Experts in lightability™

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.





































ALBANY GEN2 | SUMMARY

Schréder

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: 3/4" male, 1" or 11/4" 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.



- 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



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.



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



ALBANY GEN2 | Suspended with a deep polycarbonate protector



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



ALBANY GEN2 | With internal diffusor





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.

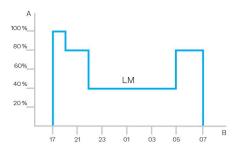




Custom dimming profile

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 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 parametres 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, Schréder 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

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.



Schréder 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

Schréder 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 Schréder EXEDRA system relies on shared and open technologies. Schréder 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, Schréder 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. Schréder 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 Schréder EXEDRA, operate Schréder'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



Schréder 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

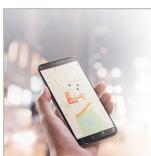
Data is gold. Schréder EXEDRA brings it with all the clarity managers need to drive decisions. The platform collects massive amounts of data from end devices and, aggregates, analyses and intuitively displays them to help endusers take the right actions.

Protected on every side



Schréder EXEDRA provides state-of-theart 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 Schréder EXEDRA meets the requirements for establishing, implementing, maintaining and continually improving security management.

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

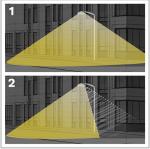


The Schréder EXEDRA mobile application offers the essential functionalities of the desktop platform, to accompany all types of operator on site in their daily effort to maximise the potential of connected lighting. It enables real-time control and settings, and contributes to effective maintenance.

With the PureNight concept, Schréder 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 Schréder 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



- Without backlight
 With backlight
- 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. Schréder 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.

Schréder is renowned for its expertise in

photometry. Our optics direct light only

luminaire might be a key concern when it comes to protecting a sensitive

where it is wanted and needed.

However, light trespass behind the

wildlife habitat or avoiding intrusive

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. Schréder

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 Schréder range of luminaires complies with these requirements.

ALBANY GEN2 | CHARACTERISTICS

Schréder

Recommended		ELECTRICAL INFORMA Electrical class	
installation height	4m to 10m 13' to 33'	Nominal voltage	220
Circle Light label	Score ≥90 - The product fully meets circular economy requirements	Surge protection	10
Driver included	Yes	options (kV)	
CE mark	Yes	 Electromagnetic compatibility (EMC) 	EN / EN
ENEC certified	Yes	Control protocol(s)	1-10
ENEC+ certified	Yes	Control options	Am
ROHS compliant	Yes	01	pro
Dark Sky friendly lighting (IDA certification)	Yes	Socket Associated control	Zha NEM Sch
Zhaga-D4i certified	Yes	system(s)	501
UKCA marking	Yes	Sensor	PIR
Testing standard	EN 60598-1 EN 60598-2-1	OPTICAL INFORMATIO	N
	EN 62262 IEC 62717 (LLM ENEC +) IEC 62722-2-1 IEC 62493 IEC 62471	LED colour temperature	220 270 300 300 400
HOUSING AND FINISH		Colour rendering index (CRI)	>70
Housing	Aluminium	_	>70 >80
Optic	PMMA		>70
Protector	Tempered glass Polycarbonate	ULOR	0%
Housing finish	Polyester powder coating	- ULR	0%
Standard colour(s)	AKZO grey 900 sanded	 ULOR 0%: only for flat ULOR may be different 	_
Tightness level	IP 66	· ULR may be different a · Meets IDA Dark Sky red	
Impact resistance	IK 08, IK 10	less.	jun en 1e
Vibration test	Compliant with modified IEC 68-2-6	LIFETIME OF THE LEDS	6 @ TO
	(0.5G) Compliant with modified IEC 68-2-6	All configurations	100,
	(0.34G)	· Lifetime may be differe consult us.	ent acco
Access for maintenance	By loosening screws on the bottom cover	concart do.	
	Tool-less access to gear compartment (option)		
OPERATING CONDITIO	NS	-	
Operating temperature range (Ta)	-30°C up to +40°C / -22°F up to 104°F with wind effect		

Electrical class	Class I EU, Class II EU						
Nominal voltage	220-240V - 50-60Hz						
Surge protection options (kV)	10						
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2 / EN 61000-3-3 / EN 61547						
Control protocol(s)	1-10V, DALI						
Control options	AmpDim, Bi-power, Custom dimming profile, Photocell, Remote management						
Socket	Zhaga (optional) NEMA 7-pin (optional)						
Associated control system(s)	Schréder EXEDRA						
Sensor	PIR (optional)						
OPTICAL INFORMATION							
LED colour temperature	2200K (WW 722)						
terriperature	2700K (WW 727)						
	3000K (WW 730)						
	3000K (WW 830) 4000K (NW 740)						
0-1							
Colour rendering index (CRI)	>70 (WW 722)						
	>70 (WW 727) >70 (WW 730)						
	>80 (WW 830)						
	>70 (NW 740)						
ULOR	0%						

- nents when fitted with LEDs of 3000K or

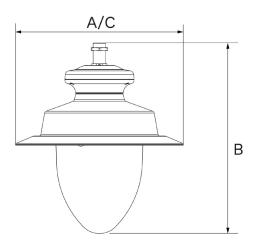
Q 25°C

All configurations	100,000h - L95	

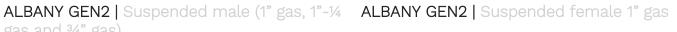
cording to the size/configurations. Please

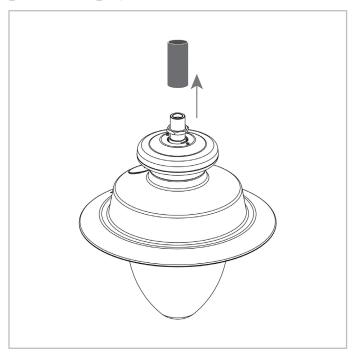
DIMENSIONS AND MOUNTING	
AxBxC (mm inch)	555x629x555 21.9x24.8x21.9
Weight (kg lbs)	8.8-11.8 19.4-26.0
Aerodynamic resistance (CxS)	0.18
Mounting possibilities	Post-top slip-over – Ø60mm Suspended ¾" gas male
	Suspended 1" gas male
	Suspended 1" 1/4 gas male
	Suspended 1" gas female

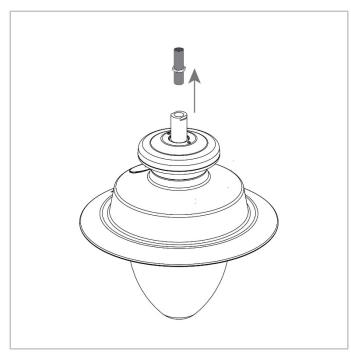
[·] Dimensions given for the suspended version with deep protector. For more information about other configurations, please consult us.



gas and 34" gas)







ALBANY GEN2 | Post-top Ø60mm with Lyre bracket





	Luminaire output flux (lm)										Power		Luminaire efficacy
	Warm W	/hite 722	Warm V	Vhite 727	Warm V	/hite 730	Warm W	/hite 830	Neutral \	White 740	consumption (W)		(lm/W)
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 \pm 7% and on total luminaire power \pm 5 %

