



# EXEYA



## KEY ADVANTAGES

- Elegant and robust design.
- ELT components, designed and manufactured in Spain.
- Four luminaire sizes.
- Luminaire comprising two independent units for easy installation and maintenance.
- Universal attachment: post, crook or arm.
- Adjustable angle of incline.
- IP66 & IK09.
- Resistant to high temperatures (Ta 50°C).
- Mains surge protection 10kV/10kA.

EXEYA is a high performance road luminaire with features and a design adapted to respond to the most demanding needs.

The luminaire housing is made of high-pressure die-cast aluminium with a polyester paint finish for high corrosion resistance. Its sleek self-cleaning design effectively prevents the accumulation of dirt on top of the luminaire.

EXEYA comprises two independent compartments, one compartment for the LED module and optical unit, covered and sealed by ultra-flat tempered glass, and a separate compartment for the driver and accessories in addition to a universal attachment unit that offers multiple fastening options.

Equipped with high performance and robust LED modules and powered by an ELT eSmart fully programmable driver which offers a wide range of dimming modes and control features.

EXEYA lighting fixture offers the possibility of working at project stage, with connectivity systems fully designed by ELT that aim to provide each installation with the maximum added value possible.

# GENERAL INFORMATION



**1. Housing:** Corrosion resistant, high pressure ADC12 (low copper content) die-cast aluminium with a polyester powder coating. In grey RAL 7024.

**2. Protector:** High transmittance tempered glass cover.

**3. Opening & closing:** Two independent compartments, one for the control gear and accessories, and one for the optical unit.

The driver compartment can be opened without tools for easy installation and maintenance.

**4. Fixing:** Universal diameters  $\varnothing$  42mm with adaptor /  $\varnothing$  60 mm /  $\varnothing$  76 mm. Adjustable 90°.

**5. Fixing methods:** Integrated spirit level. Recommended installation height XS: 3-6m, S: 4-8m, M: 6-12m, L: 12-15m.

**6. Adjustment:** Option of different angles of incline, adjustable.

**7. Cable gland:** With integrated ventilation.

**8. Ingress protection:** IP66.

**9. Impact protection rating:** IK09\*.

**10. Protection devices:** Direct power-off switch in the compartment and protection against mains surges and lightning strikes. 10kV / 10kA.

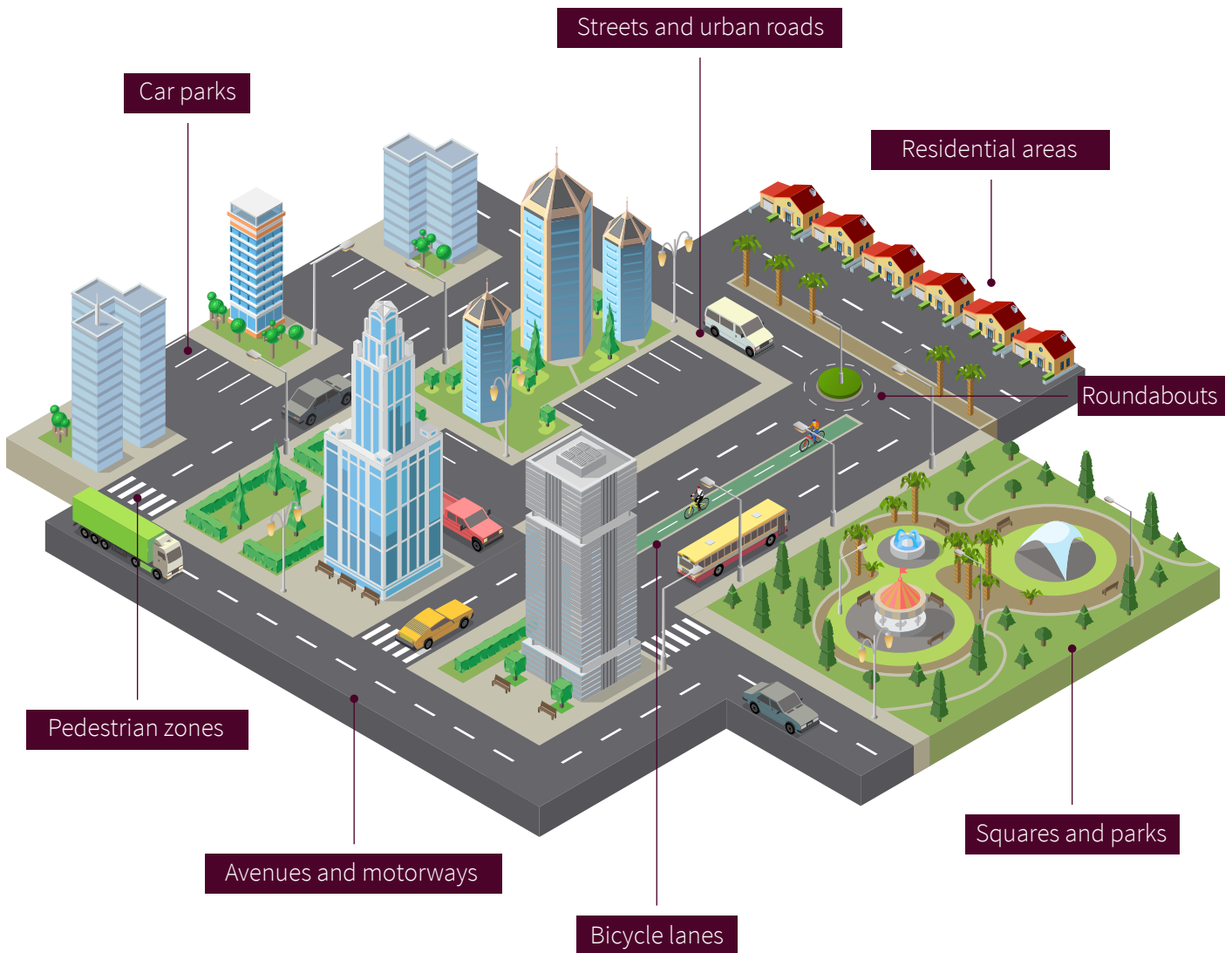
**11. Control gear:** ELT fully programmable eSmart driver on a removable tray for easy maintenance.

**12. Optical compartment:** Designed for optimal thermal management with LED modules from ELT that provide high luminous efficacy.

\*Except EXEYA L model (eLUM VIAL 01L): IK08

# APPLICATIONS

- Residential areas
- Streets and urban roads
- Narrow roadways
- Squares and parks
- Avenues and motorways
- Roundabouts
- Pedestrian zones
- Bicycle lanes
- Car parks



# APPLICABLE STANDARDS

CE marking	✓
ENEC certificate	✓
RoHS-compliant	✓
Certificates issued by an accredited ENAC body	✓
Compliance with IDAE and CEI technical requirements	✓

<b>SAFETY</b>	UNE-EN 60598-1:	Essential requirements for luminaires
	UNE-EN 60598-2-3:	Particular requirements for road and street lighting luminaires
	UNE-EN 62471:	Photobiological safety

<b>ELECTROMAGNETIC COMPATIBILITY</b>	UNE-EN 61000-3-2:	Harmonics
	UNE-EN 61000-3-3:	Fluctuations and flicker
	UNE-EN 55015:	Radio disturbance
	UNE-EN 61547:	Immunity requirements (EMC)

<b>COMPONENTS</b>	UNE-EN 61347-1:	Lamp control gear. General and safety requirements
	UNE-EN 61347-2-13:	Lamp control gear. Particular requirements
	UNE-EN 62031:	LED modules for general lighting
	UNE-EN 62384:	Operational requirements

<b>OTHER STANDARDS</b> Test regulation: light and lighting, measurement and presentation of photometric data.	UNE-EN 13032-1:	Measurement and file format
	UNE-EN 13032-4:	LED lamps, modules and luminaires
	LM79	Electrical and photometric measurements
	LM80:	Lumen depreciation
	TM21:	Projected lumen degradation
	IEC 60068-2-6:	3G vibration index testing
	ISO 9227:	1,000-hour salt spray test

# SPECIFICATIONS

Models	4 different models for output ranges from 15W to 270W
Nominal voltage	180...277 Vac
Permitted input voltage range	162...305 Vac
Mains frequency	50...60 Hz
Power factor	≥ 0.98
Total harmonic distortion	THD @ 230V, at full load <10%
Mains surge protection	10 kV / 10kA
Electrical insulation	Class I
Ingress protection:	IP66
Impact protection rating:	IK09*
Power supply, driver	ELT eSMART fully programmable driver offering a wide range of dimming modes
Control	Multiple control methods Please refer to CONTROL section on page 8
Temperature control through the NTC	Optional
NEMA control (7-pin)	Optional
Wireless street lighting solutions	Optional Please refer to CONNECTIVITY SOLUTIONS on page 10
LED load	High luminous efficacy LED modules available with 24, 36, 64 and 120 LEDs
Luminous efficacy	Up to 134 lm/W
Available colour temperatures (K)	PC AMBER, 2.200K, 2.700K, 3.000K, 4.000K, 5.000K
Colour Rendering Index	> 70 (except PC AMBER)
ULOR	0 %
Optics	2x2 Lenses
Material	PMMA
Photometric distribution	Please refer to PHOTOMETRIC DISTRIBUTION section on page 7
Useful life at 25°	100,000hrs - L90B10
Operating temperature range	-20°C to + 50° C

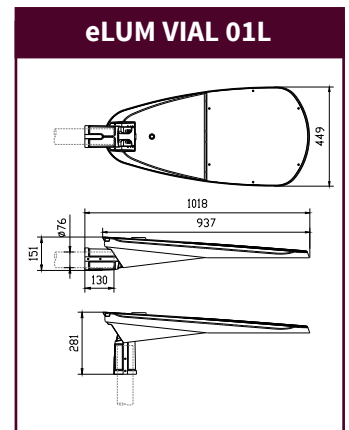
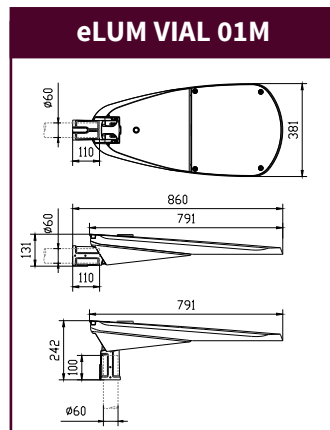
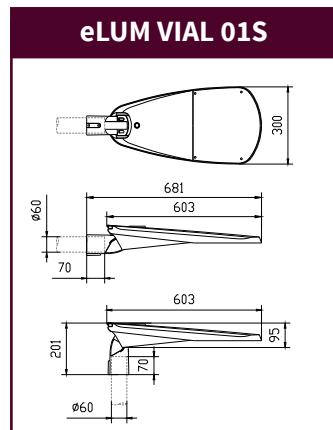
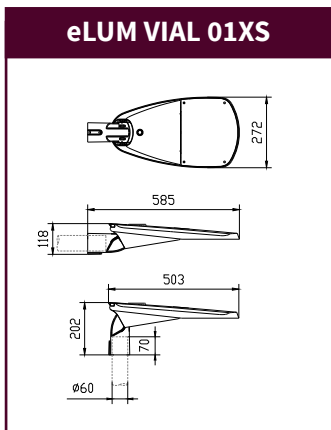
\*Except EXEYA L model (eLUM VIAL 01L): IK08

# PRODUCT SPECIFICATION

Model	LED	LED current (mA)	System power (W) <sup>(1)</sup>	Lumens (lm) <sup>(2)</sup>		Luminous efficacy (lm/W)	
				Warm white 3.000K	Neutral white 4.000K	3.000K	4.000K
<b>eLUM VIAL 01XS</b>	24	200	15	2.017	2.125	134	142
		350	25	3.352	3.533	134	141
		400	30	3.786	3.991	126	133
		500	40	4.747	5.004	119	125
		700	55	6.344	6.686	115	122
		800	60	6.814	7.182	114	120
		1050	80	8.754	9.226	109	115
<b>eLUM VIAL 01S</b>	36	350	40	5.027	5.298	126	132
		500	60	7.151	7.537	119	126
		700	80	9.260	9.760	116	122
		800	90	10.281	10.836	114	120
<b>eLUM VIAL 01M</b>	64	350	65	8.936	9.419	137	145
		500	95	12.387	13.055	130	137
		620	120	14.980	15.789	125	132
		700	140	16.644	17.542	119	125
		800	160	18.641	19.647	117	123
<b>eLUM VIAL 01L</b>	120	350	125	16.757	17.661	134	141
		410	150	19.966	21.044	133	140
		500	175	23.224	24.477	133	140
		550	200	25.806	27.199	129	136
		700	250	31.208	32.892	125	132
		730	270	32.344	34.089	120	126

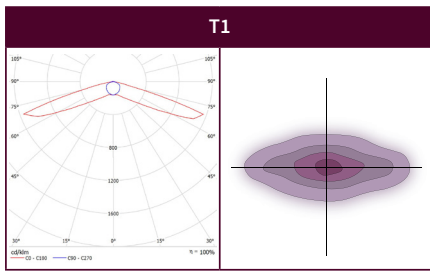
Tolerance for electrical and optical data:  $\pm 10\%$   
Reference light values. For more information, see photometry files.

(1) Power (W) includes losses occurring in the driver.  
(2) Values based on distribution curve T3 (values will vary depending on the type of optical lens being used).

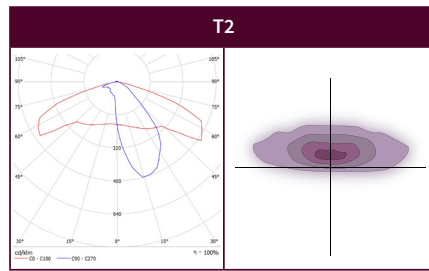


Dimensions in mm

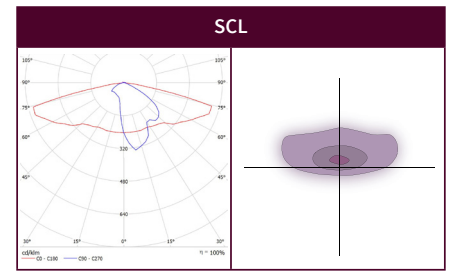
# PHOTOMETRIC DISTRIBUTIONS



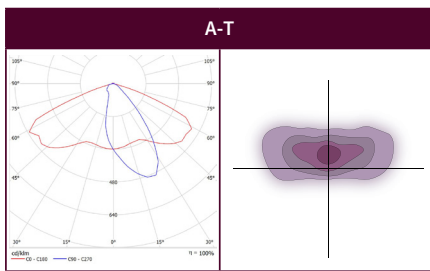
IESNA Type 1 Long Symmetrical distribution is ideal for lighting roadways and narrow pedestrian walkways. This type of lighting is designed so that the light point is at the centre of the pathway.



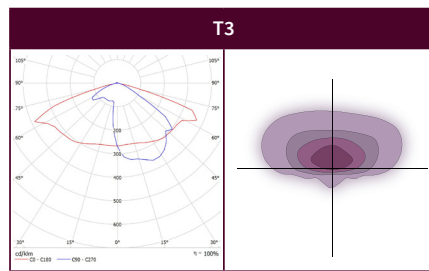
IESNA Type II Long Asymmetrical distribution is used for lighting the European standard for Class P pedestrian walkways and Class M roadways.



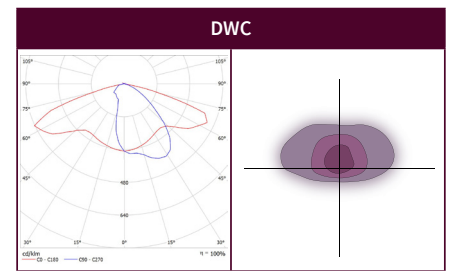
IESNA Type II/III Long Asymmetrical distribution for very wide distances between posts, ideal for pedestrian walkways and residential roadways. EN 13201 Class P.



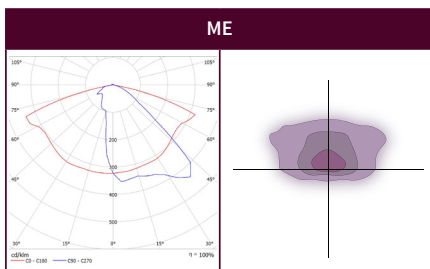
IESNA Type II Long Asymmetrical distribution is used for narrow roadways or on high posts to provide a low level of glare.



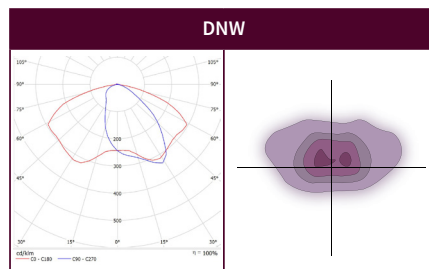
IESNA Type III Wide Asymmetrical distribution is used for lighting roadways whose width is the same as or more than the mounting height.



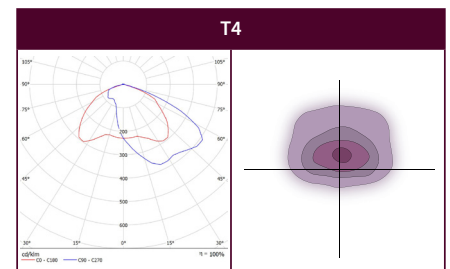
IESNA Type III Wide Asymmetrical universal distribution for lighting roadways with excellent mixed illuminance and luminance uniformity.



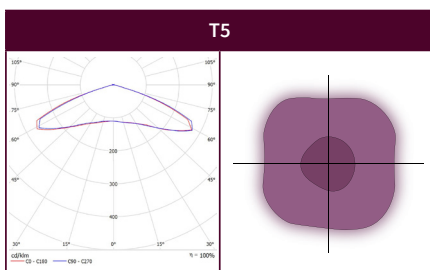
Optic offering an asymmetrical beam with excellent longitudinal luminance uniformity, complying with EN 13201 Class M requirements where the roadway width is equal to or less than the post height.



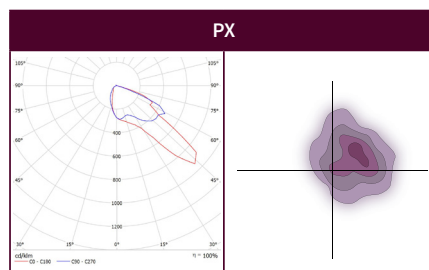
Optic offering a wide asymmetrical beam, providing a good level of uniformity.



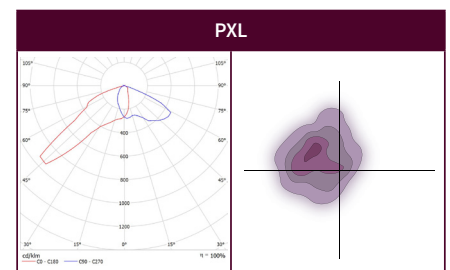
IESNA Type IV Wide Asymmetrical distribution is used for lighting wide roadways and large outdoor spaces.



IESNA Type V Circular Symmetrical distribution is used for large areas such as parks and car parks.



Special asymmetrical optic to highlight pedestrian crossings for traffic coming from the right hand side.



Special asymmetrical optic to highlight pedestrian crossings for traffic coming from the left hand side.



# CONTROL



## CONTROL GEAR WITH eSMART TECHNOLOGY

Control gear equipped with eSmart technology offers total flexibility in the design of the lighting system, thanks to all the control features and programmable dimming methods it incorporates.

These drivers are the perfect lighting solution for today and tomorrow, to optimise the performance of each light point, obtain the best operating features as well as an optimal energy saving, which will help reduce both economic costs and CO<sup>2</sup> emissions throughout the entire service life of the lighting system.

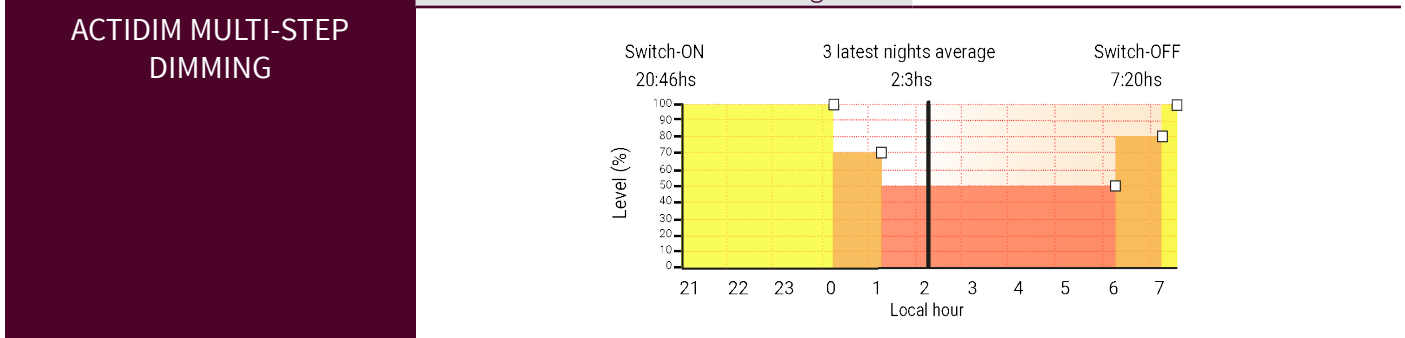
### Monitoring parameters and events

Control gear equipped with eSMART technology records numerous events in its non-volatile internal memory along with the maximum and minimum values of different parameters and operating times in different modes, relating to the control gear itself as well as to the LED modules it drives.

Real time data recorded and the parameters can be monitored by the user via the iSOFT configuration software and by means of the STELARIA™ remote street lighting management system.

DIMMING MODES	ON/OFF: Non-dimmable
	DALI
	0 - 10V
	1 - 10V
	ActiDIM: Stand-alone dimming system that simulates astronomical behaviour with reference to an average virtual night (up to 9 steps)
	Parking mode: Dimming through the installation of a presence detection sensor
	ActiDIM + Parking: stand-alone dimming with presence detection sensors
	LineSwitch: Control line dimming
MainsDIM: Mains voltage dimming	

Time intervals	Module power
Power on	100 %
2 hours before the middle of the night	70 %
1 hour before the middle of the night	50 %
4 hours after the middle of the night	80 %
5 hours after the middle of the night	100 %





PROGRAMMABLE FEATURES	AOC: Adjustable output current
	MTP: Module thermal protection
	CLO: Constant lumen output
	EOL: End of life
	PST: Programmable start-up time

PROTECTIONS	Against short circuit, overload and open circuit
	Thermal protection
	Mains surge protections incorporated into the driver <ul style="list-style-type: none"> <li>Differential mode: 6kV / 3kA (L-N)</li> <li>Standard mode: 8kV (L/N - Earth)</li> </ul>

# AUXILIARY PROTECTION



Auxiliary protection to help protect the luminaire from mains surges and lightning strikes which transfer the potentially harmful energy safely to earth.

Open circuit voltage	10kV
Nominal transient current	5kA
Maximum transient current	10kA
MC / MD protection level	1.5kV

# LED MODULES



## eLED<sup>®</sup> MULTI-FIT MODULES

The high luminous efficacy eLED MULTI-FIT modules are designed for optimal thermal management. They incorporate 2x2 lenses and a wide variety of photometric distributions.

LED	High power LED
Format	Zhaga design requirements compliant
Models	2x6, 2x8, 2x12
Colour temperature (K)	PC AMBER, 2.200K, 2.700K, 3.000K, 4.000K, 5.000K
Colour Rendering Index	> 70 (except PC AMBER)
Colour tolerance	3 MacAdam ellipses - 3SDCM

# CONNECTIVITY SOLUTIONS

EXEYA lighting fixture offers the possibility of working at project stage, with connectivity systems fully designed by ELT that aim to provide each installation with the maximum added value possible.

## iMonitor CONTROL TOOL

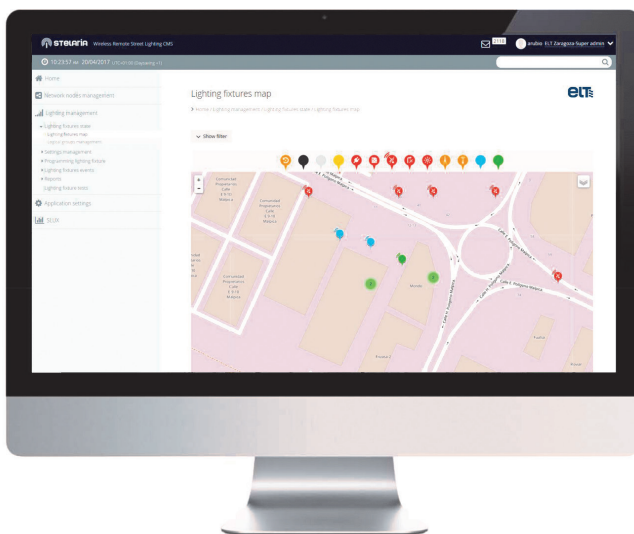
iMonitor is a tool based on Bluetooth technology that allows the wireless control and configuration of each light point by means of a mobile app, thereby simplifying maintenance and management tasks for street lighting installations.

iMonitor can adjust the light flow, programme dimming profiles and monitor every parameter associated with energy efficiency, including, among many others, consumption, device performance and power grid voltage.



## STELARIA MANAGEMENT SYSTEM

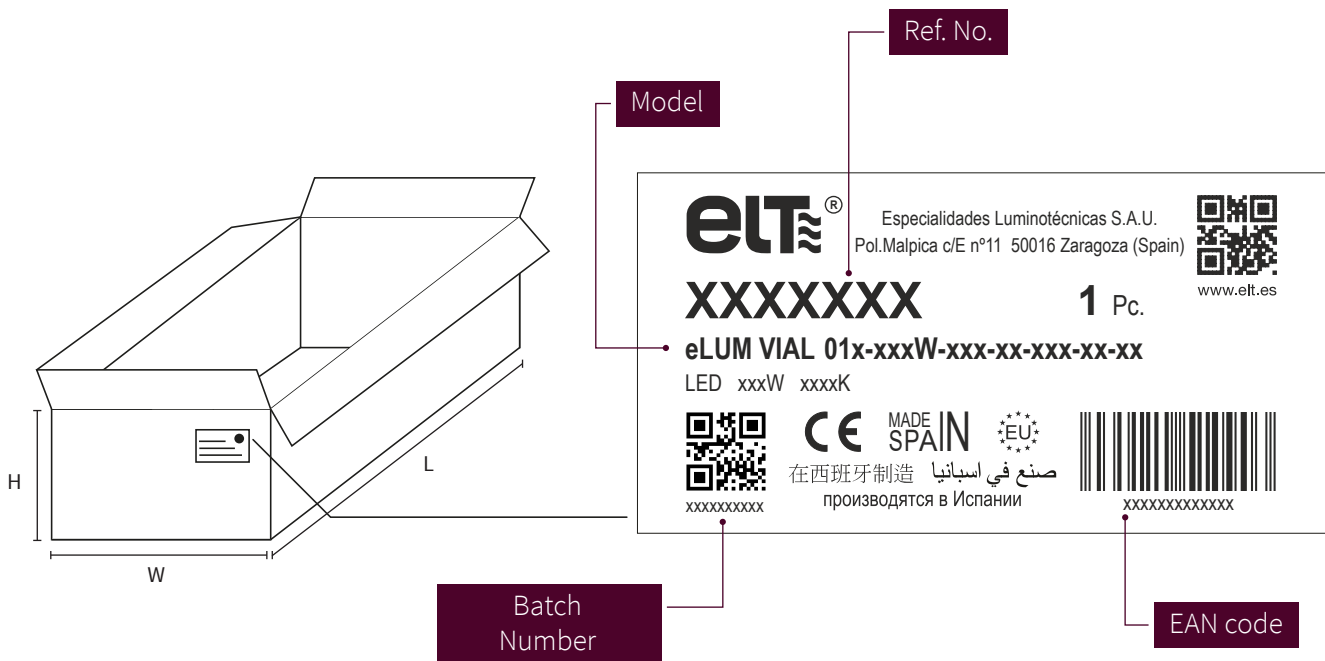
STELARIA is a remote wireless street lighting management system that can control and monitor street lighting installations via a simple Web application. Compatible with LED lighting fixtures and other lighting technologies, such as HID, the STELARIA system is really easy to install as it uses a standard connection, thereby making it a plug & play solution.



STELARIA automatically generates reports relating to energy consumption, the sending of alerts and failure detection, inventory control and programming light schedules, which reduce the costs associated with both installation maintenance and response times. This management system is based on standard technologies, which makes it the perfect ally for a fully interoperable solution. It also offers a module that interacts with other management systems and platforms, not only for street lighting, but also for other services that are becoming more digitalised, such as water or waste management.

# PACKAGING AND LABELLING

Units per package	1 unit
Package dimensions (mm): (Width [W] x length [L] x height [H])	EXEYA XS: 320 x 630 x 135
	EXEYA S: 355 x 730 x 140
	EXEYA M: 445 x 1080 x 160
	EXEYA L: 495 x 1080 x 160
Net luminaire weight (Kg)	EXEYA XS: 5.3
	EXEYA S: 6.6
	EXEYA M: 11.6
	EXEYA L: 17.3



The data in this document is subject to change without prior notice. Please ensure that you have the latest version which is available from [www.elt.es/en](http://www.elt.es/en)



# EXEYA



Pol. Ind. Malpica - calle E nº11  
50016 Zaragoza (España)  
Tel: +34 976 573 660  
Fax: + 34 976 574 960  
E-mail: [elt@elt.es](mailto:elt@elt.es)

[www.elt.es](http://www.elt.es)

