

TWIXX



Elegant and timeless design for your urban lighting

With its versatile round design, TWIXX provides an elegant solution for lighting various environments in towns and cities such as urban and residential streets, squares and parks, pedestrian areas and car parks.

Available for post-stop and side-entry mounting, this modern, cost-effective LED luminaire is an efficient alternative to fixtures equipped with conventional light sources. TWIXX is a strategic asset for cities, municipalities and owners of outdoor areas looking for a lighting platform that generates high energy savings with a fast return on investment.

IP 66	IK 08	
	CE	



Concept

The TWIXX decorative luminaire is composed of a high-pressure, die-cast aluminium body and a flat glass protector. Its versatile design means that the luminaire is available with two different aesthetic versions: post-top with two arms and side-entry.

Equipped with 16 to 36 LEDs, TWIXX offers a beneficial solution for low-height installations in urban and suburban environments. Available with symmetrical and asymmetrical light distributions and four typical lumen packages, TWIXX provides a highly efficient yet affordable outdoor lighting solution for cities and private companies looking for energy and maintenance savings. This efficiency lowers the payback time and contributes to the responsible use of natural resources.

TWIXX is designed for post-top or side-entry (with a two-arm bracket or with a knuckle fixation) mounting on a Ø60mm spigot.



TWIXX is available with a double-arm for parks, squares and residential streets.



The luminaire is fixed on Ø60mm spigots for both post-top and side-entry mounting.

TYPES OF APPLICATION

- URBAN & RESIDENTIAL STREETS
- BIKE & PEDESTRIAN PATHS
- RAILWAY STATIONS & METROS
- CAR PARKS
- SQUARES & PEDESTRIAN AREAS

KEY ADVANTAGES

- Cost-effective and efficient lighting solution for a fast return on investment
- Elegant and comfortable solution for creating ambiance
- Post-top or side-entry mounting
- Symmetrical or asymmetrical light distributions
- No light pollution (ULOR 0 %)



The knuckle fixation, suitable for post-top or side-entry, includes a wide tilting range (180°) to adapt the inclination angle to any configuration.



TWIXX offers an elegant ensemble when associated with the Korda bracket.

Schröder EXEDRA is the most advanced lighting management system on the market for controlling, monitoring and analysing streetlights in a user-friendly way.



Standardisation for interoperable ecosystems

Schröder plays a key role in driving standardisation with alliances and partners such as uCIFI, TALQ or Zhaga. 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. Schröder EXEDRA also relies on Microsoft™ Azure for cloud services, provided with the highest levels of trust, transparency, standards conformance and regulatory compliance.

Breaking the silos

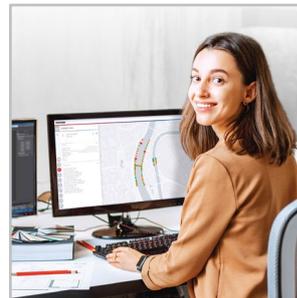
With EXEDRA, Schröder has taken a technology-agnostic approach: we rely on open standards and protocols to design an architecture able to interact seamlessly with third-party software and hardware solutions. Schröder EXEDRA is designed to unlock complete interoperability, as it offers the ability to:

- control devices (luminaires) from other brands
- manage controllers and to integrate sensors from other brands
- connect with third-party devices and platforms

A plug-and-play solution

As a gateway-less system using the cellular network, an intelligent automated commissioning process recognises, verifies and retrieves luminaire data into the user interface. The self-healing mesh between luminaire controllers enables real-time adaptive lighting to be configured directly via the user interface. OWLET IV luminaire controllers, optimised for Schröder EXEDRA, operate Schröder's luminaires and luminaires from third parties. They use both cellular and mesh radio networks, optimising geographical coverage and redundancy for continuous operation.

Tailored experience



Schröder EXEDRA includes all 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. It is fully configurable and includes tools for user management and multi-tenant policy that enables contractors, utilities or big cities to segregate projects.

A powerful tool for efficiency, rationalisation and decision making

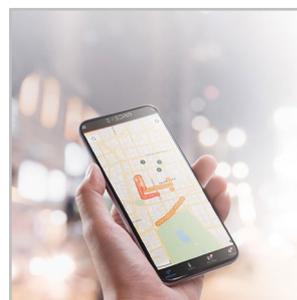
Data is gold. Schröder EXEDRA brings it with all the clarity managers need to drive decisions. The platform collects massive amounts of data from end devices and, aggregates, analyses and intuitively displays them to help end-users take the right actions.

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. The whole platform is ISO 27001 certified. It demonstrates that Schröder EXEDRA meets the requirements for establishing, implementing, maintaining and continually improving security management.

Mobile App: any time, any place, connect to your street lighting

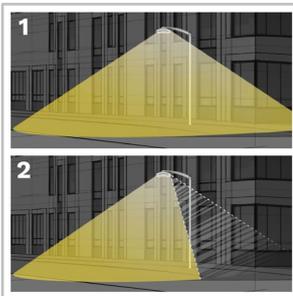


The Schröder EXEDRA mobile application offers the essential functionalities of the desktop platform, to accompany all types of operator on site in their daily effort to maximise the potential of connected lighting. It enables real-time control and settings, and contributes to effective maintenance.

With the PureNight concept, Schröder offers the ultimate solution for restoring the night sky without switching off cities, while maintaining safety and well-being for people and preserving wildlife. The PureNight concept guarantees that your Schröder lighting solution satisfies environmental laws and requirements. Well-designed LED lighting has the potential to improve the environment in all respects.



Direct the light only where it is wanted and needed



Schröder is renowned for its expertise in photometry. Our optics direct light only where it is wanted and needed. However, light trespass behind the luminaire might be a key concern when it comes to protecting a sensitive wildlife habitat or avoiding intrusive lighting towards buildings. Our fully integrated backlight solutions easily address this potential risk.

1. Without backlight
2. With backlight

Offer maximum visual comfort to people



Because of the lower installation height compared to road lighting, visual comfort is an essential aspect of urban lighting. Schröder designs lenses and accessories to minimise any type of glare (distracting, discomforting, disabling glare and blinding glare). Our design offices harness a range of possibilities to find the best solutions for each project and ensure that we provide a gentle light that delivers the best night-time experience.

Protect wildlife



If not well designed, artificial lighting can badly affect wildlife. Blue light and excessive intensity can have a damaging effect on all types of life. Blue light radiation has the ability to suppress the production of melatonin, the hormone that contributes to the regulation of the circadian rhythm. It can also alter the behavioural patterns of animals including bats and moths, as it can change their movements towards or away from light sources. Schröder favours warm white LEDs with minimal blue light, combined with advanced control systems including sensors. This enables permanent adaptation of the lighting to the real needs of the moment, minimising disturbance to the fauna and flora.

Choose a Dark Sky certified luminaire



The International Dark-Sky Association (IDA) is the recognised authority on light pollution. It provides leadership, tools and resources to industries and companies willing to reduce light pollution. The IDA's Fixture Seal of Approval programme certifies outdoor lighting fixtures as being Dark Sky Friendly. All products approved by this programme must comply with the following criteria:

- The light sources shall have a maximum correlated colour temperature of 3000K;
- Uplight allowance limited to 0.5% of total output, or 50 lumens, with no more than
 - 10 lumens in the 90-100 degree UL zone;
- The luminaires must have a dimming capability to 10% of full rating;
- The luminaires must be equipped with a fixed mounting option;
- The luminaires must have Safety Certification by an independent laboratory."

This approved Schröder range of luminaires complies with these requirements.

GENERAL INFORMATION

Recommended installation height	3m to 8m 10' to 26'
Driver included	Yes
CE mark	Yes
ENEC certified	Yes
ROHS compliant	Yes
Dark Sky friendly lighting (IDA certification)	Yes

· Meets IDA Dark Sky requirements when equipped with a fixed mounting option.

HOUSING AND FINISH

Housing	Aluminium
Optic	Polycarbonate
Protector	Tempered glass
Housing finish	Polyester powder coating
Standard colour(s)	RAL 7016 anthracite grey
Tightness level	IP 66
Impact resistance	IK 08

OPERATING CONDITIONS

Operating temperature range (Ta)	-30°C up to +55°C / -22° F up to 131°F
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· Depending on the luminaire configuration. For more details, please contact us.

ELECTRICAL INFORMATION

Electrical class	Class I EU, Class II EU
Nominal voltage	220-240V – 50-60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	20
Control protocol(s)	DALI
Socket	NEMA 7-pin (optional)
Associated control system(s)	Schröder EXEDRA

OPTICAL INFORMATION

LED colour temperature	3000K (WW 730) 4000K (NW 740)
Colour rendering index (CRI)	>70 (WW 730) >70 (NW 740)
ULOR	0%

· Meets IDA Dark Sky requirements when fitted with LEDs of 3000K or less.

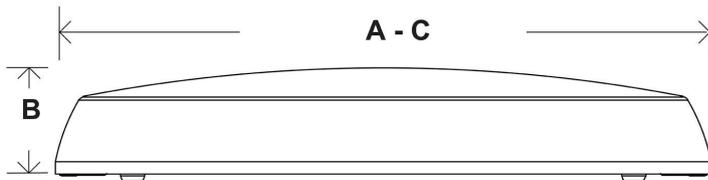
· ULOR may be different according to the configuration. Please consult us.

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L76
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DIMENSIONS AND MOUNTING

AxBxC (mm inch)	TWIXX 1 : 490x84x490 19.3x3.3x19.3 TWIXX 2 : 490x84x490 19.3x3.3x19.3 TWIXX 3 : 490x84x490 19.3x3.3x19.3 TWIXX 4 : 490x84x490 19.3x3.3x19.3
Weight (kg lbs)	TWIXX 1 : 7.9 17.4 TWIXX 2 : 7.9 17.4 TWIXX 3 : 7.9 17.4 TWIXX 4 : 7.9 17.4
Aerodynamic resistance (CxS)	TWIXX 1 : 0.23 TWIXX 2 : 0.23 TWIXX 3 : 0.23 TWIXX 4 : 0.23
Mounting possibilities	Side-entry slip-over – Ø60mm Post-top slip-over – Ø60mm





	Luminaire output flux (lm)				Power consumption (W)		Luminaire efficacy (lm/W)
	Warm White 730		Neutral White 740		Min	Max	
Number of LEDs	Min	Max	Min	Max	Min	Max	Up to
16	4200	4400	4300	4400	30	30	150

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



	Luminaire output flux (lm)				Power consumption (W)		Luminaire efficacy (lm/W)
	Warm White 730		Neutral White 740		Min	Max	
Number of LEDs	Min	Max	Min	Max	Min	Max	Up to
24	5800	5900	5900	6000	40	40	152

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$



	Luminaire output flux (lm)				Power consumption (W)		Luminaire efficacy (lm/W)
	Warm White 730		Neutral White 740		Min	Max	
Number of LEDs	Min	Max	Min	Max	Min	Max	Up to
24	8200	8400	8400	8600	60	60	144

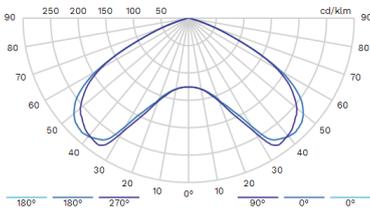
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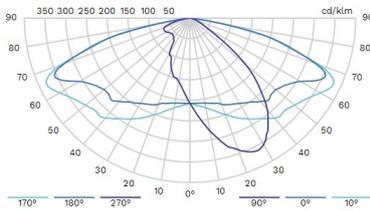
Number of LEDs	Luminaire output flux (lm)				Power consumption (W)		Luminaire efficacy (lm/W)
	Warm White 730		Neutral White 740		Min	Max	
	Min	Max	Min	Max			Up to
36	10600	11100	10800	11300	80	80	142

Tolerance on LED flux is ± 7% and on total luminaire power ± 5 %

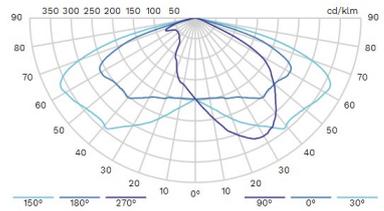
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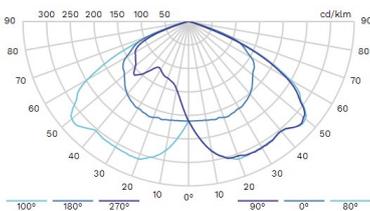
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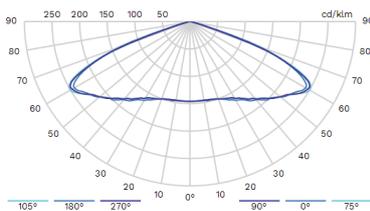
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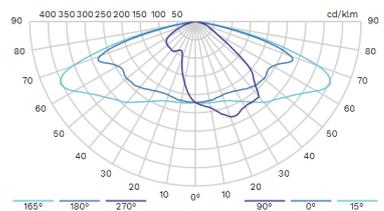
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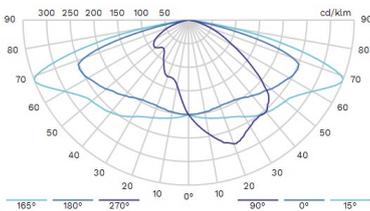
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