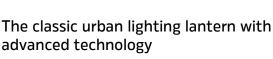
VALENTINO GEN2











Beneath its classic and timeless design, VALENTINO GEN2 incorporates cutting-edge LED and connection technologies.

It benefits from the energy efficiency of LEDs with the photometric performance of the LensoFlex® concept developed by Schréder. VALENTINO GEN2 is available in numerous configurations to light urban roads, streets, squares, parks and car parks. With its various control options, this stylish luminaire is also connected-ready for your smart city projects.

VALENTINO GEN2 is the ideal tool for providing efficient lighting while creating attractive public spaces imbued with a sense of belonging, well-being and safety.



































VALENTINO GEN2 | SUMMARY

Schréder

Concept

The VALENTINO GEN2 cover, body and basket are made of strong, recyclable aluminium material. Its robust design has been created to ensure a long life-span and very low maintenance. The VALENTINO GEN2 luminaire has high tightness and impact levels, making it a stylish yet robust urban lighting solution.

VALENTINO GEN2 is available in various versions: with a flat glass protector or with a deep polycarbonate protector. The flat glass version is ULOR 0% to preserve night flora and fauna life while guaranteeing safe lighting for citizens.

Equipped with the powerful LensoFlex $^{\circ}$ LED engine, the VALENTINO GEN2 luminaire offers high performance with energy savings that can exceed 75% compared to luminaires fitted with traditional light sources.

Moreover, VALENTINO GEN2 is a connected-ready lighting solution, available with various control and sensor options to efficiently and responsibly manage lighting networks and generate even more energy and cost savings. More than an elegant luminaire, VALENTINO GEN2 is a real lighting tool for creating public spaces that are attractive, safe, and sustainable.

VALENTINO GEN 2 is designed for post-top mounting on a \emptyset 60mm or 34" gas spigot. A suspended version with a 34" gas fixation is also available. As an option, the luminaire opening can be toolless. A retaining hinge prevents the cover from falling shut during maintenance or connection activities.



VALENTINO GEN2 provides a stylish, robust and sustainable lighting solution.



VALENTINO GEN2 offers various control and sensor options, in both post-top and suspended versions.

TYPES OF APPLICATION

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

KEY ADVANTAGES

- Heritage design for maintaining ambiance and identity
- Low energy consumption
- No light pollution (ULOR 0 %)
- Connected-ready for your future Smart city requirements
- Compatible with the Schréder EXEDRA control platform
- Zhaga-D4i certified
- RCM-compliant
- Proven LensoFlex®4 photometrical engines



ULOR 0% for the flat glass version.



A toolless opening version is available as an option.

VALENTINO GEN2 | Post-top



VALENTINO GEN2 | Suspended





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.

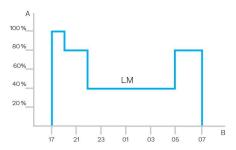




Custom dimming profile

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.



VALENTINO GEN2 | Schréder EXEDRA



Schréder

Schréder EXEDRA is the most advanced lighting management system on the market for controlling, monitoring and analysing streetlights in a userfriendly 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.

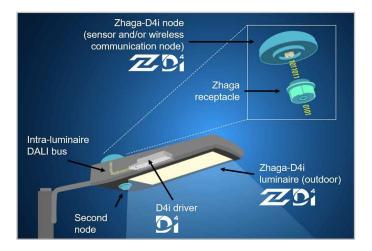
Mobile App: any time, any place, connect to your street lighting



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



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

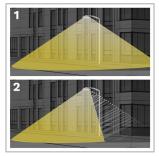
Cost-effective solution

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.

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. Welldesigned 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

Schréder 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.

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

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
- 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

This approved Schréder range of luminaires complies with these requirements.

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.

VALENTINO GEN2 | CHARACTERISTICS

Schréder

GENERAL INFORMATION					
Recommended installation height	4m to 10m 13' to 33'				
Circle Light label	Score ≥90 - The product fully meets circular economy requirements				
CE mark	Yes				
ENEC certified	Yes				
Dark Sky friendly lighting (IDA certification)	Yes				
Zhaga-D4i certified	Yes				
RCM mark	Yes				
UKCA marking	Yes				

[·] Meets IDA Dark Sky requirements when fitted with a clear protector

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Tempered glass Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 09, IK 10
Vibration test	Compliant with modified IEC 68-2-6 (0.5G)
Access for maintenance	By loosening screws on the top cover Tool-less access to gear compartment (option)

OPERATING CONDITIONS

Operating	-30°C up to +40°C / -22°F up to 104°F
temperature range	
(Ta)	

 $[\]cdot$ Depending on the luminaire configuration. For more details, please contact us.

Ŀ	:Lb	-C	IRIC	AL I	NFC)RM/	MOLL	

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, Remote management
Control options Socket	
	profile, Remote management Zhaga (optional)

OPTICAL INFORMATION

OF FICAL INFORMATION	
LED colour temperature	2700K (WW 727) 3000K (WW 730) 3000K (WW 830) 4000K (NW 740)
Colour rendering index (CRI)	>70 (WW 727) >70 (WW 730) >80 (WW 830) >70 (NW 740)
ULOR	0%
ULR	0%

[·] ULOR 0%: only for flat glass version.

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L95

[·] Lifetime may be different according to the size/configurations. Please consult us.

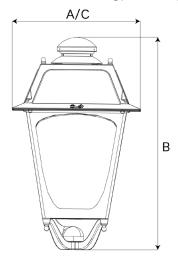
[·] Meets IDA Dark Sky requirements when fitted with LEDs of 3000K or less.

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

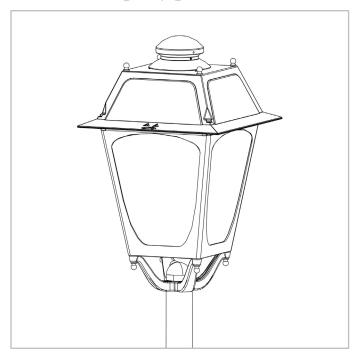
[·] ULR may be different according to the configuration. Please consult us.

DIMENSIONS AND MOUNTING	
AxBxC (mm inch)	400x667x400 15.7x26.3x15.7
Weight (kg lbs)	8.7-11.4 19.1-25.1
Aerodynamic resistance (CxS)	0.19
Mounting possibilities	Post-top slip-over – Ø60mm Post-top ¾" gas male Suspended ¾" gas male

[·] For more information about mounting possibilities, please consult the installation sheet.



VALENTINO GEN2 | Post-top mounting on a Ø60mm or ¾" gas spigot



VALENTINO GEN2 | Suspended mounting with a ¾" gas fixation





	Luminaire output flux (lm)							Power consumption		Luminaire efficacy	
	Warm V	/hite 727	Warm W	/hite 730	Warm V	/hite 830	Neutral V	Vhite 740	(W)		(lm/W)
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
10	600	2100	600	2400	600	2100	600	2400	8	22	119
20	1200	6000	1300	6600	1200	6000	1300	6800	13	66	132
40	2400	10900	2600	12000	2400	10900	2700	12300	25	114	139

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

