

ALBANY GEN2



Connected street lantern with timeless design

Preserving the distinctive design and the philosophy of the renowned ALBANY luminaires, ALBANY GEN2 opens up the range to new technological possibilities for your urban lighting.

This second generation benefits from the latest innovations in lighting technology to offer a high-performance, versatile, connected-ready urban lighting solution.

With its design derived from Victorian lanterns, ALBANY GEN2 helps you to either add character or simply preserve the cultural heritage of your urban spaces, while creating comfortable, safe lighting for your citizens.

Discover the many possibilities of the ALBANY GEN2 luminaires and create welcoming spaces full of charm and history.



Concept

The ALBANY GEN2 upper and a lower body is made of high-pressure die-casted aluminium. It can be supplied with a flat glass or deep UV-resistant polycarbonate protector. To prevent direct glare in a low-height installation, an internal PMMA diffusor can be combined with the deep protector, or diffuse glass for the flat glass version. The flat glass version offers a ULOR of 0% and is compatible with preservation of the night sky.

With its recyclable materials, high mechanical performance, smart readiness and energy adaptation options, this urban luminaire fully meets the requirements of a circular economy for optimum resource management.

Equipped with the latest LensoFlex® photometric engines, ALBANY GEN2 provides powerful lighting with numerous colour temperatures and light distributions to fit any type of urban lighting project and requirement.

To suit multiple technical requirements, ALBANY GEN2 is available with various mounting options. It can be installed using a suspended mounting: ¾" male, 1" or 1¼" gas male, 1" female on male, all secured with a counter nut.

For post-top mounting, a new Lyre bracket made of high-pressure die-casted aluminium is also available to keep the renowned signature of the ALBANY luminaires. Whether it is suspended or post-top mounted, ALBANY GEN2 is available with a flat glass or deep protector. As an option, access to the gear compartment is tool-less.

Despite its vintage design, ALBANY GEN2 is a connected-ready urban lighting solution. It is optionally available with a NEMA or a Zhaga socket, opening up possibilities for easy integration with various connected lighting systems. The addition of a PIR motion sensor offers the opportunity for a more responsible use of energy resources by adjusting the lighting to the precise needs of the moment.



The perfect blend of historic heritage and advanced lighting technologies.



More than an aesthetic lighting solution, ALBANY GEN2 is a connected-ready luminaire allowing compatibility with various connected lighting systems.

TYPES OF APPLICATION

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

KEY ADVANTAGES

- A classic shape with the advantages of LED technology
- Proven LensoFlex®4 photometrical engines
- Low energy consumption
- Numerous light distributions
- Quality recyclable materials
- Connected-ready
- Post-top or suspended mounting
- Zhaga-D4i certified



Benefiting from the latest LensoFlex® photometric engines, ALBANY GEN2 offers a high-performance luminaire with low energy consumption.



ALBANY GEN2 is available with various mounting options to fit any kind of space.

ALBANY GEN2 | Suspended with flat glass



ALBANY GEN2 | Suspended with a deep polycarbonate protector



ALBANY GEN2 | Post-top with flat glass (on Lyre bracket)



ALBANY GEN2 | Post-top with deep polycarbonate protector (on Lyre bracket)



ALBANY GEN2 | With internal diffuser

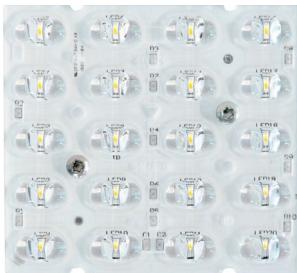




LensoFlex®4

LensoFlex®4 maximises the heritage of the LensoFlex® concept with a very compact yet powerful photometric engine based upon the addition principle of photometric distribution. The number of LEDs in combination with the driving current determines the intensity level of the light distribution. With optimised light distributions and very high efficiency, this fourth generation enables the products to be downsized to meet application requirements with an optimised solution in terms of investment.

LensoFlex®4 optics can feature backlight control to prevent intrusive lighting, or a glare limiter for high visual comfort.

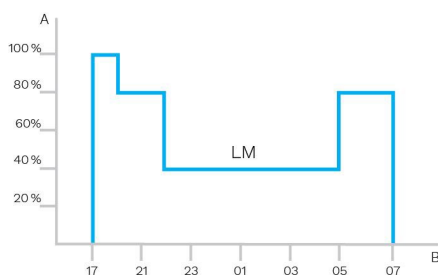




Custom dimming profile

Intelligent luminaire drivers can be programmed with complex dimming profiles. Up to five combinations of time intervals and light levels are possible. This feature does not require any extra wiring.

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.

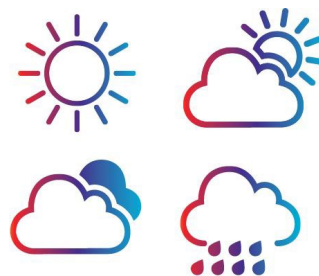


A. Dimming level | B. Time



Daylight sensor / photocell

Photocell or daylight sensors switch the luminaire on as soon as natural light falls to a certain level. It can be programmed to switch on during a storm, on a cloudy day (in critical areas) or only at nightfall so as to provide safety and comfort in public spaces.



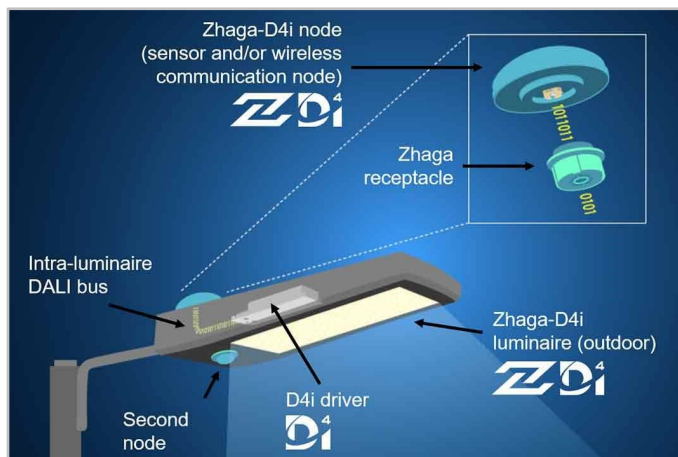
PIR sensor: motion detection

In places with little nocturnal activity, lighting can be dimmed to a minimum most of the time. By using passive infrared (PIR) sensors, the level of light can be raised as soon as a pedestrian or a slow vehicle is detected in the area.

Each luminaire level can be configured individually with several parameters such as minimum and maximum light output, delay period and ON/OFF duration time. PIR sensors can be used in an autonomous or interoperable network.



The Zhaga consortium joined forces with the DiiA and produced a single Zhaga-D4i certification that combines the Zhaga Book 18 version 2 outdoor connectivity specifications with the DiiA's D4i specifications for intra-luminaire DALI.



Standardisation for interoperable ecosystems



As a founding member of the Zhaga consortium, Schröder has participated in the creation of, and therefore supports, the Zhaga-D4i certification program and the initiative of this group to standardise an interoperable ecosystem. The D4i specifications take the best of the standard DALI2 protocol and adapt it to an intra-luminaire environment but it has certain limitations. Only luminaire mounted control devices can be combined with a Zhaga-D4i luminaire.

According to the specification, control devices are limited respectively to 2W and 1W average power consumption.

Certification program

The Zhaga-D4i certification 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.

Cost-effective solution

A Zhaga-D4i certified luminaire includes drivers offering features that had previously been in the control node, like energy metering, which has in turn simplified the control device therefore reducing the price of the control system.

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

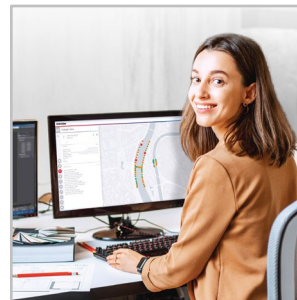
With EXEDRA, Schröder has taken a technology-agnostic approach: we rely on open standards and protocols to design an architecture able to interact seamlessly with third-party software and hardware solutions. Schröder EXEDRA is designed to unlock complete interoperability, as it offers the ability to:

- 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

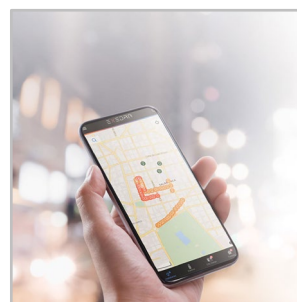
Data is gold. Schröder EXEDRA brings it with all the clarity managers need to drive decisions. The platform collects massive amounts of data from end devices and, aggregates, analyses and intuitively displays them to help end-users take the right actions.

Protected on every side



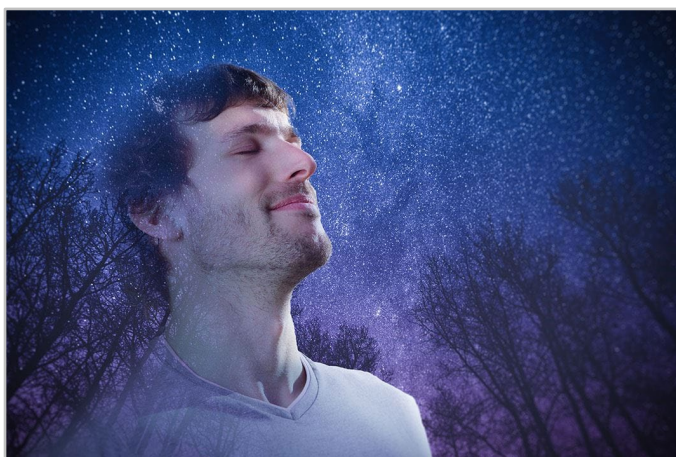
Schröder EXEDRA provides state-of-the-art data security with encryption, hashing, tokenisation, and key management practices that protect data across the whole system and its associated services. The whole platform is ISO 27001 certified. It demonstrates that Schröder EXEDRA meets the requirements for establishing, implementing, maintaining and continually improving security management.

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

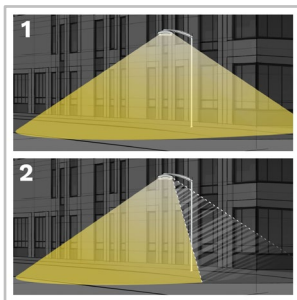


The Schröder EXEDRA mobile application offers the essential functionalities of the desktop platform, to accompany all types of operator on site in their daily effort to maximise the potential of connected lighting. It enables real-time control and settings, and contributes to effective maintenance.

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



1. Without backlight
2. With backlight

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.

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.

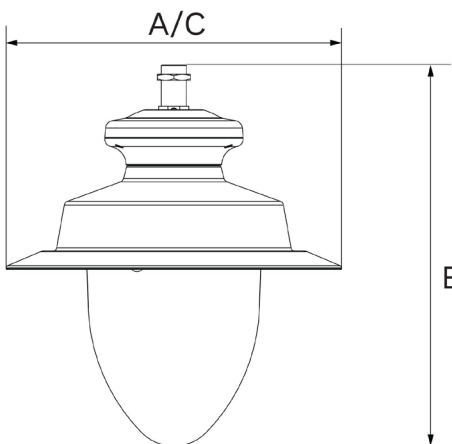
This approved Schröder range of luminaires complies with these requirements.

GENERAL INFORMATION		ELECTRICAL INFORMATION	
Recommended installation height	4m to 10m 13' to 33'	Electrical class	Class I EU, Class II EU
Circle Light label	Score ≥90 - The product fully meets circular economy requirements	Nominal voltage	220-240V – 50-60Hz
Driver included	Yes	Surge protection options (kV)	10
CE mark	Yes	Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / EN 61000-3-3 / EN 61547
ENEC certified	Yes	Control protocol(s)	1-10V, DALI
ENEC+ certified	Yes	Control options	AmpDim, Bi-power, Custom dimming profile, Photocell, Remote management
ROHS compliant	Yes	Socket	Zhaga (optional) NEMA 7-pin (optional)
Dark Sky friendly lighting (IDA certification)	Yes	Associated control system(s)	Schröder EXEDRA
Zhaga-D4i certified	Yes	Sensor	PIR (optional)
UKCA marking	Yes		
Testing standard	EN 60598-1 EN 60598-2-1 EN 62262 IEC 62717 (LLM ENEC +) IEC 62722-2-1 IEC 62493 IEC 62471	OPTICAL INFORMATION	
HOUSING AND FINISH		LED colour temperature	2200K (WW 722) 2700K (WW 727) 3000K (WW 730) 3000K (WW 830) 4000K (NW 740)
Housing	Aluminium	Colour rendering index (CRI)	>70 (WW 722) >70 (WW 727) >70 (WW 730) >80 (WW 830) >70 (NW 740)
Optic	PMMA	ULOR	0%
Protector	Tempered glass Polycarbonate	ULR	0%
Housing finish	Polyester powder coating	· ULOR 0%: only for flat glass version. · ULOR may be different according to the configuration. Please consult us. · ULR may be different according to the configuration. Please consult us. · Meets IDA Dark Sky requirements when fitted with LEDs of 3000K or less.	
Standard colour(s)	AKZO grey 900 sanded	LIFETIME OF THE LEDS @ TQ 25°C	
Tightness level	IP 66	All configurations	100,000h - L95
Impact resistance	IK 10	· Lifetime may be different according to the size/configurations. Please consult us.	
Vibration test	Compliant with modified IEC 68-2-6 (0.5G) Compliant with modified IEC 68-2-6 (0.34G)	OPERATING CONDITIONS	
Access for maintenance	By loosening screws on the bottom cover Tool-less access to gear compartment (option)	Operating temperature range (Ta)	-30°C up to +40°C / -22°F up to 104°F with wind effect
· Depending on the luminaire configuration. For more details, please contact us.			

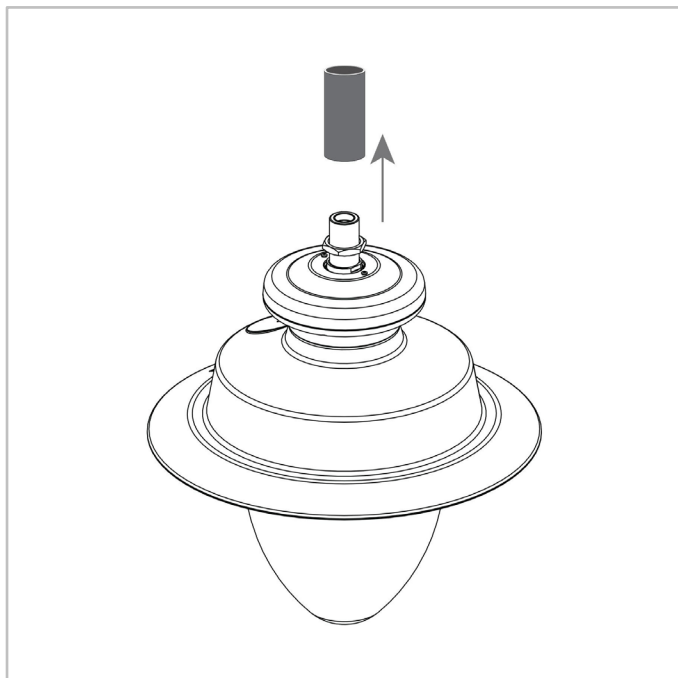
DIMENSIONS AND MOUNTING

AxBxC (mm inch)	555x629x555 21.9x24.8x21.9
Weight (kg lbs)	8.8-11.8 19.4-26.0
Aerodynamic resistance (CxS)	0.18
Mounting possibilities	Post-top slip-over – Ø60mm Suspended ¾" gas male Suspended 1" gas male Suspended 1" 1/4 gas male Suspended 1" gas female

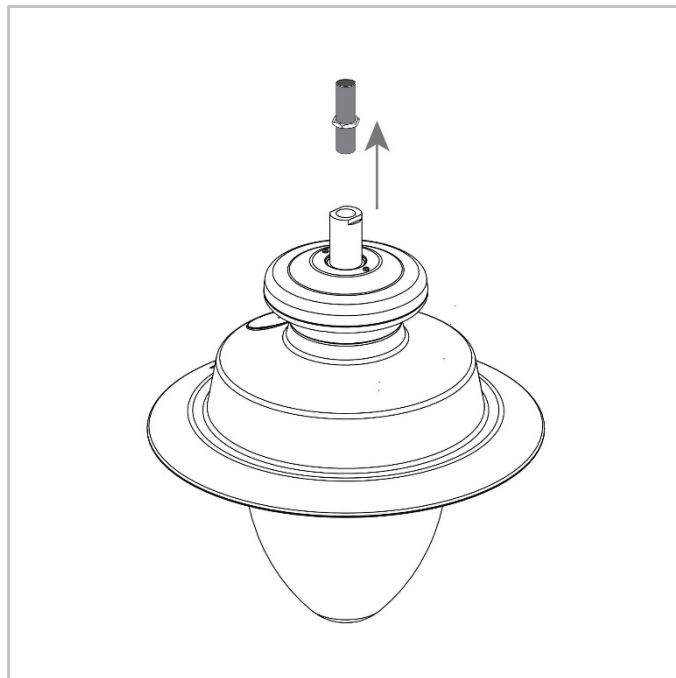
· Dimensions given for the suspended version with deep protector. For more information about other configurations, please consult us.



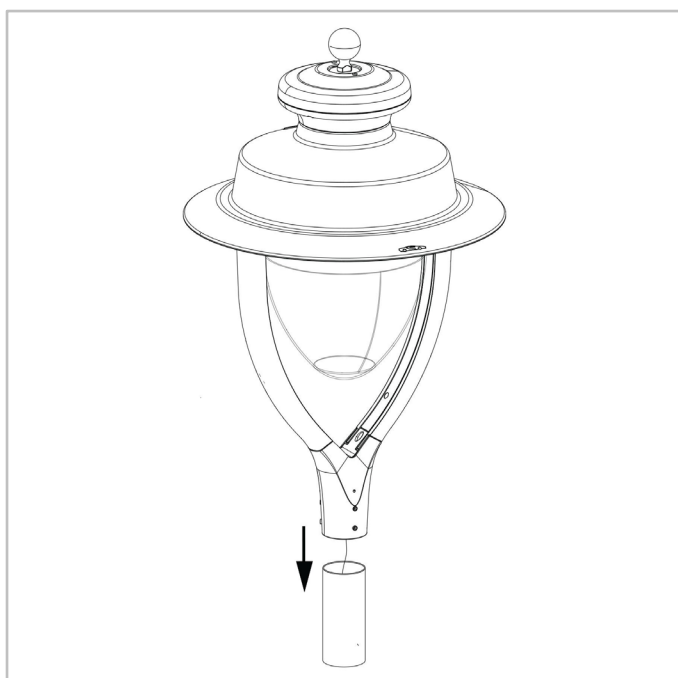
ALBANY GEN2 | Suspended male (1" gas, 1"-¼ gas and ¾" gas)



ALBANY GEN2 | Suspended female 1" gas



ALBANY GEN2 | Post-top Ø60mm with Lyre bracket





Luminaire output flux (lm)											Power consumption (W)		Luminaire efficacy (lm/W)
Warm White 722		Warm White 727		Warm White 730		Warm White 830		Neutral White 740					
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
10	600	2200	700	2500	800	2800	700	2500	900	3000	8	22	150
20	1300	5700	1500	6500	1700	7100	1500	6500	1800	7800	13	60	169
30	3300	8500	3800	9800	4200	10700	3800	9800	4600	11700	33	87	168
40	2700	11400	3100	13100	3400	14300	3100	13100	3700	15600	25	114	178

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

