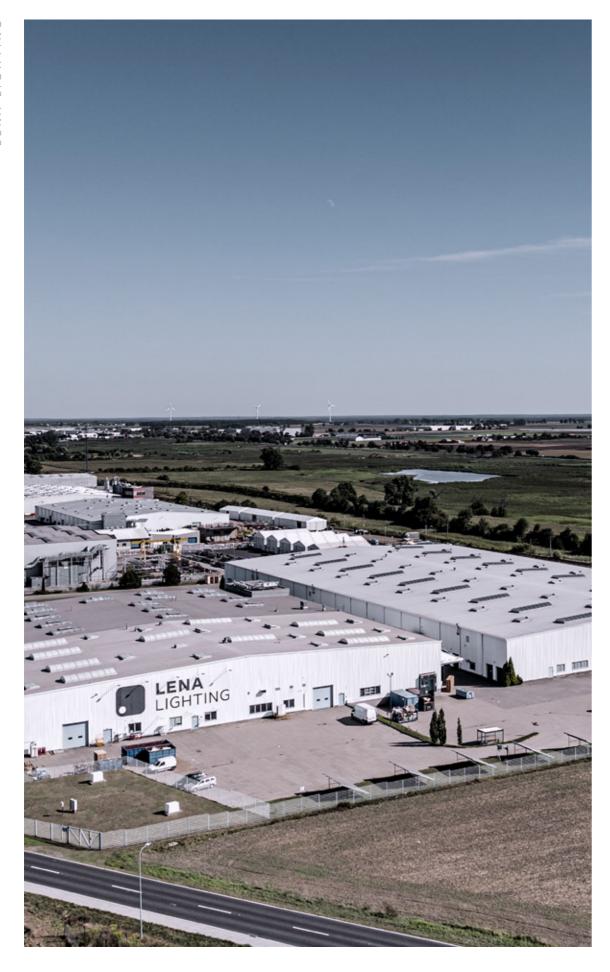




LIGHTING
ROAD AND PARK



Lena Lighting production halls in Środa Wielkopolska

MADE IN POLAND

We are a lighting manufacturer present on the market for 36 years, thanks to which luminaires and systems lighting, we know everything: we design them, we comprehensively test and produce. We connect practice with modernity.

Advanced production facilities

Our modern infrastructure provides a high level of flexibility and operational efficiency.

Lighting market leader

Every year, we produce millions of luminaires, strengthening our position in the country and in the world.

Innovative design

We use the latest advances in technology to create modern and energy-efficient solutions.

Cooperation with global leaders

We cooperate with leading manufacturers of electrotechnical components, which allows us to implement unique solutions.

Energy saving and luminous quality

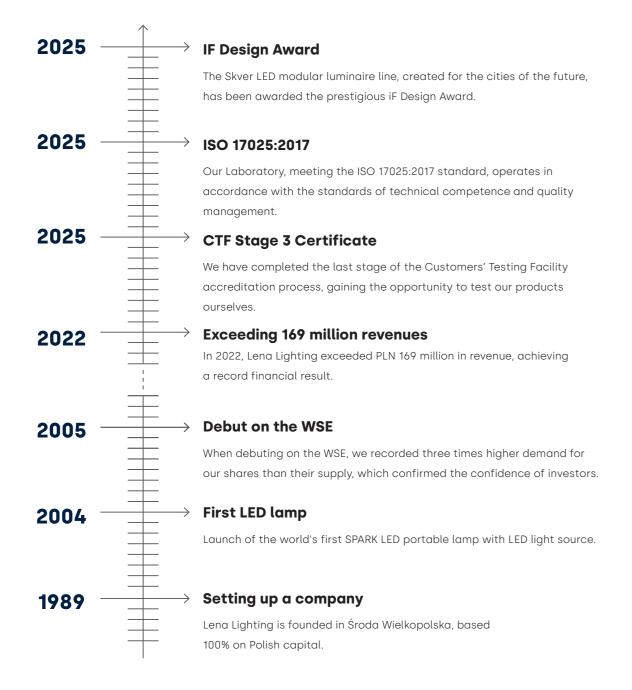
Our technologies reduce energy consumption while improving light parameters.

Continuous improvement of technology

We are constantly developing our know-how by implementing the latest LED technologies and lighting control systems.

COMPANY HISTORY

Our lighting is the result of decades of experience in design and production. Our brand is made up of people full of passion. The company's mission is to create innovative lamps and lighting control systems that inspire to change towards sustainable development.





Passion and professionalism

Our company was born out of a fascination with light. Over the years, we have gained the knowledge and competences thanks to which we can design and manufacture even the most complex lighting systems.



Inspiration and design

We make sure that our products stand out not only with the best parameters, but also with a unique design. We believe that the space that surrounds us has a real impact on how we feel. With this in mind, we create our products.





Innovation and development

We offer technologically advanced solutions. We are constantly investing in the development of our research center and state-of-the-art production lines. We are developing dynamically with the progress of technology.



Sustainable development

We have placed environmental management at the heart of our business, implementing a system that minimizes any negative impact on the environment. We hold BIO Certificate ISO 14001.

CERTIFIED LIGHTING

The quality of our products is not only a confirmation of our competence as a leading Polish lighting manufacturer. It is also a matter of our pro-ecological approach.

Features such as reliability, durability, service life or good product design are extremely important in the context of sustainable production and environmental protection. It is the high quality of lighting that Lena Lighting is one of the main factors that allowed us to acquire a group of regular customers all over the world.

Our competence:





































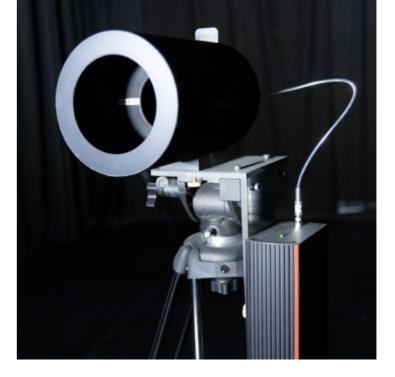


Our Awards

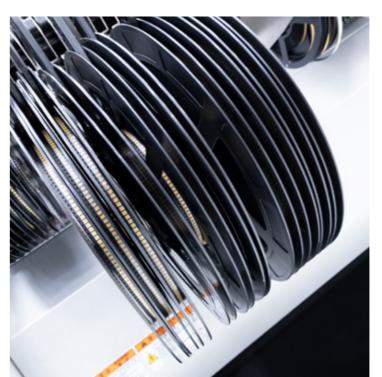




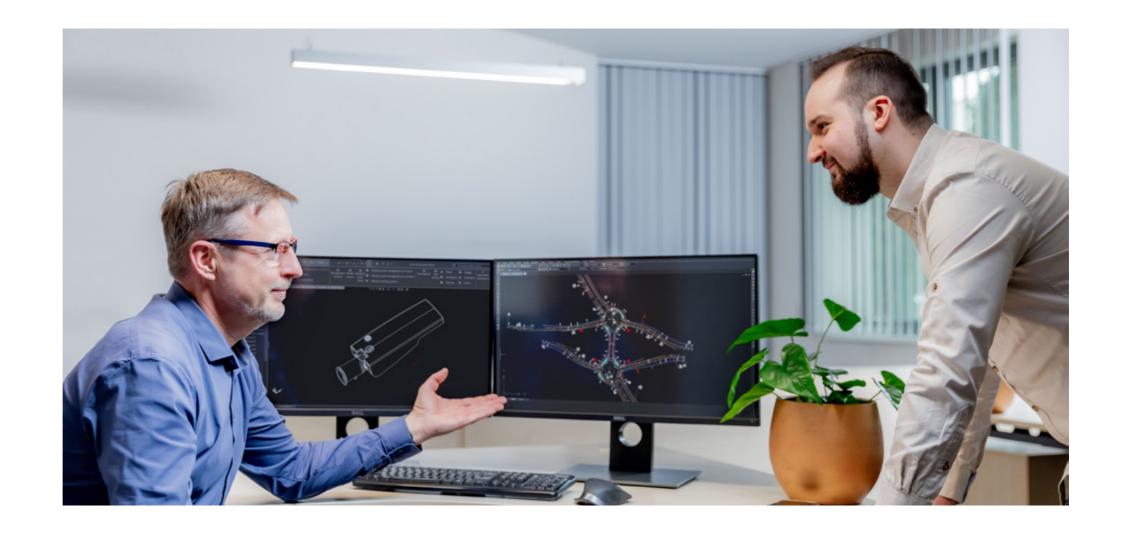












SUPPORT OVER ALL OF THEM STAGE OF IMPLEMENTATION PROJECT

Support flourishes here like a well-planned lighting upgrade. From the first sketch and inventory, through the audit and selection of state-of-the-art solutions, to full financial guidance and the use of available support programs.

When the project gains power, we ensure effective implementation, control of progress and acceptance like the last refinements of a masterful structure. And then we stay on board, taking care of service, flexible expansion and readiness for future challenges, so that the infrastructure shines as an example for many years.







ECOLOGY

EPD

Park and urban luminaires of our production have a Product Environmental Declaration (EPD), confirming their compliance with the principles of sustainable development. This document details the environmental impact of luminaires throughout their life cycle – from production to disposal. It is available on the Eco Portal at: https://eco-portal.eco-platform.org/

For our customers, it is a guarantee of transparency, quality and ecological responsibility. EPD luminaires support the implementation of projects in accordance with environmental standards. By choosing products from EPD, customers actively contribute to creating a more welcoming urban space.

Dark Sky Certificate

Our certified Dark Sky luminaires reduce light pollution while protecting the natural night environment. They direct light only where it is needed – on sidewalks, alleys and streets – without emissions upwards or towards the windows of residents and animals. This solution increases comfort and safety, while maintaining a dark, friendly sky. Dark Sky luminaires promote energy savings and CO2 reduction, supporting the idea of sustainable development and creating greener and more harmonious cities.

HCL

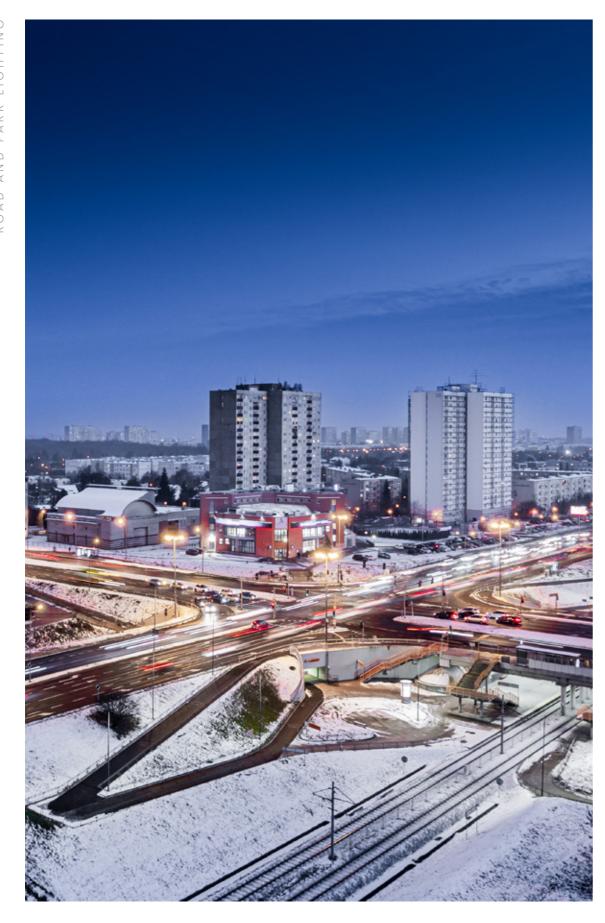
We design our lighting in accordance with the Human Centric Lighting concept, focused on individual human needs. Thanks to the light, it supports the daily sense of balance, matching the color and intensity to the time of day – cool light in the morning stimulates and increases concentration, warmer in the afternoon promotes calmness. HCL solutions harmonize with natural lighting and help minimize the effects of shorter, darker days.

Backshields

The housings can be freely modified with several special canopies and backshields, changing the light distribution and eliminating uncontrolLED lighting large areas. This is done expressly, by quickly clicking accessory.



LIGHTING ROAD AND STREET



Tiara 2 LED luminaires, MPK Poznań depot

SAFE AND ALWAYS TO THE GOAL

Street and road luminaires from the Polish manufacturer Lena Lighting are modern solutions, energy efficiency, durability and safety. They provide both effective and effective lighting.

Our luminaires are characterized by

- Excellent quality at a competitive price
- Construction created by our own R&D department
- Polish production and branded components
- Efficiency up to 184 lm/W
- Power range 8 to 330 W
- Luminous flux range from 900 42275 lm
- High resistance IP66
- SP10kV protection as standard
- Impact resistance IK07-IK09
- Variety of available broadcasts
- ULOR = 0.0%
- Green production













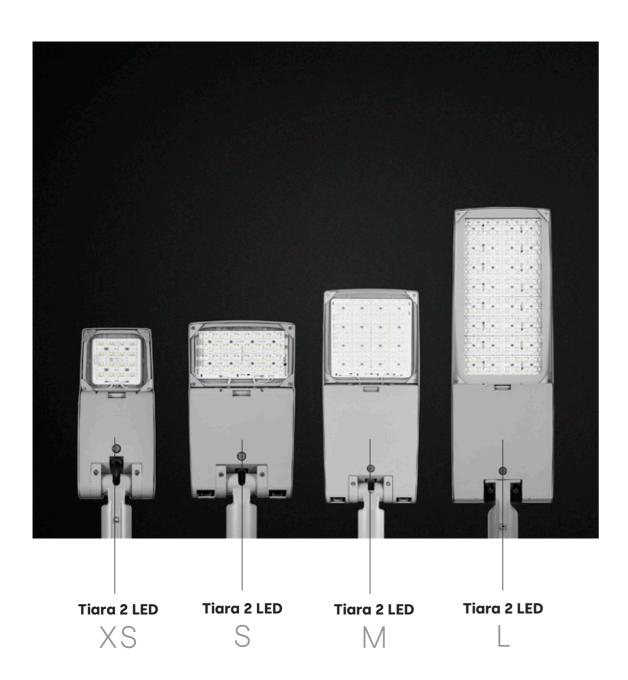
TIARA 2 LED



TIARA 2 LED is the most flexible item in the Lena Lighting road luminaire range.

These fixtures can be used both on motorways, expressways and expressways, as well as on national, municipal, local and residential roads. The variety of optics available also allows them to be used to illuminate pedestrian crossings, sidewalks and bicycle paths.

AVAILABLE VERSIONS



TIARA 2 LED XS_13200lm_740_RMW_IP66_II cl._DALI_NEMA_IK10_(109W)_RAL7016_

1 2 3 4 5 6 7 8 9 10 11

1 Model

Tiara 2 LED XS

Tiara 2 LED S Tiara 2 LED M

IGIG E EED IVI

Tiara 2 LED L

Tiara LED M PRO

Tiara LED L PRO

2 Luminous flux [lm]

Value in [lm] in steps of 25

3 CRI/CCT

722, 727, 730, 735, **740**, 750, 757,765, 822, 827, 830, 835, 840, 850,857, 865, 922, 927, 930, 935, 940, 950, 957, 965

4 Optics

AS-asymmetrical, R-road, P pedestrian crossings, RP - parking, RMW - for **wet surfaces,**N - narrow, M - medium wide, W - wide, L-left, P-right, 0-99 optic numbering, HE-high efficiency + LED type II

5

IP65, **IP66**

6 Protection class

I class **II class**

7 Controls

none
1DIM
2DIM
DALI

DALI

ON/OFF

8 Connector / Sensor

NEMA

NEMA-7P

ZG

ZG-DN

2xZG RCR

9 Impact resistan-

се

IK09, **IK10**

10 Power [W]

Value [W] in steps of 1W

11 Colour

RALxxxx

PI- lacquered interior of

the chambers

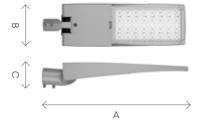


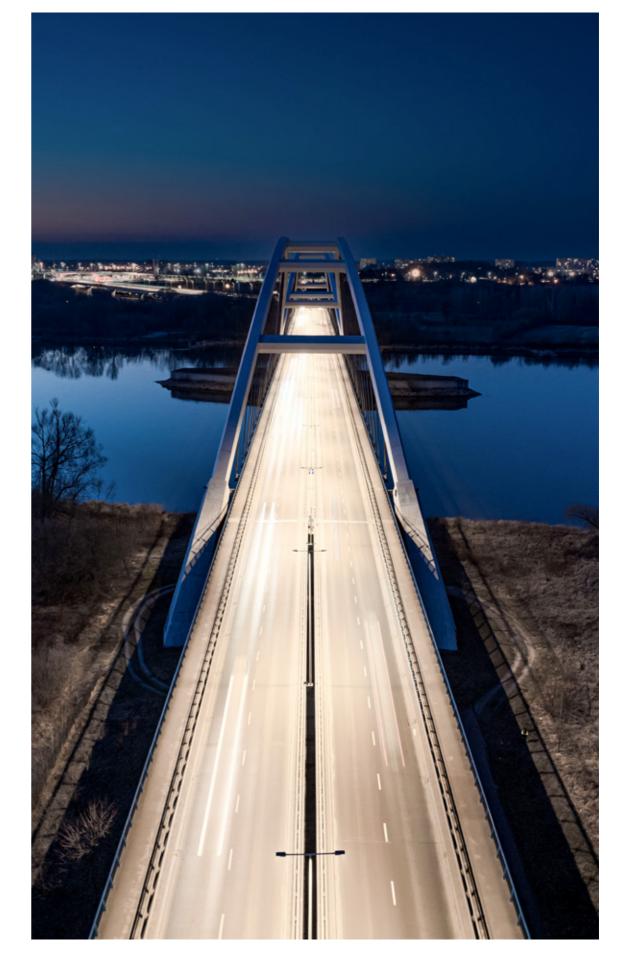
Tiara 2 LED L

Rated power [W]	8 - 330
Luminous flux [lm]	850 - 43375
Mounting method	side to boom, top to pole
body material	high-pressure aluminium powder coated
Body color:	
shade material	glass, tempered glass
type of lampshade	transparent lens
Dimensions [mm]	870/262/122

1P 1K 1m/W 169

- Certificates: ENEC, ENEC+, CE,
 Zhaga (ZD4i)
- Wide range of broadcasts
- High luminous efficiency
- Tool-free access to the attachment chamber
- Compatible with ClueCITY system (NEMA, ZHAGA connectors)
- LED durability: 100,000 h (L90B10)





Road lighting Toruń

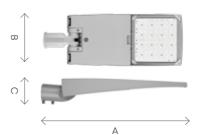


Tiara 2 LED M

Rated power [W]	8 - 175
Luminous flux [lm]	875 - 25925
Mounting method	to pole -30°+30° on the boom -30°+30° on DarkSky boom +10° -0°
body material	powder-coated aluminum
Body color:	RAL
shade material	toughened glass
type of lampshade	transparent lens
Dimensions [mm]	597/265/105

66 10 184

- Tool-free access to the accessory compartment
- Compatible with ClueCITY system
 (NEMA, ZHAGA connectors)
- Thermal protection of the voltage
- Quick disassembly of the opticalelectrical part without removing the luminaire





Pitch angle adjustment

The mounting bracket is attached to housing with two screws, by loosening these screws we have the possibility of adjusting the angle of the housing -30°+30°.



Fast, innovative assembly

Tool-free access to the interior of the Tiara luminaire translates into ease of servicing.



More efficient sources

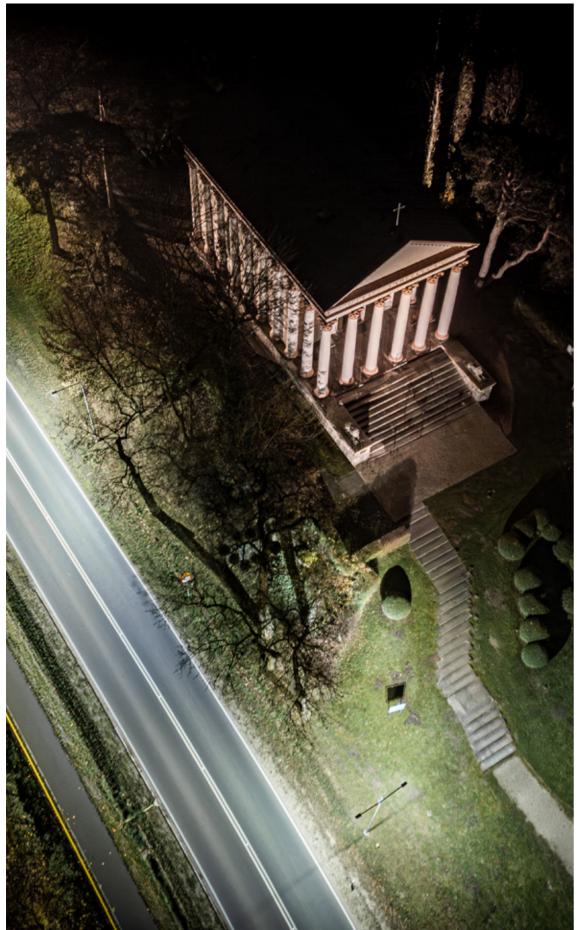
LED lights

The use of even newer and more efficient LED light sources translates directly to higher energy efficiency settings.



Heavy Duty Construction

Tiara 2 LED luminaires are made
of the highest quality materials. Reliable
and resistant to extreme weather conditions.





Lighting Tiara 2 LED S

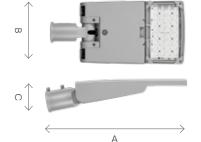


Tiara 2 LED S

Rated power [W]	3 - 109
Luminous flux [lm]	300 - 15600
Mounting method	to pole -30°+30° on the boom -30°+30° on DarkSky boom +10° -0°
body material	high-pressure aluminium powder coated
Body color:	
shade material	toughened glass
type of lampshade	transparent lens
Dimensions [mm]	424/251/105

lm/W 182 10

- Tool-free access to the accessory compartment
- Compatible with ClueCITY system (NEMA, ZHAGA connectors)
- Thermal protection of the voltage
- Quick disassembly of the opticalelectrical part without removing the luminaire





Tiara 2 LED XS

Rated power [W]	3 - 65
Luminous flux [lm]	300 - 9000
Mounting method	to pole -30 to +120 on boom -120 to +30 on DarkSky boom +10° -0°
body material	high-pressure aluminium powder coated
Body color:	
shade material	toughened glass
type of lampshade	transparent lens
Dimensions [mm]	424/186/105

1P | 1K | 1m/W 168

- Tool-free access to the accessory compartment
- Compatible with ClueCITY system
 (NEMA, ZHAGA connectors)
- Thermal protection of the voltage
- Quick disassembly of the opticalelectrical part without removing the luminaire

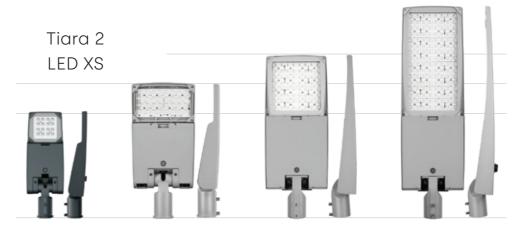




OPTIMIZED DESIGN

TIARA 2 LED XS is an optimized design and smaller overall size, allowing you to illuminate even more efficiently the most popular traffic situations - reducing both CAPEX and OPEX .

High efficiency, the best urban distribution and proven technical solutions enclosed in an optimal body mean lower total costs associated with the modernization of infrastructure, but also translate into a significant reduction in the carbon footprint. It pays off!



LUMINAIRE SIZES



MATERIALS NEEDED FOR PRODUCTION

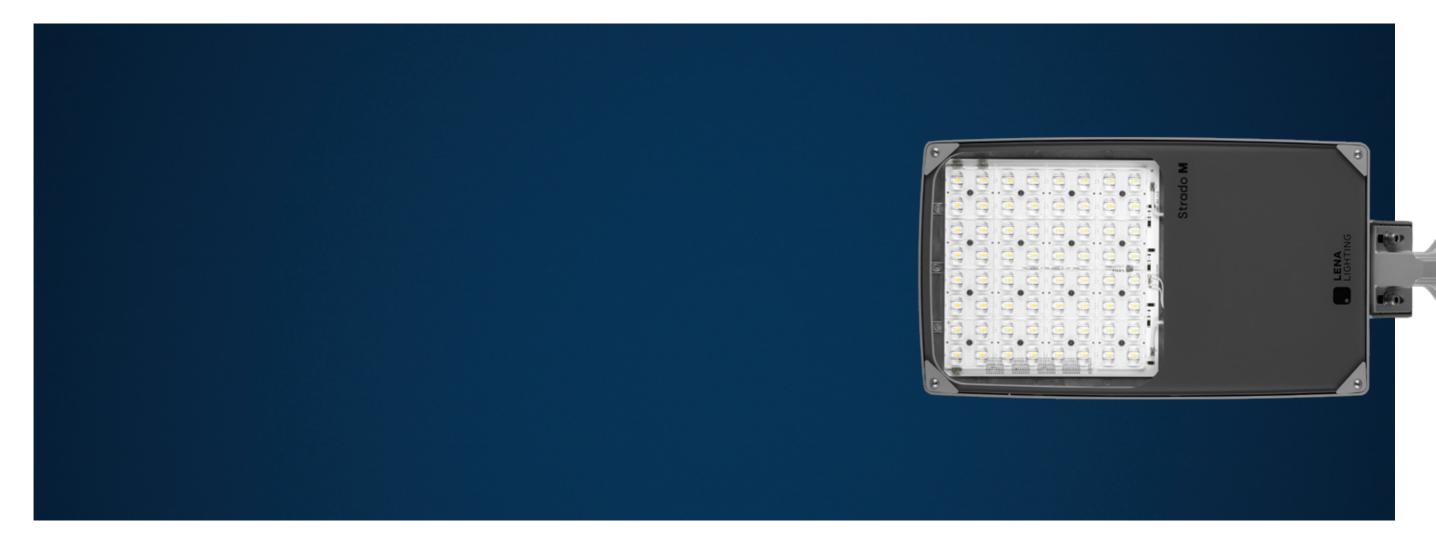








STRADO LED



STRADO LED is a modern family of road luminaires, combining high luminous efficiency, durability, easy service and reliability for years to come.

Thanks to the use of dedicated optics, it is possible to illuminate objects such as: motorways, expressways, national, provincial, poviat, municipal, urban, housing estate, area lighting. Optics are also available to illuminate: pedestrian crossings, sidewalks and bicycle paths.

AVAILABLE VERSIONS



STRADO LED XS 975LM 740 RM7 IP66 II cl. 2DIM IK09 NEMA (8W) RAL7016

1 2 3 4 5 6 7 8 9 10 11

1 Model

STRADO LED XS

STRADO LED S STRADO LED M

2 Luminous flux [lm]

Value in [lm] in steps of 25

3 CRI/CCT

722, 727, 730, 735, **740**, 750, 757,765, 822, 827, 830, 835, 840, 850,857, 865, 922, 927, 930, 935, 940, 950, 957, 965

4 Optics

AS-asymmetrical, R-road, P pedestrian crossings, RP - parking, **RMW - for wet surfaces**, N - narrow, M - medium wide, W - wide, L-left, P-right, 0-99 optic numbering, HE-high efficiency + LED type II

5 **IP**

IP66

6 Protection class

I class **II class**

7 Controls

none 1DIM

2DIM

DALI

ON/OFF

8 Impact

resistance

IK09, **IK10**

9 Connector

NEMA

NEMA-7P ZG none

10 Power [W]

Value [W]
in steps of 1W

11 Colour

RALxxxx

PI- lacquered interior of the chambers



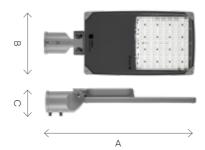


Strado LED M

Rated power [W]	8 - 157
Luminous flux [lm]	975 - 24350
Mounting method	to the pole, on the boom
body material	painted aluminium powder coated
Body color:	
shade material	toughened glass
type of lampshade	transparent
Dimensions [mm]	505/265/60

1P | 1K | lm/W 165

- Components of reputable manufacturers
- Directional multilens PMMA dies
- Programmable with DALI DRIVER
- Constant luminous flux (CLO) function
- 5-stage power reduction
- Thermal protection of the voltage

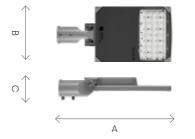


Strado LED S

Rated power [W]	8 - 109
Luminous flux [lm]	975 - 16150
Mounting method	to the pole, on the boom
body material	painted aluminium powder coated
Body color:	
shade material	toughened glass
type of lampshade	transparent
Dimensions [mm]	385/265/60

16 10 165

- Components of reputable manufacturers
- Directional multilens PMMA dies
- Programmable with DALI DRIVER
- Constant luminous flux (CLO) function
- 5-stage power reduction
- Thermal protection of the voltage



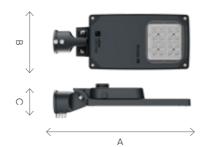


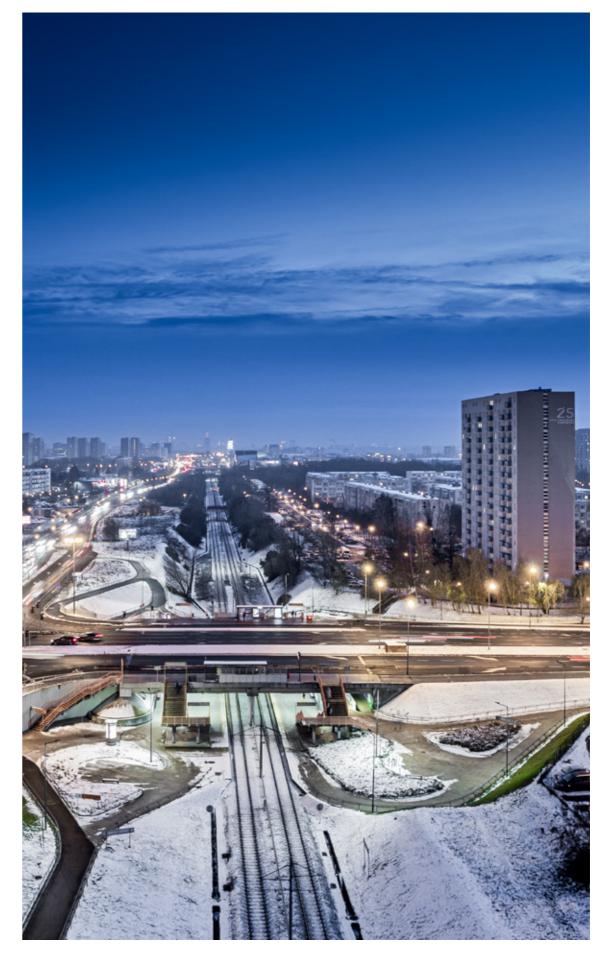
Strado LED XS

Rated power [W]	8 - 54
Luminous flux [lm]	975 - 8275
Mounting method	to the pole, on the boom
body material	painted aluminium powder coated
Body color:	
shade material	toughened glass
type of lampshade	transparent
Dimensions [mm]	449/185/85

1P | IK | lm/W | 165

- Components of reputable manufacturers
- Directional multilens PMMA dies
- Programmable with DALI DRIVER
- Constant luminous flux (CLO) function
- 5-stage power reduction
- Thermal protection of the voltage





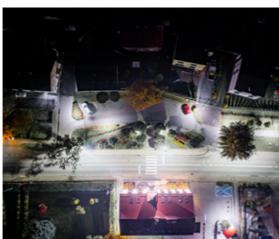
Poznań road lighting











GIERŁATOWICE BRIGHTER AND SAFER

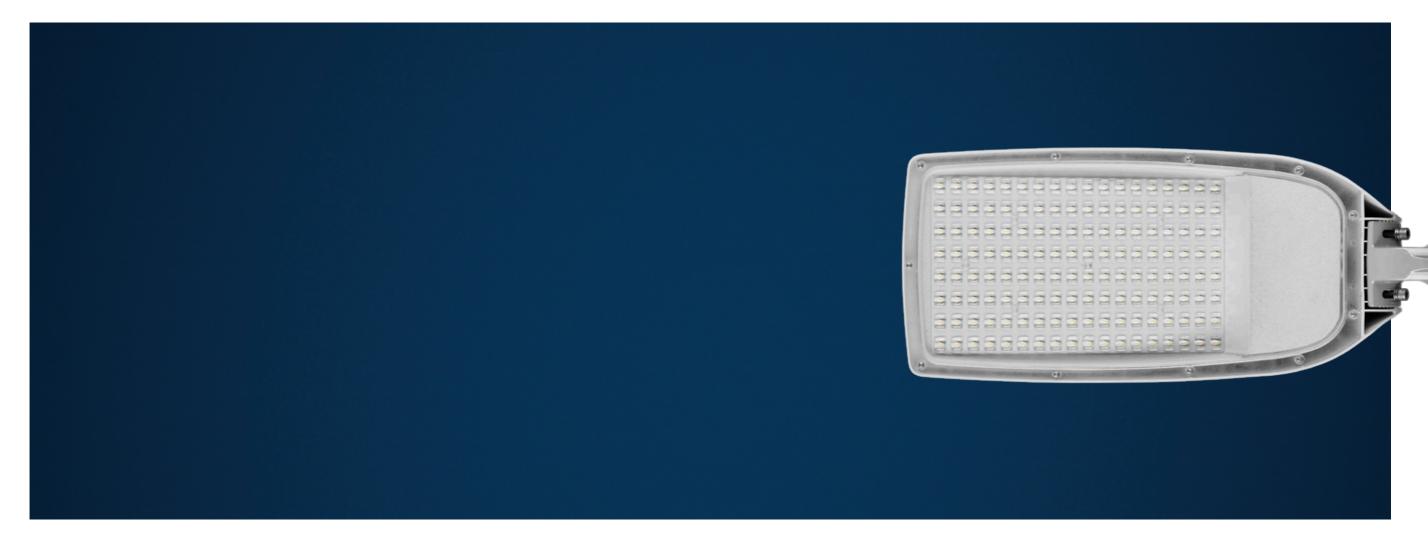
In Gierłatowice, the municipality lit the streets with a new quality of light — thanks to investment in modern road luminaires and an intelligent lighting management system, the municipality is introducing solutions for the future.

Number of luminaires:	1042 pcs.
types of luminaires:	Tiara LED XS Skver LED S R
value of investment:	947,178 PLN
Primary power:	109,353 kW
Power after modernization:	38,256 kW
ROI	<4,1 years
CO ₂ reduction 10 years	169 tonnes

65% of savings

66 08 **₹ (€**

ASTRA LED



ASTRA LED is a modern road luminaire with energy-saving LED module and high luminous efficiency. Integrated quick coupler and power cord allow for easy installation.

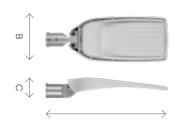
Recommended for use in open areas for lighting: streets, local roads, bicycle paths, alleys, sidewalks, parking lots and squares.



Astra LED

Rated power [W]	17 - 93
Luminous flux [lm]	2100 - 15450
Mounting method	side to boom, top to pole
body material	PP + FG
Body color:	
shade material	PC
type of lampshade	transparent lens
Dimensions [mm]	640/233/113/60 (76)

- Basic and budget version of VD with sequential power supply
- Compact size, low weight
- SP10kV protection
- H07RN-F cable (0.7m)
- Quick connector IP66 quick installation
- Self-cleaning fiberglass (FG) polypropylene body





Quick installation

Thanks to the use of a tight quick connector and a power cable connected to the luminaire, its assembly is more efficient.



Self-cleaning body

Self-cleaning, uniform body made of polypropylene

(PP) reinforced with glass fiber (GF), which
guarantees protection against uV radiation.



Lens matrices

Directional dies are used in the luminaire lenticular (made of PC polycarbonate).



Easy adjustment of the housing inclination

The integrated, adjustable handle allows for setting the luminaire at an angle: -5° to +15° (top mounting, on pole), -5° to +15° (side mounting, on the boom).



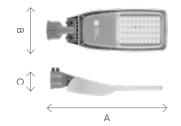


Astra LED S

Rated power [W]	12 - 34
Luminous flux [lm]	2050 - 5500
Mounting method	side to boom, top to pole
body material	PP+15% GF
Body color:	
shade material	PC
type of lampshade	transparent lens
Dimensions [mm]	500/175/75

lm/W 80 66 171

- Self-cleaning body made of polypropylene
- The integrated handle, adjustable in steps of 5 degrees, allows adjustment in the range of: -5° to $+15^{\circ}$ (top, on the pole); -5° to +15° (side, on the boom)
- H07RN-F cable with a length of 0.7 m



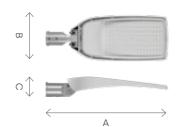
Astra LED S



Astra LED Alu

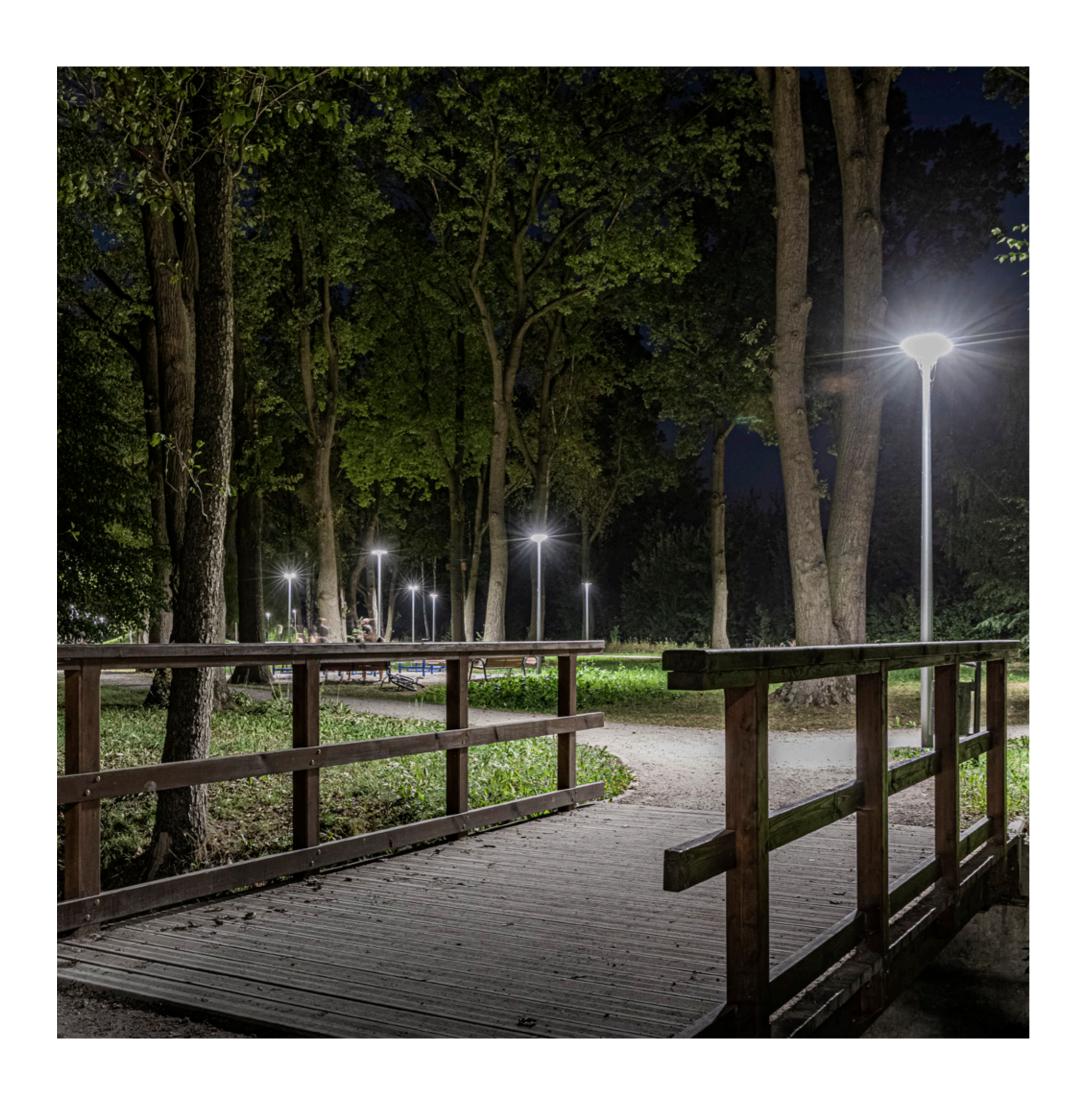
Rated power [W]	17 - 125
Luminous flux [lm]	2100 - 20000
Mounting method	side to boom, top to pole
body material	powder-coated aluminum
Body color:	
shade material	PC
type of lampshade	transparent lens
Dimensions [mm]	640/233/113/60 (76)

- Compact size and lightweight design
- SP10kV surge protection
- H07RN-F cable, length 0.7 m
- Quick connector IP66 for quick installation
- Self-cleaning aluminium body





The use of Astra LED Alu luminaires



PARK-URBAN LIGHTING















A number of modern solutions, significantly expanding the possibilities of park and urban luminaires. These luminaires can be modified with the help of a dozen or so canopies changing the light distribution and design. The modular design used makes daily service and maintenance easier than ever!





Tool-free access to attachments

To access the electrical and optical components, simply unscrew two screws without using any tools and open the housing cover.



Omnidirectional and lenticular variants

The Skver LED luminaire can be equipped with both omnidirectional lighting modules and targeted sensors equipped with lenses.



Knife disconnect switch

Knife disconnector used in some versions cuts the power supply to the luminaire when the lid is opened. Thanks to this, the person making the modification is fully protected.



No pollution effect and play

Skver luminaires, whose ULOR = 0 or ULOR <
1 coefficient was created in the spirit of the
Nature Centric Lighting concept, with a view
to the ecology and safety of both humans and
animals.

AVAILABLE VERSIONS





Skver LED S (A)

Rated power [W]	16 - 54
Luminous flux [lm]	2100 - 7400
Mounting method	post
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	427/360/360

16 10 145

- Universal park light distribution with all-round lighting
- Increased CRI80 color rendering index
- Simple installation on poles fi 48–76, 1.5 m cable as standard





Skver LED S (F)

Rated power [W]	8 - 54
Luminous flux [lm]	1125 - 7400
Mounting method	post
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	427/360/360

6 10 159

- Omni-directional and targeted distributions to match lighting to a variety of spaces
- Available CRI70 and elevated
 CRI80 versions
- Tool-free access to the attachment chamber significantly facilitating operation and service







Skver LED S (L)

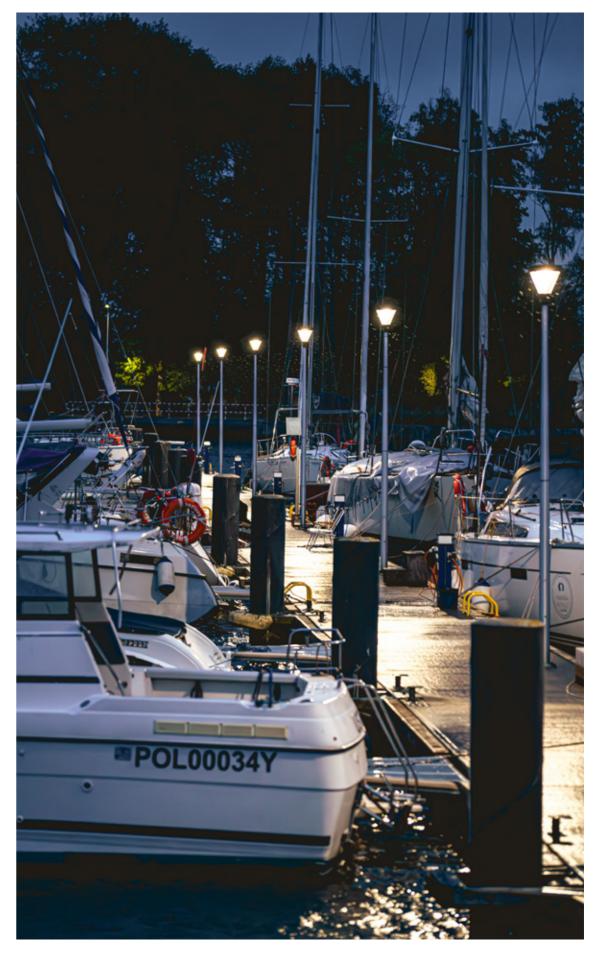
Rated power [W]	14 - 54
Luminous flux [lm]	2150 - 7650
Mounting method	post
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	427/360/360
	·

16 10 159

- Omni-directional and targeted broadcasts adapted to illuminate parks, streets and urban spaces
- Available CRI70 and elevated
 CRI80 versions
- Tool-free service plate compliant with ZhagaBook13/15 standard for faster service







Skver LED lighting in the port



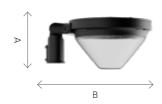


Skver LED S (Z1 WJ)

Rated power [W]	8 - 54
Luminous flux [lm]	1075 - 7650
Mounting method	post
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	461/360/216

66 10 1 lm/W

- Urban design of the luminaire giving the space a modern twist
- and aesthetic character
- Architectural quality of workmanship for durability and attractive appearance
- Tool-free service plate in ZhagaBook13/15 standard for easy service





Skver LED S (Z1 MF)

Rated power [W]	8 - 54
Luminous flux [lm]	975 - 7025
Mounting method	post
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	461/360/188
	,,

6 10 156

- Round luminaire with an urban design, distinguished by its elegant form and total ULR = 0
- Architectural quality of workmanship allowing for aesthetic integration into the space
- Adjustable mounting bracket for installation on poles and booms fi 48-76









Skver LED S (Z2 WJ)

Rated power [W]	8 - 54
Luminous flux [lm]	1075 - 7650
Mounting method	post
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	386/360/476

66 10 1 170

- Distinctive urban luminaire design
- Architectural workmanship for reliability and a sleek look
- Tool-free service plate compliant with the ZhagaBook13/15 standard facilitating technical work



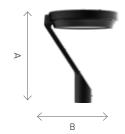


Skver LED S (Z2 MF)

Rated power [W]	8 - 54
Luminous flux [lm]	975 - 7025
Mounting method	post
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	386/360/476
2 2	

6 10 156

- Modern urban luminaire design,ULR = 0
- Architectural workmanship for durability and high product aesthetics
- Tool-free service plate compliant with ZhagaBook13/15 standard for simple service









Skver LED S (R WJ)

Rated power [W]	13 - 54
Luminous flux [lm]	1700 - 7650
Mounting method	suspended
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	316/363/363

16 1 1K | lm/W 163

- Architectural workmanship for an aesthetic look in urban space
- Omni-directional and targeted distributions offering versatility in applications
- Tool-free service plate in ZhagaBook13/15 standard facilitating service work

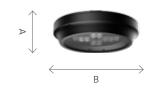


Skver LED S (R MF)

Rated power [W]	19 - 50
Luminous flux [lm]	2250 - 6700
Mounting method	suspended
body material	Aluminium (powder coated)
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	427/360

6 10 138

- Architectural workmanship,ULR = 0
- Omni-directional and targeted distributions to match the lighting effect to the installation site
- Tool-free service plate in ZhagaBook13/15 standard facilitating service work





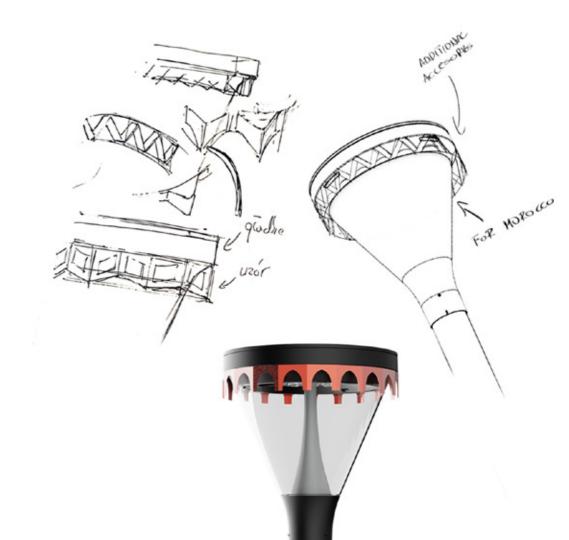
BESPOKE VARIANTS





Skver road luminaires in the Bespoke version are synonymous with an individual approach and the highest quality. In the catalogue, we present many ready-made variants that make it easier to choose the perfect solution. For customers looking for unique solutions, we have also prepared the Bespoke offer, allowing you to fully adjust the luminaire to the needs of the project.

Each project is created in close cooperation with the customer, fully taking into account their expectations and the specificity of the place where the luminaires will be used.





SKVER Backshield RAL9005



435522 SKVER Hood example 1 RAL9005



421518 SKVER Hood ULR example 2 RAL9005



449017 Drilling Jig



804427 SKVER R adapter male thread M20x40 (stroke 2.5)



804328 SKVER R male adaptor thread ¾ in x 40 (gas)



804434 SKVER R male adapter thread 1 inch x40 (gas)



SKVER R 3/4 "x 40" female thread adapter (gas)



SKVER R female thread adapter 1 inch x40 (gas)



804571 SKVER external adapter fi48



804588 SKVER external adapter fi60

ACCESSORIES TRAPPINGS

SKVER S.L.7100lm,840,RM7,IP66,II cl.,DALI,ZG,B,0 (50W)

1 Model

Skver LED S

2 Version

A Inseparable version

F Detachable version

L Removable version with knife switch

R Suspended version

Z1 Inseparable version "7"

Z2 Detachable version with knife switch "7"

3 Luminous flux [lm]

Value in [lm] in steps of 5

4 CRI/CCT

722 724 727 730 735 740 750 757 822 824 827 830 835 **840** 850 857 857

5 Optics

AS-asymmetrical, R-road, P pedestrian crossings, RP - parking, RMW - for wet surfaces, N - narrow, M - medium wide, W - wide, L - left, P - right, 0-99 optic numbering, HE - high efficiency + LED type II

6 **IP** IP66

7 Protection class

II cl.

8 Controls

1DIM

Dim DALI

9 Connector / Sensor

NEMA

ZG ZHAGA

RCR

10 Colour

B black

G grey W White

RALxxxx

11 Accessories

0 No Aperture

1 with Aperture No. 1 2 with Aperture # 2 3 with Aperture # 3

12 Power

Value [W] in steps of 1W





CASE STUDY

Darłowo

734
SKVER F, L and R, TIARA 2 LED S
873,838 PLN
54,7 kW
17,45 kW
< 3,6 years
1046 tonnes

68% of savings

163k PLN savings/year







PREMIERES COMING SOON

SKVER LED PRO – a new, improved version of the valued SKVER street luminaire. The new model is a response to the growing requirements in terms of efficiency, durability.

SKVER LED PRO offers more power, higher luminous efficiency and a modern design optimized for operation in demanding outdoor conditions. The applied optical and electronic solutions provide excellent lighting parameters with even lower energy consumption.

It is a proposition for investors looking for reliable, efficient and future-oriented lighting of streets, parking lots and public spaces. SKVER LED PRO – the next step towards a smart, energy-efficient city.















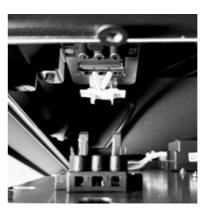
Constelia LED is an elegant park-urban luminaire that combines classic design with modern technology. Thanks to its multi-variant design solutions, it fits perfectly into a variety of urban spaces, offering the flexibility to adapt to any architecture.





NEMA/Zhaga connector

To reach electrical components and optical ones are enough without the use of tools remove the two screws and open the housing cover.



Knife disconnect switch

Knife disconnector used in some versions cuts the power supply to the luminaire when the lid is opened. Thanks to this, the person making the modification is fully protected.



4 colour temperatures

2200K

2700K

3000K

4000K



3 types of lampshade

frosted

milky white

transparent



Constelia LED R

Rated power [W]	8 - 76
Luminous flux [lm]	975 - 10650
Mounting method	post
body material	Aluminium (powder coated)
Body color:	
shade material	toughened glass
type of lampshade	transparent
Dimensions [mm]	425/425/827

- Built-in knife disconnector for easy and safe operation
- Quick module replacement without disassembly and soldering
- Heavy Duty Enclosure IP66, IK09, Powder Coated
- Options: DALI, ZHAGA, CLO, SP10kV, RAL





Constelia LED, Darłowo





ROAD AND PARK LIGHTING



Constelia LED R

Rated power [W]	8 - 76
Luminous flux [lm]	975 - 10650
Mounting method	suspended
body material	Aluminium (powder coated)
Body color:	
shade material	toughened glass
type of lampshade	transparent
Dimensions [mm]	425/425/765

1P 1K 1m/W 150

- Stylized and durable LED parkurban luminaire
- Quick module replacement without disassembly and soldering
- Rugged housing IP66, IK09, powder coating
- Options: DALI, ZHAGA, CLO, SP10kV, RAL



SOLUTIONS TRAINING



Altezzo and Mitra LED luminaires provide a new dimension of functionality and visual layer of the environment. Additional mounting elements and modern control systems increase the flexibility of their applications. Such solutions emphasize the modern character of the lamps, while increasing the comfort of use and energy efficiency of the infrastructure.

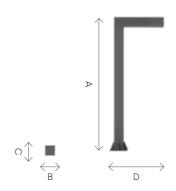


Altezzo L100 / L150

Rated power [W]	6 - 82
Luminous flux [lm]	650 - 10700
Mounting method	on the foundation
body material	aluminium
Body color:	
shade material	PC
type of lampshade	transparent lens
Dimensions [mm]	600, 900, 1200, 1500/100/40/200, 2500, 3000, 3500, 4000, 5000/150/150/800

55	09	122
IP	IK	lm/W

- Customizable height
- From low pole luminaires to 6m poles
- Beam angle 110°
- Various streams and broadcasts
- Operating at -30°C to +50°C and harsh environments



CUSTOMIZATION

The design of Altezzo L provides for the possibility of customizing the lamp in accordance with the guidelines of the designer or architect. The lamp element comprising the light module may be directed parallel to the illuminated plane or at an angle.

In addition, the profile itself may fork, which increases the possibilities of arrangement.

Thanks to the option of customizing the height – from low post luminaires to 6 m poles

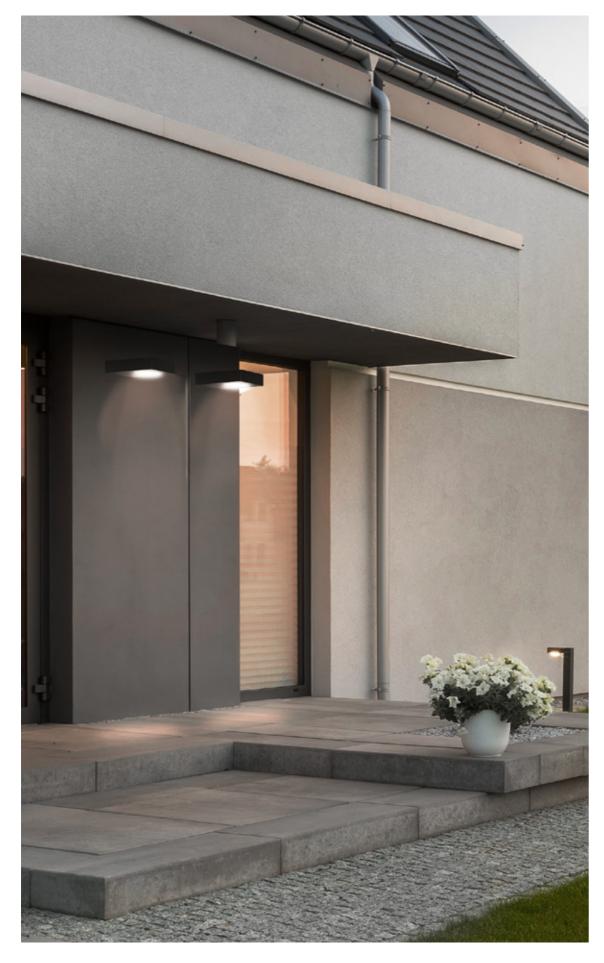
– the solution works in many types of space. As a result, as many as four elements with
a light module can be mounted on one post, one on each plane, at the same or different
heights.











Altezzo L 100 K lighting on the facade of the building



Altezzo L100K / L150K

Rated power [W]	5 - 40
Luminous flux [lm]	600 - 5200
Mounting method	on the facade
body material	aluminium
Body color:	
shade material	PC
type of lampshade	PMMA lens
Dimensions [mm]	40/100/250

IP	IK	lm/W
55	08	130

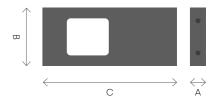
- The lamps are designed

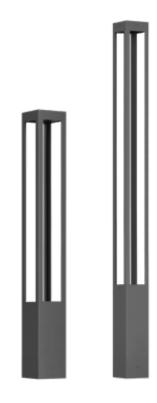
 to work in very low and high

 temperatures from -30°C to

 +50°C and in difficult weather

 conditions
- No light pollution effect



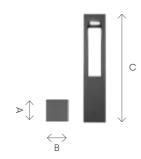


Altezzo A120 / A150

Rated power [W]	8 - 42
Luminous flux [lm]	850 - 4000
Mounting method	on the foundation
body material	aluminium
Body color:	
shade material	PC
type of lampshade	transparent lens
Dimensions [mm]	120/120/600, 900, 1200, 1500 150/150/600, 900, 1200, 1500, 2000, 2500, 3000

65 | 1K | lm/W | 109

- They can work in very low and high temperatures
- The light module consists
 of high durability LEDs with
 a durable polycarbonate screen
- They will work well in parks and gardens for illuminating small architecture





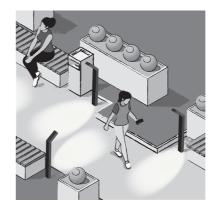
Damage resistance mechanical

The profile of Altezzo lamps is durable on impacts IK09 / IK08.



Different angles of light

The lamp element comprising the light module may be directed parallel to the illuminated plane or at an angle.



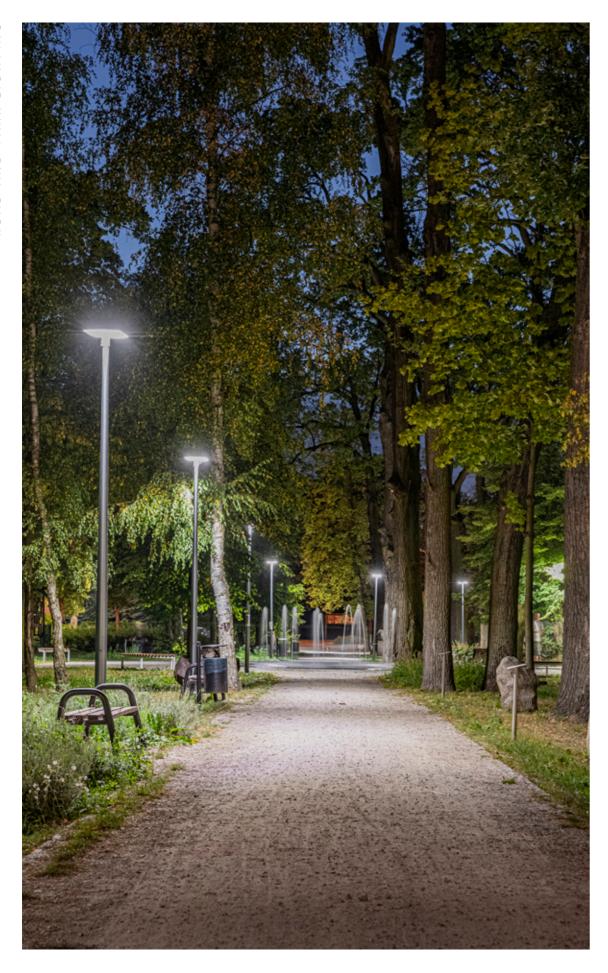
Altezzo low lamps

They will perfectly fit into the garden infrastructure and park. They will precisely illuminate the path and selected elements of small architecture, without causing the effect of light pollution.



Durability

The light module consists of LEDs with a durability of up to 196,000 h.



Mitra LED luminaires in the park

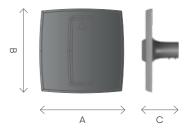


Mitra LED

Rated power [W]	13 - 62
Luminous flux [lm]	1550 - 7250
Mounting method	gable to pole
body material	PP + FG
Body color:	
shade material	PC
type of lampshade	transparent lens
Dimensions [mm]	398/398/175

6 07 132

- Two types of shade iridescent and transparent
- Over Voltage Protection
- Cable H07RN-F 0.6m
- Smooth, dirt-resistant surface
- The use of a tight IP66 quick connector allows for instant assembly





LIGHTING TRAINING



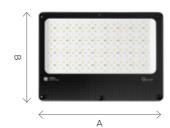


Quest LED EVO L

Rated power [W]	81 - 297
Luminous flux [lm]	14550 - 48900
Mounting method	surface-mounted, suspended
body material	aluminium
Body color:	
shade material	Tempered glass
type of lampshade	transparent
Dimensions [mm]	550/434/57

57 | 10 | lm/w 191

- Wide range of power and light distribution (including asymmetrical)
- Resistance to extreme humidity, dust and high temperatures
- Meets the requirements of PN-EN 60598-2 part 5, resistance to strong wind

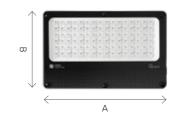


Quest LED EVO M

Rated power [W]	56 - 185
Luminous flux [lm]	9950 - 29550
Mounting method	surface-mounted, suspended
body material	aluminium
Body color:	
shade material	Tempered glass
type of lampshade	transparent
Dimensions [mm]	550/383/57

7 | 1K | lm/W 189

- Wide range of power and light distribution (including asymmetrical)
- Resistance to extreme humidity, dust and high temperatures
- Meets the requirements of PN-EN 60598-2 part 5, resistance to strong wind



96



Quest LED EVO XS

Rated power [W]	20 - 56
Luminous flux [lm]	2800 - 9000
Mounting method	surface-mounted, suspended
body material	aluminium
Body color:	•
	_
shade material	Tempered glass
shade material type of lampshade	Tempered glass transparent

57 | 10 | lm/w 171

- 7.5° graduated steel arm attached to the body
- Die-cast aluminium body in corrosion class C5
- A wide selection of optics, including asymmetric, providing great freedom of configuration
- Tight quick coupling
- Meets the requirements of PN-EN60598-2 part 5 per floodlight





Quest LED Evo XS in the warehouse



Lighting of the Słotwiny Arena ski slope

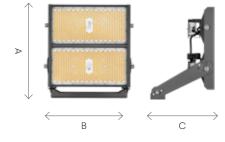


Factor LED

Rated power [W]	101 - 1124
Luminous flux [lm]	14600 - 150800
Mounting method	on a pole, for a construction partition, flat surface, boom
body material	Aluminium (powder coated)
Body color:	
shade material	Tempered glass
type of lampshade	lens matrix transparent
Dimensions [mm]	191/425/217, 385/425/340, 580/425/340, 774/425/340

lm/W 09 158

- Premium economic efficiency
- High tightness IP66 and impact resistance IK09
- Passive lamp cooling system
- Ability to work at elevated temperatures



ROAD AND PARK LIGHTING



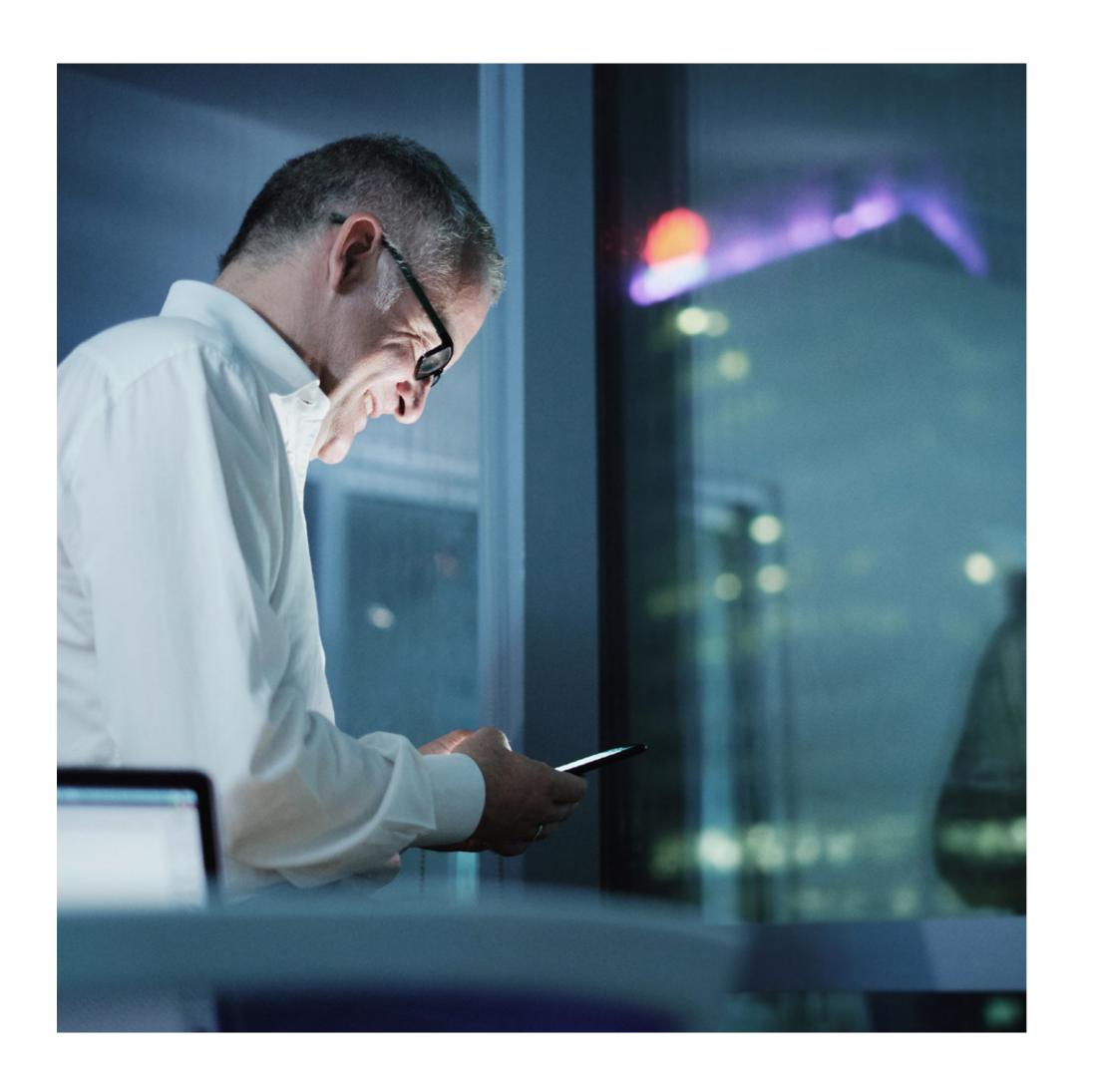
Solar systems

SOLAR MODULE

lifetime	25 years
guarantee	12 years
power	up to 400Wp
IP protection tops	IP68
capacity	20 - 50%
operating tempera- ture	-40°C to +85°C

FIXTURE

degree of protection	IP66
impact resistance	IK09
rated power of the device [W]	3 - 65
luminous flux [lm]	500 - 10500
temperature coloured [K]	2200 - 5700
CRI/Ra	>70



SMART CONTROLLING THE LIGHT

$C \mid T \mid \forall$

Programming in the driver

- Cheapest way to control lighting
- No additional components, just the right DALI DRIVER
- Possibility to add motion sensors





LIGHT UNDER CONTROL

Power reduction control

- Economical and simple solution
- Possible installation of components inside the distribution box
- Alternatively, mounting the modules in a NEMA connector

ICU2 (U6Me2 protocol)

- No subscription or settlement fees
- No need for additional controllers and controllers in luminaires
- Remote control via Gateway in the control cabinet
- Access from iOS and Android apps

LENA LIGHTING

- No subscription or settlement fees
- Control from iOS and Android apps
- Possibility of mounting light and motion sensors
- Remote control via Gateway in IP67 box

Lena Lighting Clue City +

- Independent control and grouping of luminaires
- Alert and inventory system with marking of luminaires for service
- Navigation to service points
- On-premises or certified cloud operation





Clue is a flexible street lighting management system that adapts to the specifics of each municipality and city – from small towns to modern metropolises.

The Clue system is distinguished by its flexibility and adaptability to the needs different users. The IoT department creates solutions that work with other urban systems, and a well-thought-out architecture reduces costs – thanks to SIM cards only in gateways or working in a mesh network without fees. ClueCITY+ will work in large cities requiring advanced control, and ClueCITY with a gateway – in smaller municipalities with distributed infrastructure. It is a modern and economical lighting for every local government.