



LUMENIA
STREET



INNOVATIVE PUBLIC LIGHTING

Smart street lighting
for a safe, attractive and
sustainable environment.





INNOVATIVE PUBLIC LIGHTING

Smart street lighting
for a safe, attractive and
sustainable environment.

LUMENIA STREET

Excellent street lighting for safer roads, harmonious park illumination and attractive cities.

LUMENIA STREET selection consists of high-tech LED luminaires, designed for illuminating all types of streets, car parks and other public and private outdoor areas. Modern design integrates very well into urban space. The luminaires are made from modern high-tech materials, and their exceptional efficacy of up to 145 lm/W helps you lower the operating and maintenance costs. Our in-house R&D enables us to quickly adjust our products to local requirements.

EXCELLENCE

With state-of-the-art technology and our own research and development facility, LUMENIA delivers high-quality and long-lasting LED lighting solutions with the highest energy efficiency.

LONG LIFE

LUMENIA luminaires are designed and manufactured following the strictest quality policies and using the best materials. This enables them to withstand the most difficult weather conditions during their lifespan of more than 100,000 hours.

WIDE SELECTION

With the aim of meeting all urban, road and street lighting needs, LUMENIA provides a wide product selection with luminous flux options varying from 1,000 to 27,000 lumens.

HIGH EFFICACY

Efficacy of up to 145 lm/W* puts LUMENIA lights in the high-efficiency range, providing its customers with high energy savings and, paired with competitive pricing, a short payback period.

*depends on CCT & CRI





Pedestrian areas



U LUM S LUM MINI

Streets



E LUM 1 S LUM 1

Roads & highways



E LUM 2 S LUM 2

S LUM

S LUM LED luminaire is our star energy-efficient product for street lighting with screwless design. It's core advantage lies in a significant reduction of energy and installer friendly maintenance.

MAIN FEATURES

- System efficacy of up to 145 lm/W*
- Easy and quick installation
- Tuneable lumen output
- Modular construction
- IoT compatible
- 2 different performance packages (standard and premium)

FLEXIBILITY

Our programmable drivers give lighting designers complete freedom in combining luminous flux options and optical solutions for different environments.

- Tuneable lumen output
- Multiple optics
- Various CCT options

DURABILITY

With excellent thermal management and integrated surge protection, our lights can survive even the harshest conditions for many years.

- Optional surge protection – SPD level of 10 kV / 10 kV (up to 20 kV)
- Lifetime of more than 100,000 h
- Overheat protection
- Wind and vibrations resistant
- Powder-coating for high protection (i.e. saline environment)

MECHANICAL FEATURES

Innovative design allows you to maintain and replace key component without any tools or screws.

- Ingress protection level of IP66
- Impact protection level of IK09
- Tool-less entry – a quick access latch
- Screw-less maintenance
- Die-cast aluminium housing
- Thermal management
- Modular construction

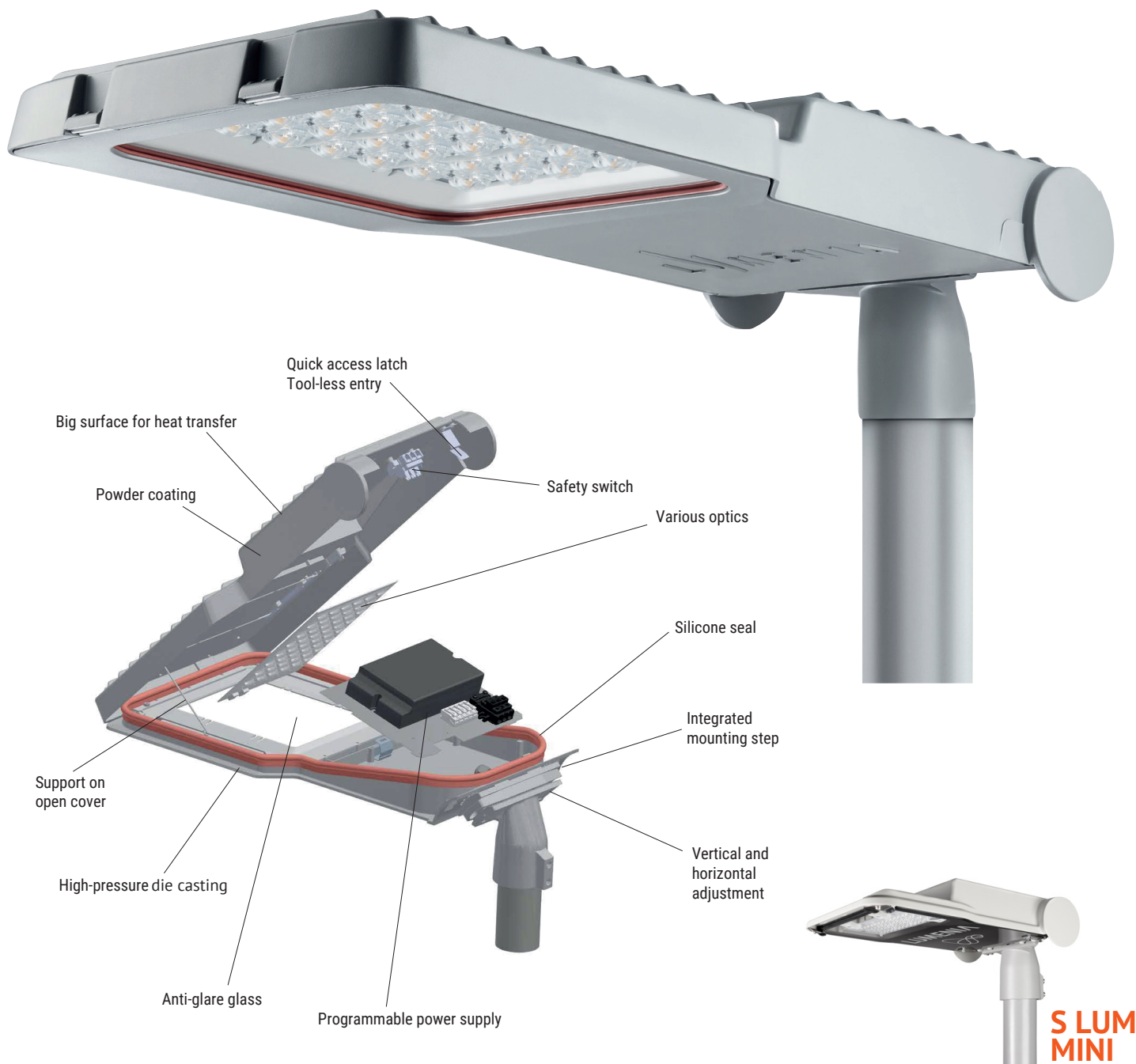
SMART

The integrated fully programmable driver helps you further reduce energy consumption. Additional remote controls allow you to connect LUMENIA luminaires to any Central Management System.

- Constant Light Output
- Dynadimmer 5-level dimming
- DALI or 1–10 V
- RF & PLC compatible with Nema sockets



*depends on CCT & CRI



APPLICATION AREAS



STREETS



URBAN
AREAS



ROADS



MOTORWAYS



PARKING AREAS



PEDESTRIANS CROSSINGS

FEATURES



PLC REMOTE
MANAGEMENT



RF REMOTE
MANAGEMENT



ECO
DESIGN



PROGRAMMABLE
POWER SUPPLY



5-YEAR
WARRANTY



SCREWLESS
MAINTENANCE



LOWER CO₂
EMISSIONS



LIGHT POLLUTION
ELIMINATION

E LUM

E LUM is a high-tech street LED luminaire with a modern, extremely thin, aerodynamic design that integrates seamlessly into all types of public and private outdoor areas, as well as with all types of roads.

MAIN FEATURES

- System efficacy of up to 140 lm/W*
- Aesthetic design
- Tuneable lumen output
- Modular construction
- IoT compatible
- 3 different performance packages (economy, standard and premium)

FLEXIBILITY

Our programmable drivers give lighting designers complete freedom in combining luminous flux options and optical solutions for different environments.

- Tuneable lumen output
- Multiple optics
- Various CCT options

DURABILITY

With excellent thermal management and integrated surge protection, our lights can survive even the harshest conditions for many years.

- Optional surge protection – SPD level of 10 kV / 10 kV (up to 20 kV)
- Lifetime of more than 100,000 h
- Overheat protection
- Wind and vibrations resistant
- Powder-coating for high protection

MECHANICAL FEATURES

The innovative, extremely thin aerodynamic design ensures natural air circulation and exceptional heat transfer.

- Ingress protection level of IP66
- Impact protection level of IK09
- Die-cast aluminium housing

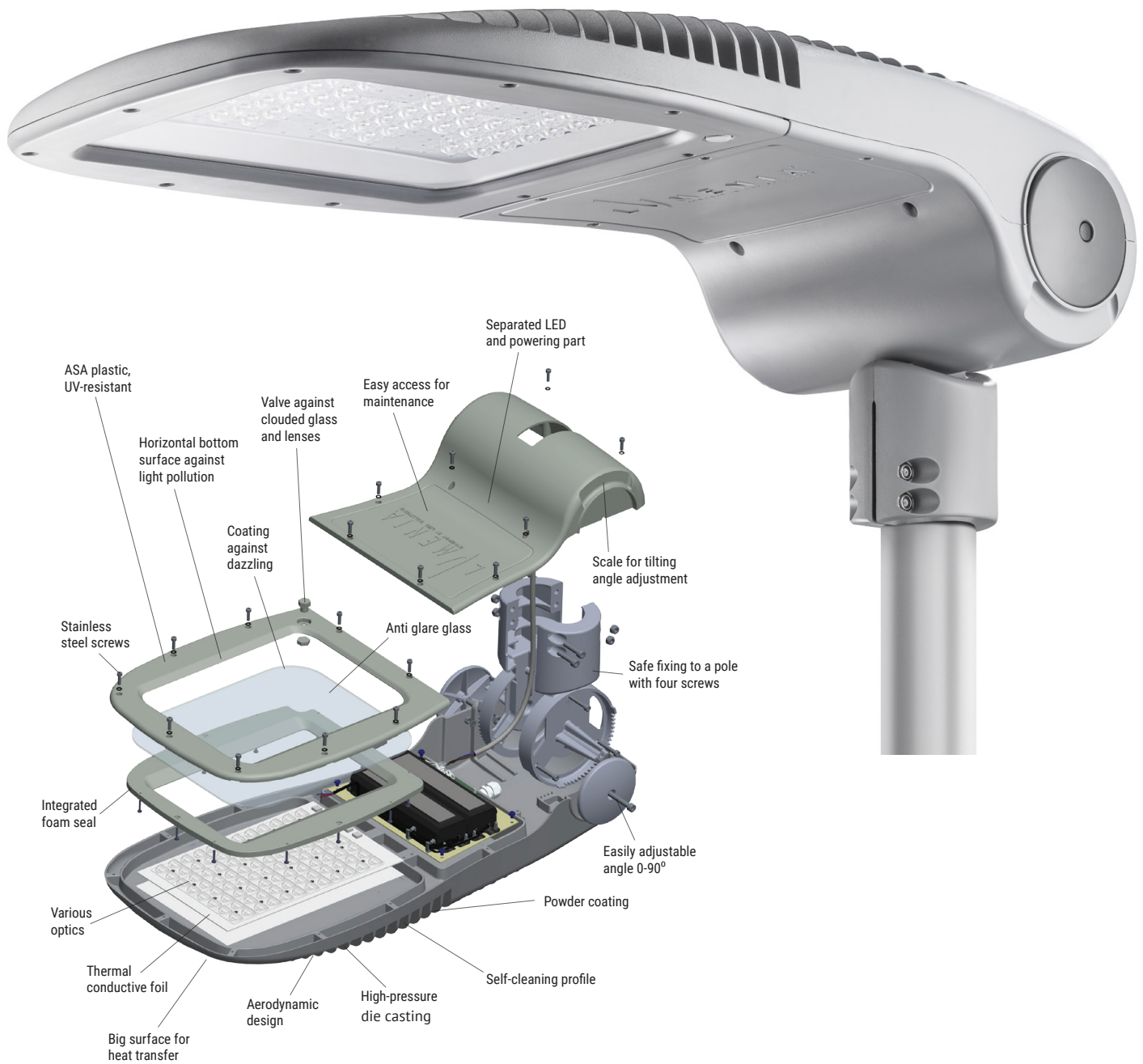
SMART

The integrated fully programmable driver helps you further reduce energy consumption. Additional remote controls allow you to connect LUMENIA luminaires to any Central Management System.

- Constant Light Output
- Dynadimmer 5-level dimming
- DALI or 1–10 V
- RF & PLC compatible with Nema sockets



*depends on CCT & CRI



APPLICATION AREAS



STREETS



URBAN
AREAS



ROADS



MOTORWAYS



PARKING AREAS



PEDESTRIANS CROSSINGS

FEATURES



PLC REMOTE
MANAGEMENT



RF REMOTE
MANAGEMENT



ECO
DESIGN



PROGRAMMABLE
POWER SUPPLY



5-YEAR
WARRANTY



LOWER CO₂
EMISSIONS



LIGHT POLLUTION
ELIMINATION

E LUM SOLAR

Caring for the environment has led us to create a system for street lighting that uses 100% renewable energy - the sun. The best battery on the market makes it utterly reliable and extends its service life.

MAIN FEATURES

- System autonomy for up to 30 h
- Automated ON/OFF switching
- Automated dimming during the night, according to battery's SOC
- MPPT charging function
- Manual dimming during the night
- Programming and monitoring via Bluetooth
- Solar panel's vertical angle adjustable from 20° to 40°
- Horizontally adjustable solar panel with 360° rotation

SMART

The integrated battery charger programmable via Bluetooth supports automated dimming and gives you flexibility in setting the dimming schedules.

- Management via Bluetooth
- 5-level dimming
- Automated dimming by night based on the battery's state of charge (SoC)
- System monitoring

FLEXIBILITY

The controls programmable via Bluetooth give lighting designers complete freedom in combining luminous flux options and optical solutions for different environments.

- Tuneable lumen output
- Multiple optics
- Various CCT options
- Programming and monitoring via Bluetooth

DURABILITY

Due to excellent battery management and its technology, our system has a lifetime three times longer than the others.

- Battery bank lifetime of 7,000 cycles
- High protection: overheat protection of the battery bank
- Maximum power point tracking
- Powder coating for high protection

MECHANICAL FEATURES

The innovative design allows you to adjust angles in order to maximize the system's performance and light.

- Ingress protection level of IP66 for electronic parts
- Impact protection level of IK09
- Die-cast aluminium housing for the luminaire
- Steel construction
- Horizontally and vertically adjustable solar panel
- Thermal management





Remote programming
and monitoring
application – Bluetooth

APPLICATION AREAS



BIKEWAYS



OFF-GRID



PARKS



PARKING
AREAS



RESIDENTIAL
AREAS



URBAN
AREAS



BUS STOPS

FEATURES



BLUETOOTH
REMOTE
MANAGEMENT



ECO
DESIGN



PROGRAMMABLE
POWER SUPPLY



5-YEAR
WARRANTY



LOWER CO₂
EMISSIONS



LIGHT POLLUTION
ELIMINATION

U LUM

The inspiring design of the U LUM LED luminaire makes urban areas more appealing and inviting by creating a feeling of harmony and a unique visual experience.

MAIN FEATURES

- System efficacy of up to 130 lm/W*
- Modern, futuristic design
- Overheat protection
- Tuneable lumen output

FLEXIBILITY

Our programmable drivers give lighting designers complete freedom in combining luminous flux options and optical solutions for different environments.

- Tuneable lumen output
- Various CCT options

DURABILITY

With excellent thermal management and integrated surge protection, our lights can survive even the harshest conditions for many years.

- Surge protection – SPD level of 10 kV / 10 kV
- Lifetime of more than 100,000 h
- Overheat protection
- Wind and vibrations resistant
- Powder-coating for high protection

MECHANICAL FEATURES

- Ingress protection level of IP66
- Impact protection level of IK09
- Die-cast aluminium housing
- Thermal management

SMART

The integrated fully programmable driver helps you further reduce energy consumption. Additional remote controls allow you to connect LUMENIA luminaires to any Central Management System.

- Constant Light Output
- Dynadimmer 5-level dimming
- DALI or 1–10 V
- PLC compatible
- Additional sensor upgrades
- Time-dependent luminous flux control
- Constant luminous flux



*depends on CCT & CRI



APPLICATION AREAS



URBAN
AREAS



PARKS
GARDENS



RESIDENTIAL
AREAS



PEDESTRIAN
PATHS



PARKING
AREAS

FEATURES



ECO
DESIGN



PROGRAMMABLE
POWER SUPPLY



5-YEAR
WARRANTY



LOWER CO₂
EMISSIONS



LIGHT POLLUTION
ELIMINATION

T LUM

The T LUM LED retrofit module is an excellent solution for communities aiming to convert their existing lighting systems and keep the traditional look of their downtown districts. It is affordable and can be used on new or existing lighting fixtures to improve your impact on the environment. The module meets both old and new IES criteria for uplight minimization.

MAIN FEATURES

- System efficacy of up to 80 lm/W*
- Overheat protection
- Easy to install
- Use with E27

MECHANICAL FEATURES

- Ingress protection level of IP65
- Beam angle of 130°
- Die-cast aluminium housing



*depends on CCT & CRI



APPLICATION AREAS



PARKS
GARDENS



RESIDENTAL
AREAS



PEDESTRIAN
PATHS

FEATURES



ECO
DESIGN



PROGRAMMABLE
POWER SUPPLY



5-YEAR
WARRANTY



LOWER CO₂
EMISSIONS



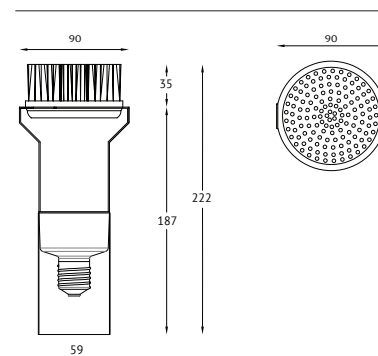
LIGHT POLLUTION
ELIMINATION

KEY CHARACTERISTICS

Model	S LUM	E LUM	U LUM	T LUM
Supply voltage	220-240 VAC	220-240 VAC	220-240 VAC	110-230 VAC
System power	S LUM 1: 10, 25, 40 W S LUM 2: 60, 80, 120 W S LUM Mini: 10, 20, 30 W	E LUM 1: 10 to 80 W E LUM 2: 80 to 220 W	10 to 40 W	15 to 20 W
CRI	>70 (80 optional)	>70	>80	>70
Standard CCT	4,000 K, other CCT optional	4,000 K, other CCT optional	4,000 K, other CCT optional	3,000 K, 4,000 K
Luminous flux	1,180-16,800 lm	1,450-27,000 lm	1,300-5,200 lm	1,104-1,522 lm
Tunable lumen output	✓	✓	✓	/
Efficacy*	Up to 145 lm/W	Up to 140 lm/W	Up to 130 lm/W	Up to 80 lm/W
Number of different optics	8	8	1	1
Lifetime	L80B10 > 100,000 h L90B10 > 100,000 h (Premium)	L80B10 > 65,000 h (Economy & Standard) L80B10 > 300,000 h (Premium)	L80B10 > 65,000 h	L80B10 > 50,000 h
Remote management	Optional	Optional	Optional	/
Communication protocol	DALI or 1-10V	DALI or 1-10V	DALI or 1-10V	/
Tool-less entry	✓	/	/	/
IP	66	66	66	65
IK	9	9	9	/
Operating temperature	From -40 °C to +55 °C	From -40 °C to +55 °C	From -40 °C to +55 °C	From -40 °C to +55 °C
Housing material	Die cast aluminium	Die cast aluminium	Die cast aluminium	Steel sheet housing with aluminium heat sink
Rotor tilt adjustment	From -10° to +15°	From 0° to +90°	/	/
Mounting	Ø 60 mm or Ø 76 mm	Ø 60 mm	Ø 60 mm or Ø 76 mm	E27 socket
Warranty	5 years on electronics, 10 years on mechanical parts	5 years on electronics, 10 years on mechanical parts	5 years on electronics, 10 years on mechanical parts	3 years

Model	E LUM Solar
System power	30 to 60 W
System autonomy	30 h
Battery life expectancy	15 years
PV Modul lifetime	20 years
Battery type	LiFeYPO4
Charging	MPPT
Monitoring application	Android smart device
Operating temperature	From -20 °C to +50 °C
Panel tilt adjustment	20°-40° (vertical); 360° (horizontal)
Warranty	5 years on electronics, 10 years on mechanical parts

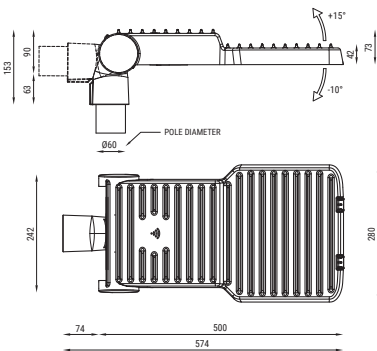
T LUM



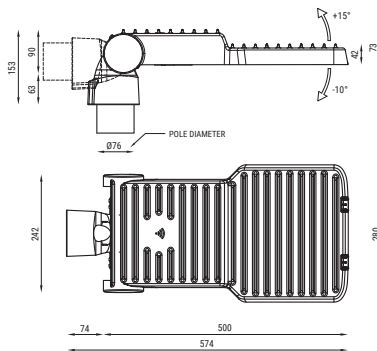
The latest validated data is available at www.lumenia.com.

PRODUCT DIMENSIONS

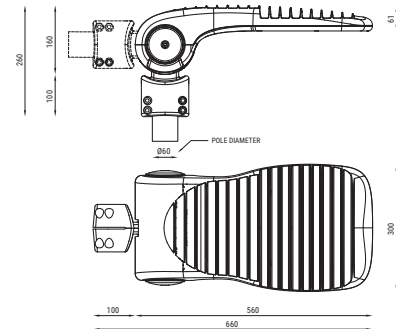
S LUM 1 + ROTOR $\Phi 60$ MM



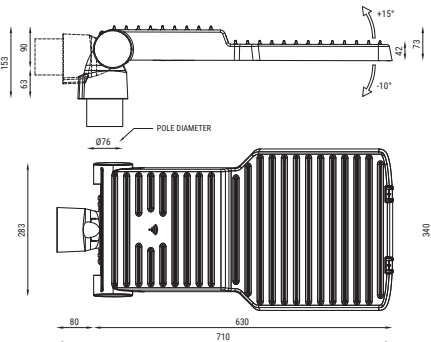
S LUM 1 + ROTOR $\Phi 76$ MM



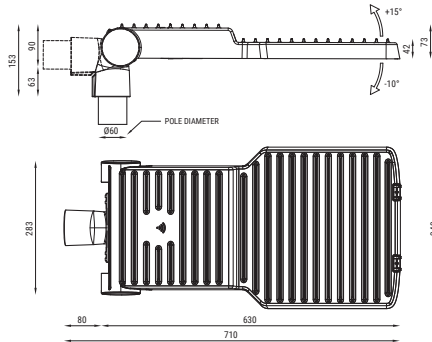
E LUM 1



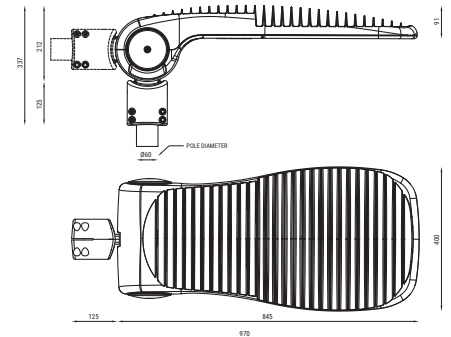
S LUM 2 + ROTOR $\Phi 76$ MM



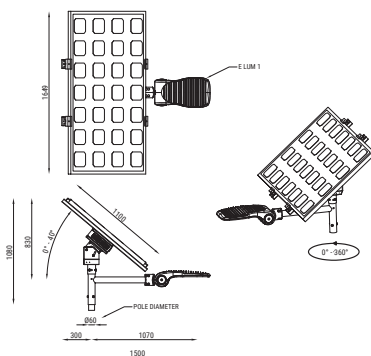
S LUM 2 + ROTOR $\Phi 60$ MM



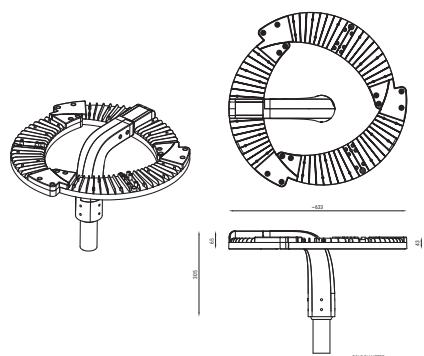
E LUM 2



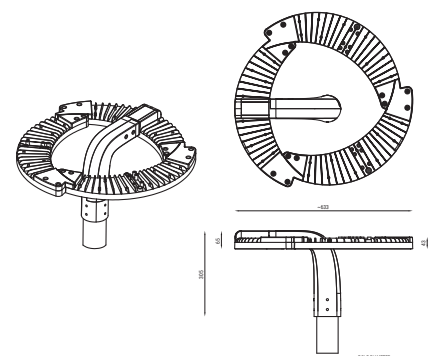
E LUM SOLAR



U LUM POLE DIAMETER $\Phi 60$ MM



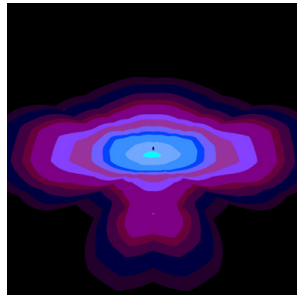
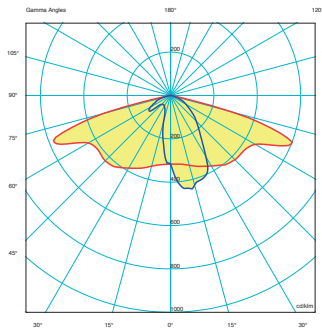
U LUM POLE DIAMETER $\Phi 76$ MM



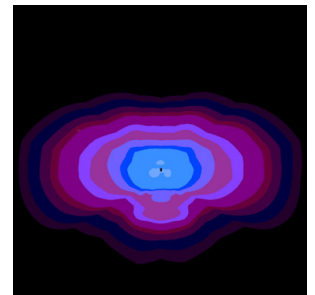
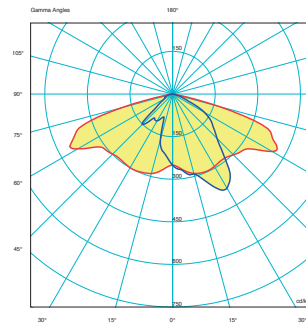
Note: Drawing units are in mm.

PRODUCT OPTICS

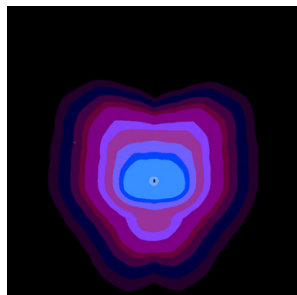
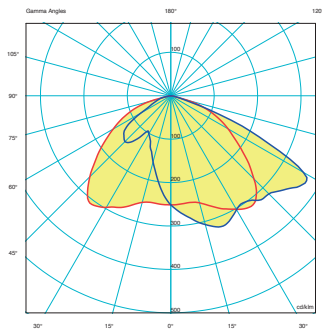
S LUM STANDARD



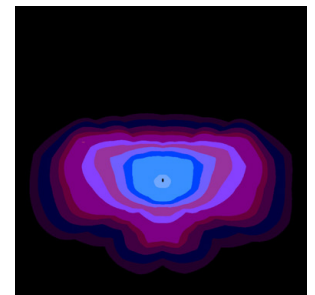
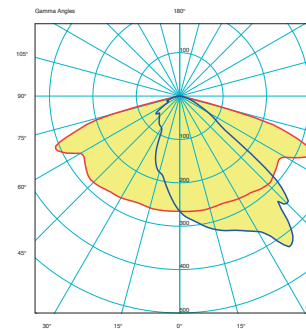
Optics 002: For narrow roadways, access roads, cycling and pedestrian paths.



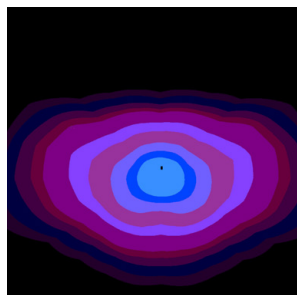
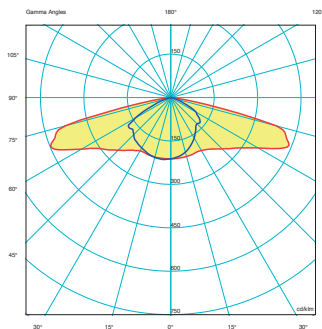
Optics 010: For larger distances between poles and high mounting installation.
High uniformity factor.



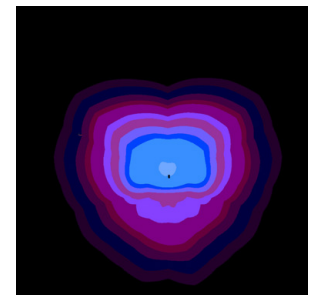
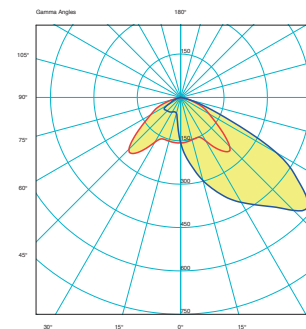
Optics 110: For roadways and parking lots with short distances between poles.



Optics 020: For wide roadways and long distances between poles.

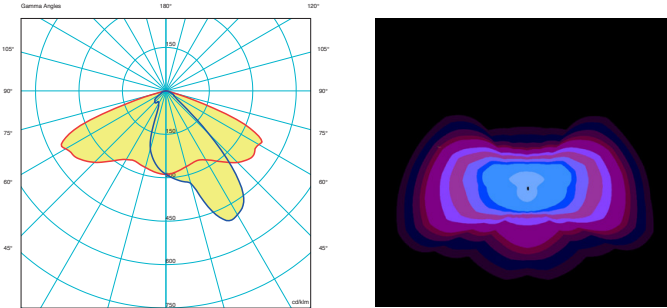


Optics 200: For short pole distances along cycling paths.

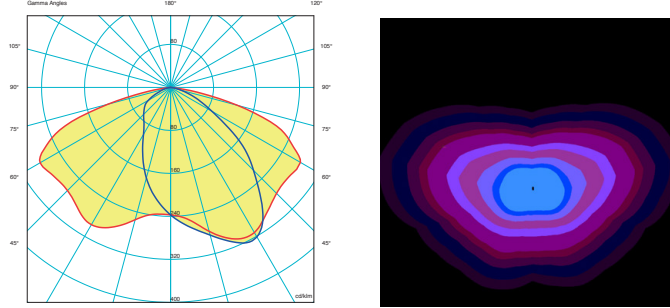


Optics 022: For wide roadways and parking lots with short distances between poles.

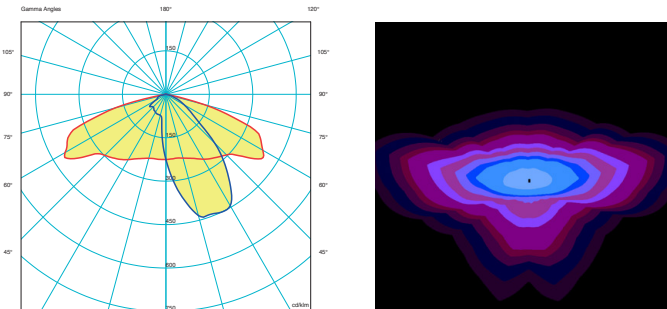
S LUM PREMIUM



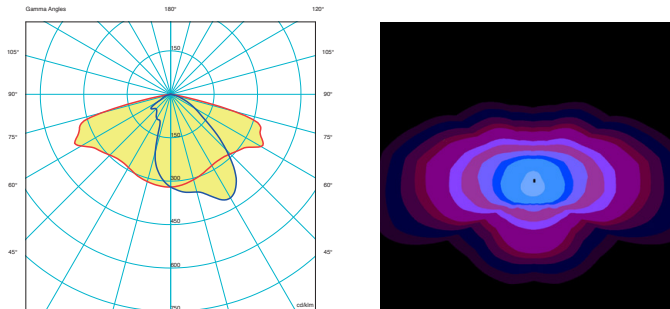
Optics 000: For high installation, long distances between poles, for parking lots.



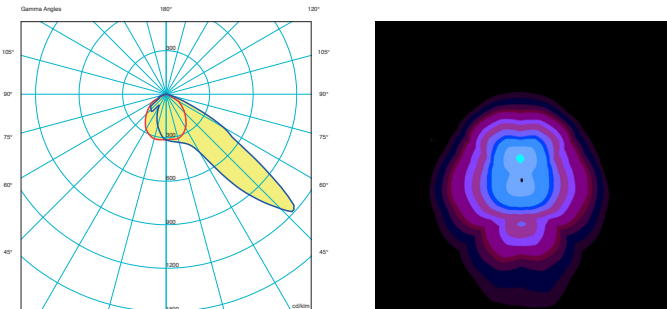
Optics 001: For wider roadways and smaller distances between poles and parking spaces.



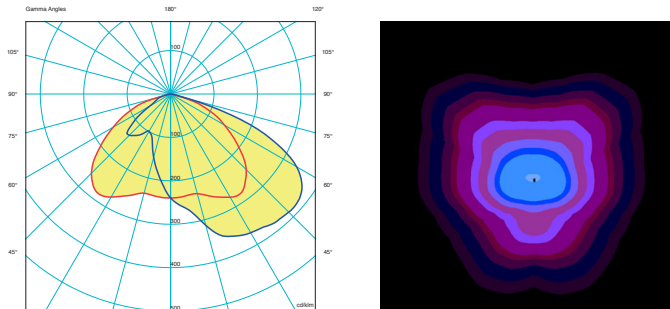
Optics 002: For narrow roadways, access roads, cycling and pedestrians paths.



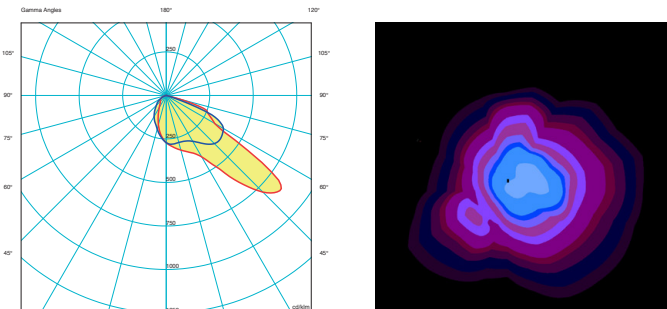
Optics 010: For long distances between poles and high mounting installation. High uniformity factor.



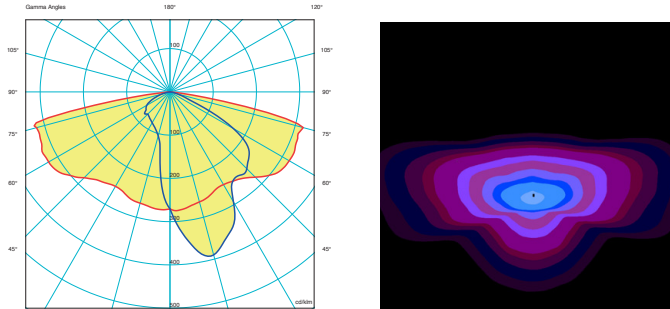
Optics 101: For parking lots and short distances between poles.



Optics 110: For wide roadways, parking lots with short distances between poles.

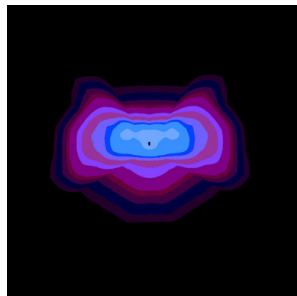
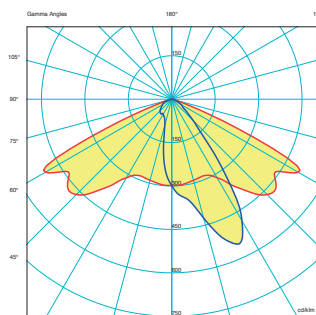


Optics 111: For pedestrian crossings.

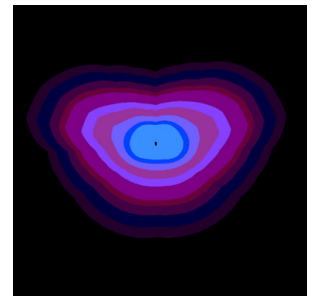
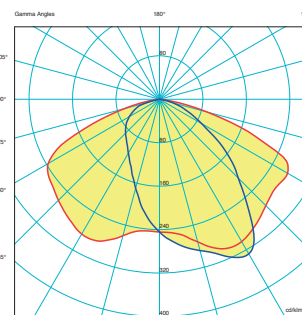


Optics 220: For wide roadways and long distances between poles.

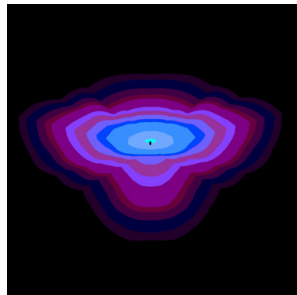
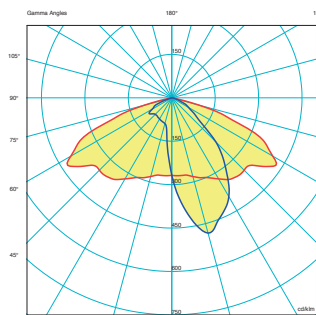
E LUM



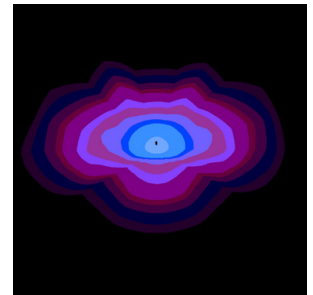
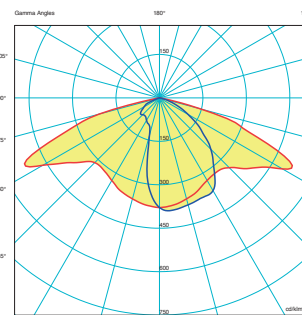
Optics 000: For high installation and larger distances between poles and parking spaces.



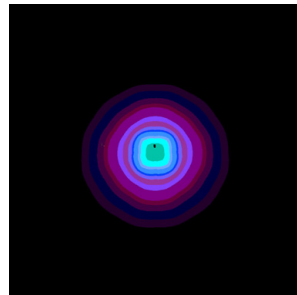
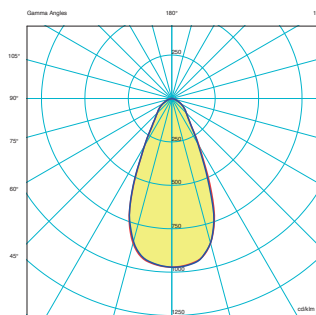
Optics 001: For wider roadways and smaller distances between poles and parking spaces.



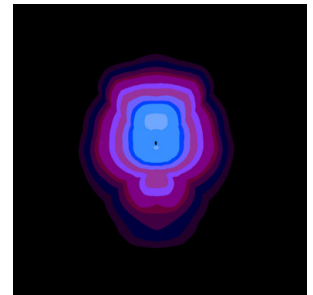
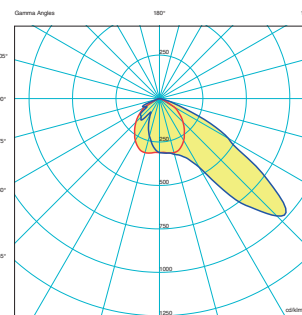
Optics 002: For narrow roadways, access roads, cycling and pedestrian paths.



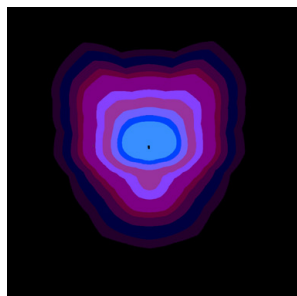
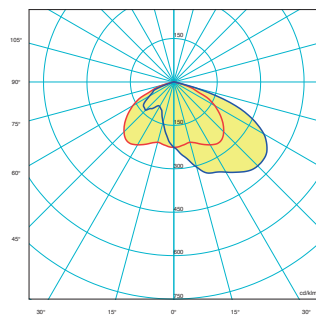
Optics 010: For long distances between poles and high mounting installation. High uniformity factor.



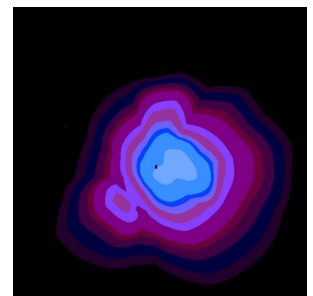
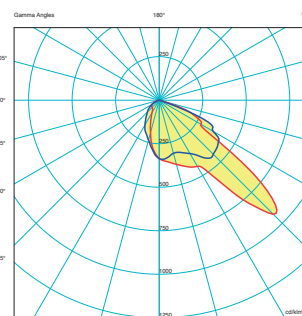
Optics 100: For parking lots and pedestrian crossings.



Optics 101: For parking lots with short distances between poles.

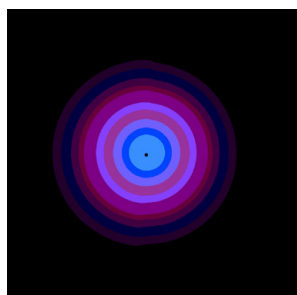
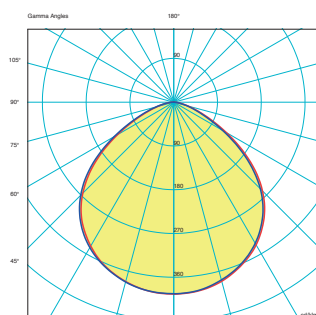


Optics 110: For wide roadways and parking lots with short distances between poles.

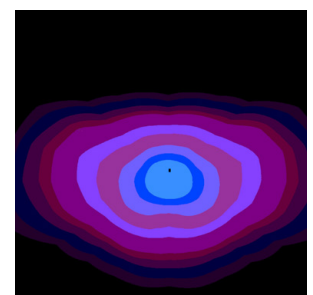
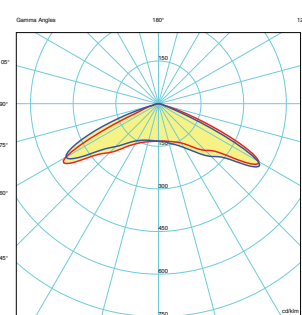


Optics 111: For parking parking lots and pedestrian crossings.

U LUM



Optics 001: For parks and pedestrian paths.



Wide symmetrical 130° light distribution, suitable for parks and walking areas.

T LUM



Investment in LUMENIA STREET is a profitable decision



**Sustainable
Environment**



**Energy
Savings**



ROI



**5-year
Warranty**



**Lower CO₂
Emissions**



**Light Pollution
Elimination**



Dimmable



**Low
Maintenance**



**Designed and
Manufactured in EU**

January 2020

