ALBANY LED

HI FLEX™1&2   LENSO FLEX™ 4

A versatile best-seller converted to LED technology

A classic of the Victorian era, the ALBANY LED is notable for its versatility.

Available with a wide range of photometric distributions and a timeless design, it is suitable for large urban centres as well as villages or towns.

Adopted from Spain to China and from Brazil to Malaysia, the design of the ALBANY

LED luminaire pleases at every latitude.

Equipped with state-of-the-art LED technology, this classic luminaire is ready to improve the quality, comfort and safety of your lighting installation while offering significant energy savings and reduced CO2 emissions.

IP 66   IK 08

CE   UKCA

005 certification

URBAN & RESIDENTIAL STREETS | BRIDGES | BIKE & PEDESTRIAN PATHS | RAILWAY STATIONS & METROS | CAR PARKS | LARGE AREAS | SQUARES & PEDESTRIAN AREAS | ROADS & MOTORWAYS

ALBANY LED | SUMMARY

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Concept

The ALBANY LED luminaire is composed of an upper and a lower body of spun aluminum and a protector, made of polycarbonate.

ALBANY LED takes advantage of the latest photometric innovations. The LensoFlex® and HiFlex™ photometric engines offer flexible, energy-efficient solutions that can be tailored to meet the specific lighting needs of various projects while maximising savings and providing a quick return on investment.

The gear compartment offers a tool less access using ¼ turn optic clamps. This operation allows the optical compartment to swivel open on a hinge.

To suit multiple technical requirements, ALBANY LED is available with various mounting possibilities. It can be installed using a suspended mounting: 1", 1¼" or ¾" gas (optional), all secured with a counter-nut. Post-top mounting on a stirrup fork and catenary suspension are also available.

ALBANY LED is a connected-ready lighting solution with a classic urban design. It is optionally available with a NEMA or a Zhaga socket, opening up possibilities for easy integration with various connected lighting systems.

Benefiting from the latest photometric engines, ALBANY LED offers a highly performant luminaire with low energy consumption.

ALBANY LED can be mounted using suspended, catenary and post-top fixations.

ALBANY LED is available with a wide range of optics.

Easy access to LED engine and control gear.

TYPES OF APPLICATION

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

KEY ADVANTAGES

- A classic shape with the advantages of LED technology
- Low energy consumption
- Robust and recyclable materials
- Numerous mounting options (various post-top or suspended)
- LensoFlex®4 versatile solutions for high-end photometries maximising comfort and safety
- HiFlex™ photometric engine designed for optimised energy efficiency
- Connected-ready
- Compatible with the Schréder EXEDRA control platform

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.

HiFlex™

The HiFlex™ platform is expertly designed to optimise energy efficiency. Its photometric engines feature high-power LEDs that deliver exceptional performance while consuming minimal energy, resulting in unmatched efficacy (lm/W).

Ideal for projects that require a streamlined approach to maximising lighting efficacy and achieving swift ROI, HiFlex™ is available in two versions: HiFlex™ 1, boasting 24 LEDs and HiFlex™2, equipped with 36 LEDs. Both variants are designed with the priorities of compactness, cost-effectiveness and high performance in mind.

Back Light control

As an option, the LensoFlex®2 and LensoFlex®4 modules can be equipped with a Back Light control system.

This additional feature minimises light spill from the back of the luminaire to avoid intrusive light towards buildings.
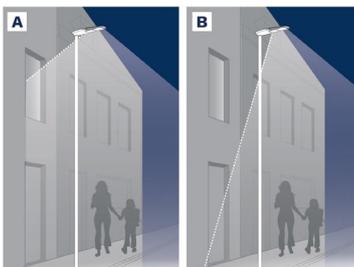

A. Without Back Light control | B. With Back Light control

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.
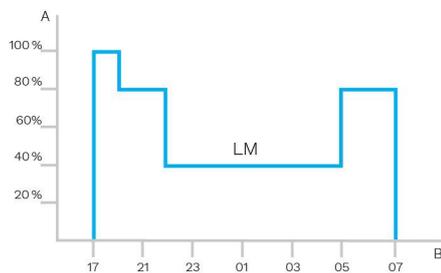
A. Dimming level | B. Time

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.

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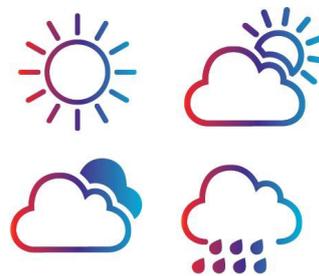
The Zhaga consortium joined forces with the DiiA and produced a single Zhaga-D4i certification that combines the Zhaga Book 18 version 2 outdoor connectivity specifications with the DiiA's D4i specifications for intra-luminaire DALI.

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 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.

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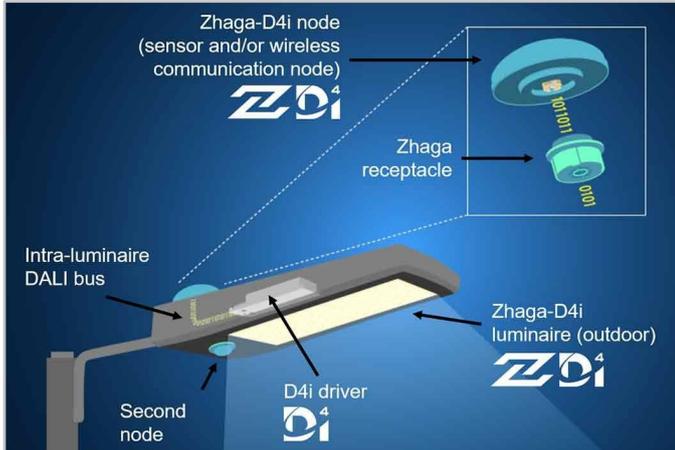
Schréder EXEDRA is the most advanced lighting management system on the market for controlling, monitoring and analysing streetlights in a user-friendly way.

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
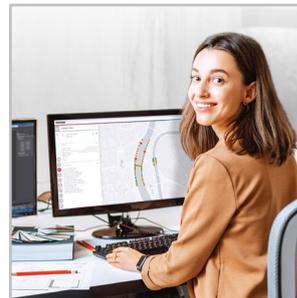
Schréder EXEDRA includes all advanced features needed for smart device management, real-time and scheduled control, dynamic and automated lighting scenarios, maintenance and field operation planning, energy consumption management and third-party connected hardware integration. It is fully configurable 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 end-users take the right actions.

Protected on every side

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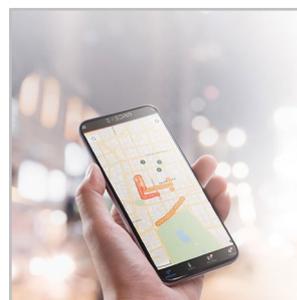
The Schréder EXEDRA mobile application offers the essential functionalities of the desktop platform, to accompany all types of operator on site in their daily effort to maximise the potential of connected lighting. It enables real-time control and settings, and contributes to effective maintenance.

GENERAL INFORMATION

Recommended installation height	4m to 10m | 13' to 33'
Circle Light label	Score ≥90 - The product fully meets circular economy requirements
Driver included	Yes
CE mark	Yes
ENEC certified	Yes
ENEC+ certified	Yes
ROHS compliant	Yes
Zhaga-D4i certified	Yes
French law of December 27th 2018 - Compliant with application type(s)	a, b, c, d, e, f, g
BE 005 certified	Yes
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

HOUSING AND FINISH

Housing	Aluminium
Optic	PMMA
Protector	Polycarbonate
Housing finish	Polyester powder coating
Standard colour(s)	AKZO grey 900 sanded
Tightness level	IP 66
Impact resistance	IK 08
Vibration test	Compliant with modified IEC 68-2-6 (0.5G)
Access for maintenance	Tool-less access to gear compartment

· The gear compartment is IP 43.
· Any other RAL or AKZO colour upon request

OPERATING CONDITIONS

Operating temperature range (Ta)	-30°C up to +45°C / -22°F up to 113°F

· 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
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, Custom dimming profile, Photocell, Remote management
Socket	Zhaga (optional) NEMA 7-pin (optional)
Associated control system(s)	Schréder EXEDRA

OPTICAL INFORMATION

LED colour temperature	2200K (Warm White WW 722) 2700K (Warm White WW 727) 3000K (Warm White WW 730) 3000K (Warm White WW 830) 4000K (Neutral White NW 740) 5700K (Cool White CW 757)
Colour rendering index (CRI)	>70 (Warm White WW 722) >70 (Warm White WW 727) >70 (Warm White WW 730) >80 (Warm White WW 830) >70 (Neutral White NW 740) >70 (Cool White CW 757)
ULOR	<4%
ULR	<5%

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

LIFETIME OF THE LEDS @ TQ 25°C

All configurations	100,000h - L95

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

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DIMENSIONS AND MOUNTING

AxBxC (mm | inch)	700x650x700 | 27.6x25.6x27.6
Weight (kg | lbs)	10.0 | 22.0
Aerodynamic resistance (CxS)	0.14
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 Catenary

· For more information about mounting possibilities, please consult the installation sheet.
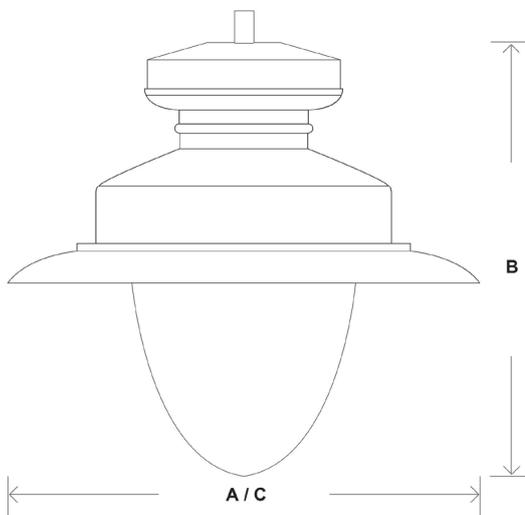
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ALBANY MAXI LED

Photometry

HI FLEX™ 1&2

Luminaire output flux (lm)								Power consumption (W)		Luminaire efficacy (lm/W)
Warm White WW 722		Warm White WW 727		Warm White WW 730		Neutral White NW 740				
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
48	2000	10700	2200	12000	2300	12500	2500	13500	19	99	158
72	3000	11500	3400	13000	3500	13500	3800	14500	28	100	160

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

ALBANY MAXI LED

Photometry

LENSO FLEX™ 4

Luminaire output flux (lm)												Power consumption (W)		Luminaire efficacy (lm/W)
Warm White WW 722		Warm White WW 727		Warm White WW 730		Warm White WW 830		Neutral White NW 740		Cool White CW 757				
Number of LEDs	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
40	2400	9500	2500	9800	2700	10700	2500	10100	2900	11400	-	-	24	88	165
50	3200	9400	3300	9900	3600	10800	3400	10100	3800	11400	3700	11100	30	90	152

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

Schréder

5300 CIRCLE LED BASE 2

5300 CIRCLE LED BASE 2 BL

5300 CIRCLE LED BASE 2 SY

5301 CIRCLE LED BASE 2

5301 CIRCLE LED BASE 2 BL

5301 CIRCLE LED BASE 2 SY

5302 CIRCLE LED BASE 2

5302 CIRCLE LED BASE 2 BL

5302 CIRCLE LED BASE 2 SY

5303 CIRCLE LED BASE 2

5303 CIRCLE LED BASE 2 BL

5303 CIRCLE LED BASE 2 SY

5304 CIRCLE LED BASE 2

5304 CIRCLE LED BASE 2 BL

5304 CIRCLE LED BASE 2 SY

5305 CIRCLE LED BASE 2

5305 CIRCLE LED BASE 2 BL

5305 CIRCLE LED BASE 2 SY

5306 CIRCLE LED BASE 2

5306 CIRCLE LED BASE 2 SY

5307 CIRCLE LED BASE 2

5307 CIRCLE LED BASE 2 BL

5307 CIRCLE LED BASE 2 SY

5308 CIRCLE LED BASE 2

5308 CIRCLE LED BASE 2 BL

5308 CIRCLE LED BASE 2 SY

5345 CIRCLE LED BASE 2

5345 CIRCLE LED BASE 2 SY

LENSO FLEX™4

5366 CIRCLE LED BASE 2

LENSO FLEX™4

5366 CIRCLE LED BASE 2 BL

LENSO FLEX™4

5366 CIRCLE LED BASE 2 SY

LENSO FLEX™4

5367 CIRCLE LED BASE 2

LENSO FLEX™4

5369 CIRCLE LED BASE 2 ZR

LENSO FLEX™4

5369 CIRCLE LED BASE 2 ZR BL

LENSO FLEX™4

5370 CIRCLE LED BASE 2 BL ZL

LENSO FLEX™4

5370 CIRCLE LED BASE 2 ZL

LENSO FLEX™4

5388 CIRCLE LED BASE 2

5388 CIRCLE LED BASE 2 BL

5388 CIRCLE LED BASE 2 SY

5390 CIRCLE LED BASE 2

5390 CIRCLE LED BASE 2 BL

5390 CIRCLE LED BASE 2 SY

5392 CIRCLE LED BASE 2

5392 CIRCLE LED BASE 2 BL

5392 CIRCLE LED BASE 2 SY

Schréder

5393 CIRCLE LED BASE 2

5393 CIRCLE LED BASE 2 BL

5393 CIRCLE LED BASE 2 SY

5397 CIRCLE LED BASE 2

5397 CIRCLE LED BASE 2 SY

5399 CIRCLE LED BASE 2

5399 CIRCLE LED BASE 2 BL

5399 CIRCLE LED BASE 2 SY

5424 CIRCLE LED BASE 2

Schréder

5425 CIRCLE LED BASE 2
HI FLEX™1&2

5426 CIRCLE LED BASE 2
HI FLEX™1&2

5427 CIRCLE LED BASE 2
HI FLEX™1&2

5428 CIRCLE LED BASE 2
HI FLEX™1&2

50001 CIRCLE LED BASE 2
LENSO FLEX™4

50001 CIRCLE LED BASE 2 SY
LENSO FLEX™4

50002 CIRCLE LED BASE 2
LENSO FLEX™4

50002 CIRCLE LED BASE 2 SY
LENSO FLEX™4

50003 CIRCLE LED BASE 2
LENSO FLEX™4

50003 CIRCLE LED BASE 2 SY

LENSO FLEX™4

50004 CIRCLE LED BASE 2

LENSO FLEX™4

50006 CIRCLE LED BASE 2

LENSO FLEX™4

50008 CIRCLE LED BASE 2

LENSO FLEX™4

50009 CIRCLE LED BASE 2

LENSO FLEX™4

50009 CIRCLE LED BASE 2 SY

LENSO FLEX™4