Schréder
Experts in lightability™

Large area and flood
lighting solutions

For safe, pleasant, sustainable and connected environments

LUMINAIRE RANGE

ASTRAL SLIM	BRITELINE GEN2	ECOBLAST	INDU BAY	INDU FLOOD
NEOS LED	OMNIBLAST	OMNIFLOOD	OMNISTAR	OMNISTAR KIT

CONTROL SYSTEMS

iTERRA

SMART POLE

SHUFFLE

Lightability™

a spirit, a mission, our beliefs

Schréder
Experts in lightability™

With a century-long tradition of innovation and entrepreneurial spirit, Schéder 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

Schréder 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 Schréder, 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 – Schréder

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 aknowledges the efforts being made every day by every single Schréder employee to enable a better and more sustainable world.

More information:
www.ecovadis.com

GOLD
2022
ecovadis
Sustainability
Rating

Being responsible
for the planet

Manufacturing according to the highest environmental standards

All Schréder 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
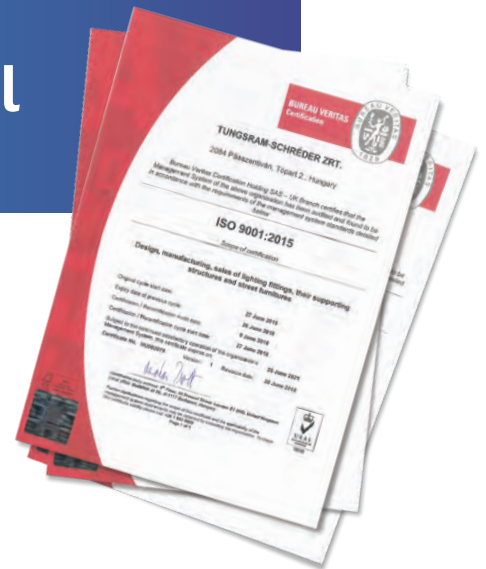
Transparency throughout the complete product life cycle

To provide our customers with clear information on the environmental impact of each luminaire, Schréder 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.
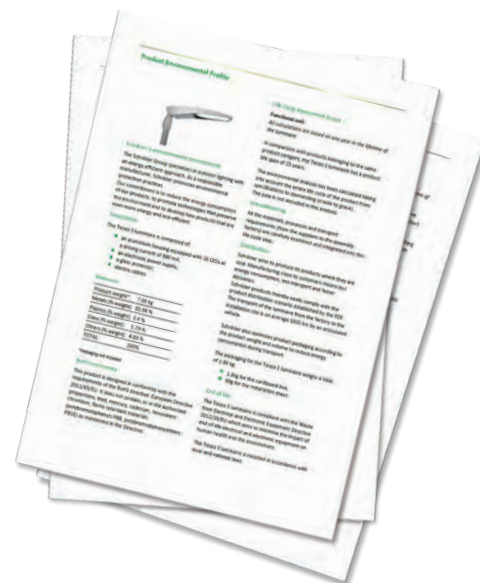
Building a circular ecosystem

CIRCLELIGHT

Schréder 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 **Schréder 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

SMART LABEL

The **Schréder 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 **Schréder 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
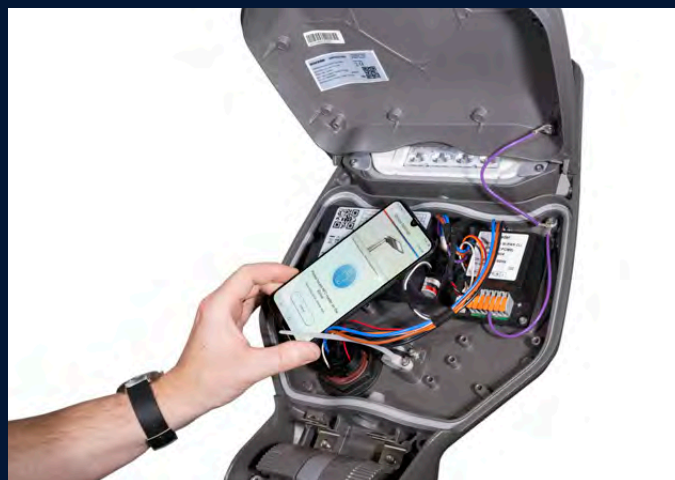
Easily upgrade your existing installations with the **Schréder CIRCLE LED BASE** retrofit kits, sustainable solutions that extend the life of your luminaires. They help you reduce waste, comply with light pollution regulations, minimise maintenance and save energy. With the CIRCLE LED BASE, you can meet 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.


YOUR PARTNER IN SUSTAINABILITY
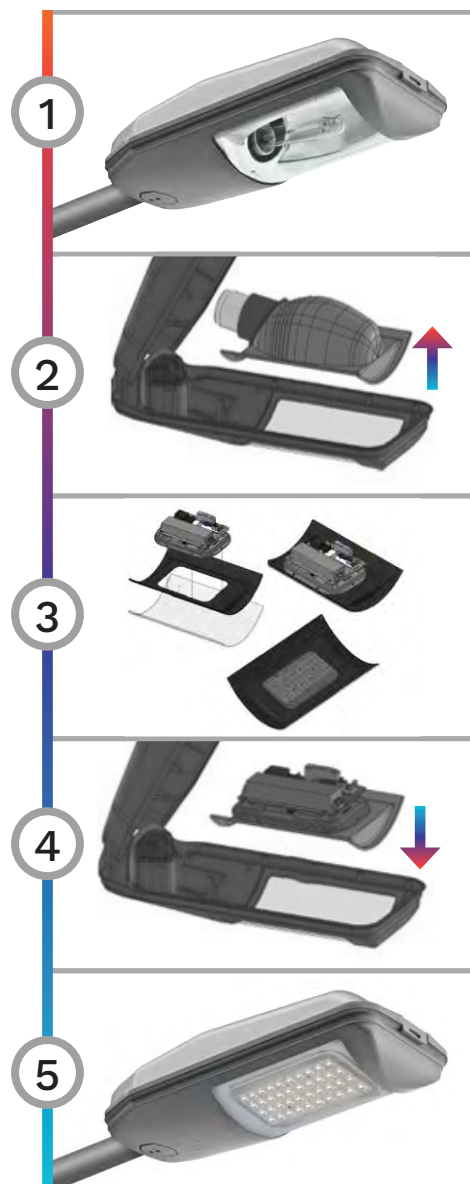
Solutions for maximised energy efficiency

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.

PERFORMANCE

100 %
80 %
60%
40 %
20 %

LIGHT OUTPUT

17   21   23   01   03   05   07   TIME
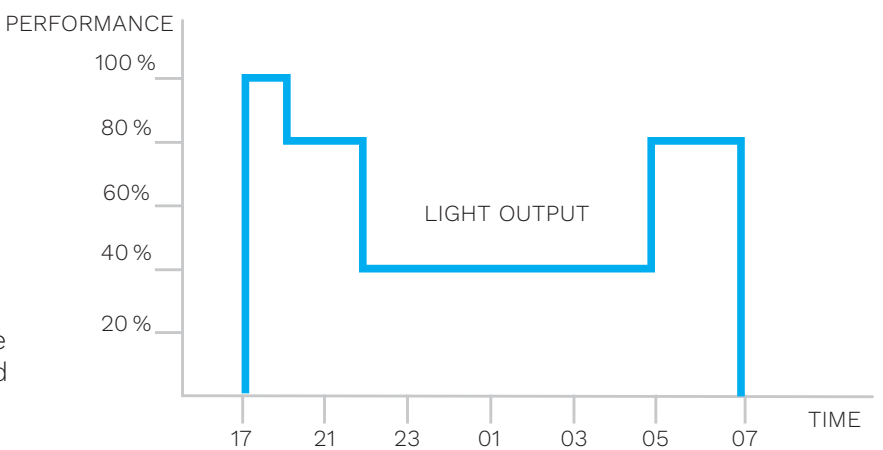
SENSORS FOR AUTONOMOUS DYNAMIC SCENARIOS
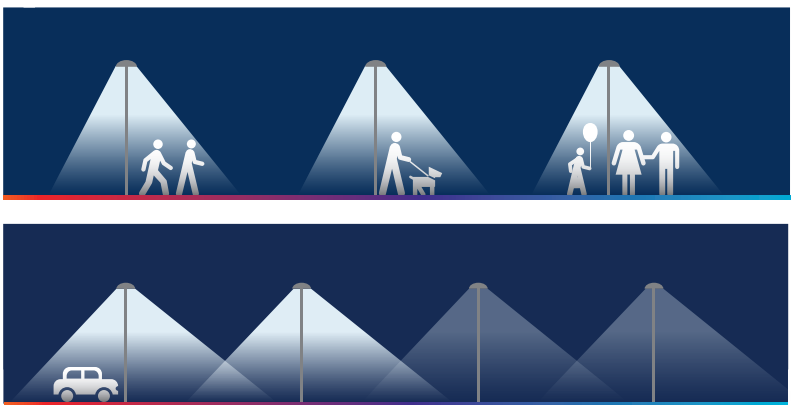
Photoelectric sensors switch on the luminaires exactly when natural light becomes insufficient (cloudy day, night fall, etc.) so as to provide safety and comfort in the public space.

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 SYTEMS

With its user-friendly remote control systems for intelligent lighting, Schréder 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.

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

More information:
www.breeam.com

Click for more information

YOUR PARTNER IN SUSTAINABILITY

Tackling climate change with renewable energy

SOLAR SYSTEMS TO DECARBONISE LIGHTING

With its solar-powered systems, Schréder 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 Schréder 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.

Click for more information

YOUR PARTNER IN SUSTAINABILITY

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. Schréder 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.

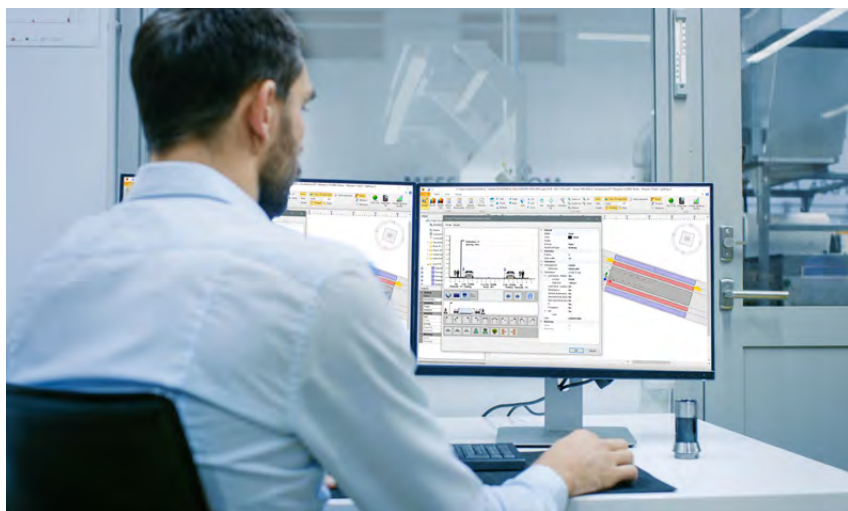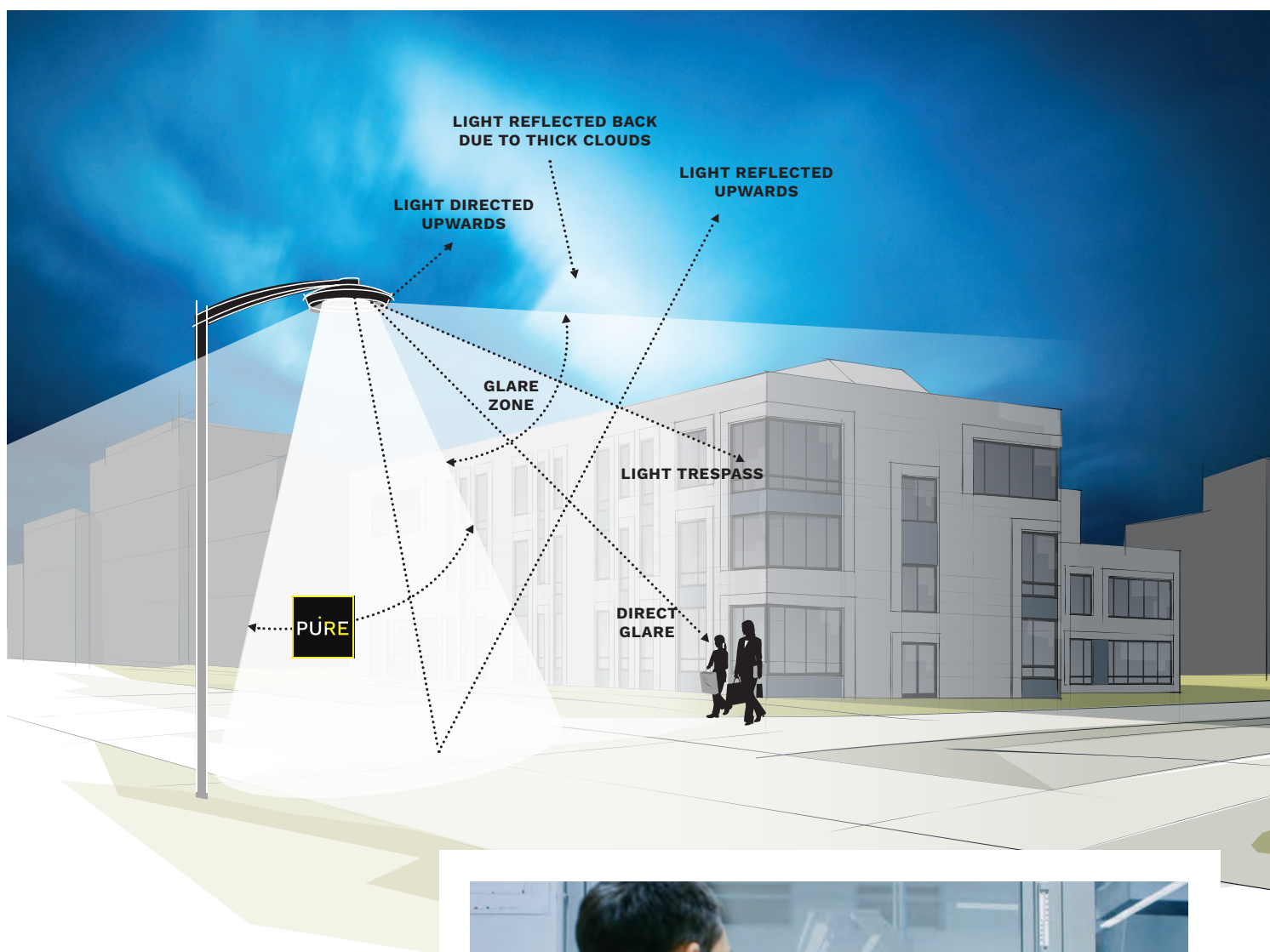We combine our technical and photometrical know-how to **meet the most demanding lighting standards**.

	LENSO FLEX®	MID FLEX™	PRO FLEX™	CONTI FLEX™	BLAST FLEX™	RE FLEXO™
LED type	High-power 2mm²	Mid-power 2mm²	High-power 2mm²	High-power 2mm²	High-power 2 or 4mm²	High-power 2 or 4mm²
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

YOUR PARTNER IN SUSTAINABILITY

PureNight:
dark sky, bright ideas

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

LIGHT REFLECTED BACK
DUE TO THICK CLOUDS

LIGHT REFLECTED
UPWARDS

LIGHT DIRECTED
UPWARDS

GLARE
ZONE

LIGHT TRESPASS

PURE

DIRECT
GLARE

# 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 Schréder 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.
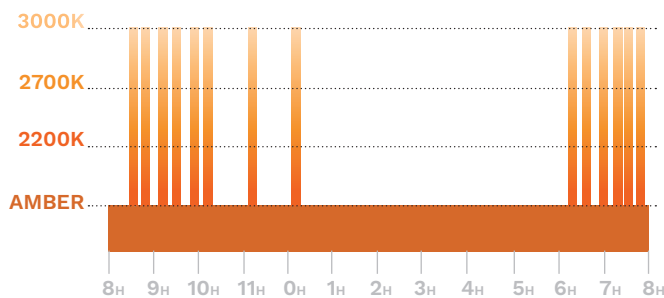
AMBER
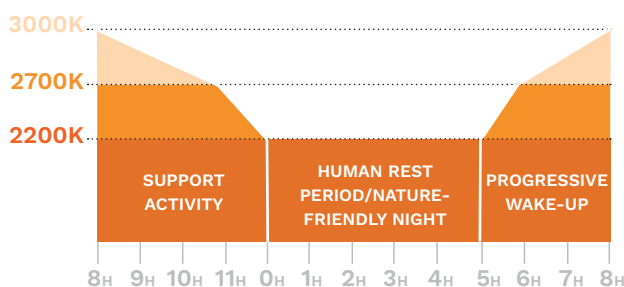Nature-friendly, minimal safety lighting

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.

SUPPORT ACTIVITY | HUMAN REST PERIOD/NATURE-FRIENDLY NIGHT | PROGRESSIVE WAKE-UP

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

2700K – 20lux
Evening/early night
Quieter ambiance

2200K – 5lux
Night
Completely calm mood

YOUR PARTNER IN SUSTAINABILITY

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 Schréder guarantees that **your lighting solution satisfies environmental laws and requirements**. Schréder 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 **Schréder 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.

Schréder'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, Schréder protects wildlife and contributes to the preservation of the ecosystem.

YOUR PARTNER IN SUSTAINABILITY

Being responsible with people

Valuing difference, being inclusive, and embracing diversity

At Schréder, 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 ongoing concern in society as a whole.

Protecting human rights

Schréder 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 Schréder'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

Schréder has developed its own internal training academy called SKILL, which stands for Sharing Knowledge in Light and Lighting. SKILL's mission is to **increase Schréder 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 Schréder employees and customers.

LARGE AREA & FLOOD

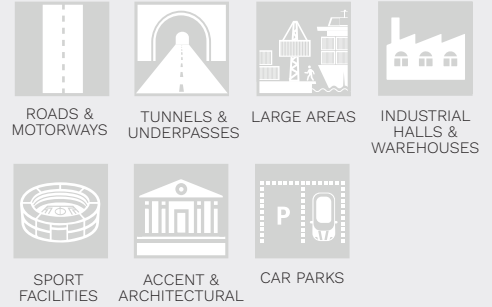**"Solutions for safe and comfortable environments with maximised operational benefits "**

Schréder

OMNISTAR

ROADS & MOTORWAYS

TUNNELS & UNDERPASSES

LARGE AREAS

INDUSTRIAL HALLS & WAREHOUSES

SPORT FACILITIES

ACCENT & ARCHITECTURAL

CAR PARKS

Designed to bring massive savings and benefits to area lighting

OMNISTAR provides a beneficial lighting solution in a variety of indoor and outdoor applications such as tunnels, docks, industrial buildings, sport facilities, large car parks and airports.

This platform has been designed to provide an unrivalled combination of performance and flexibility for lighting areas where high lumen packages are needed with the added advantages of a LED solution: low energy consumption, improved visibility with white light, limited maintenance and longer life.

OMNISTAR can be installed in various configurations (suspended, surface-mounted or post-top) with one to three optical units. OMNISTAR can operate with a large range of outdoor and tunnel control solutions (daylight sensors, dimming, remote management, ATS 4) and a building management system with the DALI protocol to further maximise energy savings by adapting the lighting levels according to the real needs of the place to be lit.
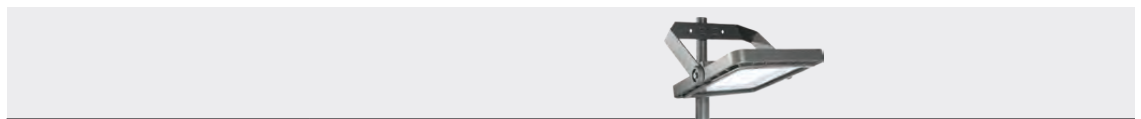
OMNISTAR	1 optical unit
Recommended installation height	8 to 45m / 26' to 148'
Typical luminaire output flux (range)	7,800 to 80,800lm
Power consumption	75W to 594W
Colour temperature	Warm white (730 and 830), neutral white (740 and 940) or cool white (757 and 957)
Nominal voltage	220-240V / 120-277V / 347-480V 50-60Hz
Surge protection	10kV

PLUS 02 | UL 1598 CSA C22.2 No. 250.0 | TÜV | Ex | IP 66 | IK 08

KEY ADVANTAGES

> **Real beneficial LED alternative to HID floodlights for high-power applications**

> **Flexibility: modular approach with wide range of lighting distributions**

> **Highly efficient light distributions reduce the quantity of luminaires to be installed**

> **Various mounting options and inclination possibilities on-site for optimal photometry**

> **Explosion-proof variant for use in industrial environments with a hazardous atmosphere**

> **Various control options including remote management systems**

DIMENSIONS | MOUNTING

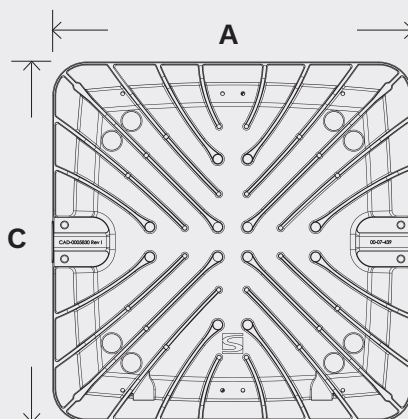| OMNISTAR	
A	532mm | 20.9"
B	80mm | 3.1"
C	530mm | 20.9"
KG	14kg | 30.8lbs

Ø60mm
Ø76mm
Ø76-108mm

Ø60mm
Ø76mm

OMNISTAR is available with various suspended mounting systems (fixed, tiltable or suspension with chains) for indoor areas and tunnels.

DESIGN HIGHLIGHTS

The standard bracket enables the luminaire to be angled on-site.

The OMNIBOX is an IP 66 universal remote gear box made of die-cast aluminium for up to 4 optical units.

With up to 240 high-power LEDs, OMNISTAR delivers high lumen packages.
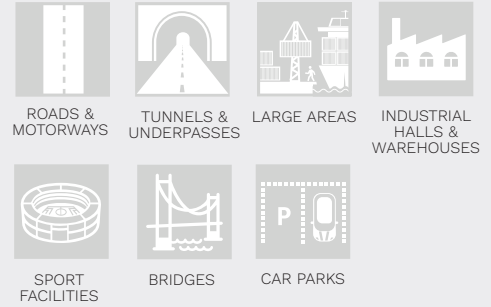

OMNISTAR is delivered with quick connectors for easy installation.

OMNISTAR KIT

Complete, powerful lighting solution, dedicated to industrial and large area applications

OMNISTAR KIT is a combination of the powerful OMNISTAR optical unit and the innovative gear box – the OMNIBOX. Available in three versions, these luminaires offer amodular and powerful LED lighting solution for applications such as warehouses, high bays, tunnels,sports arenas, airports, car parks and large areas.

OMNISTAR KIT luminaires have been designed to provide unrivalled photometric performance for lighting areas where high lumen packages are needed, while benefiting from all the advantages of an economical LED solution: reduced energy consumption, limited maintenance and fast return on investment.

OMNISTAR KIT	STD	PRO	ECO
Recommended installation height	8 to 45m / 26' to 148'		
Typical luminaire output flux (range)	5,600 to 81,000lm	5,600 to 80,800lm	20,200 to 72,200lm
Power consumption	73W to 594W	73W to 594W	302W to 619W
Colour temperature	Warm white (730 and 830), neutral white (740 and 940) and cool white (957)		
Nominal voltage	120-277V / 220-240V / 347-480V / 50-60Hz		
Surge protection	10kV, 20kV		

UL 1598 CSA C22.2 No. 250.0 | TÜV | IP 66 | IK 08

DIMENSIONS | MOUNTING

OMNISTAR KIT	STD	PRO	ECO
A	586mm | 23.1"	806mm| 31.7"	530mm | 20.9"
B	294mm | 11.6"	355mm | 14.0"	351mm | 13.8"
C	581mm | 22.9"	582mm | 22.9"	582mm | 22.9"
KG	28kg | 6.16lbs	35kg | 77lbs	25.6kg | 56.3lbs

Ø60mm
Ø76-108mm

The U-shaped bracket enables surface mounting with on-site inclination.
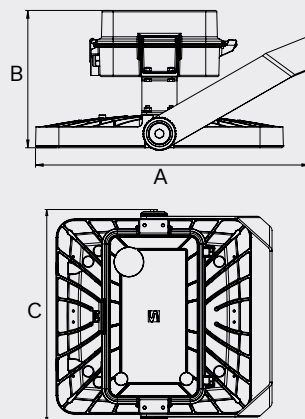
NEOS LED

Design: Michel Tortel

LARGE AREAS

RAILWAY STATIONS & METROS

BIKE & PEDESTRIAN PATHS

URBAN & RESIDENTIAL STREETS

SQUARES & PEDESTRIAN AREAS

BRIDGES

CAR PARKS

ROADS & MOTORWAYS

Robust, versatile luminaire for all road and urban applications

Compact yet powerful, light yet robust, the NEOS LED range provides multiple configurations to create comfort and security in numerous road and urban environments.

Available in three sizes and with multiple light distributions, the NEOS LED provides a high-performing and energy-efficient lighting solution for pedestrian areas, streets, roads, car parks and bike paths.

These versatile multi-purpose luminaires are designed to ensure that the lighting meets the real needs of the place to be lit.
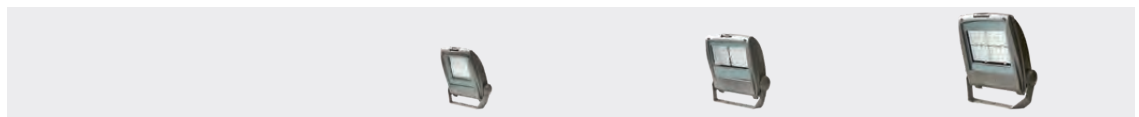
| NEOS LED	1	2	3
Recommended installation height	4 to 8m / 13' to 26'		
Typical luminaire output flux (range)	1,000 to 5,800lm	2,000 to 10,600lm	3,900 to 14,700lm
Power consumption	11W to 44.5W	20.5W to 80W	38W to 116W
Colour temperature	Warm white (727, 730 and 830) or neutral white (740)		
Nominal voltage	220-240V / 50-60Hz		
Surge protection	10kV		

IP 66   IK 08

> LensoFlex®2 photometric engine with photometry adapted to various applications

> Adjustable inclination on-site

> FutureProof: easy replacement of the photometric engine and electronic assembly on-site

> Dedicated range of brackets and poles

DIMENSIONS | MOUNTING

NEOS LED	1	2	3
A	360mm | 14.2"	441mm| 17.4"	600mm | 23.6"
B	100mm | 3.9"	140mm | 5.5"	160mm | 6.3"
C	320mm | 12.6"	398mm | 15.7"	500mm | 19.7"
KG	3.4kg | 6.6lbs	7.7kg | 15.4lbs	19kg | 42lbs

Mounting by means of a fork enables the inclination to be adjusted on-site.
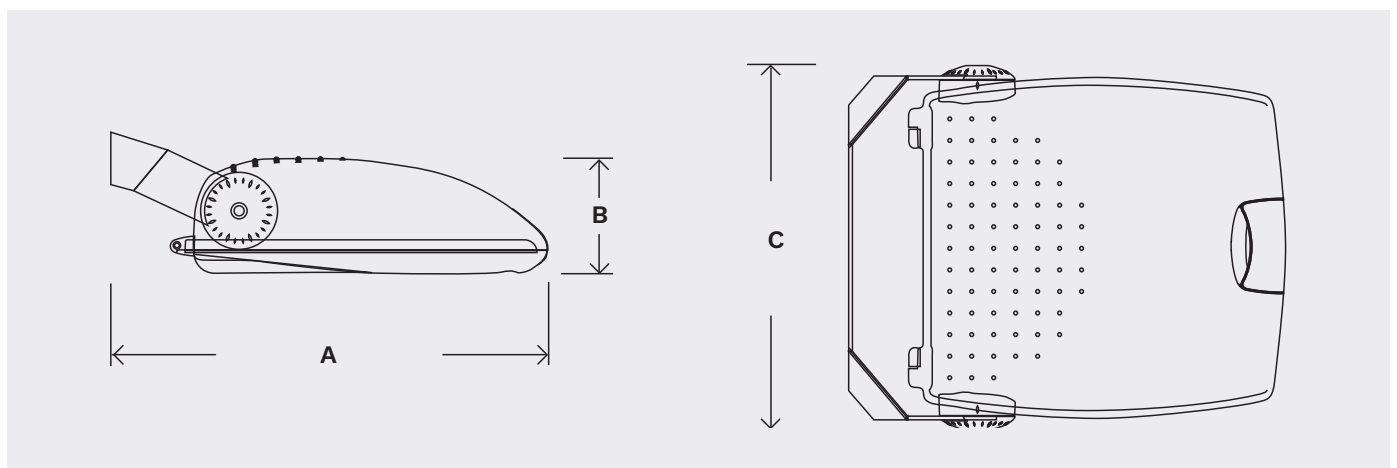
OMNIFLOOD

LARGE AREAS

ACCENT & ARCHITECTURAL

BRIDGES

SPORT FACILITIES

INDUSTRIAL HALLS & WAREHOUSES

BIKE & PEDESTRIAN PATHS

ROADS & MOTORWAYS

Versatility to light all types of public and private facilities

The aesthetic design of OMNIFLOOD, in combination with a wide range of sizes, optical and mounting options, make it very versatile and thus the perfect choice for lighting recreational sports areas, industrial areas, campuses, business parks, car parks, building facades and billboards.

OMNIFLOOD is the ideal tool to replace a range of floodlights equipped with traditional discharge lamps of 50 to 400W.

The OMNIFLOOD range combines the energy efficiency of LED technology with the photometric performance of the LensoFlex®2 and BlastFlex™ concepts developed by Schréder.

OMNIFLOOD	1	3
Recommended installation height	4 to 12m / 13' to 39'	
Typical luminaire output flux (range)	1,800 to 6,200lm	5,600 to 28,200lm
Power consumption	18.9W to 53W	52.5W to 227W
Colour temperature	Warm white 730 or neutral white 740	
Nominal voltage	220-240V / 50-60Hz	
Surge protection	10kV	

IP 66   IK 10

> **One-to-one replacement for 50W to 400W HID floodlights**

> **Large energy savings compared to systems with traditional discharge lamps**

> **Precise light control with LensoFlex®2 and BlastFlex™ photometric engines**

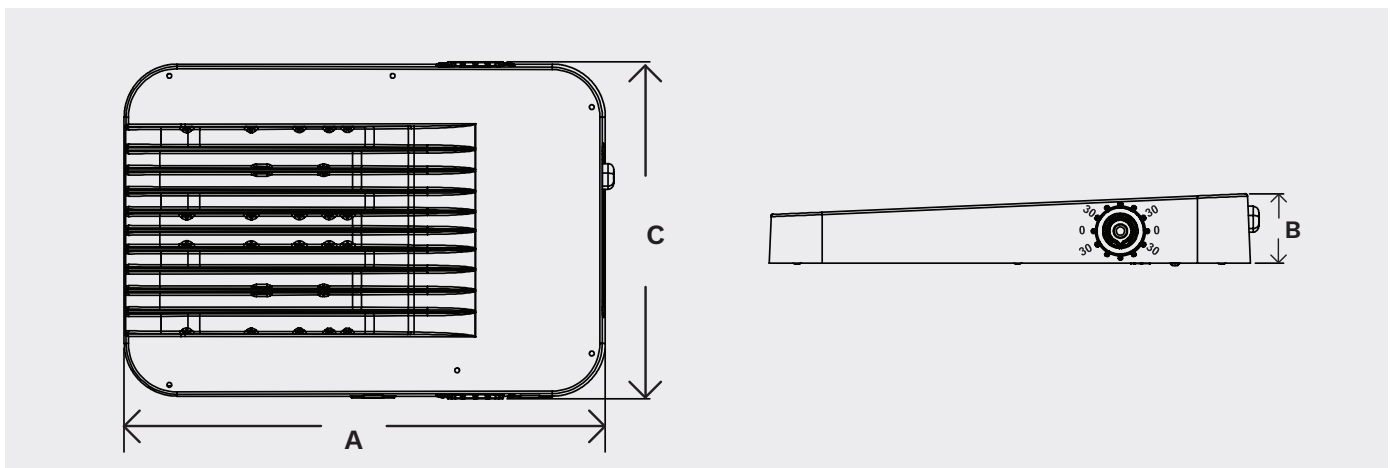> **FutureProof: smart upgradability**

DIMENSIONS | MOUNTING

OMNIFLOOD	1	3
A	500mm | 19.7"	546mm | 21.5"
B	72mm | 2.8"	88mm | 3.5"
C	311mm | 12.2"	475mm | 18.7"
KG	9kg | 19.8lbs	18.4kg | 40.5lbs

Ø60mm
Ø76mm

Versatile fork enabling the inclination to be adjusted by 60 degrees (-30° to +30°).

LARGE AREA & FLOOD

ASTRAL SLIM

MAIN APPLICATIONS

RAILWAY STATIONS & METROS

CAR PARKS

INDUSTRIAL HALLS & WAREHOUSES

SPORT AREAS

Creating safety and ambiance in enclosed areas

Combining design, efficiency and modularity, ASTRAL SLIM is a great alternative to fluorescent tubes for continuous or discontinuous lighting in enclosed areas such as train and metro stations, airports, shopping centres or any other indoor applications where the safety and well-being of the users are critical.

Thanks to its sleek and elegant housing, ASTRAL SLIM contributes to the creation of a visually appealing environment with uniform, low-glare lighting that gives a real sense of safety and offers superior visual comfort.

Designed to provide operational benefits for site managers, this state-of-the-art LED linear lighting solution is characterised by its high efficiency, reduced energy consumption, minimal maintenance requirements and easy installation.

| ASTRAL SLIM	
Recommended installation height	3 to 8m / 10' to 26'
Typical luminaire output flux (range)	1,500 to 4,000lm
Power consumption	13.9W to 38.1W
Colour temperature	Neutral white 840
Nominal voltage	220-240V / 50-60hz

IP 66   IK 08

> **Compact design**
> **Aesthetic design**
> **Excellent uniformity of illuminance**
> **Beneficial LED alternative to T5/T8 fluorescent tubes**
> **Superior visual comfort (low glare)**
> **Tool-free installation and plug-and-play connections**
> **Modular design with custom housing offers a number of optical units and control options (master and stand-by configurations)**
> **Integrated cable tray**
> **Fire-resistant materials**

DIMENSIONS | MOUNTING

ASTRAL SLIM

A	6000mm | 236.2"
B	133mm | 5.2"
C	278mm | 10.9"
KG	43kg | 94.6lbs

ASTRAL SLIM is designed for suspended, surface or recessed mounting in a ceiling.

LARGE AREA & FLOOD
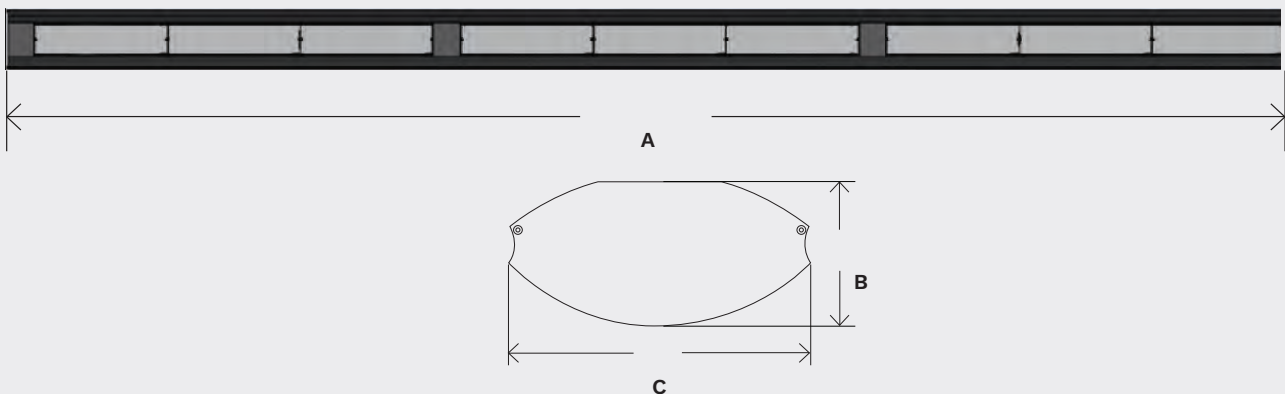
SPORTS FACILITIES

**Play.
Perform.
Win.**
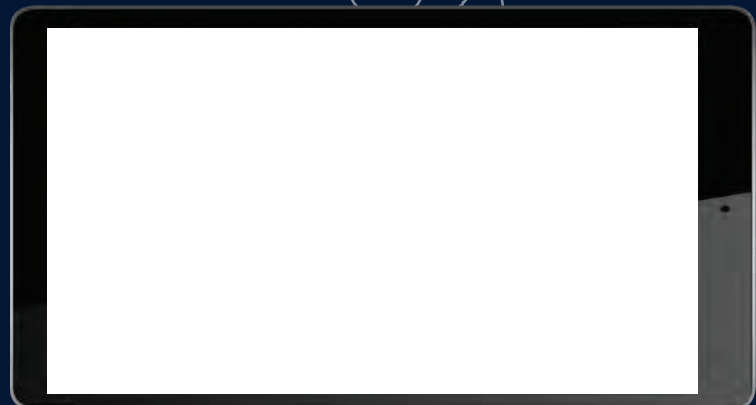
Schréder

Make life easy
with the Schréder ITERRA control system

The must-have lighting control solution for sports facilities

▶ **LET'S GET EASY.**
LET'S GET WIRELESS.

No extra cabling, no PLC, no complicated commissioning process. Schréder ITERRA is the **100% wireless control system for indoor and outdoor** sports facilities. Based on a Bluetooth™ mesh network, it offers a real **plug-and-play solution** able to control all luminaires and floodlights using standard DALI, DALI-2 or 0-10V/1-10V protocols.

▶ **ONE TOUCH,**
GREAT EXPERIENCE.

A mobile app-based system, Schréder ITERRA is very **easy to operate** with a tablet or smartphone. It comes with an **intuitive visual interface** that users can quickly personalise to the layout and settings of their lighting installation. Through differentiated user rights, managers can decide on access to system features and lighting scenarios according to the profile of the individual.

With Schréder ITERRA, it is easy to provide the right light (light distribution, intensity, colour temperature and theatrical effects) at any time to energise athletes and spectators while ensuring **safety, accuracy and visual comfort**.

▶ **SERIOUSLY**
SMART

Although the Schréder ITERRA control solution is extremely user-friendly, it is based on state-of-the-art, efficient technologies to offer maximum flexibility and savings for a quick return on investment. As an **ecosystem based on leading industry standards**, it ensures compatibility with future developments and extensions. Firmware updates are automatically supported by the application. Schréder ITERRA is **a must-have** for sports facility managers who want to maximise the benefits with the utmost peace of mind.

ITERRA

Minimum hardware, **maximum flexibility**

The Schréder ITERRA control solution is characterised by a minimal footprint and excellent flexibility for on-site installation.

ITERRA DYNAMIC SWITCH

Transforming any basic switch into a smart command, programmable with the Schréder ITERRA application

ITERRA MODULE NODE

Indoor module converting a wired DALI/0-10V signal into BLE wireless communication

ITERRA GATEWAY

Control your complete Schréder ITERRA lighting system via the cloud with an internet connection

ITERRA XPRESS

Physical remote control configurable with the Schréder ITERRA application

ITERRA ZHAGA NODE

Plug-and-play node for mounting on a standard Zhaga Book 18 socket
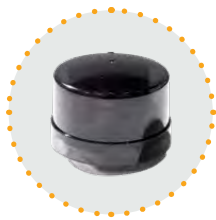
ITERRA BASICBOX

Cabinet centralising DALI wired connections and equipped with a NEMA 7-pin socket

ITERRA NEMA NODE

Plug-and-play node for mounting on standard NEMA 7-pin sockets (BASICBOX or luminaire)

SCHRÉDER ITERRA APP TO MANAGE YOUR COMPLETE INSTALLATION

An intuitive and easy-to-use application on any mobile device (smartphone or tablet, Android or iOS) allows you to control your entire lighting installation and manage multiple areas, from indoor to outdoor lighting.

ITERRA

Perform.
Play.
Win.

- Quick and easy implementation

- Open technologies and standards

- Outstanding user experience

- Futureproof solution

- Cost-effective control system

- Additional energy savings & increased lifetime of luminaires

- Remote and physical control, data monitoring and preventive maintenance

- Management of user rights for a variety of user profiles
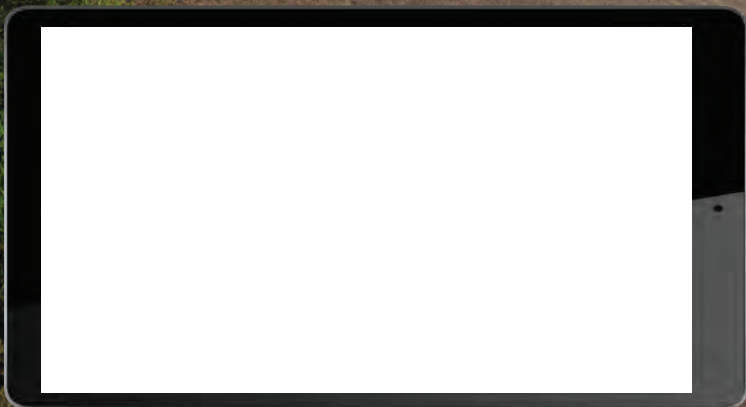
ECOBLAST

SPORTS AREAS

LARGE AREAS

Smart modular solution for sports lighting

ECOBLAST is a range of high-performance floodlights designed to provide the right light in indoor and outdoor sports venues as well as other large areas where high lumen packages and razor-sharp lighting distributions are needed.

This modular solution offers beneficial alternatives to floodlights equipped with 1000W, 1500W or 2000W discharge lamps. Thanks to its versatile mounting system, ECOBLAST is fully compatible with existing infrastructure for retrofit projects. The modular approach optimises the weight and lowers aerodynamic resistance to minimise the mechanical stress on the supporting structure.

Equipped with the latest generation of photometrical engines, ECOBLAST stands out with cutting-edge distributions to offer perfect uniformity and superior visual comfort for players, spectators and neighbours (low glare and minimised light spill). ECOBLAST is the ideal tool to comply with sports federations and international regulations. With its DALI2 and DMX-RDM options, ECOBLAST is fully compatible with the ITERRA remote control system.

ECOBLAST	3	4	5	6
Recommended installation height	8 to 50m / 26' to 164'			
Typical luminaire output flux (range)	56,900 to 112,700lm	75,900 to 150,300lm	94,900 to 187,900lm	114,000 to 225,500lm
Power consumption	680W to 910W	900W to 1,210W	1,130W to 1,520W	1,350W to 1,820W
Colour temperature	Warm white (730), neutral white (740 and 840) or cool white (757, 857 and 957)			
Nominal voltage	220-240V / 277V / 347V / 400V 50-60Hz			
Surge protection	10kV			

UL 1598 CSA C22.2 No. 250.0 · TÜV · IP 66 · IK 08 GEAR GLASS · IK 09 PC

> **Fully compatible with existing infrastructure (mounting and cabling) in retrofit projects**

> **Flexibility: modular approach for high-power applications**

> **Versatile mounting: remote gear box or fixed to the floodlight**

> **Compliant with international sports federation regulations**

> **Optimised glare control**

> **Inclination angle adjustable on-site for each row of modules and/or the complete bracket**

> **Instant on/off and entertainment mode to create dramatic/ theatrical effects**

DIMENSIONS | MOUNTING

ECOBLAST	3	4	5	6
A	696mm | 27.4"	696mm | 27.4"	696mm | 27.4"	696mm | 27.4"
B	583mm | 22.9"	765mm | 30.1"	765mm | 30.1"	765mm | 30.1"
C	360mm | 14.1"	340mm | 13.4"	340mm | 13.4"	340mm | 13.4"
KG with PC protector	19.1kg | 41.9lbs	27.2kg | 59.5lbs	30.7kg | 66.1lbs	34.0kg | 74.9lbs
KG with glass protector	20.5kg | 44.1lbs	29.1kg | 63.9lbs	33.1kg | 72.8lbs	36.9kg | 79.4lbs

ECOBLAST 3

ECOBLAST 4

ECOBLAST 5

ECOBLAST 6

LARGE AREA & FLOOD
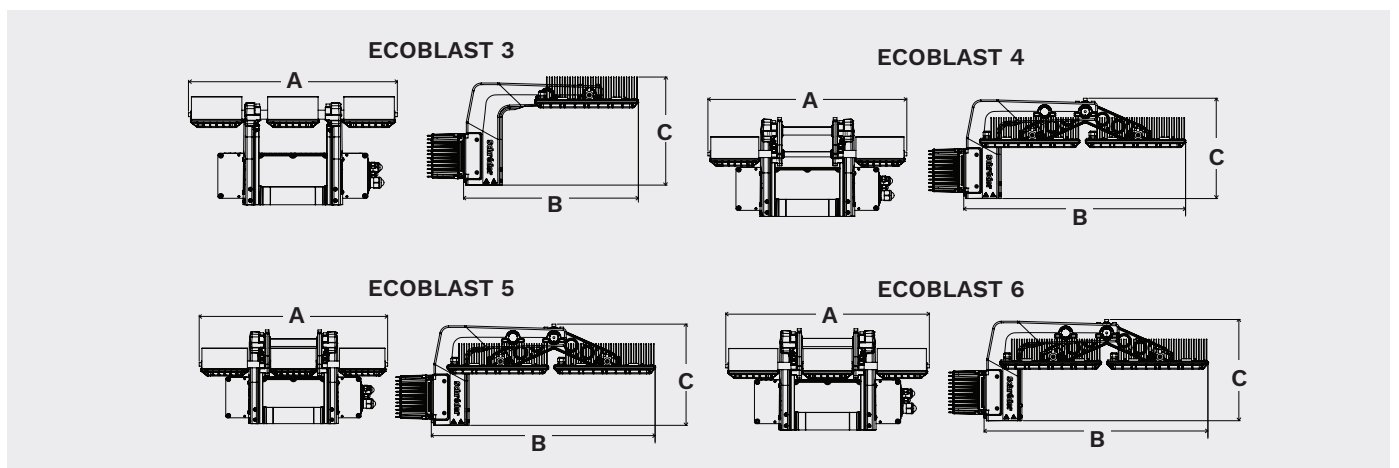
DESIGN HIGHLIGHTS

ECOBLAST is a modular solution with up to 6 modules, including tilt settings on the whole ensemble and per row of modules.

The ECOBLAST bracket offers two positions for the structure supporting the modules: front or rear.

The universal mounting part on the ECOBLAST bracket is designed to comply with existing infrastructure for retrofit projects.

ECOBLAST offers maximum flexibility with a gear box that can be mounted on the bracket or remotely at a distance of up to 200m.

To maintain performance over time, ECOBLAST has been designed to optimise heat dissipation.

The ECOBLAST modules are available with a polycarbonate or glass protector.

BRITELINE GEN2

SPORTS AREAS

LARGE AREAS

Versatile and efficient lighting solution for outdoor sports facilities

The BRITELINE GEN2 floodlight offers a versatile and effective solution for lighting outdoor sport facilities and large areas where energy efficiency is a must.

With its innovative design comprising adjustable and corrosion-resistant modules, this floodlight offers unparalleled versatility and precise configuration to accommodate any existing setup while ensuring accurate photometry.

Equipped with high-performance LED engines, BRITELINE GEN2 stands out by delivering exceptional performance at affordable costs. Its light distributions and backlighting options not only provide outstanding visibility but also adhere to strict environmental standards, meeting light pollution regulations and dark sky requirements.

Compatible with the Schréder ITERRA control system, BRITELINE GEN2 provides intelligent and intuitive lighting, elevating recreative sports and outdoor floodlighting to unprecedented levels.

BRITELINE GEN2	1	2
Recommended installation height	4 to 15m / 13' to 49'	
Typical luminaire output flux (range)	90,900 to 103,000lm	178,600 to 207,600lm
Power consumption	680W to 694W	1361W to 1392W
Colour temperature	Warm white (740, 840, 940) or cool white (757, 857, 957)	
Nominal voltage	120-277V / 220-240V / 347-480V - 50-60Hz	
Surge protection	10kV	

UL 1598 CSA C22.2 No. 250.0   IP 66   IK 10

> **Two sizes to provide the best solution**

> **Inclination angle adjustable on-site for each module and/or the complete bracket**

> **Perfect control of light distributions**

> **ProFlex™ photometric engines offering high efficiency lighting, comfort and safety**

> **Maximised savings in energy and maintenance costs**
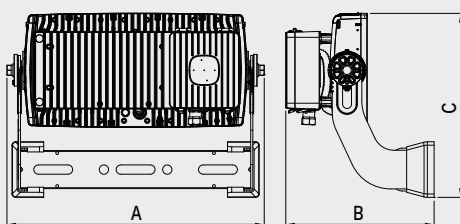
> **Intelligent lighting via remote control**

DIMENSIONS | MOUNTING

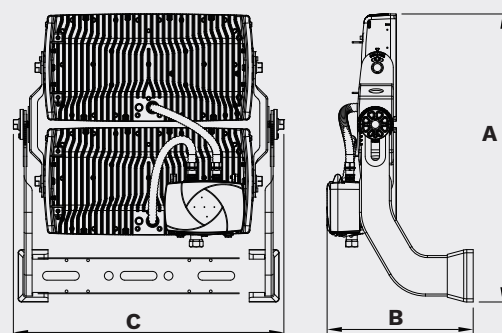| BRITELINE GEN2	1	2
A	436mm | 17.2"	723mm | 28.5"
B	332mm | 13.1"	367mm | 14.4"
C	609mm | 24"	679mm | 26.7"
KG	16.5kg | 36.3lbs	30kg | 66lbs

Versatile fixation bracket enabling light orientation at both the bracket and module levels for optimised photometry

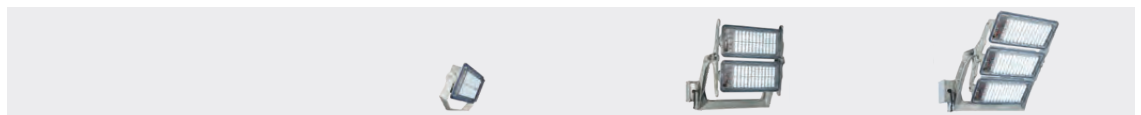**BRITELINE GEN2 1**

BRITELINE GEN2 2

OMNIBLAST

Unrivalled combination of performance and flexibility

OMNIBLAST is the ideal tool for sports venues and other very large area applications that require a lighting solution with the highest efficiency and flexibility to adapt to the different lighting needs.

OMNIBLAST ensures high horizontal and vertical lighting levels to meet the strict requirements of sports federations and TV broadcasting.

A modular concept of optical units means that 1, 2 or 3 modules can be mounted on the same bracket to offer the utmost versatility, providing light distributions and lumen packages perfectly adapted to the specifications of the area to be lit.

To enhance the on-site experience and television images, OMNIBLAST guarantees perfect glare control, a high CRI and television lighting consistency index (TLCI) as well as flicker-free lighting. OMNIBLAST benefits from various dimming options and ensures theatrical effects.

MAIN APPLICATIONS

SPORTS AREAS   LARGE AREAS   ACCENT & ARCHITECTURAL

OMNIBLAST	1	2	3
Recommended installation height	8 to 50m / 26' to 164'		
Typical luminaire output flux (range)	18,600 to 64,800lm	34,500 to 129,700lm	54,900 to 194,600lm
Power consumption	244W to 618W	488W to 1,160W	1740W
Colour temperature	Warm white (830), neutral white (740 and 940), cool white (757 and 957), NCW+Amber or RGB CW		Warm white (830), neutral white (740 and 940) or cool white (757 and 957)
Nominal voltage	120-277V / 220-240V / 347-480V / 50-60Hz		
Surge protection	10 / 20kV		

UL 1598 CSA C22.2 No. 250.0   TÜV   IP 66   IK 08   IK 09   IK 10
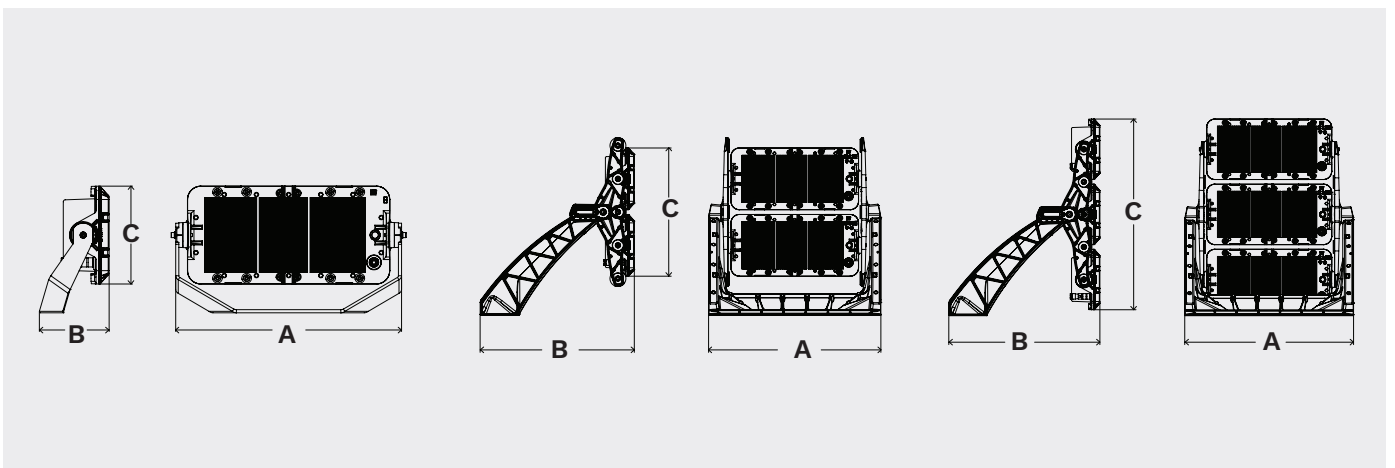
> **Cost-effective and efficient to maximise energy and maintenance savings**

> **Flexibility: modular approach for high-power applications**

> **Compliant with international sports federation regulations**

> **High Colour Rendering Index (CRI) and Television Colour Consistency (TLCI)**

> **Compliant with UHD/ HD/4K broadcast and super slow-motion replays (flicker-free)**

> **Instant on/off and entertainment mode to create dramatic/ theatrical effects**

> **Optimised glare control**

DIMENSIONS | MOUNTING

OMNIBLAST (RGB / tunable white)	1	2
A	595mm | 23.4"	700mm | 27.6"
B	188mm | 7.4"	630mm | 24.8"
C	250mm | 9.8"	520mm | 20.5"
KG	12kg | 26.4lbs	28kg | 61.6lbs

OMNIBLAST GEN2 (white)	1	2	3
A	595mm | 23.4"	700mm | 27.6"	700mm | 27.6"
B	188mm | 7.4"	630mm | 24.8"	630mm | 24.8"
C	250mm | 9.8"	520mm | 20.5"	790mm | 31.1"
KG	12kg | 26.4lbs	28kg | 61.6lbs	35kg | 77.0lbs

DESIGN HIGHLIGHTS

OMNIBLAST takes advantage of patented cooling technology for sustainable performance.

Each module can be tilted individually up to 40° (+20°/-20°).

The lightweight yet robust bracket for 2 or 3 modules incorporates various settings.

OMNIBLAST offers a wide range of accessories (brackets, louvres, hoods, etc.)

With its tunable white or RGB LEDs, OMNIBLAST offers advanced possibilities for entertaining the audience with special lighting effects.

OMNIBLAST can be controlled by the DMX-RDM protocol that enables each fixture to be switched on and off individually or synchronised in light shows.

INDU BAY GEN3

INDUSTRIAL HALLS & WAREHOUSES

LARGE AREAS

SPORT FACILITIES

CAR PARKS

Setting the benchmark in high-bay lighting

With the 3rd generation INDU BAY, Schréder offers the leading luminaire for lighting industrial facilities with a minimised total cost of ownership.

More efficient, light, versatile, designed for the requirements of specific industries (metal, automotive, food and beverage, etc.) and smart, it delivers the best solution on the market today for high-bay applications.

It outperforms all other fixtures thanks to the substantial energy savings it generates and the performance it delivers over time.

Available with various lumen packages, light distributions and mounting options, INDU BAY adapts the lighting to meet the specific needs of your environment.

It not only lowers your investment. It maximises it by providing a comfortable environment for your staff while limiting energy consumption to what is absolutely necessary.

INDU BAY GEN3	1	1 HT	2 HT	2
Recommended installation height	4 to 12m / 13' to 39'			
Typical luminaire output flux (range)	15,500 to 21,100lm	9,800 to 10,700lm	22,600 to 24,900lm	25,800 to 32,100lm
Power consumption	115W to 140W	70W	150W	185W to 210W
Colour temperature	Neutral white 840 or cool white 857			
Nominal voltage	220-240V / 50-60hz			
Surge protection	2 / 4 / 6kV			

IP 66   GLASS IK 08   PC IK 10

> One-to-one replacement for HID fixtures from 40W to 400W

> Light-on-demand feature with optional motion sensor

> Emergency lighting with optional battery

> High visual comfort

> Compact housing optimised for heat dissipation and reduced dust accumulation

> Dedicated range of mounting accessories

> INDU BAY HT variant providing a dedicated solution for extremely hot environments

> Compatible with Schréder's indoor and outdoor control system

DIMENSIONS | MOUNTING

INDU BAY GEN3	1	1 HT	2 HT	2
A	330mm | 13"	330mm | 13"	400mm | 15.7"	400mm | 15.7"
B	122mm | 4.8"	298mm | 11.7"	135mm | 5.3"	135mm | 5.3"
C	330mm | 13"	330mm | 13"	400mm | 15.7"	400mm | 15.7"
KG	4.5kg | 9.9lbs	5.6kg | 12.3lbs	7.43kg | 16.38lbs	6.8kg | 15.0lbs

INDU BAY is delivered with a hook for a suspension chain (not included). A fork mounting system enables the luminaire to be inclined on-site for precise adjustment.

A/C

B

LARGE AREA & FLOOD
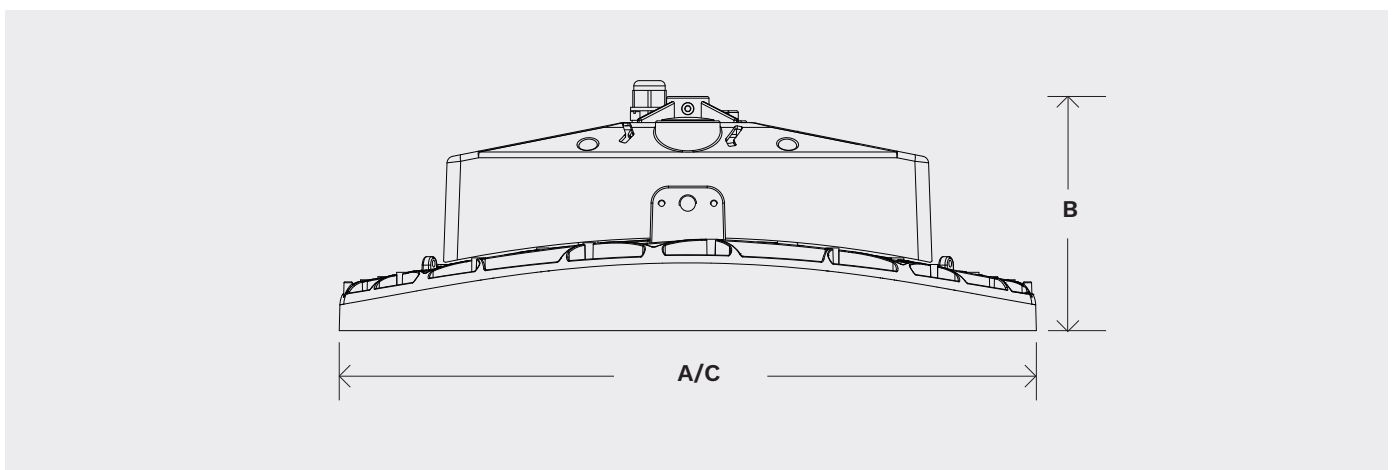
DESIGN HIGHLIGHTS

INDU BAY is equipped with a graduated U-bracket for precise on-site setting.

In case of an emergency, an optional auxiliary battery can power the INDU BAY for 3 hours to provide safety lighting.

INDU BAY HT offers a dedicated solution for extremely hot environments.

INDU BAY can be equipped with a motion sensor for light-on-demand scenarios.

INDU FLOOD GEN2

MAIN APPLICATIONS

INDUSTRIAL HALLS & WAREHOUSES

LARGE AREAS

SPORT FACILITIES

CAR PARKS

Efficiency and versatility for indoor and outdoor area lighting

With multiple combinations of lumen packages and light distributions, INDU FLOOD is the ideal tool to provide an efficient multi-purpose lighting solution for industrial environments.

Available in 3 sizes, this compact luminaire perfectly integrates environments to provide the exact lighting requirements for the space to be lit. Delivered with a mounting bracket and also available with a post-top fixation, it can be adjusted on-site for precise optical control. It is perfect for replacing fixtures with discharge lamps from 50 to 800W.

INDU FLOOD provides a bright white light for excellent visibility and colour perception, delivering value beyond energy savings.

Its robust design, with a high IP rating, guarantees performance for many years to come, even in the harshest conditions.
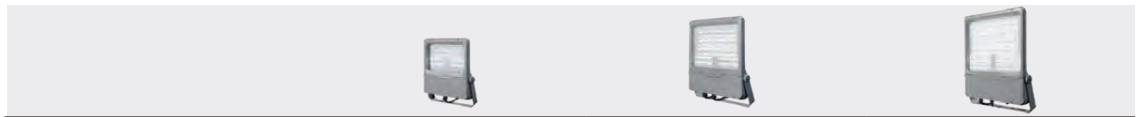
INDU FLOOD GEN2	1	2	3
Recommended installation height	3 to 16m / 10' to 52'		
Typical luminaire output flux (range)	3,400 to 10,000lm	14,500 to 30,400lm	29,700 to 60,900lm
Power consumption	31W to 63W	125W to 190W	250W to 375W
Colour temperature	Warm white 722, Warm White 730 or neutral white 740		
Nominal voltage	120-277V / 220-240V / 347-480V / 50-60Hz		
Surge protection	10kV		

IFS rev 6.1.

IP 66   IK 09

> **High efficiency with low operating costs**

> **3 sizes and multiple light distributions to replace discharge lamps from 50 to 800W**

> **One design for aesthetic consistency in multi-purpose applications**

> **High energy savings compared to systems with traditional discharge lamps**

> **Dimmable for even more energy savings**

> **Light-on-demand feature with optional motion sensor**

> **Fast ROI thanks to long life span and reduced maintenance**
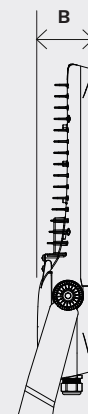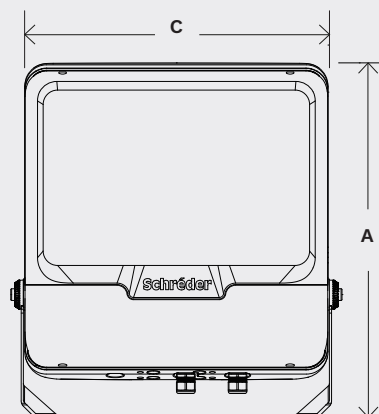
DIMENSIONS | MOUNTING

INDU FLOOD GEN2	1	2	3
A	390mm | 15.4"	492mm | 19.4"	622mm | 24.5"
B	77mm | 3"	77mm | 3"	90mm | 3.5"
C	321mm | 12.6"	421mm | 16.6"	521mm | 20.5"
KG	5.6kg | 12.3lbs	8.8kg | 19.4lbs	16.8kg | 37lbs

Ø60mm
Ø76mm

Fork enabling the inclination to be adjusted. Optional post-top mounting.
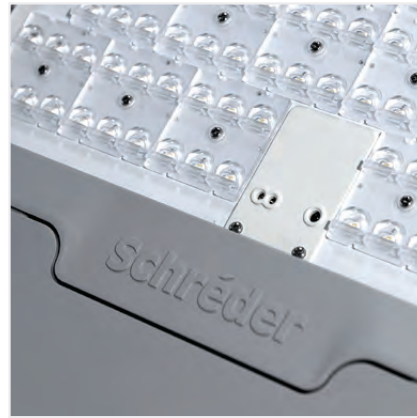
DESIGN HIGHLIGHTS

The universal U-bracket includes a graduation system for precise on-site setting.

INDU FLOOD provides easy access to the gear compartment.

The floodlight includes two cable glands at the back (in and out) for a daisy chain layout. It is designed for integration with building management systems (DALI 2.0 or 1-10V protocol).

As an option, INDU FLOOD can be equipped with a sensor (motion and daylight) for light-on-demand scenarios.
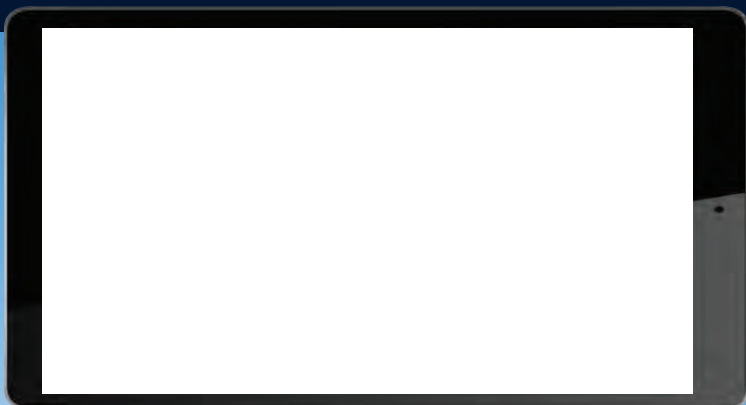

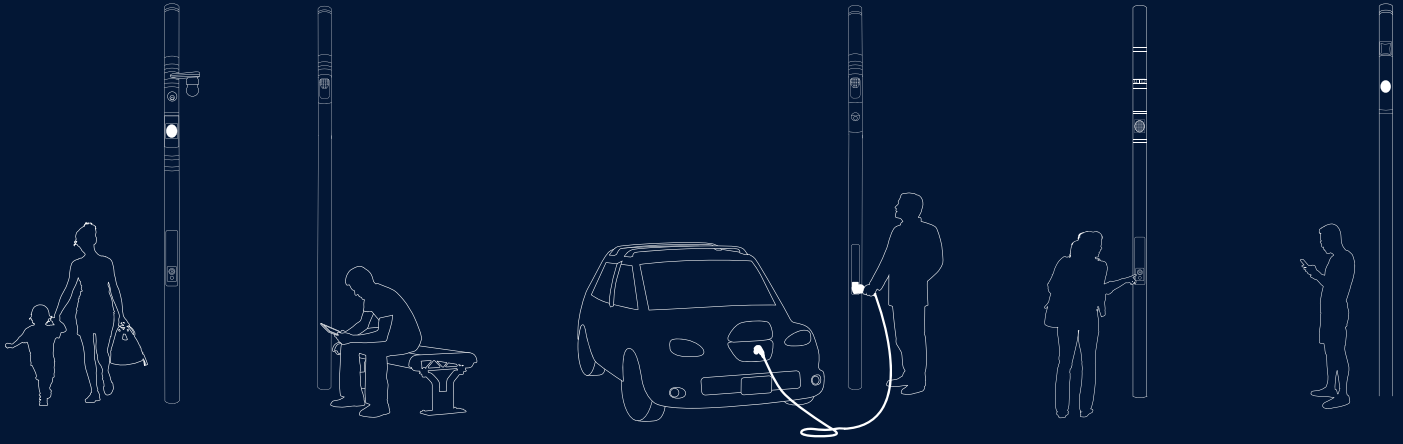The post-top mounting enables easy adjustment of the tilt angle of the luminaire on site.

INDU FLOOD GEN2 offers post-top mounting with an optional adapter.

It's time to
SHUFFLE
your world!

SHUFFLE

Decluttering cities on their journey to becoming smart

The SHUFFLE smart column is a connected, modular approach to city hardware. With plug-and-play rotatable modules that contain pre-certified hardware, it can be configured to suit your specific needs.

Redesign. Reorganisie. Improve Combine. Do these all at once with SHUFFLE, an integrated concept with unlimited opportunities to **bring the experience to a new level** in cities and venues. Information, identity, safety, communication, entertainment, mobility and much more. All your various features can be gathered elegantly into **one integrated platform**. Not set in stone, but with versatility and ready for future evolutions.
You can create your personalised SHUFFLE by associating **up to 5 modules per column**, or pick one of our preconfigured variants.

KEY ADVANTAGES

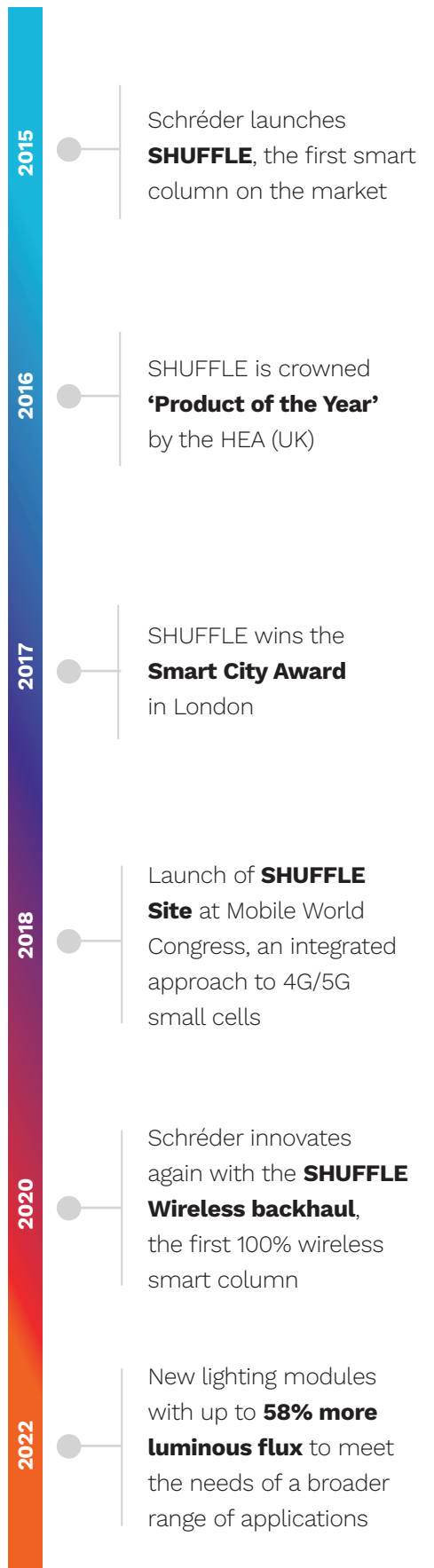> **Seamless integration of urban hardware in a refined column**

> **Personalised combinations: up to 5 modules per column**

> **Preconfigured versions: Campus, SOS, Security, Light and Mobility**

> **Total versatility with 360° rotatable modules**

> **Patented system for easy installation**

> **Upgradable: modules can be added or replaced after installation**

> **Fully connected platform**

Leading with **non-stop innovation**

SHUFFLE was launched in 2015, and many enthusiastic customers who set out to shed extra light on their vibrant urban living spaces have installed it. And they went **beyond simple outdoor lighting.** They took the opportunity offered by this platform to bring new services into their environments, such as WiFi, surveillance cameras, loudspeakers, emergency buttons and EV chargers.

Just a year after its launch, SHUFFLE was awarded `**Product of the Year 2016**' by the Highway Electrical Association (HEA) in the UK. A little while later, in 2017, SHUFFLE received the `**Smart City Award**' in London for its technology with great potential for smart cities. In 2020, Schréder made SHUFFLE independent from physical wiring for lightning-speed connectivity, creating the first wireless smart column. This spirit of constant innovation combined with exquisite design, attention to detail and a deep understanding of customer needs has positioned SHUFFLE as a benchmark in the market. Since their launch, SHUFFLE columns have delighted cities and private companies in **more than 35 countries** worldwide.

2015 — Schréder launches **SHUFFLE**, the first smart column on the market

2016 — SHUFFLE is crowned **'Product of the Year'** by the HEA (UK)

2017 — SHUFFLE wins the **Smart City Award** in London

2018 — Launch of **SHUFFLE Site** at Mobile World Congress, an integrated approach to 4G/5G small cells

2020 — Schréder innovates again with the **SHUFFLE Wireless backhaul**, the first 100% wireless smart column

2022 — New lighting modules with up to **58% more luminous flux** to meet the needs of a broader range of applications

SHUFFLE **SOS**

THE CITIZENS' GUARDIAN ANGEL

SHUFFLE SOS offers the perfect solution for helping people and emergency services in critical situations. With one simple push of a button, citizens can quickly get in touch with the emergency services if they witness an incident or are the victim of an accident.

Using a voice-over IP intercom, people can explain the problem and **receive proper assistance**. The embedded cameras enable call centres to take the right actions thanks to a real-time video feed. The strobe light and horn, which can be triggered remotely, make sure that the emergency signal is seen and heard by bystanders in the area. They also **guide the emergency crew** to the exact location of the incident.

With SHUFFLE SOS, people never feel alone in a city. They receive the support they expect in the shortest possible time. Emergency services are able to react accordingly and cover a larger area, optimising their resources.

Click for more information

	SHUFFLE SOS BASIC	SHUFFLE SOS CORE	SHUFFLE SOS ACTIVE
Pole height	4370mm | 14.34'	4370mm | 14.34'	4370mm | 14.34'
Control node	Yes	Yes	Yes
Module (top)	360° Lighting with strobe (SH36L2-HL)	360° Lighting with strobe (SH36L2-HL)	360° Lighting with strobe (SH36L2-HL)
Module 2	Horn (SH18S2-HN)	Camera without extra PC protector (SH18C2-JH)	Red light ring (SHLR2-RE)
Module 3	-	Horn (SH18S2-HN)	Quadview (SHCQV)
Module 4	-	-	Horn (SH18S2-HN)
Integrated in pole	Intercom (SHPOIC2-GH)	Intercom with camera (SHPOIC2-GI)	Intercom with camera (SHPOIC2-GI)

BASIC

CORE

ACTIVE

SHUFFLE CAMPUS

CREATING PLACES PEOPLE LOVE TO BE IN

SHUFFLE Campus is the right tool for ambitious companies, institutions, public services and cities wanting to offer a high-quality experience to their workers, customers, residents, citizens or visitors.

It is designed to provide multiple services, aesthetically and efficiently, to **business facilities, condominiums, academic, medical or sport complexes, parks, shopping malls or transport infrastructures** such as airports and train or bus stations. SHUFFLE Campus creates **safe**, **pleasant places, connecting people** to the internet, informing and entertaining them, while keeping an elegant and discreet presence that blends into any environment.
SHUFFLE Campus is **a great asset for placemaking** as it strengthens the connection between people and the urban environment with a minimal footprint.

Click for more information

	SHUFFLE CAMPUS BASIC	SHUFFLE CAMPUS CORE	SHUFFLE CAMPUS ACTIVE
Pole height	4370mm | 14.34'	4370mm | 14.34'	4370mm | 14.34'
Control node	Yes	Yes	Yes
Module (top)	360° Lighting with WLAN (SH36LW2-CS/CX)	360° Lighting with WLAN (SH36LW2-JT)	360° Lighting with WLAN (SH36LW2-JT)
Module 2	-	Blue light ring (SHLR2-BL)	Blue light ring (SHLR2-BL)
Module 3	-	Analogue speaker (SH18S2-CP)	Quadview (SHCQV)
Module 4	-	-	Analogue speaker (SH18S2-CP)
Integrated in pole	PIR sensor (C0)	PIR sensor (C0)	PIR sensor (C0) Power sockets (SHPOLE2-G8)

BASIC

CORE

ACTIVE

SHUFFLE SECURITY
BUILDING CONFIDENCE IN OUTDOOR AREAS

Feeling secure is a basic human right. Your residents and visitors want to feel safe at all times. SHUFFLE Security delivers a strategic breakthrough to address this challenge with advanced lighting and security features.

It is designed to **create safe and pleasant outdoor areas**: tourist sites, parks and squares, outdoor spaces around public and private buildings (embassies, ministry buildings, banks, hospitals, schools, etc.), metro, bus or train stations, car parks and sports or leisure venues. SHUFFLE Security provides a monitoring system that enables bidirectional communication: from authorities to citizens or security companies to people in the environment, and vice versa, from end users to public/property managers.

SHUFFLE Security improves confidence in using outdoor environments. It encourages people to socialise, to contribute to the local economy and to develop a true sense of community.

SHUFFLE SECURITY

Click for more information

	SHUFFLE SECURITY BASIC	SHUFFLE SECURITY CORE	SHUFFLE SECURITY ACTIVE
Pole height	4370mm	14.34'	4370mm	14.34'	4370mm	14.34'
Control node	Yes	Yes	Yes
Module (top)	360° Lighting (SH36L2)	360° Lighting (SH36L2)	360° Lighting (SH36L2)
Module 2	Camera without extra PC protector (SH18C2-JH)	Quadview (SHCQV)	Universal camera bracket (SHCBR)
Module 3	-	Analogue speaker (SH18S2-CP)	Camera without extra PC protector (SH18C2-JH)
Module 4	-	-	Analogue speaker (SH18S2-CP)
Integrated in pole	-	-	Intercom (SHPOIC2-GH)

BASIC

CORE

ACTIVE

SHUFFLE MOBILITY

MOVING TOWARDS NET ZERO

SHUFFLE Mobility is designed to charge electric vehicles and protect them from vandals. It can be installed in streets where it is difficult to establish infrastructure for electric vehicle charging.

SHUFFLE Mobility not only provides a charging solution for electric vehicles, it ensures **an outstanding experience for EV drivers** by helping them to find vacant chargers, by ensuring a high level of security for them and their car and by offering the best lighting solution at night.

Click for more information

	SHUFFLE MOBILITY BASIC	SHUFFLE MOBILITY CORE	SHUFFLE MOBILITY ACTIVE
Pole height	4370mm | 14.34'	4370mm | 14.34'	4370mm | 14.34'
Control node	No	Yes	Yes
Module (top)	Blue/green light ring (SHLR2-BL/GR)	360° Lighting (SH36L2)	360° Lighting (SH36L2)
Module 2	-	Green/blue light ring (SHLR2-GR/FK)	Green/blue light ring (SHLR2-GR/FK)
Module 3	-	-	180° Lighting Spot (SH18L)
Module 4	-	-	Camera without extra PC protector (SH18C2-JH)
Integrated in pole	EV charger 11kW (SHPOEV)	EV charger 11kW (SHPOEV)	EV charger 11kW (SHPOEV)

BASIC

CORE

**ACTIVE**

SHUFFLE **LIGHT**
FOR ENDLESS CHALLENGES

SHUFFLE Light is designed to meet the various lighting needs of an area with elegance and high energy efficiency. Its aesthetic design integrates various lighting modules (360°, spot and light ring) with smart control features for dimming and light-on-demand scenarios.

The SHUFFLE Light smart column can be installed in any location where its versatility, connectivity and simplicity create additional value beyond basic lighting.
Designed to light roads, streets, squares and other places where creating a pleasant atmosphere is a key element, SHUFFLE Light benefits from **a wide range of photometries** and provides aesthetic consistency for various urban environments. It offers the perfect tool for placemaking as it frees up space that can then be used to enhance the urban experience and promote people's health, happiness and well-being.

SHUFFLE LIGHT

Click for more information

	SHUFFLE LIGHT BASIC	SHUFFLE LIGHT CORE	SHUFFLE LIGHT ACTIVE
Pole height	4370mm | 14.34'	4370mm | 14.34'	4370mm | 14.34'
Control node	Yes	Yes	Yes
Module (top)	360° Lighting (SH36L2)	360° Lighting (SH36L2)	360° Lighting (SH36L2)
Module 2	-	180° Lighting Spot (SH18L)	Blue light ring (SHLR2-BL)
Module 3	-	-	180° Lighting Spot (SH18L)
Integrated in pole	-	-	PIR sensor (C0)

BASIC

CORE

ACTIVE
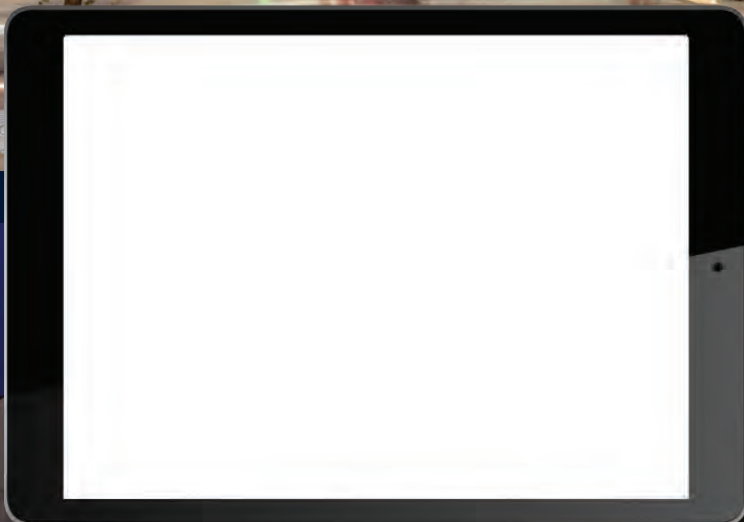
WLAN 📶

	WLAN (SH18W2-CS)	WLAN (SH36LW2-CS/ SH36LW2-CX)	WLAN (SH36LW2-JT)	WLAN (SH36LW2-FO/ SH36LW2-FV)
WiFi coverage	★ ☆ ☆	★ ☆ ☆	★ ★ ☆	★ ★ ★
WiFi throughput	★ ☆ ☆	★ ☆ ☆	★ ★ ☆	★ ★ ★
Ethernet throughput	★ ☆ ☆	★ ☆ ☆	★ ★ ★	★ ★ ★
Mesh	No	No	Yes	Yes
Powered by PoE	No	No	Yes	Yes
Client capacity	NA	NA	250 per AP	512 per AP
Maximum transmission power	20dBm	20dBm	20dBm	26dBm
Wi-Fi 6	No	No	No	Yes
Management platform	No	No	Yes	Yes

Professional and secure wireless network

- Available in a 360° lighting module or in a dedicated module
- Multiple concurrent users per access point
- Stable connections at higher data rates
- Divisible bandwidth: e.g. to assign a dedicated part to city operators and a restricted bandwidth for the general public
- Unmatched scalability, cloud or locally managed

4G/5G 📶

Providing 4G/5G capacity and coverage

- High-speed mobile connection
- Blends into the urban environment
- Easy site acquisition for mobile operators
- Range of up to 100m
- Upgradable antenna can be added later, when additional capacity is needed
- The operator installs and owns the telecom equipment
- Easy access for maintenance
- Waterproof IP material
- Upgradable base module can be equipped for 5G networks

4G/5G antenna (SH18A-GD)

Side cabinet (SHSC-HA)
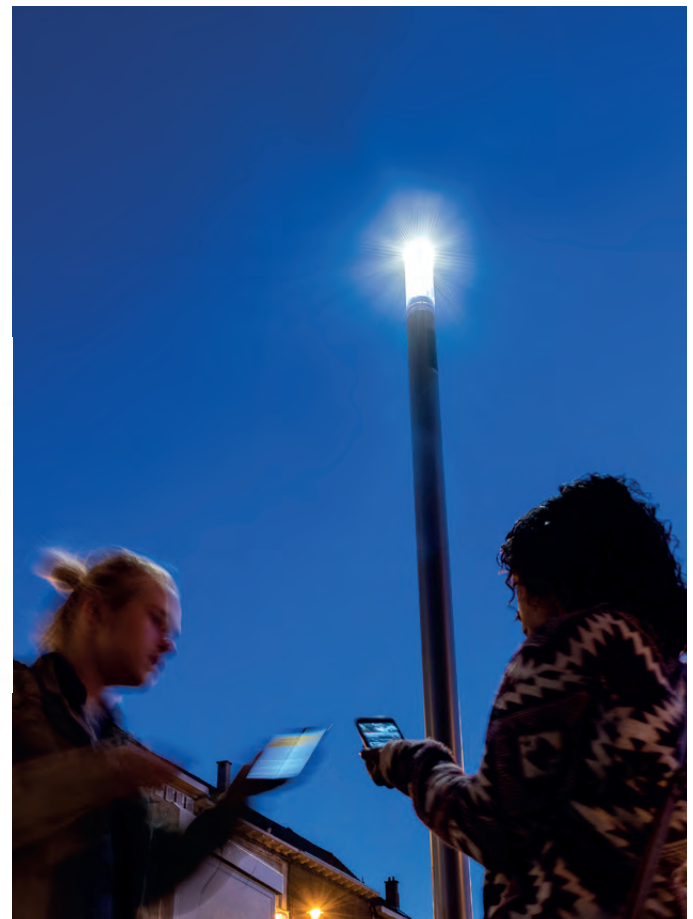
# WIRELESS BACKHAUL 📶

Base Unit
(SH18WB2-JN)

Terminal Unit
(SH18WB2-JM)

Wireless fibre communication network for smart city applications

- Wireless extended fibre connections to and from a pole
- The speed of fibre (up to 2.3Gbps), the flexibility of wireless
- Easy street level deployment
- Reliable, virtually interference-free operation
- Connect up to 8 SHUFFLEs from one Base Unit
- 400m auto-aligned range
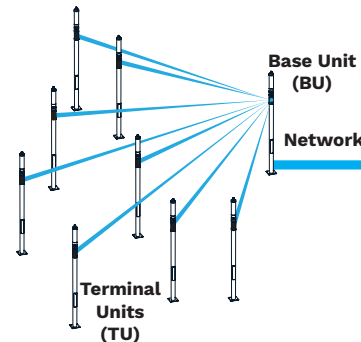- AES encryption
- Integrated managed PoE switch
- Operates in 60GHz V band

1 Building to SHUFFLE (star mode)

Base Unit
(BU)

Network
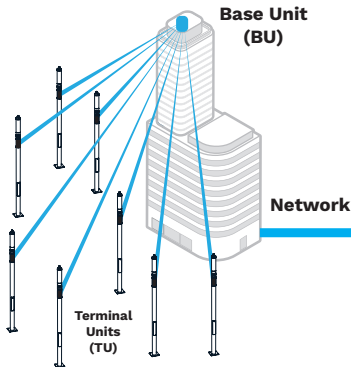
Terminal
Units
(TU)

The Base Unit is mounted outdoors, on the side of a building or on a rooftop. It connects to 8 SHUFFLEs (Terminal Units) installed within a range of 400 metres max.

2 SHUFFLE to SHUFFLEs (star mode)

Base Unit
(BU)

Network

Terminal
Units
(TU)

The Base Unit is integrated into a SHUFFLE. This connects to 8 SHUFFLEs (Terminal Units) installed within a range of 400 metres max.

3 Building to SHUFFLE (linear mode)

Base Unit
(BU)

Network

Base & Terminal Units (BU+TU)
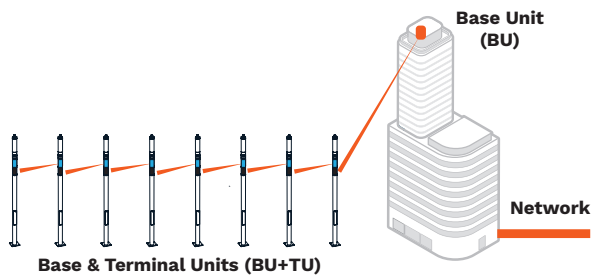
The Base Unit is mounted outdoors, on the side of a building or on a rooftop. It connects to one SHUFFLE (Base and Terminal Units) that itself connects to another SHUFFLE having the same hardware (BU+TU) and so on, in a daisy chain layout. The spacing between two SHUFFLEs can be up to 400 metres (max).

4 SHUFFLE to SHUFFLEs (linear mode)

Base Unit
(BU)

Network

Base & Terminal Units (BU+TU)
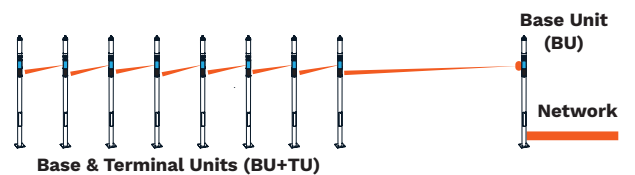
The Base Unit is integrated into a SHUFFLE. It connects to one SHUFFLE (Base and Terminal Units) that itself connects to another SHUFFLE having the same hardware (BU+TU) and so on, in a daisy chain layout. The spacing between two SHUFFLEs can be up to 400 metres (max).

SPEAKER 🔊

Professional sound system for public service announcements, warnings and music

- Frequency range: 90 - 19,000Hz
- Full range speaker with dual cone
- Perfect sound - up to 25W power output
- Weatherproof / adapted to indoor and outdoor applications
- Digitally connected network speaker

	Analogue speaker (SH18S2-CP)	Digital speaker (SH18S2-S8)
Frequency range	100 - 18000Hz	90 – 19000 Hz
Sound pressure level (1W/1m)	89dB	90dB
Max. power rating	20W	25W
Ethernet connection	No	Yes
Internal amplifier	No	Yes

POWER SUPPLY 🔌

Auxiliary power source

- Secured access with locked door (T25 screws at the top of pole, key at the bottom)
- Integrated fuse
- Integrated cable retainer
- Passage to the outside for cables

	Power sockets (SHPOLE2-G8)	Event lighting socket (SHPOLE2-FU)
Location	At the bottom of the pole	At the top of the pole
Number of sockets	2	1
Type	Schuko Type F 16A 230V	Schuko Type F 16A 230V
Purpose	Power sockets for any need	Power socket for decorative lighting
Max. power	3500W	1200W

EV CHARGING 🚗

EV charger (SHPOEV2)

Professional charging station

- AC charging 11kW
- European socket (type 2)
- Safety locking during charging
- Access unit (for cabinet mounting)

LIGHTING

360° LensoFlex®2/ LensoFlex®4 (SH36L2)

Street lighting / Ambiance lighting /Pedestrian crossing lighting

- Lumen package range: from 1,500 to 8,100lm
- Back light control (optional)
- Warm or neutral white LEDs
- Optional internal diffuser or external diffuse protector for enhanced visual comfort

180° Spot (SH18L)

Up/down (on-site adjustment): architectural lighting

- Lumen package range: from 1,300 to 2,400lm
- On-site inclination angle settings: -10/+40°
- Warm or neutral white LEDs

180° LensoFlex®2 (SH18L)

Street lighting

- Lumen package range: from 2,200 to 5,500lm
- Back-light control (optional)
- Warm or neutral white LEDs

180° reflector (SH18L)

Down: Street lighting / Ambiance lighting / Area lighting
Up: Architectural lighting

- Lumen package range: from 2,300 to 6,000lm
- Neutral or warm white LEDs

Light ring (SHLR2)

Signage / beautification (identity) / creation of ambiance

- Static red, blue, green, warm or neutral white variants
- 1 or 2 alternating static colours
- RGB for colour changing effects

Luminaire bracket (SHLB)

Street lighting / Pedestrian crossing lighting

- For luminaire with mounting for Ø60mm/2.3''
- Inclination angle: +5°

With PIANO Midi

With FLEXIA FG Midi

With YMERA

With CITEA NG Mini

CCTV - 180° 👁

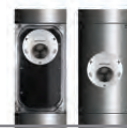## For professional camera networks

- Resolution: full HD (1920 x 1080)
- Image optimisation (back-light, contrasts, night vision, high luminosity)
- Privacy layers
- ONVIF communication standard
- Event triggering: motion detection, video analytics, tampering, etc.
- Digital zoom
- Data optimisation: selected and/or delayed transmission, on-site recording (SD memory slot)
- Compatible with video management systems

	Camera with or without extra PC protector (SH18C2-HK)	Camera with or without extra PC protector (SH18C2-GC)	Camera with or without extra PC protector (SH18C2-JH)
Smart features	No	Yes	Yes
Security features	★ ☆ ☆	★ ★ ☆	★ ★ ★
Angular field of view	Horizontal: 108° Vertical: 60°	Horizontal: 110° Vertical: 62°	Horizontal: 108° Vertical: 59.3°
IR	15m	No	30m
Power consumption	3W	6.4W	7.5W

CCTV - 360° 👁

Integrated 360-degree video CCTV solution

QuadView (SHCQV)

- Offers a 360° field of view
- Contains 4 separate sensors with wide 113° horizontal field of view per sensor
- Vertical angle of view: 62°
- Streams videos from four sensor units simultaneously
- Supports 1920x1200/1080 (1080p) resolution with up to 50/60fps (50/60Hz)
- Supports Wide Dynamic Range (WDR) – Forensic Capture
- Ideal for very bright and/or dark areas
- Support for Zipstream technology lowers bandwidth and storage use
- Withstands dust, rain, snow, vibrations, shocks and impacts
- IP connectivity through standard Ethernet ports
- Power over Ethernet or 8–28V DC
- Features two SD card slots for optional local storage

Integrated hanging bracket for PTZ cameras

Universal camera bracket (SHCBR)

- Compatible with most PTZ cameras on the market
- Excellent stability for minimal camera movement
- Concealed cable management

INTERCOM SOS

One-touch system to contact operators and/or to trigger panic response scenarios

- Vandal-resistant SIP and IP intercom
- Optional HD video at up to 30FPS (1440x1080px) and H.264 for integration with most video solutions
- Crystal clear audio
- Active background noise cancellation
- Automatic volume adjustment
- Stainless steel front plate with one button
- Can interact with SHUFFLE Strobe, light ring, horn and cameras

	Intercom (SHPOIC2-GH)	Intercom with camera (SHPOIC2-GI)
Internal speaker amplifier	10W class D	10W class D
Microphone	Digital MEMS, omnidirectional	Digital MEMS, omnidirectional
Power supply	PoE or external power supply	PoE or external power supply
Camera	-	Fixed lens, 1440x1080 pixels
Power consumption	Idle 1.8W Max 12W	Idle 3.5W Max 12W

STROBE SOS

360° Lighting with strobe
(SH36L2-HL/SH36L2-HM)

Vital visual aid for emergencies

- Lumen package range: from 1,500 to 8,100lm
- Flashing blue strobe light
- Can be triggered remotely or locally via the intercom button
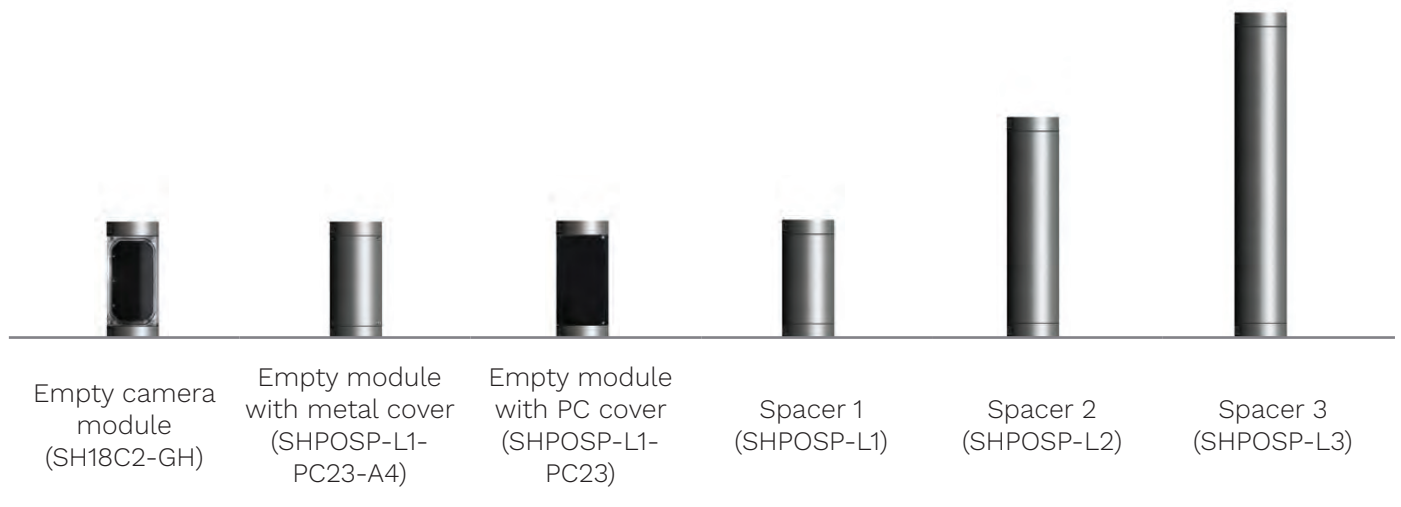
HORN 🔊

Horn (SH18S2-HN/SH18S2-HO)

**Warning or alarm with a powerful electronic tone**

- Warning or alert to the nearby population
- Supports voice-over IP
- Multi-tone up to 105dB
- Can be triggered remotely
- Can be integrated into a global warning system
- Can be linked to SHUFFLE Intercom

SMART & CONNECTED

SPACER

| Empty camera module (SH18C2-GH) | Empty module with metal cover (SHPOSP-L1-PC23-A4) | Empty module with PC cover (SHPOSP-L1-PC23) | Spacer 1 (SHPOSP-L1) | Spacer 2 (SHPOSP-L2) | Spacer 3 (SHPOSP-L3) |

DIMENSIONS

	360° module	180° module	QuadView module	Light ring	Luminaire bracket (Ø60mm)	Camera bracket
A	194mm | 7.6"	194mm | 7.6"	194mm | 7.6"	194mm | 7.6"	194mm | 7.6"	194mm | 7.6"
B	815mm | 32"	403mm | 15.9"	593mm | 23.4"	215mm | 8.5"	215mm | 8.5"	215mm | 8.5"
C	-	-	-	-	109mm | 4.3"	490mm | 19.3"
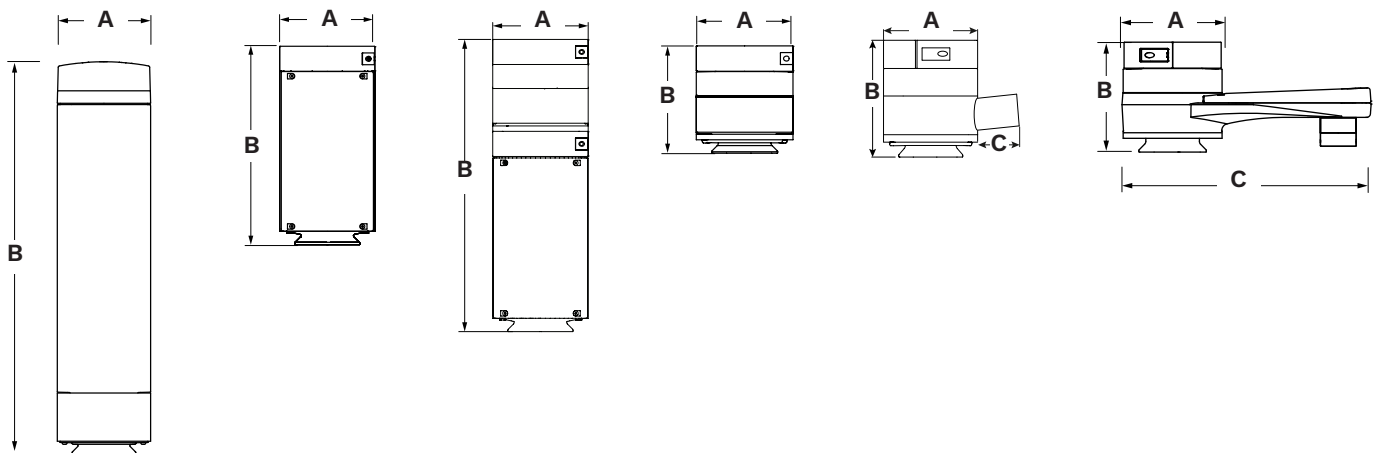
6.84M / 22.5'
Max. 5 modules

4M / 13'

2.28M / 6.5'
Min.
pole
height

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