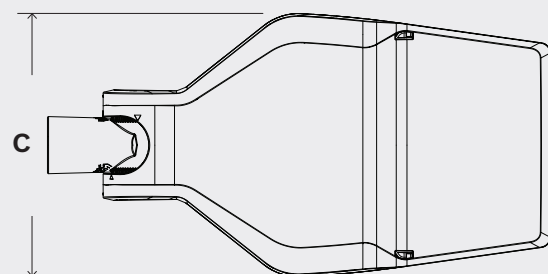
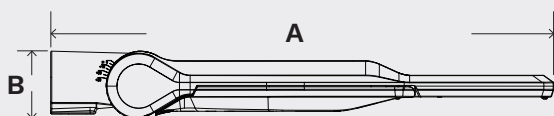
Ø32mm
Ø42mm
Ø48mm
Ø60mm
Ø76mm



Ø32mm
Ø42mm
Ø48mm
Ø60mm

Dimensions given for IZYLUM with Ø60mm spigot (side-entry mounting).

Size and weight may be different according to the configuration. Please consult us for more information.



ROAD

BRACKETS

With KEMA brackets, the IZYLUM luminaire creates aesthetical combinations suited to numerous applications.



DESIGN HIGHLIGHTS



IZYLUM integrates two new, highly efficient photometrical platforms: LensoFlex®4 and MidFlex™2.



The IzyFix universal fixation system for switching from a post-top to a side-entry position facilitates ordering and installing luminaires.



The luminaire can be opened without any tools thanks to two stainless steel spring clamps.



IZYLUM is connected-ready and can operate with various sensors and control systems.



AMPERA



MAIN APPLICATIONS



ROADS & MOTORWAYS



URBAN & RESIDENTIAL STREETS



BIKE & PEDESTRIAN PATHS



SQUARES & PEDESTRIAN AREAS



BRIDGES



RAILWAY STATIONS & METROS



CAR PARKS



LARGE AREAS

High-
performance
LED lighting
solution
with fast
return on
investment

Creating an efficient, economical and sustainable LED lighting solution was the driving force behind the development of AMPERA.

AMPERA is a road luminaire highlighting high performance, technical innovation, and simplicity. This innovative luminaire thus provides powerful lighting, fast and simple installation, easy lighting network management, as well as the fastest return on investment.

Available with various lumen packages - and numerous lighting distributions - AMPERA can meet all your road and urban lighting needs.



AMPERA	EVO 1	EVO 3	MAXI
Recommended installation height	4m to 15m 13' to 49'		
Typical luminaire output flux (range)	600 to 14,300lm	2,600 to 23,200lm	5,900 to 41,200lm
Power consumption	7.8W to 110W	25.9W to 167W	81W to 310W
Colour temperature	Warm white (722, 727, 730 and 830), neutral white (740), cool white (757)		
Nominal voltage	220-240V / 50-60Hz		
Surge protection	10kV		



KEY ADVANTAGES

- > Cost-effective, efficient lighting solution for a fast return on investment
- > On-site adjustment from post-top to side-entry without disconnecting the luminaire from the pole thanks to IzyFix
- > Tool free access: easy and safe maintenance
- > Connected-ready for your future smart city requirements
- > Compatible with the Schröder EXEDRA control platform
- > Zhaga-D4i certified
- > Adjustable inclination on site

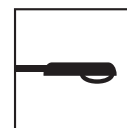


DIMENSIONS | MOUNTING

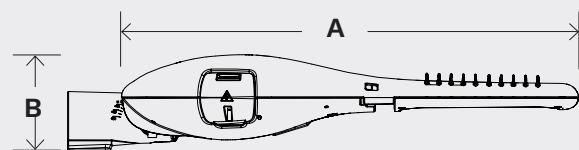
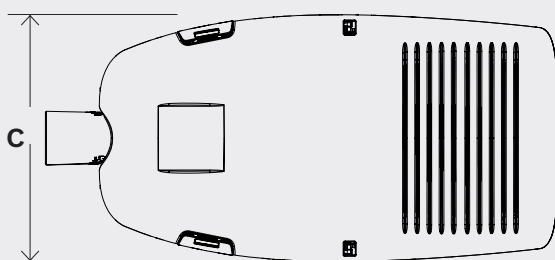
AMPERA	EVO 1	EVO 3	MAXI
A	524mm 20.6"	679mm 26.7"	900mm 35.4"
B	128mm 5.0"	143mm 5.6"	135mm 5.3"
C	308mm 12.1"	365mm 14.4"	438mm 17.2"
KG	5.9-7.3kg 13.0-16.1lbs	8.9-10.4kg 19.6-22.9lbs	18.2kg 40.0lbs



Ø42mm
Ø48mm
Ø60mm
Ø76mm

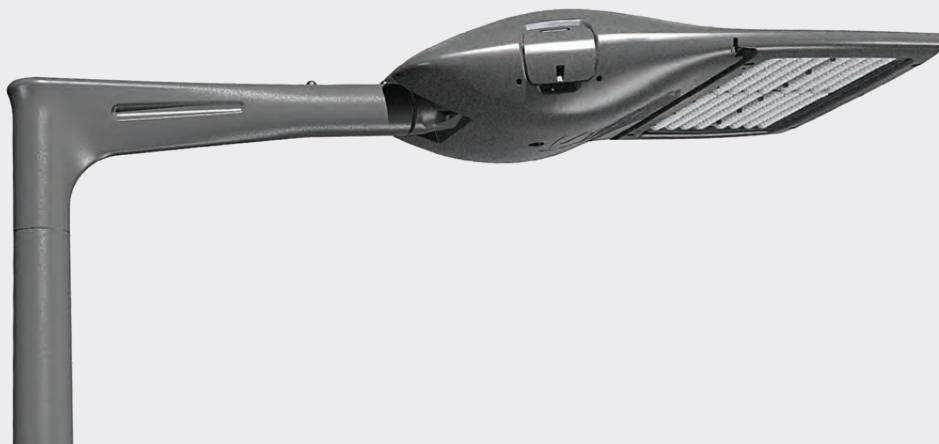


Ø42mm
Ø48mm
Ø60mm
Ø76mm



BRACKETS

With DIO brackets, the AMPERA luminaires create aesthetical combinations suited to numerous applications.



DESIGN HIGHLIGHTS



Tool-free opening, and a mounting with two separate parts for easy installation.



The IzyFix universal fixation system, for switching from a post-top to a side-entry position, facilitates luminaire ordering and installation.



Connected-ready for your future smart city projects.



Designed for a circular economy with easy replacement of internal components.



ROAD

TECEO

Design: Michel Tortel



MAIN APPLICATIONS



Lighting in
an efficient
and
sustainable
manner

TECEO is a market benchmark recognised by independent bodies.

This successful luminaire has enabled thousands of towns and cities to improve lighting levels, generate energy savings and reduce their ecological footprint.

Thanks to its broad range of lumen packages, its impressive scope of light distributions and its various control options, TECEO provides the ideal solution for lighting numerous environments; from bike paths, squares and car parks, to residential streets.

Designed for versatile mounting with the same universal piece allowing both side-entry and post-top fixation on a spigot, TECEO is easy to combine with standard poles, refined brackets or wall brackets.



TECEO (GEN2)	S	1	2
Recommended installation height	4 to 12m / 13' to 39'		
Typical luminaire output flux (range)	600 to 9,800lm	1,300 to 19,100lm	3,200 to 38,200lm
Power consumption	7W to 77W	13W to 152W	30W to 280W
Colour temperature	Warm white (722, 727, 730 and 830) or neutral white (740), cool white (757)		
Nominal voltage	120-277V / 220-240V / 347-480V 50-60Hz		
Surge protection	6 / 10 / 20kV		





KEY ADVANTAGES

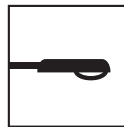
- > 3 sizes for flexibility
- > Maximised savings in energy and maintenance costs
- > LensoFlex® technology offering high performance photometry, comfort and safety
- > Dark sky compliant: ULOR = 0%, no up-light
- > Universal fixation adapted for side-entry and post-top mounting
- > Zhaga-D4i certified
- > Connected-ready
- > Solar-powered variants

DIMENSIONS | MOUNTING

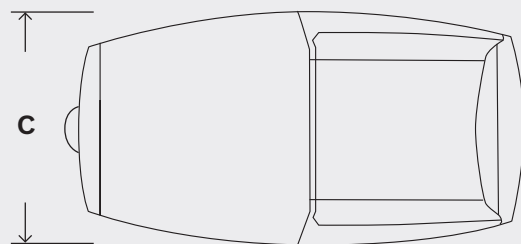
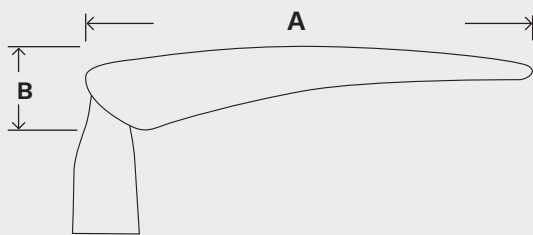
TECEO (GEN2)	S	1	2
A	450mm 17.7"	580mm 22.8"	740mm 29.1"
B	99mm 3.9"	107mm 4.2"	118mm 4.6"
C	252mm 9.9"	310mm 12.2"	427mm 16.8"
KG	5.1kg 11.2lbs	7.9kg 17.4lbs	14.2kg 30.9lbs



Ø32mm
Ø42mm
Ø48mm
Ø60mm
Ø76mm



Ø32mm
Ø42mm
Ø48mm
Ø60mm
Ø76mm



BRACKETS

With ELAYA brackets, the TECEO luminaire creates aesthetical combinations suited to numerous applications.



DESIGN HIGHLIGHTS



The top opening provides access to the gear compartment for cabling and maintenance.



TECEO is available with both NEMA or Zhaga sockets, and complies with the ZD4i standard



The TECEO range offers universal fixations for spigots ranging from Ø32 to Ø76mm.



The inclination angle can be adjusted on site for both post-top (0 to +15°) and side-entry (0 to -15°) configurations.



AXIA 2



MAIN APPLICATIONS



The most comprehensive & economical LED lighting solution

AXIA 2 provides the most comprehensive and best value LED solution for lighting any road, street or pedestrian area.

It offers all the advantages of LED lighting, without the high cost associated with LEDs.

With its photometric engine providing light distributions adapted to various applications, AXIA 2 is one of the highest performing luminaires available on the market to offer a fast return on investment.

Building on the strengths of the ground breaking AXIA, this second-generation luminaire is designed to be the ultimate multi-purpose fixture, providing a cost-effective solution for those looking to reduce their energy costs.



AXIA 2	2.1	2.2
Recommended installation height	5 to 10m / 16' to 33'	
Typical luminaire output flux (range)	200 to 9,100lm	3,800 to 20,000lm
Power consumption	5W to 68W	29.4W to 148W
Colour temperature	Warm white (727, 730 and 830) or neutral white (740)	
Nominal voltage	220-240V / 50-60hz	
Surge protection	10kV	



KEY ADVANTAGES

- > Cost-effective and efficient lighting solution for a fast return on investment
- > Photometric engine with light distributions adapted to various applications
- > ThermiX® for long lasting performance
- > Universal fixation adapted for side-entry and post-top mounting
- > Adjustable inclination in steps of 2.5°
- > Zhaga-D4i certified
- > Connected-ready

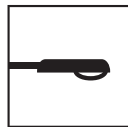


DIMENSIONS | MOUNTING

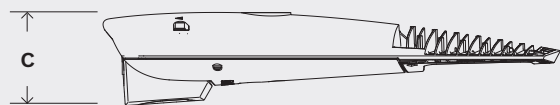
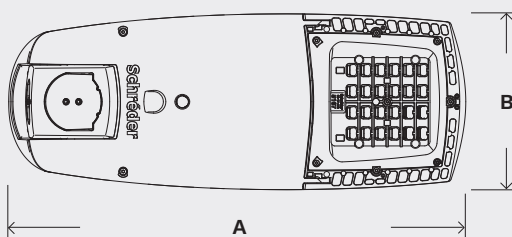
AXIA 2	2.1	2.2
A	650mm 25.6"	895mm 35.2"
B	250mm 9.8"	300mm 11.8"
C	132mm 5.2"	132mm 5.2"
KG	6.7kg 14.7lbs	9.5kg 20.9lbs



Ø60mm
Ø76mm



Ø32mm
Ø42mm
Ø48mm
Ø60mm

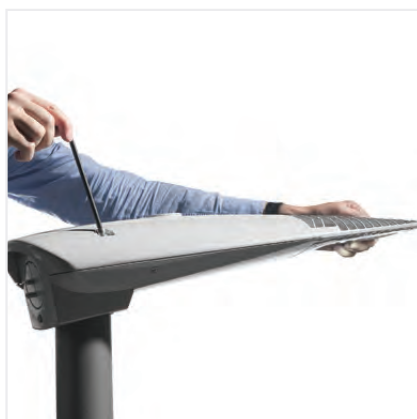


BRACKETS

With ANDO brackets, the AXIA 2 luminaire creates aesthetical combinations suited to numerous applications.



DESIGN HIGHLIGHTS



Universal fixation for side-entry or post-top mounting with adjustable inclination in increments of 2.5°.



Easy access to the electrical compartment for maintenance.



ProFlex™ photometric engine for precise light distributions with the highest efficiency.



Cooling fins for optimised thermal management and long-lasting performance.



AXIA 3



MAIN APPLICATIONS



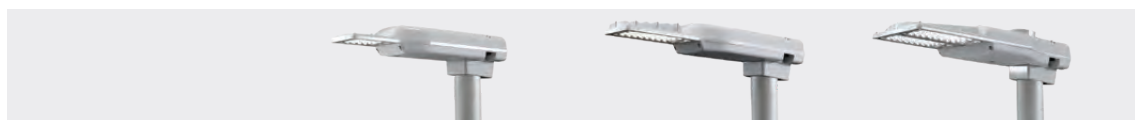
Engineered
for
performance,
designed for
the customer
experience

With customer feedback playing a critical part in our innovative design process, we developed AXIA 3.

More than a luminaire, it is a platform delivering sustainability, cost-effectiveness and customer experience while supporting smart city frameworks. Based on experience from the hundreds of thousands AXIA luminaires installed worldwide, this third generation luminaire pushes the boundaries with photometric innovation, ease and speed of installation and FutureProof connectivity.

Available in three sizes, AXIA 3 enables towns and cities to maximise efficiency when lighting numerous environments, from bike paths, squares and car parks to residential streets, carriageways, urban roads and large boulevards.

This lightweight, compact luminaire combines quality of light with a minimal carbon footprint. It stands out with its easy installation and carefree maintenance, reducing operating costs.



AXIA 3	3.1	3.2	3.3
Recommended installation height	4 to 12m / 13' to 39'		
Typical luminaire output flux (range)	600 to 6,100lm	2,000 to 11,300lm	4,000 to 23,600lm
Power consumption	8.4W to 44W	15.3W to 78W	28.6W to 170W
Colour temperature	Warm white (727 and 730) or neutral white 740		
Nominal voltage	220-240V / 50-60hz		
Surge protection	10kV		



KEY ADVANTAGES

- > Maximised savings in energy and maintenance costs
- > ProFlex™ photometric engines offering high efficiency lighting, comfort and safety
- > 3 sizes to provide the most accurate solutions for numerous road and urban applications
- > Easy installation: pre-cabled and equipped with a universal fixation part adapted for side-entry and post-top mounting
- > Adjustable inclination for optimised photometry and uniformity
- > Zhaga-D4i certified
- > Connected-ready

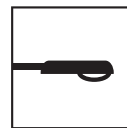


DIMENSIONS | MOUNTING

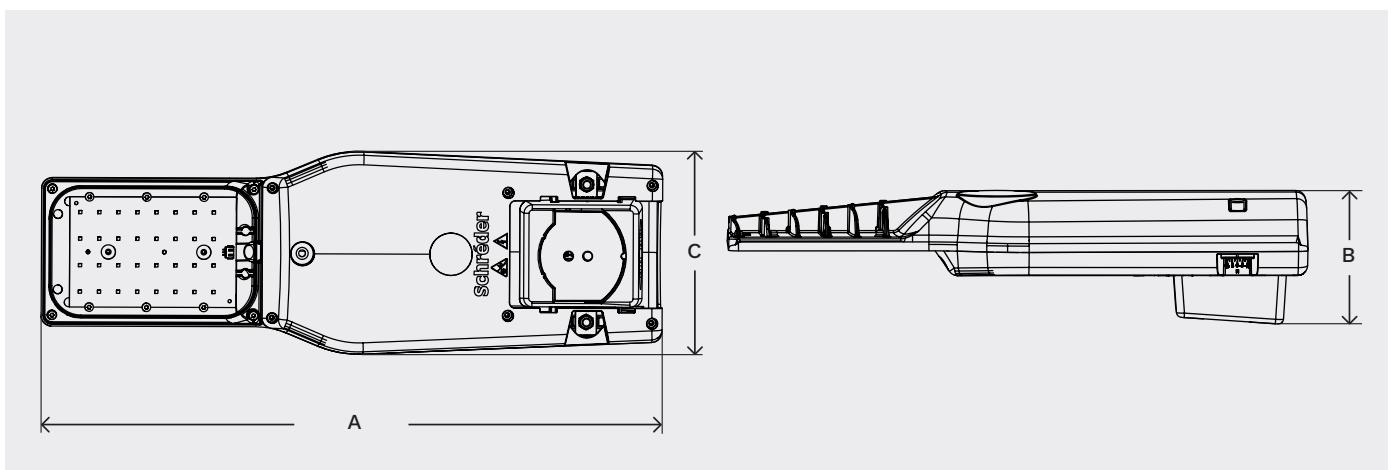
AXIA 3	3.1	3.2	3.3
A	513mm 20.2"	585mm 23"	550mm 21.7"
B	130mm 5.1"	130mm 5.1"	130mm 5.1"
C	191mm 7.5"	191mm 7.5"	277mm 10.9"
KG	3.6kg 7.9lbs	4.8kg 10.6lbs	6kg 13.2lbs



Ø60mm
Ø76mm

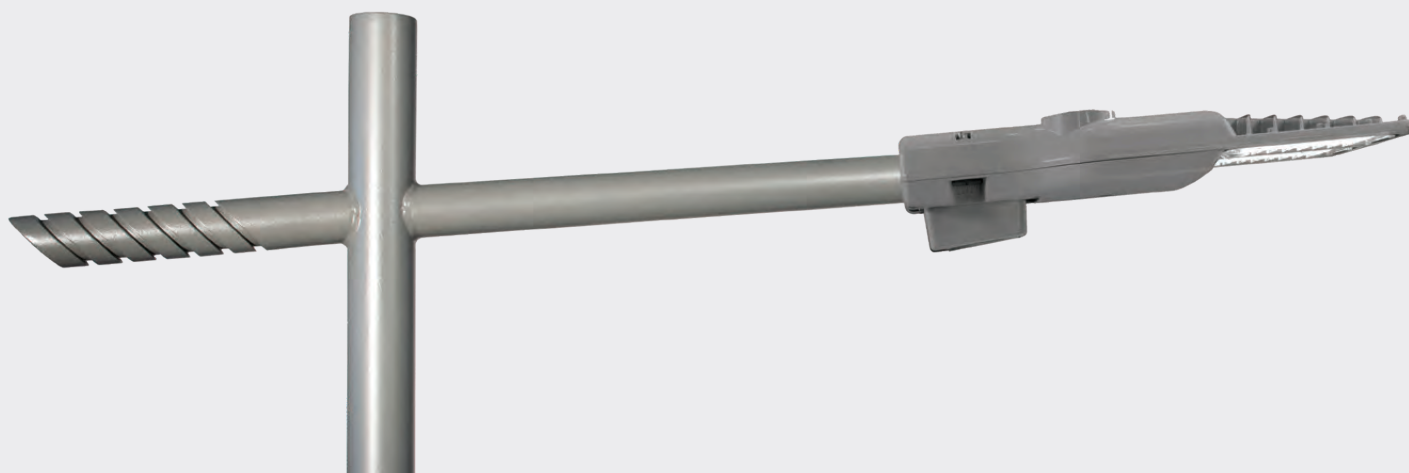


Ø32mm
Ø42mm
Ø48mm
Ø60mm



BRACKETS

With KORDA brackets, the AXIA 3 luminaire creates aesthetical combinations suited to numerous applications.



DESIGN HIGHLIGHTS



The ProFlex™ photometric engine provides the highest efficiency.



The AXIA 3 range has a universal fixation part for spigots ranging from Ø32 to Ø76mm.



The inclination is adjustable on site for optimised photometry and further energy savings.



AXIA 3 is connected-ready and can operate with various sensors and control systems.



AXIA 3 EVO



MAIN APPLICATIONS



URBAN & RESIDENTIAL STREETS



BIKE & PEDESTRIAN PATHS



SQUARES & PEDESTRIAN AREAS



RAILWAY STATIONS & METROS



CAR PARKS

Innovative,
lightweight
lighting
solution
with excellent
performance

From proven experience with the renowned AXIA luminaires comes AXIA 3 EVO, completing the range with an innovative and lightweight urban luminaire dedicated to lighting residential areas.

The first of its kind, AXIA 3 EVO was developed on the basis of the specific needs of residential lighting spaces where well-being and security are crucial criteria.

Combining various technical innovations with a minimalistic design, AXIA 3 EVO offers an effective lighting solution to provide people with a pleasant and secure environment.

AXIA 3 EVO stands out by providing a compact luminaire fitted with advanced technologies, helping towns and cities generate significant energy savings and reduce their ecological footprint and operating costs.



AXIA 3 EVO

Recommended installation height	4 to 12m / 13' to 39'
Typical luminaire output flux (range)	600 to 6,600lm
Power consumption	6.6W to 52.5W
Colour temperature	Warm white (727 and 730) or neutral white (740)
Nominal voltage	120-277V / 220-240V / 50-60hz
Surge protection	10kV



KEY ADVANTAGES

- > Maximised savings in energy and maintenance costs
- > ProFlex™ photometric engines offering high efficiency lighting, comfort and safety
- > Adjustable inclination for optimised photometry and uniformity
- > Connected-ready for your future smart city requirements
- > Zhaga-D4i certified
- > Compact, lightweight and easy to install
- > Different finishes and colour choices



DIMENSIONS | MOUNTING

AXIA 3 EVO

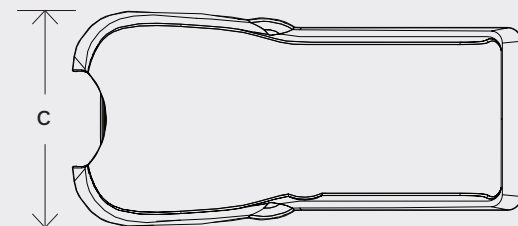
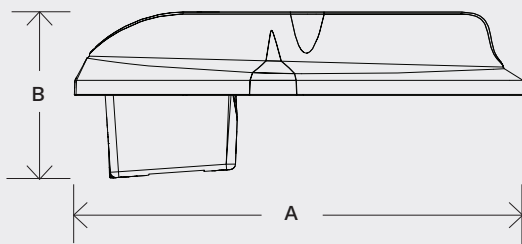
A	343mm 13.5"
B	143mm 5.6"
C	187 mm 7.4"
KG	2.6-3.6kg 5.7-7.9lbs



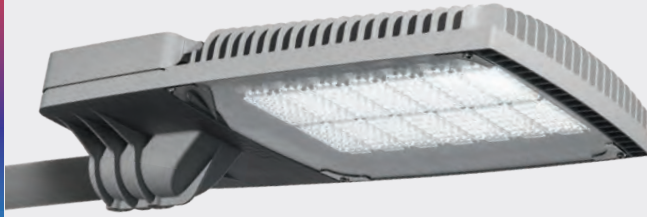
Ø60mm
Ø76mm



Ø32mm
Ø42mm
Ø48mm
Ø60mm



AVENTO



MAIN APPLICATIONS



The budget-friendly, high-efficiency solution

Compact yet powerful, light yet robust, affordable yet highly efficient, AVENTO provides the fastest return on investment for road and area lighting.

AVENTO offers a superior lumen/watt ratio to deliver a high-performance, energy-efficient lighting solution at an affordable price for various landscapes including pedestrian areas, streets, roads, car parks and motorways.

AVENTO is available in four sizes to provide a consistent solution in terms of the right lumen package and light distribution for a broad range of environments. It ensures that the lighting meets the actual needs of the place to be lit.

AVENTO is the ideal tool for shortening the payback time of an LED lighting installation and providing the best return on investment.



AVENTO	S	1	2	3
Recommended installation height	4 to 45m / 13' to 148'			
Typical luminaire output flux (range)	2,400 to 9,700lm	3,000 to 24,300lm	6,100 to 36,100lm	21,800 to 67,200lm
Power consumption	18.2W to 74W	25W to 172W	48W to 258W	218W to 490W
Colour temperature	Warm white (730 and 830) or neutral white (740)			
Nominal voltage	120-277V / 220-240V / 347-480V 50-60Hz			
Surge protection	6 / 8 / 10 / 20kV			





KEY ADVANTAGES

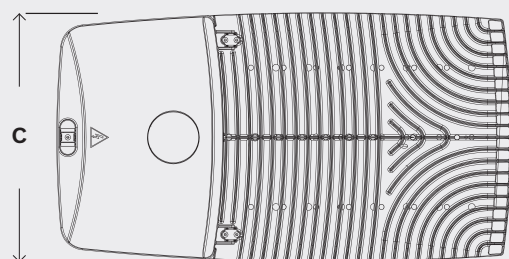
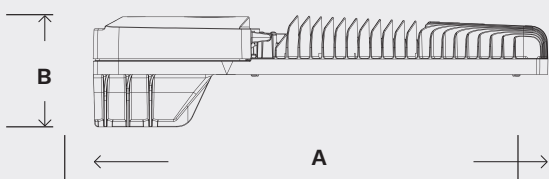
- > Cost-effective and efficient lighting solution
- > Superior efficiency
- > Accelerated return on investment
- > 4 sizes for flexibility and consistency when lighting P1 to P6 and M1 to M6 applications in accordance with CIE 115
- > Easy and fast installation
- > Wide temperature operating range
- > Dark sky compliant: ULOR = 0%, no up-light
- > Connected-ready

DIMENSIONS | MOUNTING

AVENTO	AVENTO S	AVENTO 1	AVENTO 2	AVENTO 3
A	350mm 13.8"	485mm 19.1"	655mm 25.8"	655mm 25.8"
B	127mm 5"	114mm 4.5"	159mm 6.3"	158mm 6.2"
C	310mm 12.2"	310mm 12.2"	359mm 14.1"	578mm 22.8"
KG	5kg 11lbs	8.1kg 17.8lbs	11.7kg 25.7lbs	18.6kg 40.9lbs

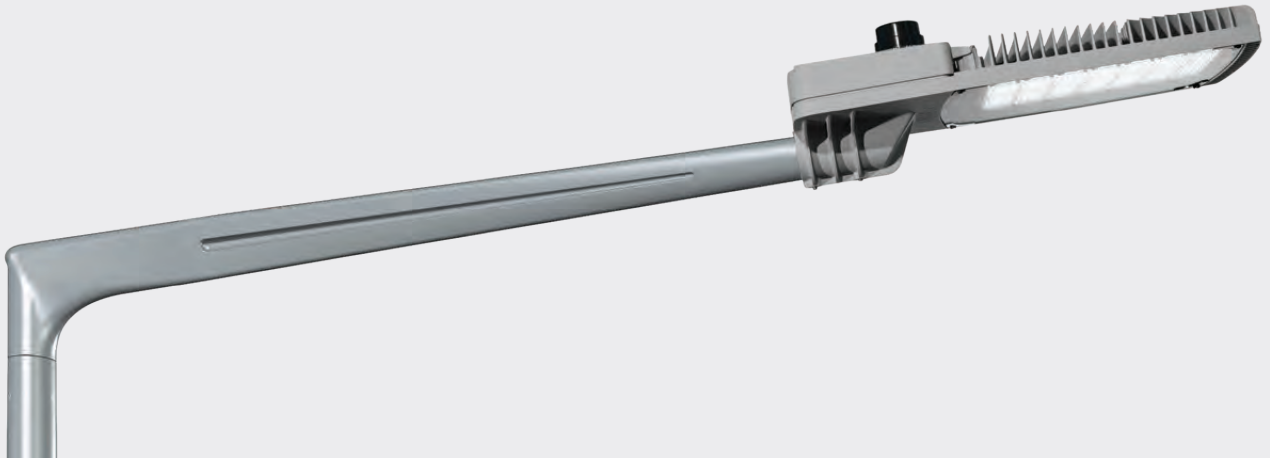


Ø42mm
Ø48mm
Ø60mm



BRACKETS

With DIO brackets, the AVENTO luminaire creates aesthetical combinations suited to numerous applications.



DESIGN HIGHLIGHTS



AVENTO provides tool-free access to the gear compartment.



To ensure optimal thermal management in hot conditions, AVENTO incorporates large cooling fins.



AVENTO includes a universal Ø42-60mm fixation part for side entry-mounting.



AVENTO can be delivered with a shorting cap to add IoT features at any time in the future.



VOLTANA



MAIN APPLICATIONS



The ultimate,
cost-effective,
efficient
family of
luminaires
that pays for
itself

VOLTANA delivers sustainable solutions that dramatically reduce energy consumption and improve lighting levels with the lowest investment.

The VOLTANA family is available with multiple lumen packages thanks to the various sizes, driving currents and numerous light distributions - from very narrow to extra wide - to light any rural and urban landscape.

This luminaire is designed for side-entry and post-top mounting and can be adapted on site thanks to an incorporated inclination system to optimise the photometry.

VOLTANA can be managed by several control systems. It can operate in a closed independent network with sensors or in a global network in a city through wireless communication.



VOLTANA	EVO 1	1	2	3	4
Recommended installation height	4 to 12m / 13' to 39'				
Typical luminaire output flux (range)	500 to 7,800lm	900 to 4,200lm	2,000 to 7,000lm	3,100 to 10,300lm	4,100 to 13,500lm
Power consumption	6W to 62W	9.9W to 40.5W	18.4W to 58W	26.4W to 79W	34.9W to 104W
Colour temperature	Warm white (730) or neutral white (740)				
Nominal voltage	220-240V / 50-60hz				
Surge protection	10kV				





KEY ADVANTAGES

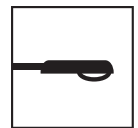
- > Cost-effective and efficient lighting solution for a fast return on investment
- > High performance with safety and comfort
- > 5 sizes for flexibility
- > ThermiX® to withstand high temperatures
- > Connected-ready

DIMENSIONS | MOUNTING

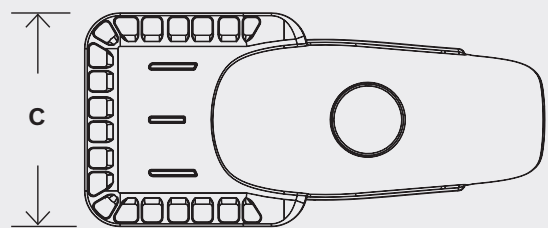
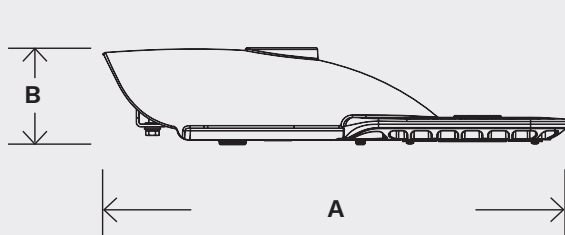
VOLTANA	EVO 1	1	2	3	4
A	416mm 16.4"	501mm 19.7"	518mm 20.4"	641mm 25.2"	555mm 21.9"
B	104mm 4.1"	87mm 3.4"	109mm 4.3"	111mm 4.4"	112mm 4.4"
C	170mm 6.7"	181mm 7.1"	240mm 9.4"	240mm 9.4"	380mm 15"
KG	2.8kg 4.4lbs	3.5kg 7.7lbs	4.6kg 10.1lbs	5.6kg 12.3lbs	7.5kg 16.5lbs



Ø42mm
Ø48mm
Ø60mm
Ø76mm



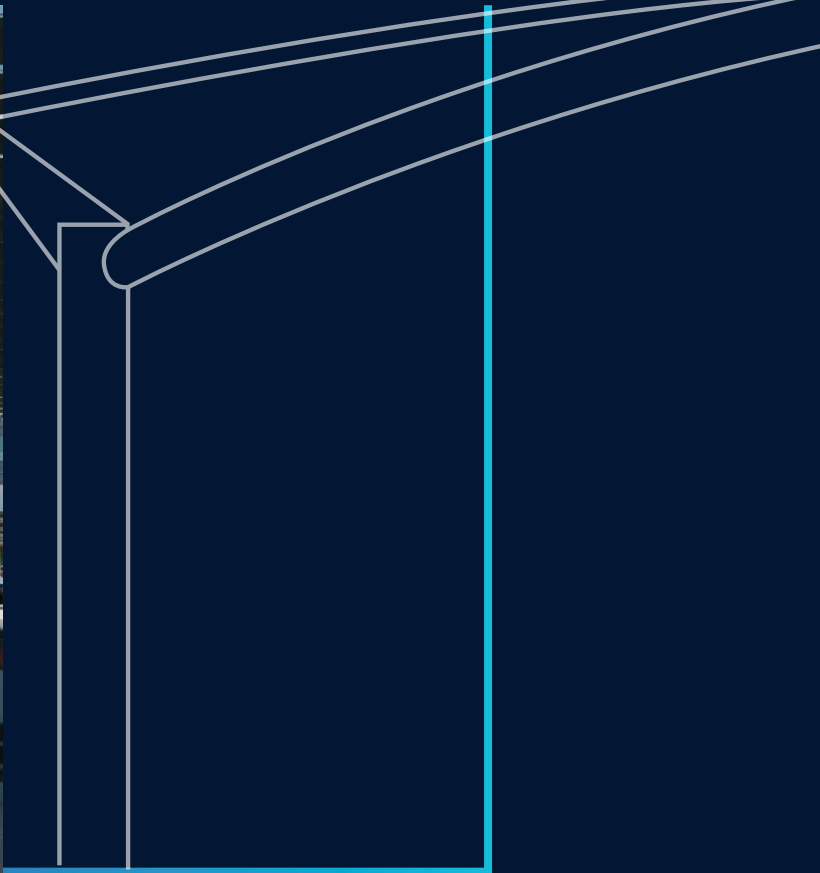
Ø42mm
Ø48mm
Ø60mm



POLES & BRACKETS



“ Design consistency and elegance for urban landscapes ”

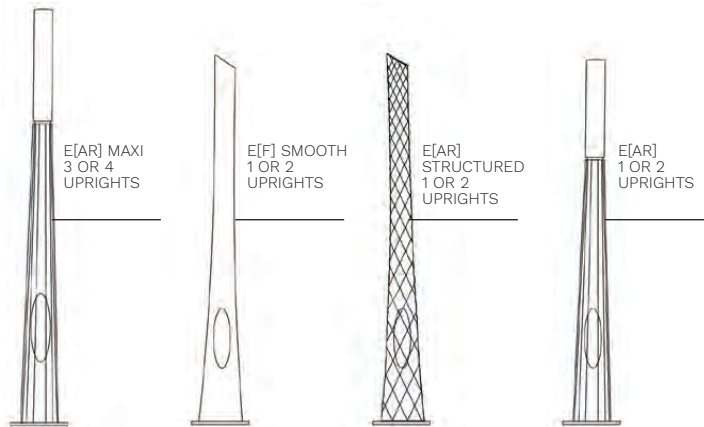


THYLIA

DESCRIPTION

The uniquely designed THYLIA pole, combined with one of our luminaires (such as TECEO S), has been a Schröder exclusive for many years. The range is perfect for lighting roads, pedestrian areas or squares. The standard offering consists of a base part available in 4 different design materials, combined with straight or curved arms. One, two, three or four poles can be mounted on a base. A faceted steel base and a steel wall bracket are available.

VARIANTS



	Upright height: 1600mm (HF 4200)		Upright height: 3600mm (HF 6200)			Upright height: 5500mm (HF8100)		
	straight	1 curved	straight	1 curved	2 curved	straight	1 curved	2 curved
THYLIA standard steel E[AR] 1 or 2 uprights	X	X	X	X	X	X	X	X
THYLIA maxi steel E[AR] 3 or 4 uprights	-	X	-	X	X	-	X	X
THYLIA smooth cast iron E[F] 1 or 2 uprights	X	X	X	X	X	X	X	X
THYLIA smooth cast iron E[FS] 1 or 2 uprights	X	X	X	X	X	X	X	X



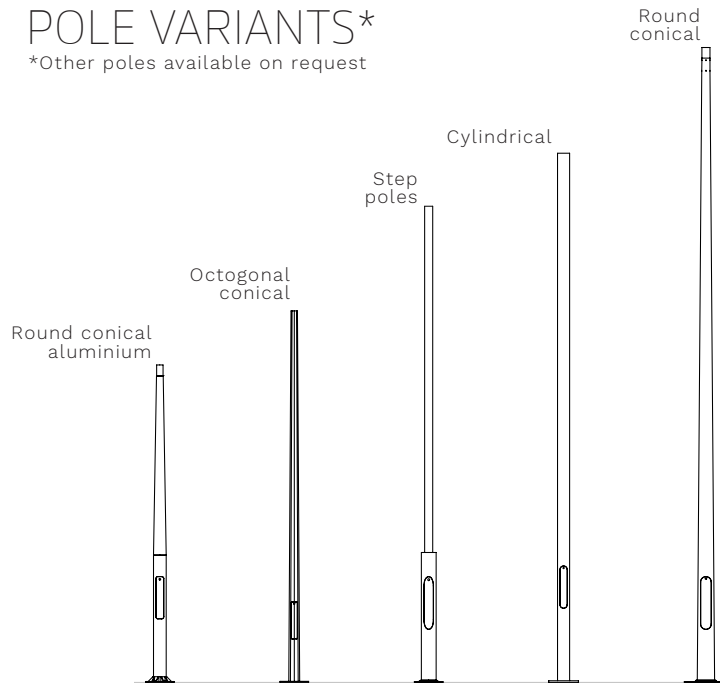
FUNCTIONAL POLES

DESCRIPTION

With a range of poles combined with a large portfolio of luminaires and brackets, Schröder offers complete light points for your application. The standard pole offering consists of 5 different shapes, with heights ranging from 3 to 14m, made of aluminium or galvanised steel, and always adapted to your local market requirements. The poles can be ordered from Schröder or via one of our local partners. For more detailed technical information and the availability of custom variants, please contact your local sales representative.

POLE VARIANTS*

*Other poles available on request



Available with a base plate or for ground-recessed mounting.

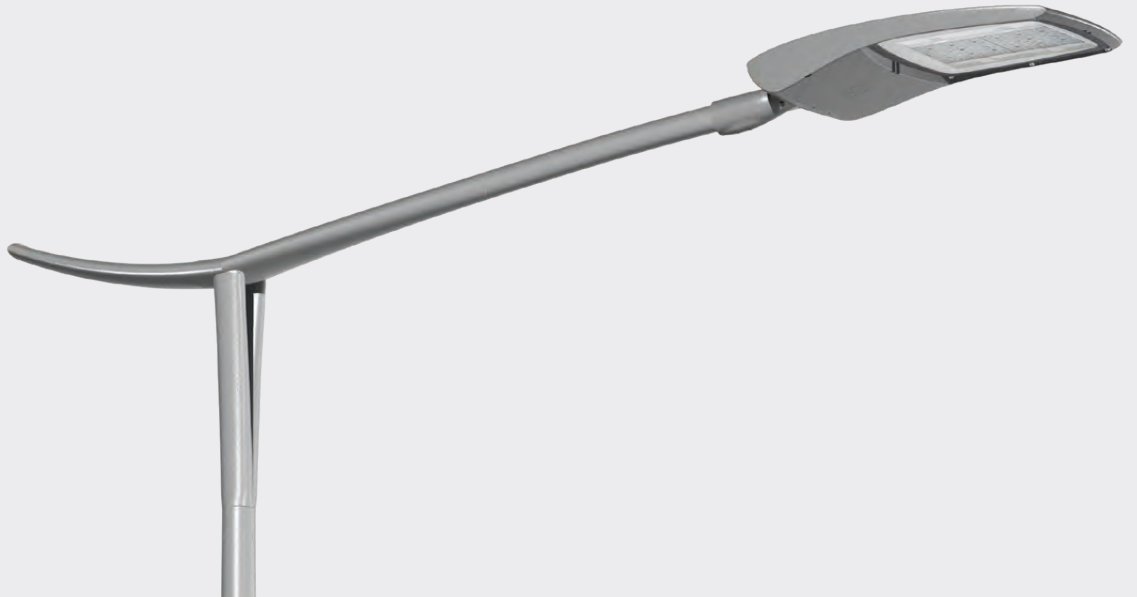


Height (m)	Round conical (top diameter in mm)				Cylindrical			Step poles		Octogonal conical (top diameter in mm)	Round conical aluminium (top diameter in mm)
	Ø60	Ø76	Ø89	Ø106	Ø89	Ø102	Ø114	Ø 140 / Ø89	Ø 140 / Ø60	Ø60	Ø60
3	X	-	-	-	X	-	-	X	X	X	X
3.5	X	X	-	-	X	-	-	X	X	X	X
4	X	X	-	-	X	X	X	X	X	X	X
4.5	X	X	-	-	X	X	X	X	X	X	X
5	X	X	-	-	X	X	X	X	X	X	X
5.5	X	-	-	-	-	X	X	X	X	X	-
6	X	X	X	-	-	X	X	-	-	X	X
7	X	X	X	X	-	-	-	-	-	X	X
8	X	X	X	X	-	-	-	-	-	X	X
9	X	X	X	X	-	-	-	-	-	X	X
10	X	X	X	X	-	-	-	-	-	X	X
12	X	X	X	X	-	-	-	-	-	X	X
14	-	-	X	X	-	-	-	-	-	-	-

The combination of these poles with post-top brackets or luminaires should be mechanically checked according to local standards.

ANDO

Design: Michel Tortel

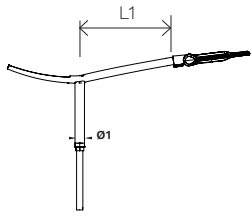


RANGE

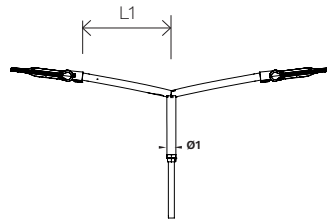


DIMENSIONS

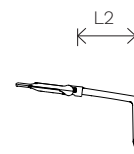
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1	840mm 33"	L2	595mm 23"
	1310mm 52"		1110mm 44"
Ø1	76mm 3"		

RECOMMENDED LUMINAIRES

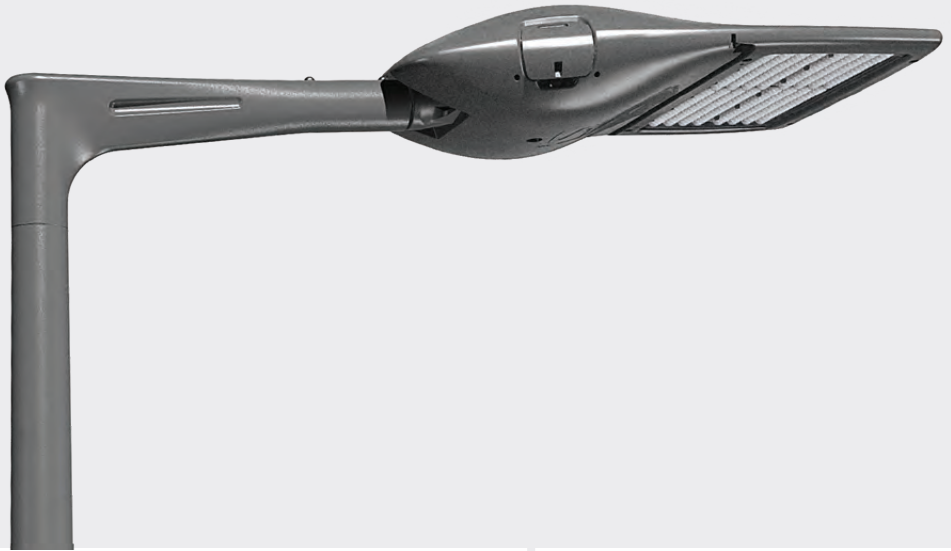


GENERAL INFORMATION

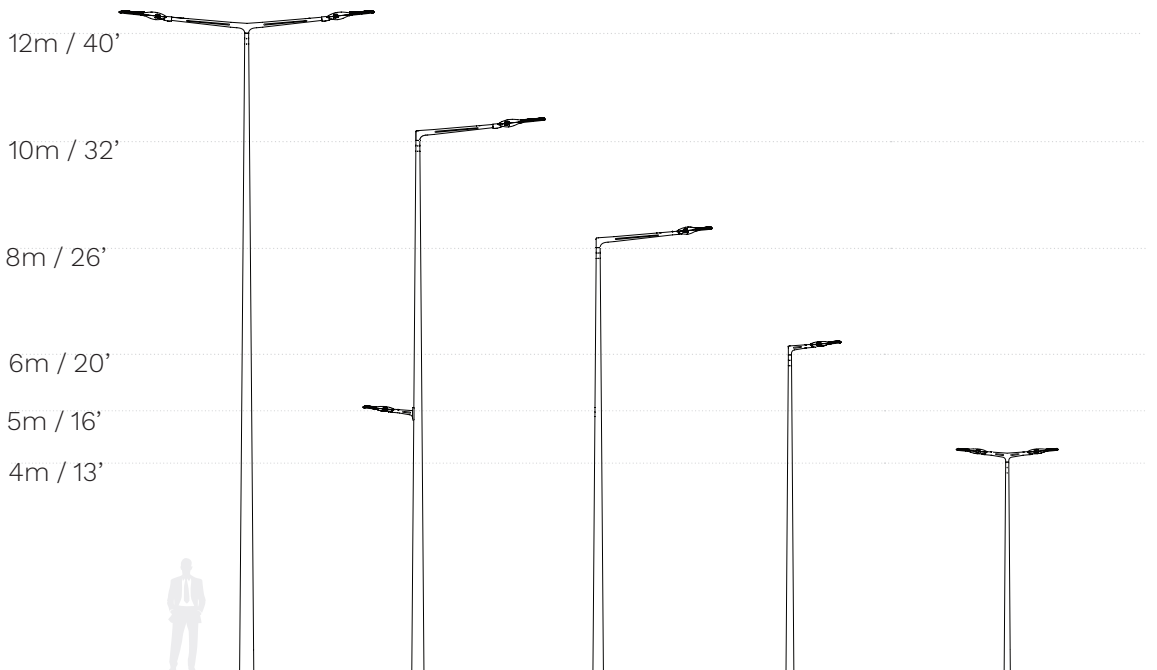
Material	Aluminium
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm



DIO

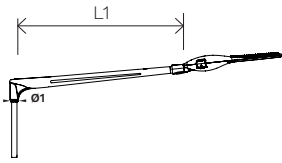


RANGE

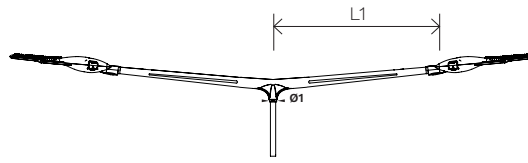


DIMENSIONS

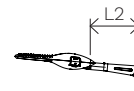
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1	415mm 16"	Ø1	60mm 2.5"
	1500mm 59"		76mm 3"
L2	415mm 16.5"		

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Aluminium
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm



ELAYA

Design: Michel Tortel



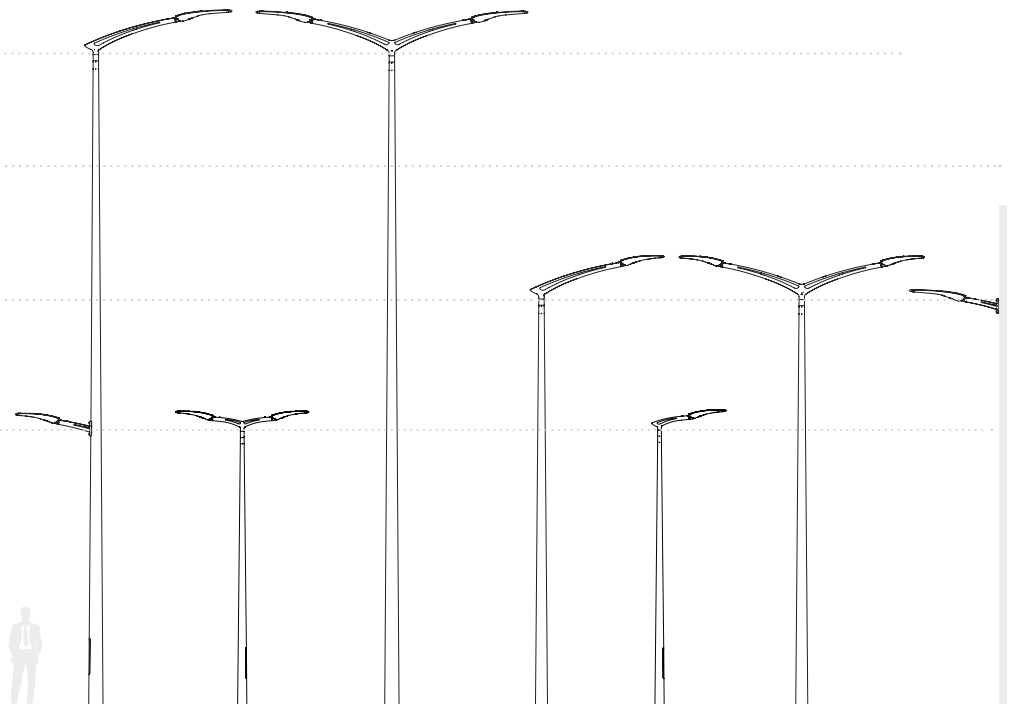
RANGE

10m / 32'

8m / 26'

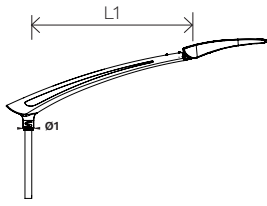
6m / 20'

4m / 13'

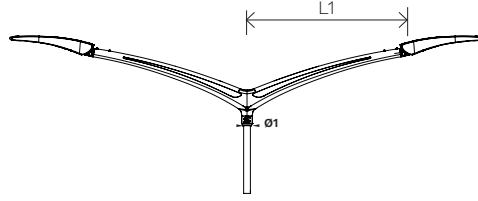


DIMENSIONS

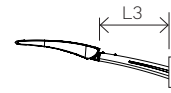
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1	480mm 19"	Ø1	60mm 2.5"
	1100mm 43"		76mm 3"
L2	480mm 19"		

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Aluminium
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm
Decorative option	Integrated static coloured LEDs



ELO

Design: Michel Tortel



RANGE

10m / 32'

9m / 30'

8m / 26'

7m / 22'

6m / 20'

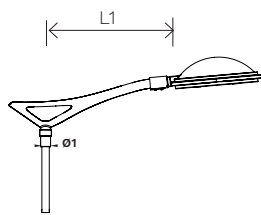
5m / 16'

4m / 13'

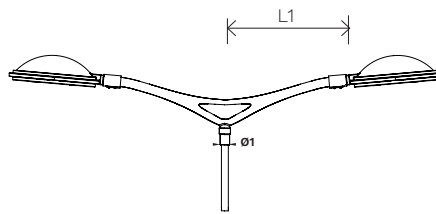


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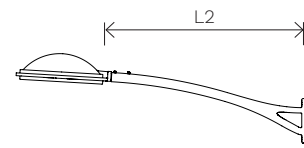
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1	790mm 31"	L2	1250mm 49"
	1250mm 49"	Ø1	76mm 3"

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

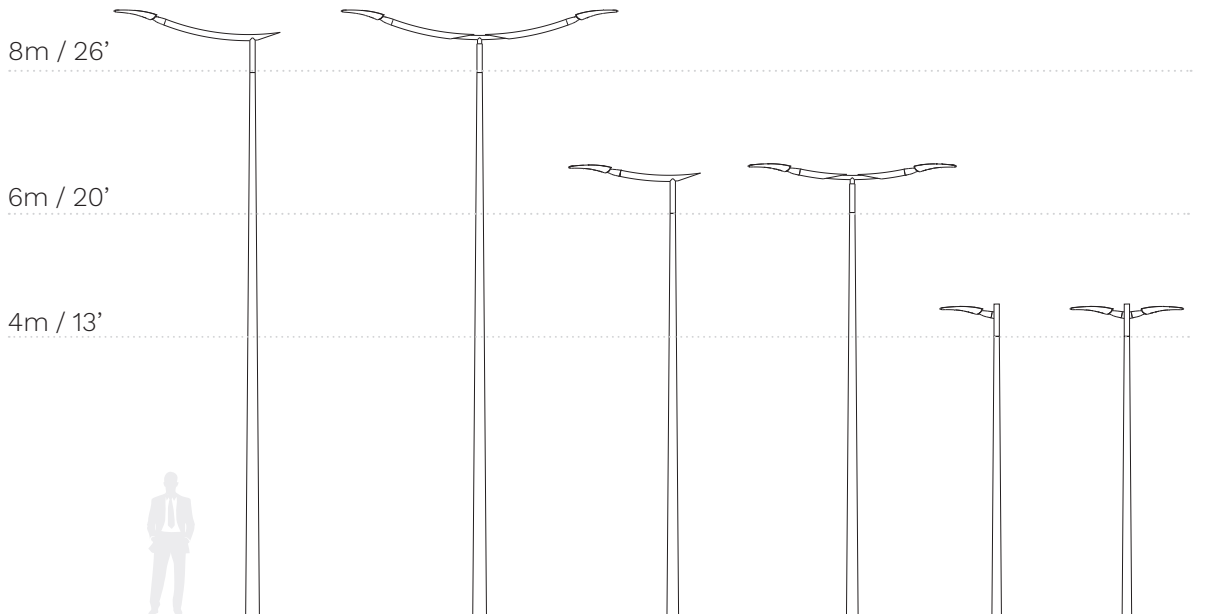
Material	Aluminium
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm



ITO

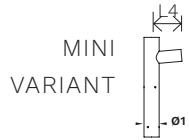
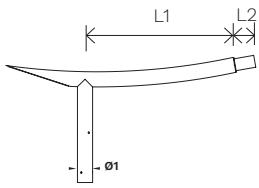


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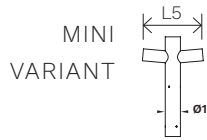
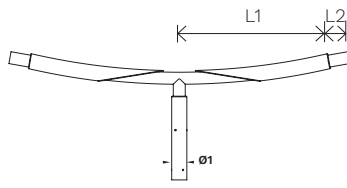


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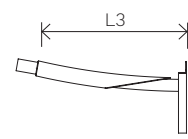
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1	750mm 30"	L4	150mm 6"
	1250mm 49"	L5	300mm 12"
L2	100mm 4"	Ø1	76mm 3"
L3	750mm 30"		

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Galvanised steel
Finishing	Liquid paint
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm



KEMA

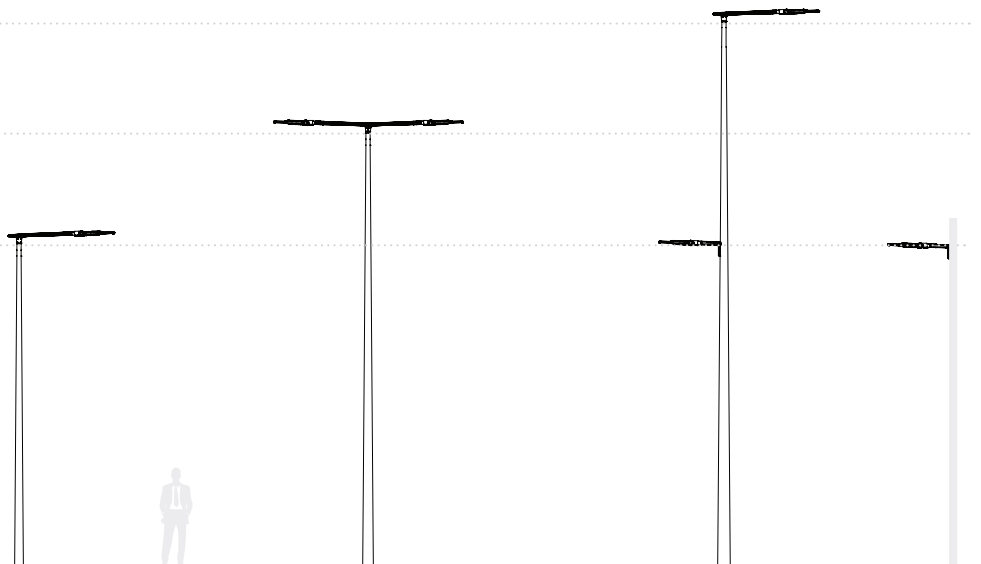


RANGE

10m / 33'

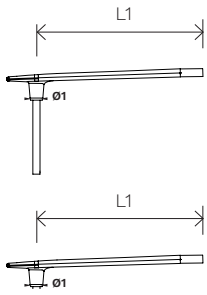
8m / 26'

6m / 20'

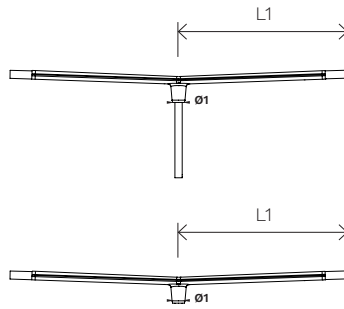


DIMENSIONS

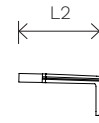
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1 1115mm | 44" Ø1 76mm | 3"

L2 514mm | 20.2"

GENERAL INFORMATION

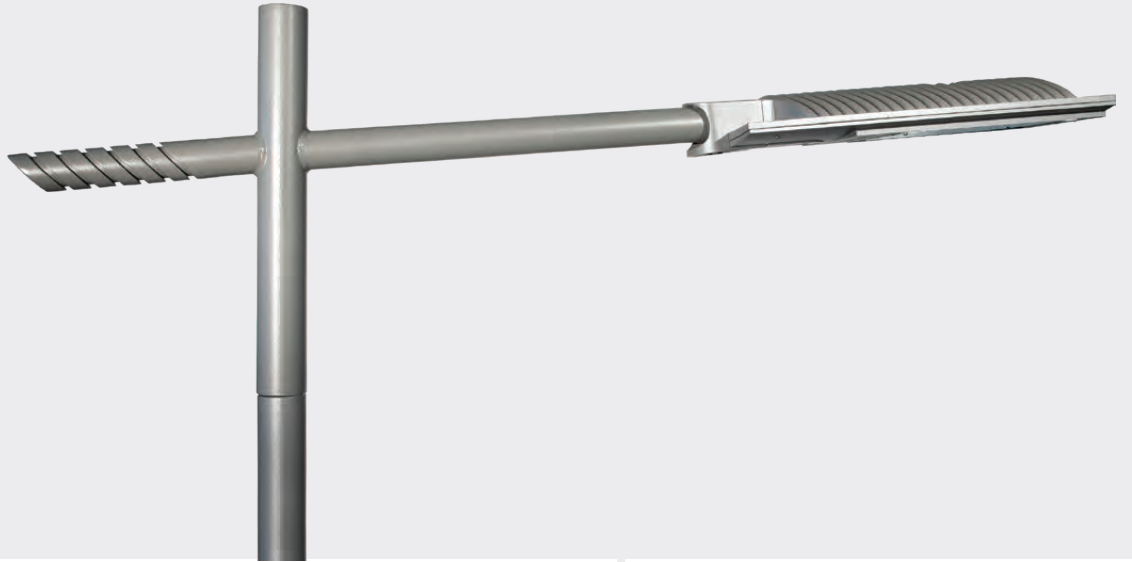
Material	Aluminium
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm

RECOMMENDED LUMINAIRES

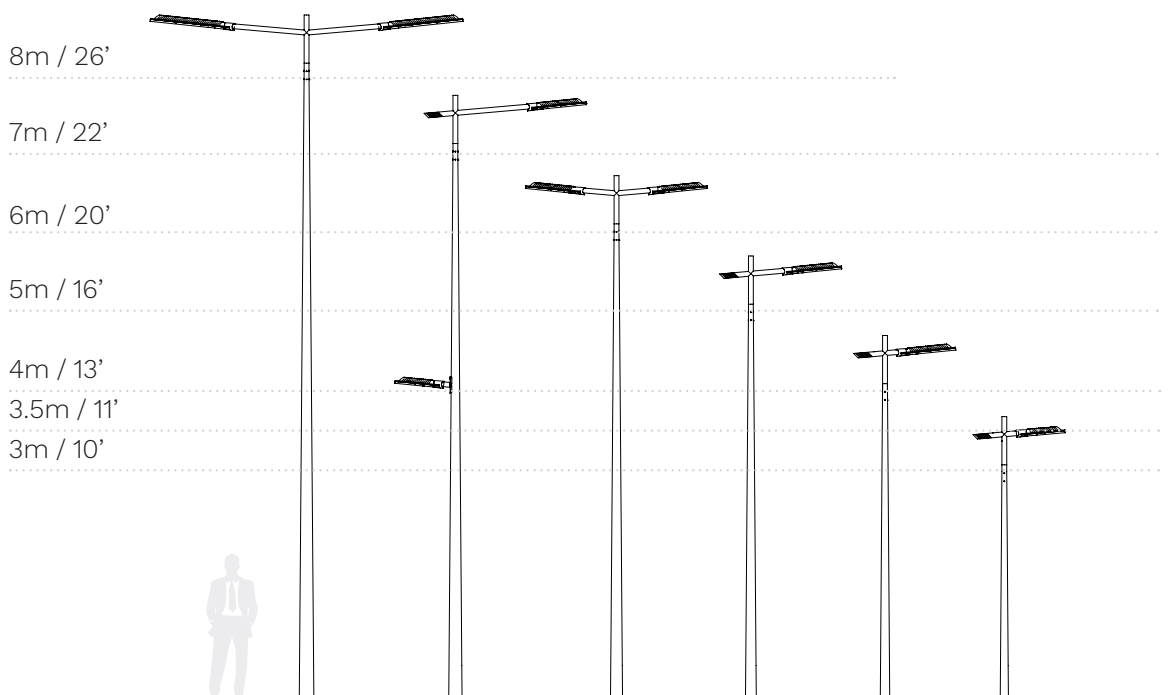


KORDA

Design: Michel Tortel

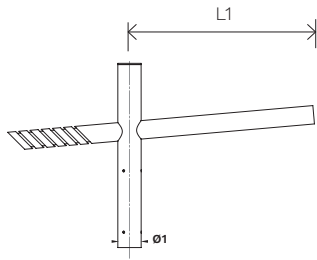


RANGE

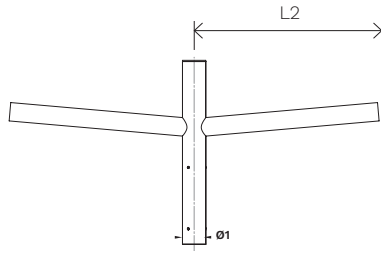


DIMENSIONS

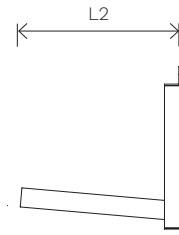
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1	250mm 10"	L2	250mm 10"
	500mm 20"		500mm 20"
	750mm 30"		750mm 30"
	1000mm 40"		1000mm 40"
	1250mm 50"	Ø1	60/76mm 2.5"/3"
	1250mm 50"		

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Galvanised steel
Finishing	Liquid paint
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm



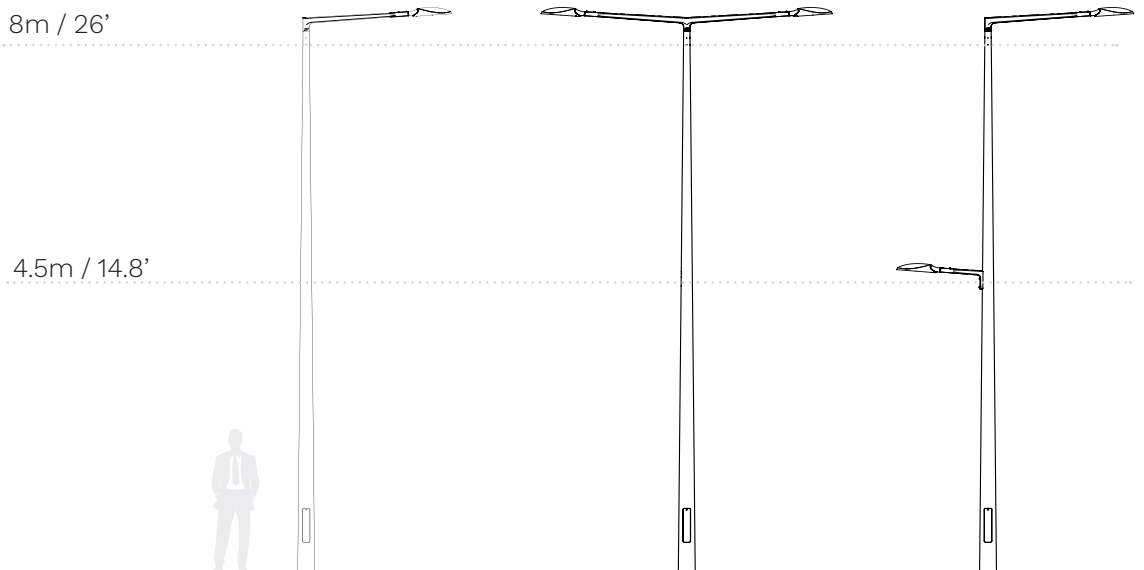
MILLA



RANGE

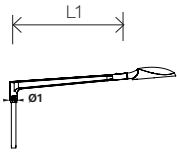
8m / 26'

4.5m / 14.8'

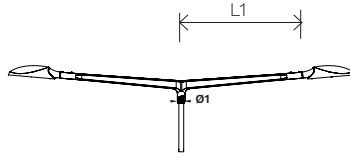


DIMENSIONS

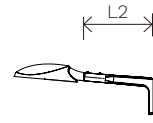
SINGLE BRACKET



DOUBLE BRACKET



WALL/REAR BRACKETS



L1	1200mm 47"	Ø1	76mm 3"
L2	500mm 20"		

GENERAL INFORMATION

Material	Aluminium
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm

RECOMMENDED LUMINAIRES



SAINT REMY

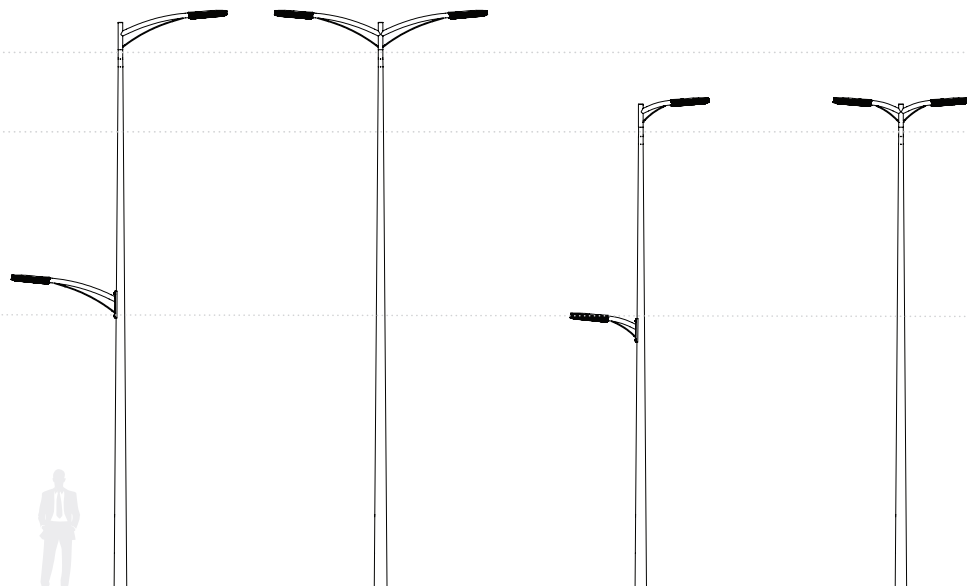


RANGE

7m / 23'

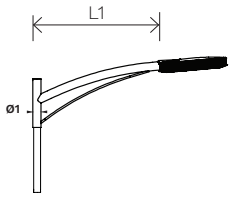
6m / 19,7'

3.5m / 9'8"

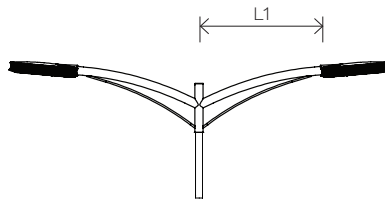


DIMENSIONS

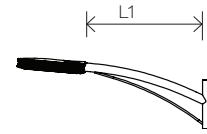
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1	500mm 20"	Ø1	60mm 2.5"
	1000mm 40"		

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Galvanised steel
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm



STADIO

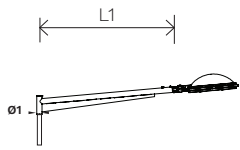


RANGE

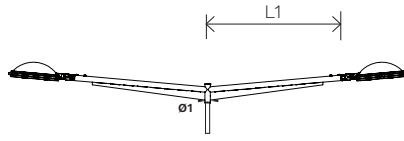


DIMENSIONS

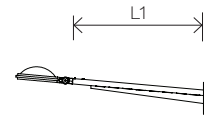
SINGLE BRACKETS



DOUBLE BRACKETS



WALL/REAR BRACKETS



L1	500mm 20"	Ø1	60mm 2.4"
	1000mm 40"		
	1500mm 60"		

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Galvanised steel
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm



TRESSA

Design: Michel Tortel

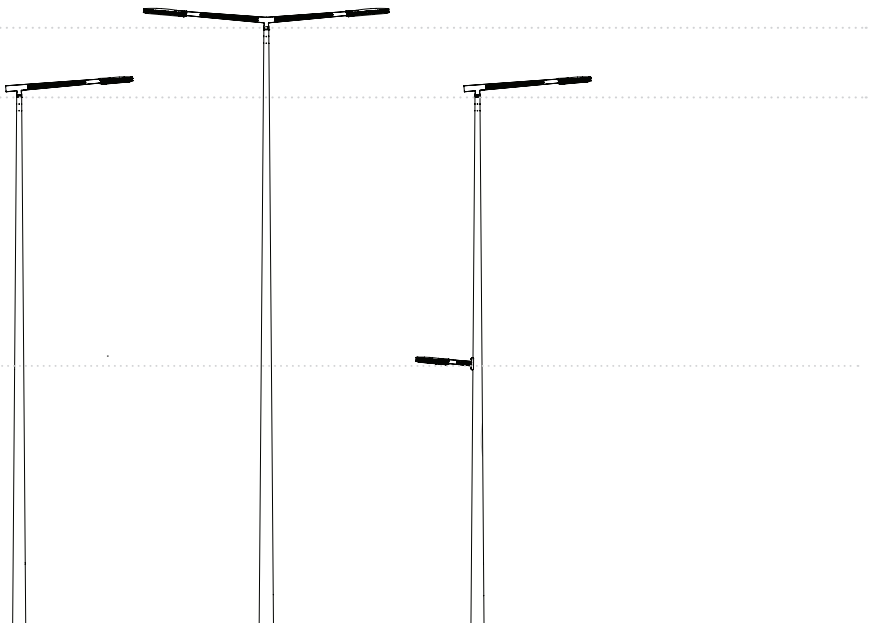


RANGE

9m / 30'

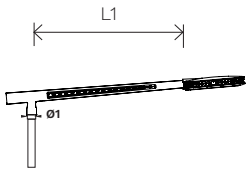
8m / 26'

4m / 13'

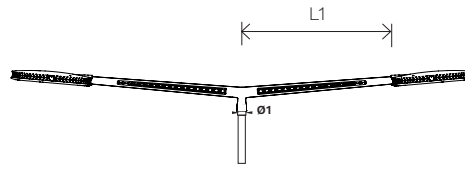


DIMENSIONS

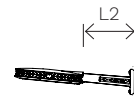
SINGLE BRACKET



DOUBLE BRACKET



WALL/REAR BRACKETS



L1	1320mm 52"	Ø1	76mm 3"
L3	480mm 19"		

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Aluminium
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm
Decorative option	Integrated static coloured LEDs



VECTOR

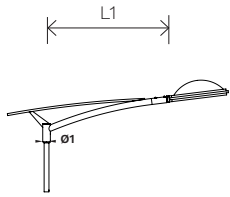


RANGE

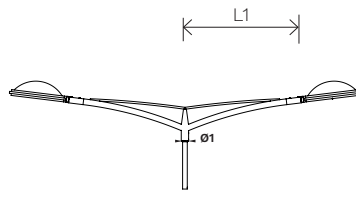


DIMENSIONS

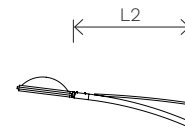
SINGLE BRACKET



DOUBLE BRACKET



WALL/REAR BRACKETS



L1 1200mm | 47" Ø1 76mm | 3"

L2 775mm | 30.5"

1225mm | 48"

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Galvanised steel
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm Side-entry penetrating Ø60mm



YOHO

Design: Michel Tortel

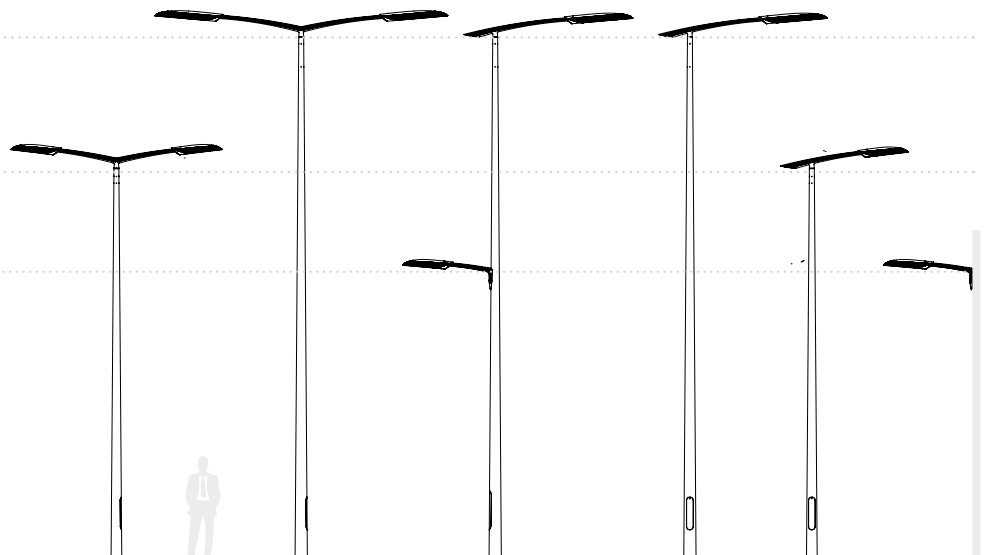


RANGE

8m / 26'

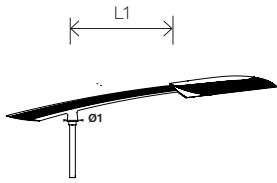
6m / 20'

4.5m / 13'

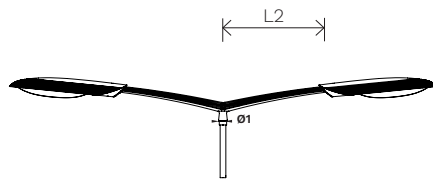


DIMENSIONS

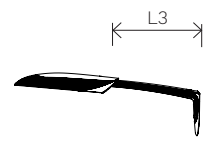
SINGLE BRACKETS



DOUBLE BRACKETS

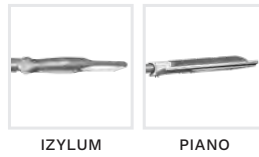


WALL/REAR BRACKETS



L1	850mm 33.5"	L3	747mm 29.5"
	1200mm 47"	Ø1	76mm 3"
L2	990mm 39"		
	1340mm 53"		

RECOMMENDED LUMINAIRES



GENERAL INFORMATION

Material	Aluminium
Finishing	Polyester powder coating
Colour	AKZO 900 grey sanded Any other RAL or AKZO colour
Seaside coating	Available on request
Cable puller	Included as an option
Luminaire mounting compatibility	Side-entry slip-over Ø60mm



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