

2026

**ENGINEERED
LIGHT.
ILLUMINATED
FUTURE.**



**CONSORTIUM OF RUSSIAN
LIGHTNING MANUFACTURERS**

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Svetotekhnika Consortium

The «Svetotekhnika Consortium» (Consortium of Russian lighting engineering manufacturers) is an association of professionals, organizations, and enterprises – including manufacturers and designers – operating in the fields of lighting, photonics, electrical engineering, radio and microelectronics, chemistry, and information technology.

The Consortium's mission is to develop the industry, support market participants, and address key challenges related to production, regulation, development of new technologies, and quality control within the Russian Federation.

The Consortium creates and maintains an up-to-date database of technical, regulatory, and legal requirements, as well as market data and product information. This resource serves as a key tool for analysis, planning, and cross-industry collaboration.

Acting as a center of competence and a platform for dialogue, the Consortium consolidates the interests of manufacturers, associations, research centers, universities, and operating companies. This facilitates effective collaboration between industry participants and government authorities.

The organization promotes the development of a civilized market for lighting products, proposes solutions to optimize technological processes, and facilitates the exchange of best practices, technologies, and business models.

The Consortium works to prevent low-quality products from entering the market and seeks to raise standards in education and professional training. It develops and implements professional development programs in the field of lighting technology and organizes business missions, conferences, and round tables, including international events, to discuss pressing industry issues and enable the exchange of experience.

On the international stage, the Svetotekhnika Consortium plays a key role in advancing the lighting, LED, and electrical industries, uniting the efforts of professionals, businesses, and the government to achieve common strategic goals.



**CONSORTIUM OF RUSSIAN
LIGHTNING MANUFACTURERS**



Dear Partners and Colleagues,

The companies of our consortium develop and manufacture products based on the strong heritage and solid foundation of the Russian engineering school. Our work is guided by innovation, quality, and advanced technology, enabling us to create lighting solutions that meet the highest standards of safety and efficiency.

We are pleased to present to you the catalog of lighting products from the Svetotekhnika Consortium.

Our association was established to pool the experience and expertise of Russian manufacturers of lighting and electrical equipment, offering reliable and modern solutions to the market.

The **Svetotekhnika Consortium** stands for trust in Russian manufacturing, professional expertise, and a confident outlook for the future.

Sincerely,
Olga Grekova
CEO



Ecolight is a premier Russian manufacturer of modern lighting systems and a supplier of energy-efficient LED equipment under its eponymous brand.

Our products are developed in strict compliance with international standards of quality and reliability.

Particular attention is paid to creating solutions that demonstrate exceptional resilience to extreme temperatures, dust, and humidity, ensuring uninterrupted performance in the challenging climatic conditions.



Page 5



ENERCOM is the Russian manufacturer of industrial lighting systems and an expert in energy-saving solutions for enterprises and infrastructure facilities.

The company is the leader in the number of illuminated square meters in the industry. Main clients: TMK, NLMK, Arcelor Mittal, Russian Railways, Carlsberg, Danone, Heineken.

A serious scientific base has been accumulated during more than 16 years of the existence. The company obtains innovative technologies and patents in the field of LED technologies and nanoceramics.



Page 15



LED Effect is an expert in professional LED lighting and lighting control systems with more than 15 years of experience.

Our solutions deliver high energy efficiency, exceptional visual comfort, and uncompromising safety, meeting the most stringent international standards.

We offer a full spectrum of professional LED solutions – from mission-critical infrastructure to commercial and public spaces.



Page 25



Ledvizzor: We have been developing and manufacturing LED luminaires under the Ledvizzor trademark since 2007.

We produce lighting fixtures that combine aesthetics, reliability and technology. They transform the urban environment and help businesses operate more efficiently.

Our team has already implemented more than 1,500 projects in the field of urban development, industry and energy. We prove that a Russian product can be strong, modern, and in demand.



Page 35



NPK **Virona** is a Russian manufacturer of LED lighting fixtures for residential and industrial facilities.

The company maintains a comprehensive equipment manufacturing process and strict quality control.



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About Us

Ecolight: The Russian Leader in Lighting Solutions.

Ecolight is a premier Russian manufacturer of modern lighting systems and a supplier of energy-efficient LED equipment under its eponymous brand.

Our products are developed in strict compliance with international standards of quality and reliability. Particular attention is paid to creating solutions that demonstrate exceptional resilience to extreme temperatures, dust, and humidity, ensuring uninterrupted performance in the challenging climatic conditions of the Middle East.

The key advantages of the **Ecolight** brand are uncompromising quality, exceptional durability, and competitive pricing. Our established large-scale serial production enables us to be a reliable partner in the implementation of major government and infrastructure projects of any scale.

We offer a comprehensive approach, providing our clients and partners with the capability to efficiently and swiftly address the most ambitious tasks in energy conservation and lighting modernization.

Our portfolio encompasses solutions for all application areas: from critical facilities in railway and metro transport to street, industrial, architectural, office, and residential lighting.

Phone: +7 (495) 981 80 40

Web: <https://www.ecolight.ru> | <https://tumov.pro/en>

Email: info@ecolight.ru



Tunnel LED luminaire

EL-DPO-12-025-7500-65N67N



DESIGNED FOR LIGHTING IN:

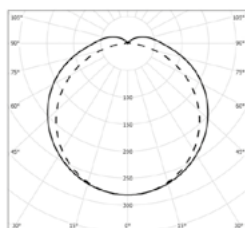
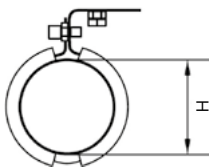
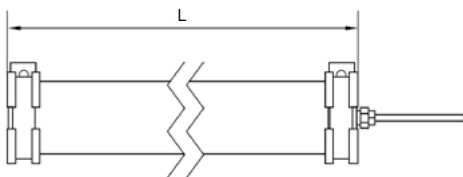
- Metro / subway tunnels;
- Technical areas and utility rooms;
- Industrial zones;
- Greenhouses and livestock farming complexes.



TECHNICAL SPECIFICATIONS:

Power consumption, W:	25
Luminous flux, lm:	3250
Color temperature, K:	4000±300 (Neutral)
Supply voltage and type:	AC 90-264/50, DC 110-250
Net weight of the luminaire, kg:	1,9
Overall dimensions, mm (L*W*H):	600×60×60
Luminaire service life, h:	100,000 / at least 12 years
IP rating:	IP65 / IP67
Operating temperature range, °C:	-45 to +40

OVERALL DIMENSIONS:



LED luminaire TLK01 OL



DESIGNED FOR LIGHTING IN:

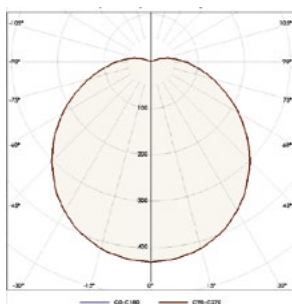
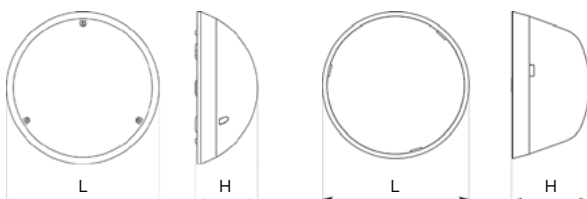
- Offices and administrative buildings
- Retail areas and shops
- Cinema and concert halls
- Conference halls
- Exhibition spaces
- Car showrooms
- Food service establishments (restaurants, cafes)
- Railway stations and airports
- Industrial and agricultural production facilities
- Utility technical premises in housing and communal services
- Auto repair shops and car washes
- Other premises requiring enhanced protection against moisture and dust (high IP rating).



TECHNICAL SPECIFICATIONS:

Power consumption, W:	13
Luminous flux, lm:	1550
Color temperature, K:	4000±300 (Neutral)
Supply voltage and type:	AC 198-264/50
Net weight of the luminaire, kg:	0,65
Overall dimensions, mm (L*W*H):	281×281×113
Luminaire service life, h:	100,000 / at least 12 years
IP rating:	IP65
Operating temperature range, °C:	-15 to +45

OVERALL DIMENSIONS:



LED luminaire TLM02 OL



DESIGNED FOR LIGHTING IN:

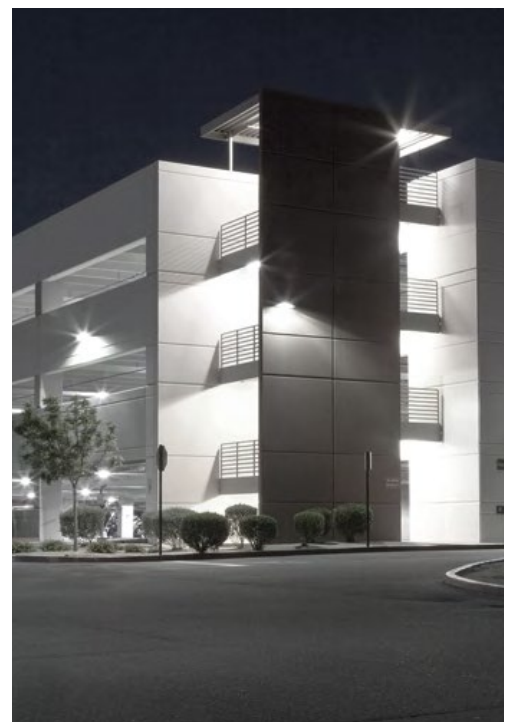
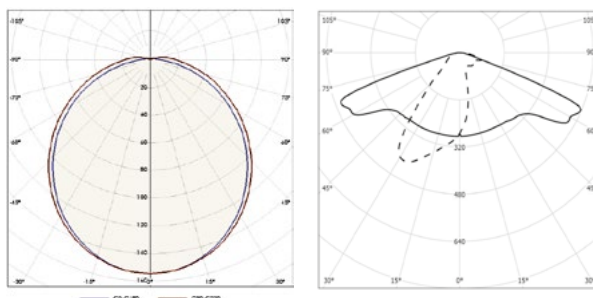
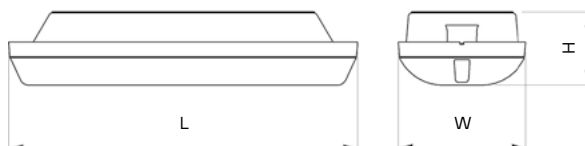
- Offices and administrative buildings
- Retail areas and shops
- Cinema and concert halls
- Conference halls
- Exhibition spaces
- Car showrooms
- Food service establishments (restaurants, cafes)
- Railway stations and airports
- Industrial and agricultural production facilities
- Utility technical premises in housing and communal services
- Auto repair shops and car washes
- Other premises requiring enhanced protection against moisture and dust (high IP rating).



TECHNICAL SPECIFICATIONS:

Power consumption, W:	12
Luminous flux, lm:	1300
Color temperature, K:	5000±300 (Neutral)
Supply voltage and type:	AC 198-264/50
Net weight of the luminaire, kg:	0,85
Overall dimensions, mm (L*W*H):	363×132×75
Luminaire service life, h:	100,000 / at least 12 years
IP rating:	IP65
Operating temperature range, °C:	-15 to +45

OVERALL DIMENSIONS:



LED luminaire

TLWP06-30-840-PC-OL



DESIGNED FOR LIGHTING IN:

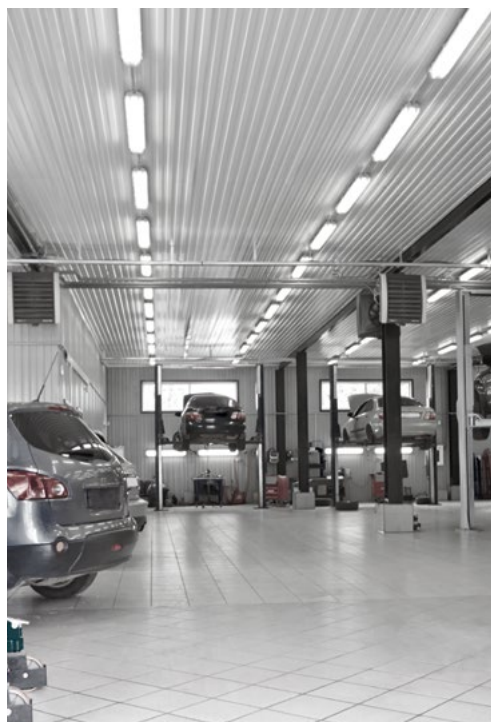
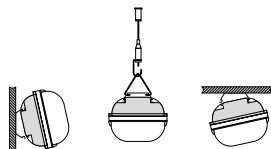
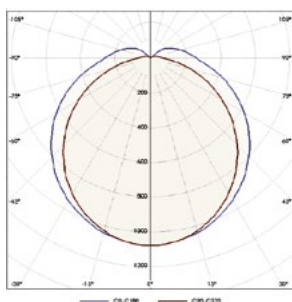
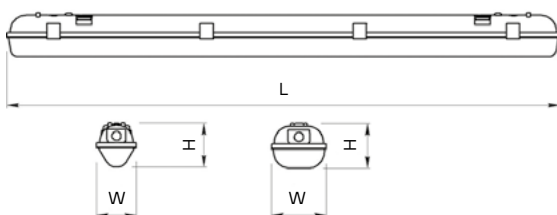
- Industrial and agricultural production facilities
- Garages and underground parking facilities
- High IP-rated environments (requiring enhanced protection against moisture and dust)
- Technical premises in housing and communal services
- Auto repair shops
- Car washes



TECHNICAL SPECIFICATIONS:

Power consumption, W:	30
Luminous flux, lm:	3900
Color temperature, K:	4000±300 (Neutral)
Supply voltage and type:	AC 198-264/50
Net weight of the luminaire, kg:	2,25
Overall dimensions, mm (L*W*H):	1263×135×105
Luminaire service life, h:	100,000 / at least 12 years
IP rating:	IP65
Operating temperature range, °C:	-15 to +45

OVERALL DIMENSIONS:



LED luminaire

TLPL06-30-840-OL



DESIGNED FOR LIGHTING IN:

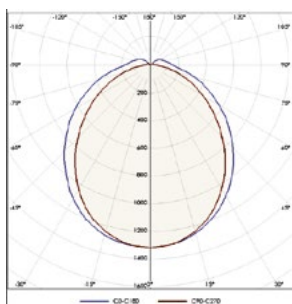
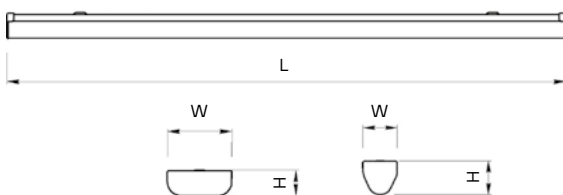
- Offices
- Administrative buildings
- Retail spaces and shops
- Airports and railway stations
- Cafeterias, cafes, and fast-food outlets
- Educational institutions
- Healthcare facilities



TECHNICAL SPECIFICATIONS:

Power consumption, W:	30
Luminous flux, lm:	3750
Color temperature, K:	4000±300 (Neutral)
Supply voltage and type:	AC 198-264/50
Net weight of the luminaire, kg:	1,85
Overall dimensions, mm (L*W*H):	1234×142×57
Luminaire service life, h:	100,000 / at least 12 years
IP rating:	IP30
Operating temperature range, °C:	1 to +40

OVERALL DIMENSIONS:



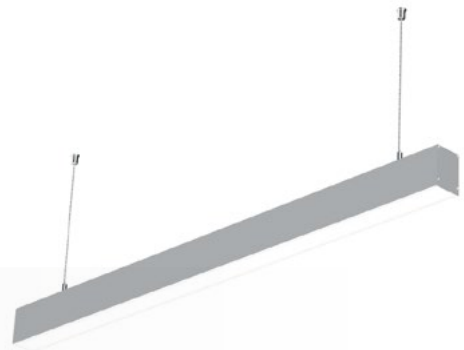
LED luminaire

TLGP12-LINE-29-940-OL



DESIGNED FOR LIGHTING IN:

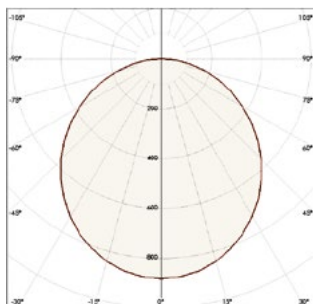
- Administrative buildings
- Office spaces
- Supermarkets



TECHNICAL SPECIFICATIONS:

Power consumption, W:	29
Luminous flux, lm:	3000
Color temperature, K:	4000±300 (Neutral)
Supply voltage and type:	AC 198-264/50
Net weight of the luminaire, kg:	1,85
Overall dimensions, mm (L*W*H):	1200×50×70
Luminaire service life, h:	100,000 / at least 12 years
IP rating:	IP42
Operating temperature range, °C:	1 to +40

OVERALL DIMENSIONS:



LED luminaire

TLPL05-28-840-OL



DESIGNED FOR LIGHTING IN:

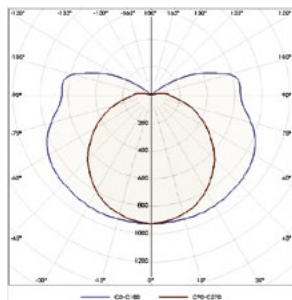
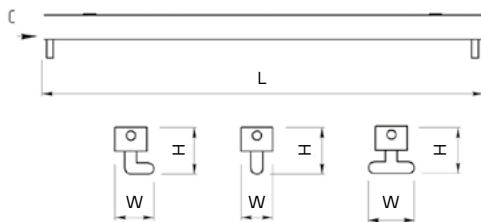
- Offices, administrative buildings
- Trading floors, retail spaces
- Airports and railway stations
- Canteens, cafés, quick-service restaurants (QSR)
- Educational institutions
- Healthcare facilities



TECHNICAL SPECIFICATIONS:

Power consumption, W:	28
Luminous flux, lm:	300
Color temperature, K:	4000±300 (Neutral)
Supply voltage and type:	AC 198-264/50
Net weight of the luminaire, kg:	1,20
Overall dimensions, mm (L*W*H):	1234×77×77
Luminaire service life, h:	100,000 / at least 12 years
IP rating:	IP30
Operating temperature range, °C:	-1 to +40

OVERALL DIMENSIONS:



LED wall luminaire

EL-DBU-12-030-7982D-65C



DESIGNED FOR LIGHTING IN:

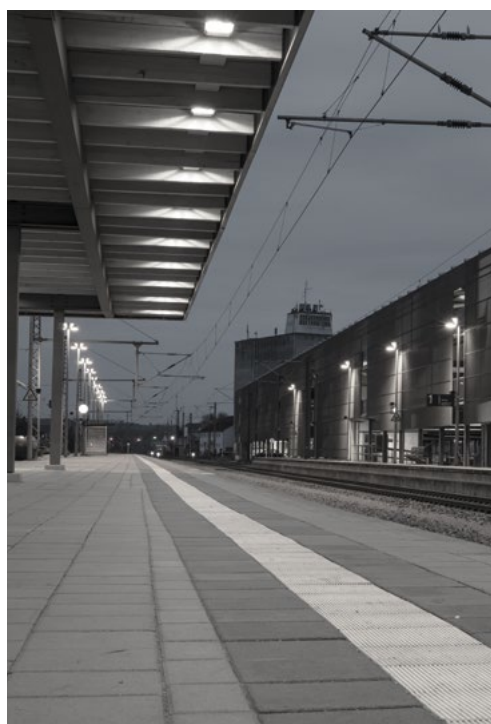
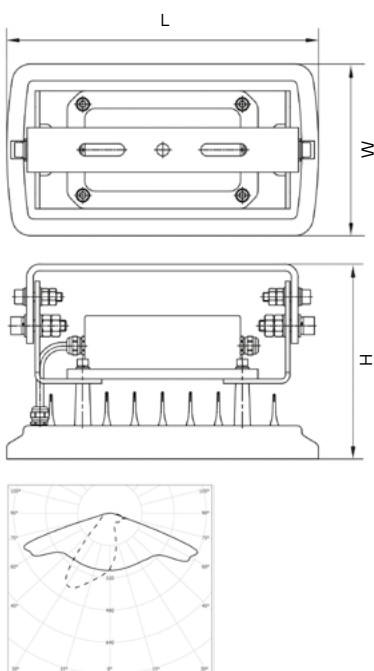
- Railway tunnels;
- Approach tunnel structures



TECHNICAL SPECIFICATIONS:

Power consumption, W:	30
Luminous flux, lm:	5600
Color temperature, K:	5000±300 (Neutral)
Supply voltage and type:	AC 176-264/50
Net weight of the luminaire, kg:	3,9
Overall dimensions, mm (L*W*H):	282 × 155 × 176
Luminaire service life, h:	100,000 / at least 12 years
IP rating:	IP65
Operating temperature range, °C:	-45 to +45

OVERALL DIMENSIONS:



Arc Fault Detection Device



Bring your facility's fire safety to the next level. Our Arc Fault Detection Device (AFDD) provides a critically important layer of protection, operating seamlessly after Miniature Circuit Breakers (MCBs) and Residual Current Devices (RCDs) to prevent electrical fires at their very source.

Operating conditions and characteristics:

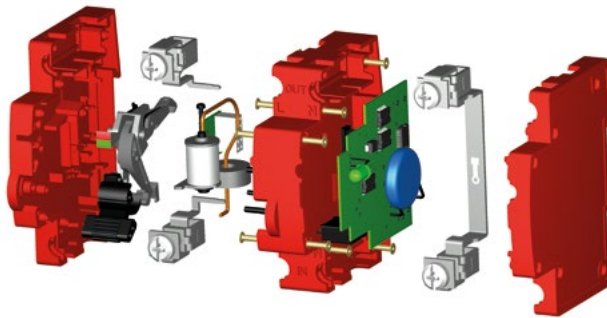
- Ambient air temperature, °C: -25 ... +40
- Relative humidity: <98% at +25°C
- Always on indicator: Yes
- Device status at front panel: Yes
- Overvoltage shutdown threshold, V: 275
- True RMS: Yes
- Surge protection: Yes
- Mounting DIN-rail: Yes



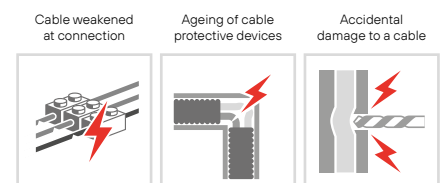
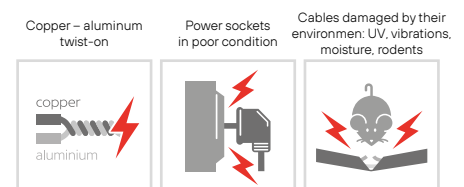
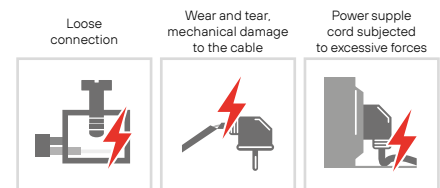
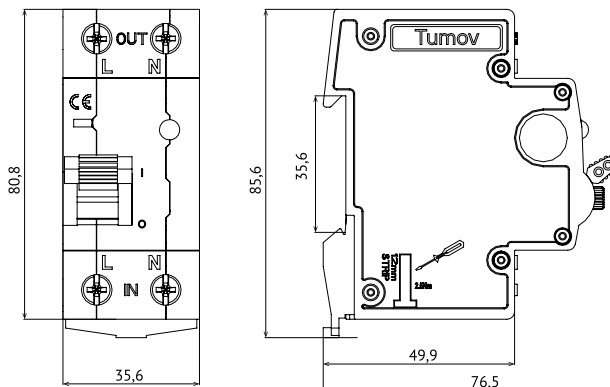
IMPORTANT FOR CUSTOMERS:

Tripping time at arcing, ms:	in accordance with IEC 62606
Rated current, A:	16, 25, 32, 40, 50, 63
Minimum arcing current, A:	2.5
Rated Voltage, V:	115-275
Tripping time at overvoltage threshold, ms:	200
Tripping time at 300 V, ms:	in accordance with EN 50550
Power loss, W:	0,7

The delivery set includes a TEST UNIT for checking the AFDD coverage zone.



OVERALL DIMENSIONS:





About Us

ENERCOM is the Russian manufacturer of industrial lighting systems and an expert in energy-saving solutions for enterprises and infrastructure facilities. The company is the leader in the number of illuminated square meters in the industry. Main clients: TMK, NLMK, Arcelor Mittal, Russian Railways, Carlsberg, Danone, Heineken.

A serious scientific base has been accumulated during more than 16 years of the existence. The company obtains innovative technologies and patents in the field of LED technologies and nanoceramics.

The geography of the projects is not only Russia, but also Italy, Kazakhstan, and Albania. The company regularly participates in foreign exhibitions and business missions. **ENERCOM** has repeatedly become a laureate and winner of international awards, such as: Golden Photon Eurasian Award, ENES, Gold Mercury.

Phone: +7 800 201-48-18

Address: Kovaleva Street, 115/8, Lipetsk, 398007, Russia

Web: <https://enercom.org> | office@enercom.org

enercom
CREATE LEADERS IN ENERGY SAVING

Series FLW



SCOPE OF APPLICATION

- Height up to 16 meters
- Industrial workshops
- Fuel filling stations
- Storages
- Tunnels



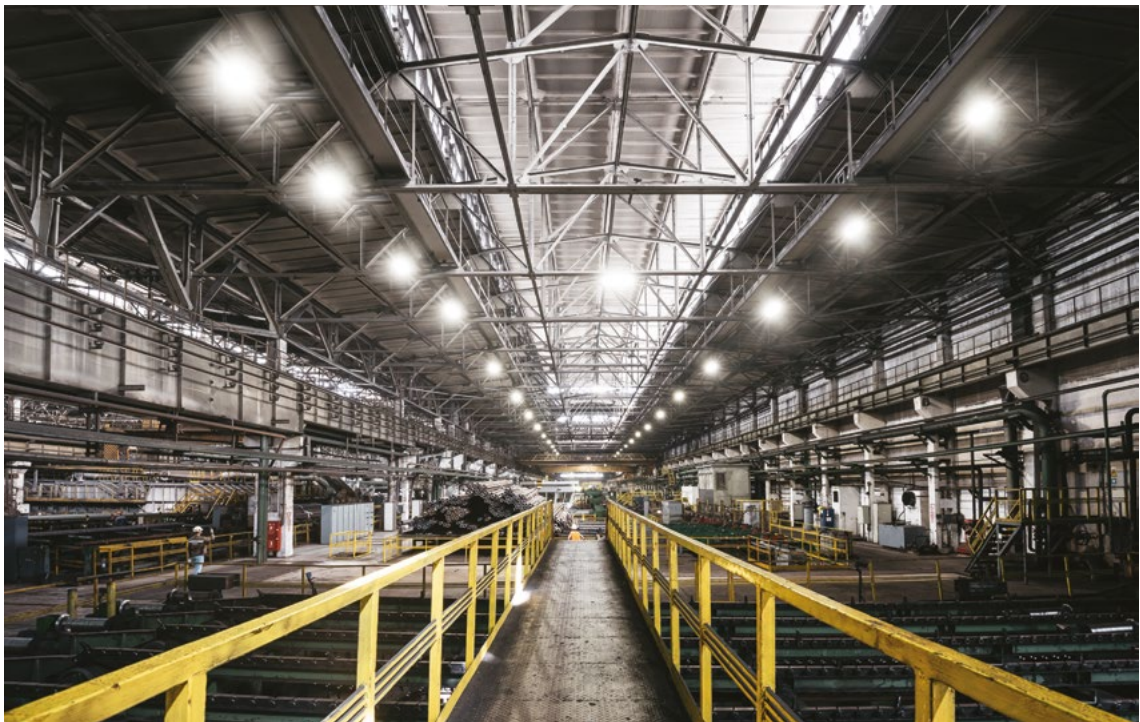
THE LOWEST COST OF OWNERSHIP ON THE MARKET

- Direct replacement of gas discharge luminaires with savings of up to 80%
- Ability to operate at a permanent temperature of up to +70°C
- Due to CLS proprietary remote fluorescent technology, FLW luminaires provide extensive flood lighting that is comfortable and safe for the eyes



TECHNICAL SPECIFICATIONS:

Power consumption, W:	70 – 465
Luminous flux, lm:	10 000 – 65 800
Color temperature, K:	4 000
Supply voltage and type, V:	VAC 90 – 305, VDC 127 – 300
Net weight of the luminaire, kg:	4,3 – 18,1
Luminaire service life L80, h:	to 120 000
IP rating, IP:	65
Operating temperature range, °C:	-45 to +85

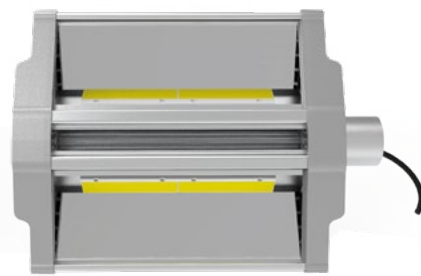


Series SLW



SCOPE OF APPLICATION

- Roads
- Plant surrounding areas



THE SERVICE LIFE RECORD HOLDER IN THE STREET MODE

- Bright and uniform lighting of roads, communications and perimeters
- Resistance to lightning discharges of up to 10 kV
- Special design prevents the formation of icicles on the luminaire in winter



TECHNICAL SPECIFICATIONS:

Power consumption, W:	52 – 185
Luminous flux, lm:	7 600 – 27 600
Color temperature, K:	4 000
Supply voltage and type, V:	VAC 90 – 305, VDC 127 – 300
Net weight of the luminaire, kg:	6,6 – 11,5
Luminaire service life L80, h:	to 100 000
IP rating, IP:	65
Operating temperature range, °C:	-45 to +60



Series HB



SCOPE OF APPLICATION

- Luminaire specially developed for workplaces with elevations over 16 meters



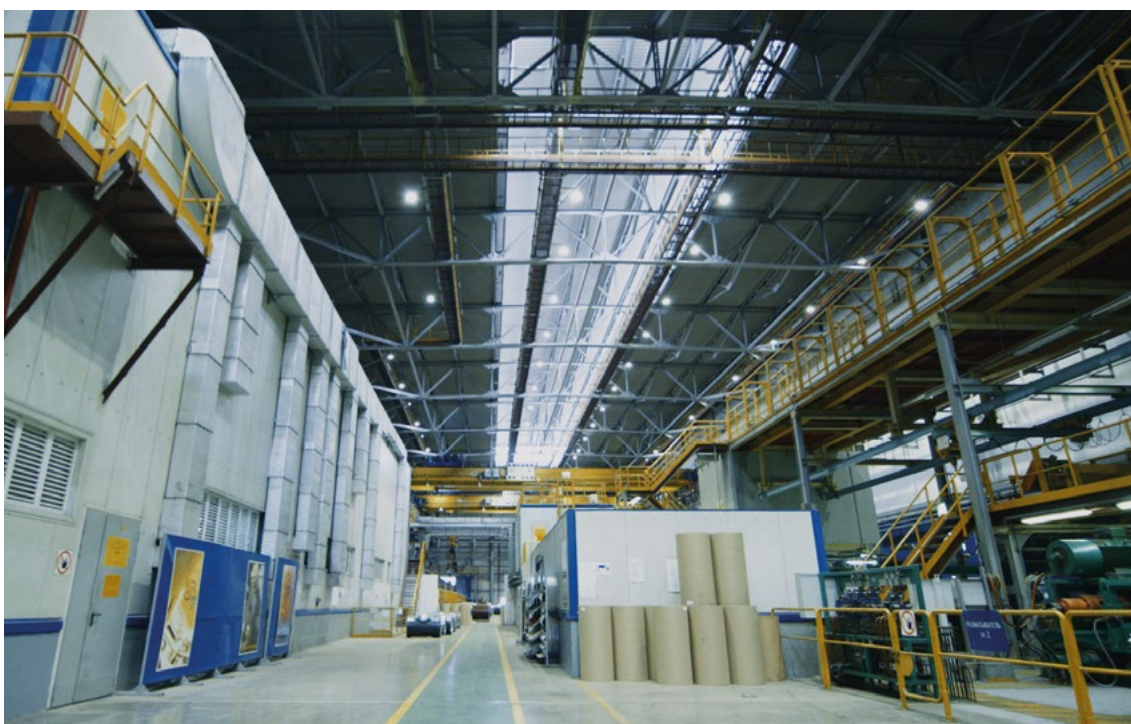
MAXIMUM EFFICIENCY FOR HIGH-ALTITUDE LIGHTING

- Guaranteed provision of illumination level standards for challenging working conditions
- Ability to operate at a permanent temperature of up to +70°C and short-term temperature bursts of up to +85°C
- Reliable operation in aggressive media and high temperatures due to the special design of the radiator and borosilicate glass lens



TECHNICAL SPECIFICATIONS:

Power consumption, W:	94 – 281
Luminous flux, lm:	14 900 – 46 600
Color temperature, K:	4 000
Supply voltage and type, V:	VAC 90 – 305, VDC 127 – 300
Net weight of the luminaire, kg:	3,8 – 14,1
Luminaire service life L80, h:	to 100 000
IP rating, IP:	65
Operating temperature range, °C:	-45 to +85



Series ML



SCOPE OF APPLICATION

- Offices
- Corridors
- Storages
- Local lighting



THE BEST SOLUTION FOR OFFICE LIGHTING

- Equipped with different optics, including for inter-rack space
- Winner of the ENES lighting award for the best luminaire in category «Light quality and energy efficiency»



TECHNICAL SPECIFICATIONS:

Power consumption, W:	18 – 56
Luminous flux, lm:	2 700 – 8 400
Color temperature, K:	4 000
Supply voltage and type, V:	VAC 176 – 264, VDC 250 – 370
Net weight of the luminaire, kg:	1,4 – 3,3
Luminaire service life L70, h:	to 100 000
IP rating, IP:	65
Operating temperature range, °C:	-45 to +60



Series MS



SCOPE OF APPLICATION

- Large open spaces

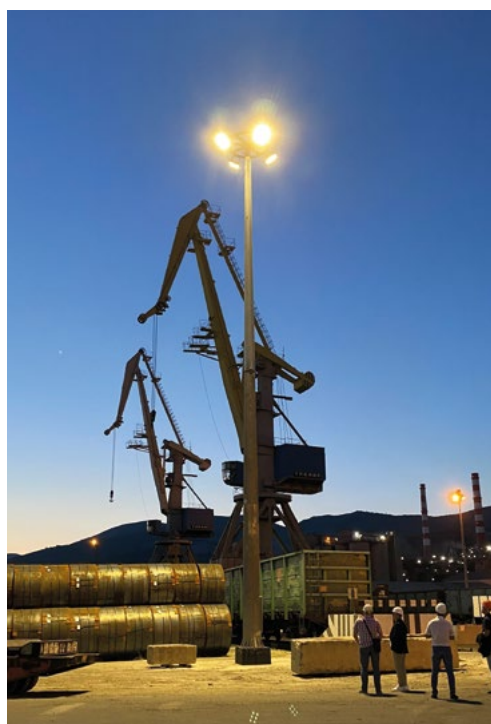
MAST LUMINAIRE FOR LIGHTING AREAS SURROUNDING THE PLANT

- Unmatched light flux usage efficiency provides a 30% competitive advantage when addressing similar tasks
- Improved corrosion resistance due to hot-dip galvanizing of steel parts and anodic treatment of aluminum parts with coating thickness of up to 25 µm
- Overvoltage protection: up to 10 kV



TECHNICAL SPECIFICATIONS:

Power consumption, W:	220 – 535
Luminous flux, lm:	31 500 – 78 500
Color temperature, K:	4 000
Supply voltage and type, V:	VAC 90 – 305, VDC 127 – 250
Net weight of the luminaire, kg:	11,5 – 20,7
Luminaire service life L70, h:	to 100 000
IP rating, IP:	66
Operating temperature range, °C:	-45 to +55



Series SLR



SCOPE OF APPLICATION

- Roads
- Parkings
- Plant surrounding areas

OPTIMAL SOLUTION FOR ROADS AND SURROUNDING AREAS

- LED luminaire are equipped with ultra-reliable optics made of borosilicate glass; the luminaire body is made of anodized aluminum and radio-transparent ceramics
- The housing design has a regular streamlined shape and prevents the accumulation of dust and snow
- A stainless steel cantilever, adjustable from 0 to 45 degrees



TECHNICAL SPECIFICATIONS:

Power consumption, W:	39 – 220
Luminous flux, lm:	6 100 – 33 500
Color temperature, K:	4 000 / 5 000
Supply voltage and type, V:	VAC 90 – 305, VDC 127 – 300
Net weight of the luminaire, kg:	4,9 – 8,8
Luminaire service life L70, h:	to 70 000
IP rating, IP:	66 – 67
Operating temperature range, °C:	-45 to +50



Series SLR-M



SCOPE OF APPLICATION

- Parkings
- Plant surrounding areas



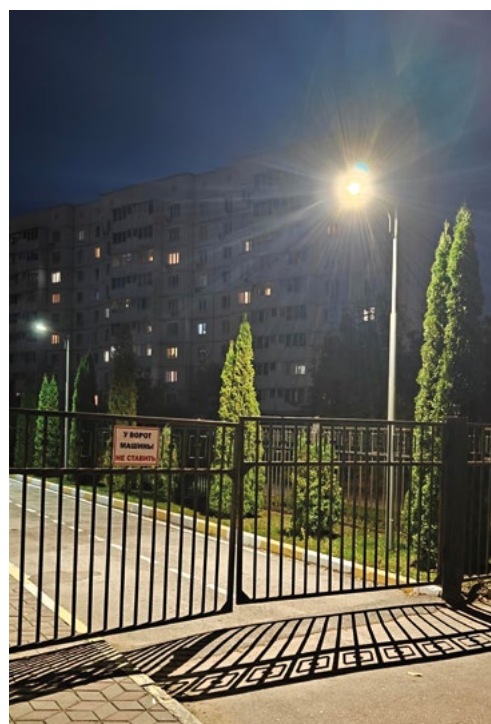
THE MOST COMPACT ENERGY-SAVING LUMINAIRE

- Ultra-reliable borosilicate glass optics and anodized aluminum housing ensure the reliability and durability of the lamp
- The form factor is designed to ensure the absence of ice and precipitation accumulation
- A specially selected wide distribution of the luminous flux ensures perfectly uniform illumination
- The possibility of mounting on the pole or front of the building



TECHNICAL SPECIFICATIONS:

Power consumption, W:	40 – 75
Luminous flux, lm:	5 800 – 11 250
Color temperature, K:	4 000
Supply voltage and type, V:	VAC 90 – 305, VDC 127 – 420
Net weight of the luminaire, kg:	1,95 – 2,7
Luminaire service life L70, h:	to 70 000
IP rating, IP:	66
Operating temperature range, °C:	-45 to +60



Series RS



SCOPE OF APPLICATION

- Railroads
- Railway station with rigid lighting crossbars



THE BEST SOLUTION FOR RAILWAY LIGHTING

- ENERCOM RS-80 LED fixtures are used when distance between the crossbars is up to 80 meters, and with RS-120 – it is up to 120 meters
- RS luminaires provide horizontal illumination of at least 10 lx on the space between tracks in the presence of rolling stock on adjacent tracks
- Maximum resistance to weather conditions, vibration, electromagnetic interference and temperature changes



TECHNICAL SPECIFICATIONS:

Power consumption, W:	75 – 125
Luminous flux, lm:	10 000 – 17 000
Color temperature, K:	4 000
Supply voltage and type, V:	VAC 90 – 305, VDC 127 – 300
Net weight of the luminaire, kg:	6,9 – 8,5
Luminaire service life L80, h:	to 80 000
IP rating, IP:	65
Operating temperature range, °C:	-45 to +50



Oleophobic coating



SCOPE OF APPLICATION

- Industrial workshops
- Tunnels
- Filling stations
- Street lighting
- Skyscrapers
- Solar panels

ADVANTAGES

- The protective oleophobic coating reduces the amount of contamination, the frequency of cleaning the optics of the luminaire, and significantly reduces detergent consumption.
- The coating repels water, dirt, grease, oil, dust and splashes.
- On the treated surface, the «Lotus Effect» is realized: water trapped on the glass collects into drops of almost perfect spherical shape, which easily roll off the surface or are easily blown away by the air flow, dragging dirt and dust particles with them.





About Us

LED Effect is an expert in professional LED lighting and lighting control systems with more than 15 years of experience. Our solutions deliver high energy efficiency, exceptional visual comfort, and uncompromising safety, meeting the most stringent international standards. We offer a full spectrum of professional LED solutions – from mission-critical infrastructure to commercial and public spaces.

Our Vertical Farming Division **FERMI** develops advanced multi tier plant growing systems for controlled environments. Efficient space utilization and automated processes significantly increases yield per square meter.

AgroTech:

Vertical farms and LED Grow Lights for greenhouse lighting.

Transport infrastructure:

Reliable solutions for airports, seaports, tunnels, and railways.

Industry and Oil&Gas:

Industrial and explosion-proof (Ex-rated) luminaires engineered for specific operational requirements.

Urban environment:

Street, road, and architectural lighting for visually compelling and safe spaces.

Commercial and public real estate:

Efficient systems for retail areas, offices, hotels, and public facilities.

**LED
EFFECT**

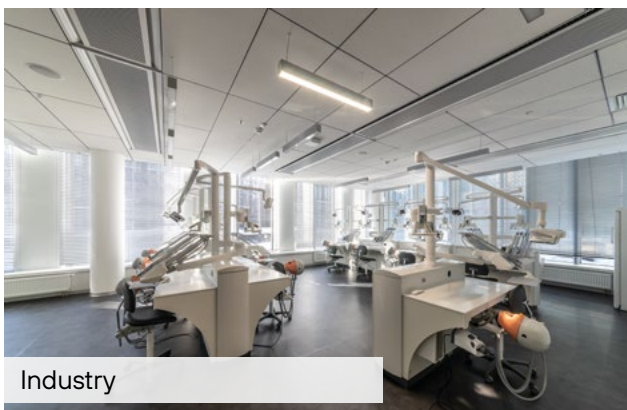
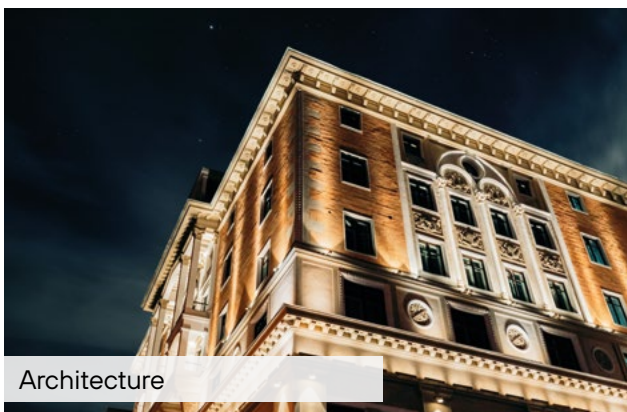
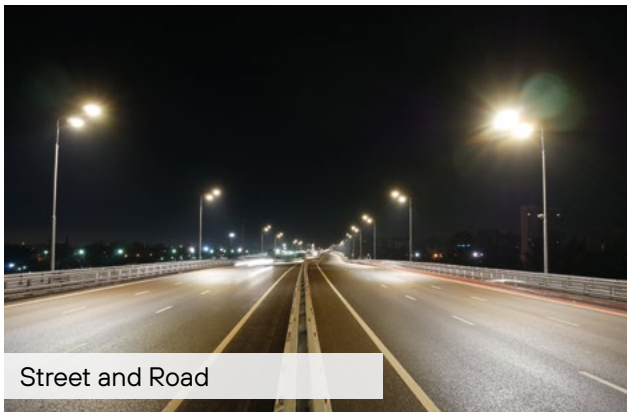
FERMI

Phone: +7 (495) 545 46 05

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Email: info@ledef.ru | info@fer-mi.ru

LED Effect Expertise





Vertical Farming Systems **FERMI by LED Effect**

FERMI

Vertical farming is a technology for growing plants on several tiers in a controlled environment. Efficient space utilization significantly increases yield per square meter.

Automation of processes, isolated growing conditions, optimal lighting and constant monitoring of cultivation allow **high-quality harvest all year round**, independent of seasons.

Enclosed system and absence of external contaminants eliminate the need for pesticides.

Modern technology optimizes cultivation processes and reduces reliance on costly labor.

PRODUCT INFO

Hydroponics: Soil-free and multi-tiered

Automated control: Digital autonomous system

Lighting: In-House production of LED Grow Lights

Products: Dozens of salads, vegetables, berries, herbs, flowers, root crop.

Vertical Farming

Advantages

Consistent & Predictable Harvests

Year-Round Operation independent of season, climate, and geographic location.

High Yields

2-5 kg/m² per month, depending on the crop.

Eco-Friendly

Certified-safe, non-toxic consumables, free from chemicals, herbicides, and pesticides.

Energy Efficiency

Modular systems are designed for resource-efficient cultivation.



TECHNICAL SPECIFICATIONS:

Year-round harvest guarantee	365 days
Yield per square meter per month	2-5 kgs
Reduction in product loss	up to 90%



Limitless

Configurations

Scalability

The inherent modularity of our systems enables seamless, phased expansion of your farm.

Flexibility and Adaptability

Creating farms of any configuration and scale, transforming any premises into a high-efficiency agricultural enterprise.

Custom Design

Our interior design solutions are developed to meet the unique requirements and aesthetic preferences of each client.



Smart Farming

Automation

24/7 automated control by **Virtual Agronomist**, our cloud-native management system that executes optimal growth cycles.

Effortless Management and Operation

A single operator can manage a vertical farm of up to 200 m².

Fully automated Nutrient Solution Unit

NSU automatically mixes concentrated nutrients with water and delivers the perfectly balanced solution to the growing shelves.

Customer Support

Responsive feedback on any issues in your farm's day-to-day operations.



Lettuce
& Salad Greens



Leafy Greens
& Herbs



Micro-greens



Vegetables



Berries



Flowers

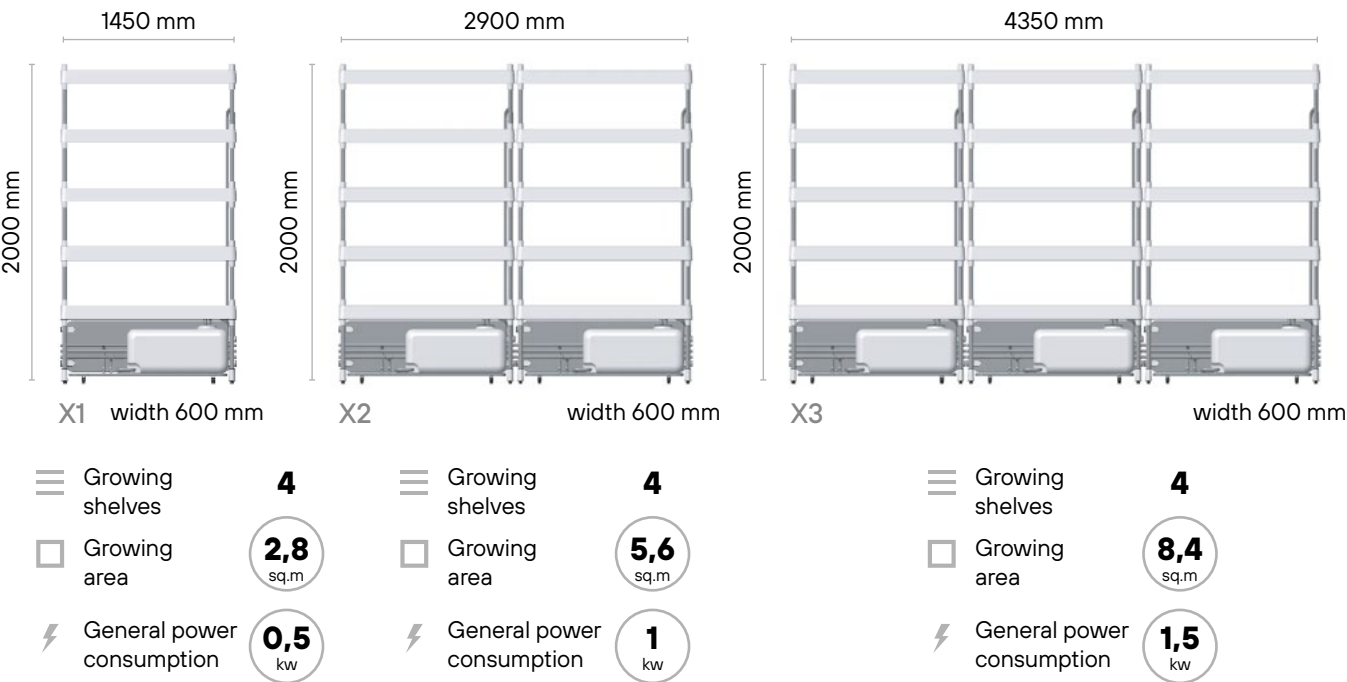
We provide

Our comprehensive solutions include the full suite of necessary technological equipment for cultivating a wide range of salad greens and herbs.

They enable year-round harvesting in any climate, entirely independent of natural sunlight, ambient temperature or soil.



SCALABLE MODULAR PHYTO-INSTALLATION



SINGLE MODULE INCLUDES





LED Grow Lights by LED Effect

POWERFUL AND EFFICIENT

LED Grow Lights for industrial-scale greenhouses are specifically designed to ensure maximum plant productivity with minimal electricity consumption. Developed through years of research in collaboration with leading scientific organizations

Universal suspension system

allows the luminaire to be installed on a cable, truss, pipe, or electrical tray.

Compatible with lighting control system

Allows for flexible adjustment of light spectrum and levels to meet the requirements of various crops, and the «Sunrise/Sunset» function provides additional energy savings, reducing plant stress and the load on the climate control system.

80 000

Long service life
up to 80,000 hours

20%

Increases yield
per m²

50%

Reduction
of energy consumption

LED Grow Lights

Advantages

Up to 50% savings while maintaining level of irradiation

Upgrading the lighting system to a fully LED greenhouse lighting system.

Increased yield per sq.m.

Increasing level of irradiation and production volumes while maintaining operational cost.

Solutions Flexibility

Individual adaptation for specific tasks and different plants. Each project receives an optimal solution.

Expert support

A team of qualified agronomist consultants analyze biological characteristics of plants and increase yields. Assistance with integration.

High-end technologies

OSRAM 6th generation 670 nm LEDs.
Precise modulation of photon flux and intensity.
Grow Lights with water cooling available.

TECHNICAL SPECIFICATIONS:

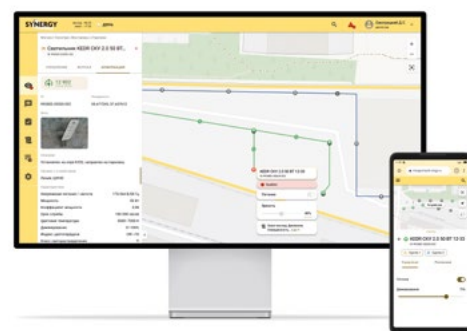
Power Range, W	100 – 1500
Life Cycle, h	80 000
PPE, $\mu\text{mol/J}$	3,1 – 3,6
Voltage, V	100 – 528





SYNERGY

Lighting Control System SYNERGY by LED Effect



The digital modular hardware and software platform for intelligent lighting SYNERGY creates comfortable conditions for control, monitoring, and dispatching of lighting and engineering systems.

It is a scalable, high-load-ready web application adapted for all types of modern devices.

The set of in-house developed hardware and software allows for the creation of configurations and solutions for any type of facility.

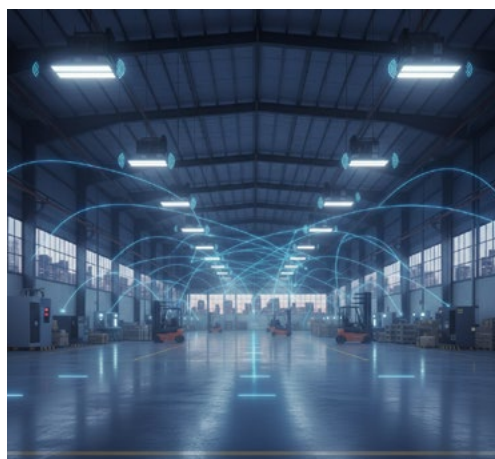
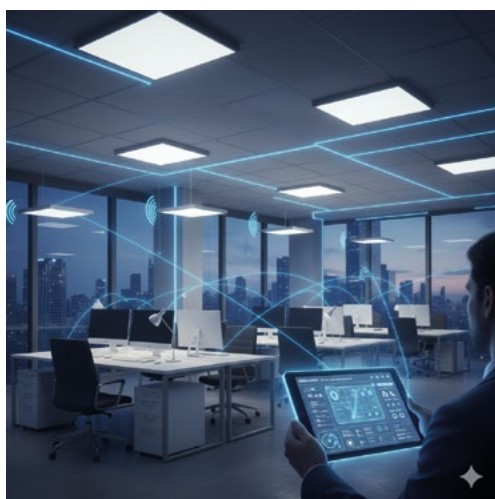
System Components

A wide range of in-house manufactured luminaires for various industries.

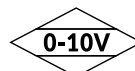
Auxiliary equipment for controlling lighting and engineering systems.

In-house developed software for remote control, monitoring, and dispatching of lighting.

SYNERGY



CONTROL PROTOCOLS



APPLICATION AREAS

- Street, road, building, and structure lighting.
- Bridge, park, and architectural monument illumination.
- Office and retail spaces.
- Industrial and warehouse facilities.
- Secure facilities and perimeter protection.
- Sports facilities and parking areas.
- Agro-industrial and greenhouse lighting.

SYSTEM FEATURES

- Individual and group control.
- Manual control via PC, wall-mounted button, or touch control panel.
- Biodynamic lighting – color temperature adjustment.
- Brightness and color control.
- Creation of dynamic scenarios.
- Scheduled operation in automatic mode, linking scenarios to schedules, etc.



About Us

Ledvizor: We have been developing and manufacturing LED luminaires under the Ledvizor trademark since 2007.

We produce lighting fixtures that combine aesthetics, reliability and technology. They transform the urban environment and help businesses operate more efficiently. Our team has already implemented more than 1,500 projects in the field of urban development, industry and energy. We prove that a Russian product can be strong, modern, and in demand.

Ledvizor

Under the **triciti** trademark, we produce next-generation smart poles that combine advanced technology, modularity, and modern design. The construction allows for the integration of various equipment — cameras, sensors, Wi-Fi/5G, lighting, and communication systems. The aluminum profile is lightweight, highly rigid, and durable, reducing transportation, installation, and maintenance costs.

The poles feature a robust yet lightweight aluminum structure, low installation and service costs, and can be easily upgraded for new applications.

triciti

Phone: +7 800 222 49 90

Web: <https://ledvizor.ru> | <https://triciti.ru>

Email: hello@triciti.ru | sales@ledvizor.ru

Smart pole tricity

SPECIFICATION:

Tricity is a multifunctional urban service pole designed for the aesthetic and convenient placement of mounted elements. These include Smart City devices (lighting, video, audio, weather), urban amenities (navigation, seating, greenery), business integrations (sharing services, ATMs, advertising), and much more.

The core element of the system is an aluminum pole designed according to the «vertical track» principle.

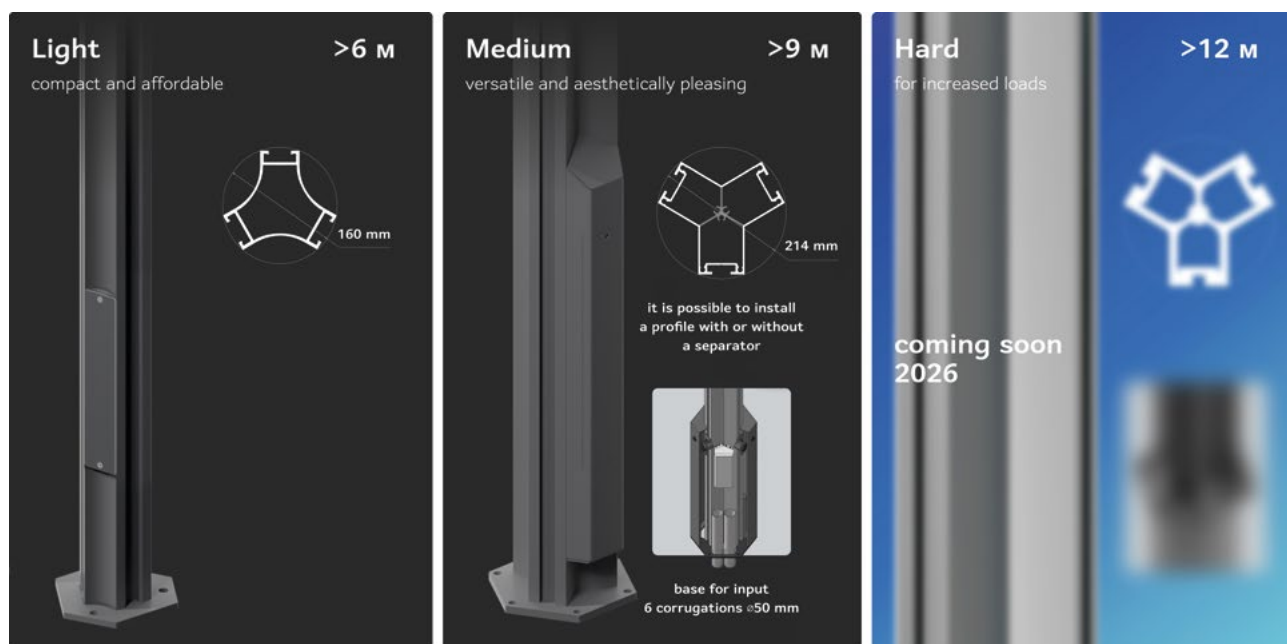
Grooves run along the pole, allowing mounted elements to be attached using adapters. Devices can be installed at any height — in the lower section for interaction with people and in the upper section for service functions.

The ecosystem of mounted modules continues to expand, integrating both in-house devices and third-party solutions.

TECHNICAL SPECIFICATIONS:	
Pole height, m	2 to 9
Material	aluminum
Profile outer diameter, mm	up to 214
Maximum bracket load, kg	200
Protection rating	IP53
Service life, years	up to 50



Smart pole tricity



Catalog device tricity

SPECIFICATION:

Commercial services

advertising screens parcel lockers Wi-Fi internet and cellular connection EV and PPE charging stations sharing services

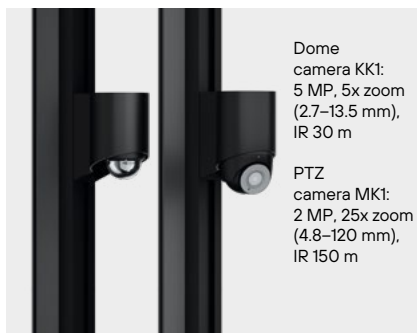
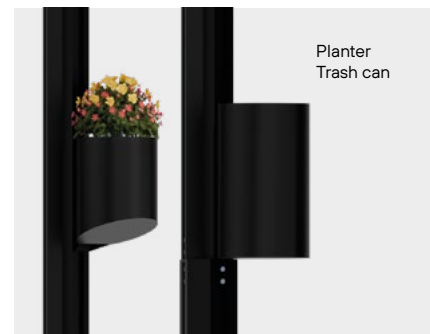
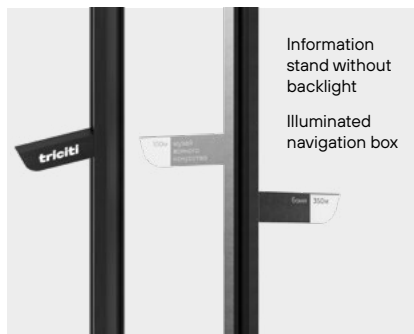
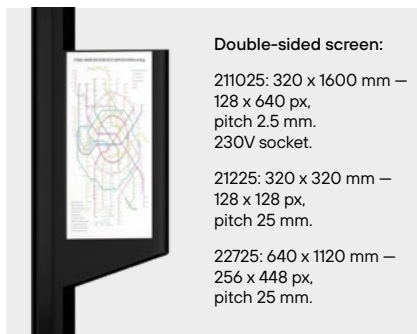
National interests

video surveillance audio announcements flags and tapestries anti-drone systems

Social functions

lighting and projections navigation and information heating modules, benches and tables planters and environmental design drinking fountains and waste bins

Smart pole tricity



LED luminaire LV-LIGHTSABER



MOUNTING ON A BRACKET / ON A POLE DECORATIVE LIGHTING FOR:

- Residential areas
- Courtyard areas
- Parks
- Pathways
- Flower beds
- Streets and roads



SPECIFICATION:

LV-LIGHTSABER is an excellent lighting solution for façades and landscapes. Thanks to its acrylic lenses, the fixture directs light onto working surfaces without shining into windows or the eyes of passersby.



TECHNICAL SPECIFICATIONS:

Power consumption, W	6-14
Luminous flux, L	686-1179
Color temperature, K	3000 / 4000 / 5000
Supply voltage and type, V	AC 176-264
Net weight, kg	1.4-2.3
Protection rating, IP	IP66
Operating temperature range, °C	-40 to +45



LED luminaire LV-FESTOON



MOUNTING ON A CABLE DECORATIVE LIGHTING FOR:

- Residential areas
- Courtyard areas
- Parks
- Pathways



SPECIFICATION:

LV-FESTOON is a pendant luminaire developed **by Ledvzor** in collaboration with Belgian industrial designer Serge Cornelissen (designed by Serge Cornelissen).

LV-FESTOON not only enhances public spaces aesthetically but also provides functional lighting.



TECHNICAL SPECIFICATIONS:	
Power consumption, W	3-5
Luminous flux, L	180-400
Color temperature, K	3000
Supply voltage and type, V	DC 12-24
Net weight, kg	0.35
Protection rating, IP	IP67
Operating temperature range, °C	-40 to +45



LED luminaire

LV-ROUND SLIM



MOUNTING ON A BRACKET / ON A POLE DECORATIVE LIGHTING FOR:

- Residential areas
- Courtyard areas
- Parks
- Pathways
- Streets and roads



SPECIFICATION:

LV-ROUND SLIM is a cantilever luminaire designed for pedestrian zones, parks, and public spaces, part of the **LV-ROUND series**.

Its compact form and stylish design allow it to integrate seamlessly with various architectural styles, becoming a striking accent in the urban environment.



TECHNICAL SPECIFICATIONS:

Power consumption, W	9-32
Luminous flux, L	1440-4480
Color temperature, K	3000 / 4000 / 5000
Supply voltage and type, V	AC 176-264
Net weight, kg	3.9-4.3
Protection rating, IP	IP65
Operating temperature range, °C	-40 to +45



LED luminaire LV-DROID



MOUNTING ON A FLANGE DECORATIVE LIGHTING FOR:

- Residential areas
- Courtyard areas
- Parks
- Pathways
- Flower beds



SPECIFICATION:

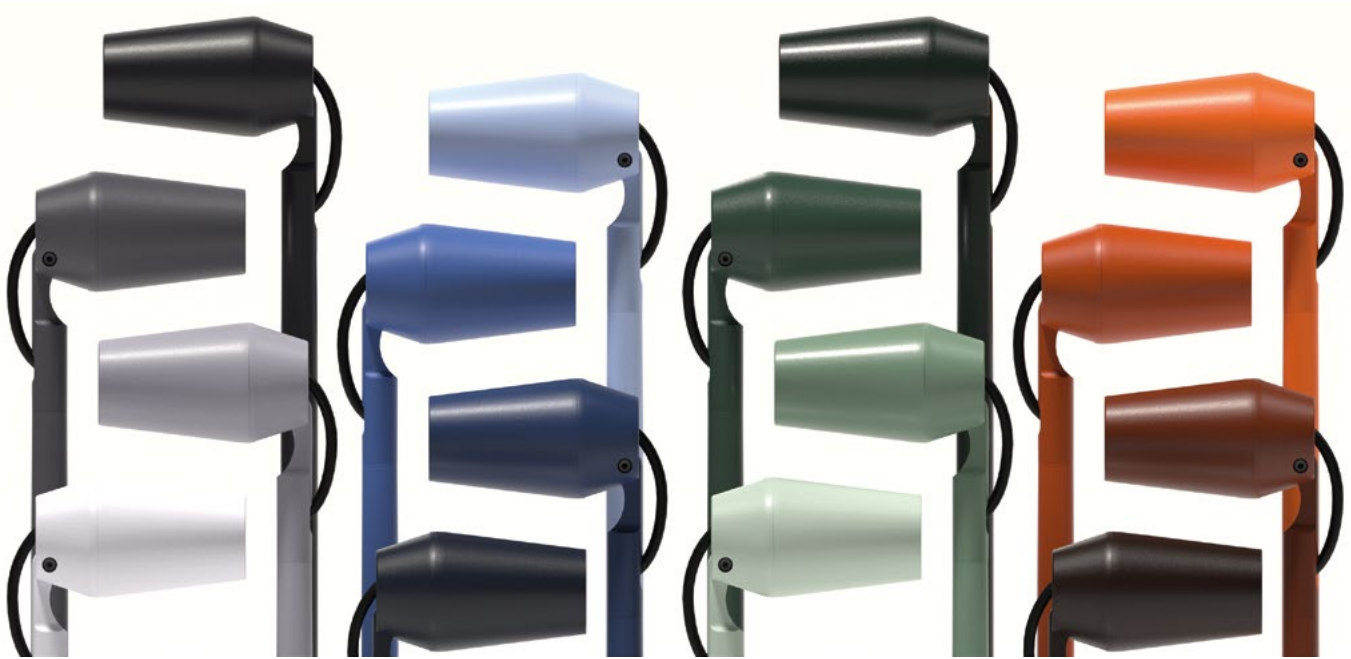
LV-DROID is a compact outdoor post-mounted luminaire designed for localized lighting of plants and pedestrian paths.

Its elegant body and slender post create a neat silhouette, while the soft, directed light highlights the landscape without visual clutter.



TECHNICAL SPECIFICATIONS:

Power consumption, W	2-3
Luminous flux, L	66-216
Color temperature, K	2700 / 3000 / 4000
Supply voltage and type, V	AC 230, DC 12-24
Net weight, kg	0.7
Protection rating, IP	IP66
Operating temperature range, °C	-40 to +45



LED luminaire LV-SKIRT



MOUNTING ON A POLE DECORATIVE LIGHTING FOR:

- Residential areas
- Courtyard areas
- Parks
- Pathways
- Streets and roads

SPECIFICATION:

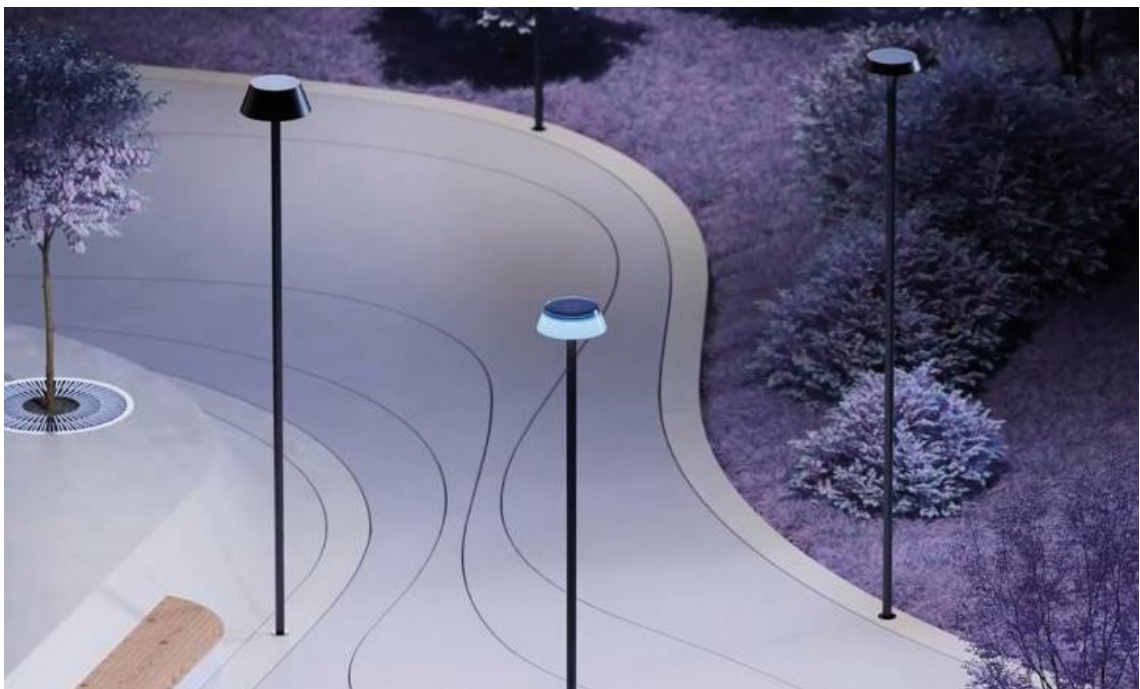
LV-SKIRT is an elegant post-top luminaire designed for urban environments. Its soft and even illumination creates a comfortable atmosphere in parks, squares, and walkways without disrupting the overall aesthetic of the space. The cast aluminum body ensures strength, lightness, and corrosion resistance, while the tempered glass provides additional protection for the light module and a refined appearance.

The luminaire offers extensive customization and styling options. Additional shades allow for changing its look, and versions with matte diffusers and optics expand its range of applications, enabling precise selection for various lighting tasks.



TECHNICAL SPECIFICATIONS:

Power consumption, W	20-60
Luminous flux, L	1800-5100
Color temperature, K	3000 / 4000
Supply voltage and type, V	AC 176-264
Net weight, kg	8
Protection rating, IP	IP65
Operating temperature range, °C	-40 to +45



LED luminaire LV-HIGGS



MOUNTING ON A FLANGE DECORATIVE LIGHTING FOR:

- Residential areas
- Courtyard areas
- Parks
- Pathways
- Flower beds

SPECIFICATION:

LV-HIGGS is a minimalist outdoor bollard luminaire designed for lighting pedestrian areas in public spaces. The housing is made of aluminum and an impact-resistant PMMA diffuser, providing reliable protection against external factors and stable operation in all weather conditions.

The concealed light source creates a soft, glare-free illumination that highlights landscape and architectural elements without excessive brightness. It is ideal for projects where understated design, durability, and visual comfort are essential.



TECHNICAL SPECIFICATIONS:

Power consumption, W	7
Luminous flux, L	214
Color temperature, K	3000
Supply voltage and type, V	AC 176–264
Net weight, kg	4,4
Protection rating, IP	IP65
Operating temperature range, °C	–40 to +45





About Us

NPK Virona is a Russian manufacturer of LED lighting fixtures for residential and industrial facilities. The company maintains a comprehensive equipment manufacturing process and strict quality control.

The company's product range includes over 5,000 lighting fixture models:

- Industrial lighting fixtures for manufacturing facilities
- Explosion-proof lighting fixtures for hazardous facilities and production areas
- Lighting fixtures for retail spaces: pavilions and stores
- Office lighting fixtures: for business spaces and offices
- Lighting fixtures for highways and roads

Furthermore, thanks to its in-house engineering department, the company develops unique lighting fixtures based on customer specifications. We adapt technical specifications to specific projects and operating conditions, from dimensions and power selection to color rendering.



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Virona Expertise



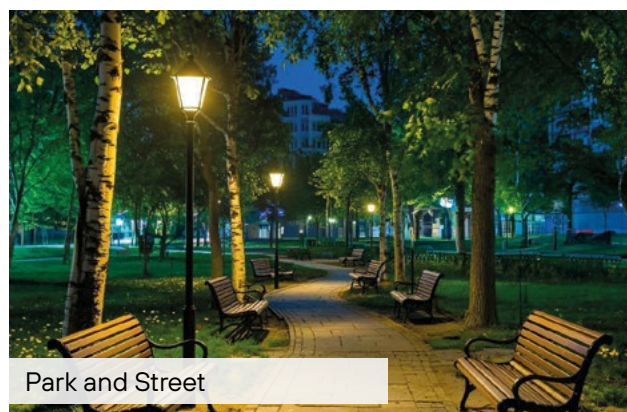
LED lighting fixtures



Industrial lighting fixtures



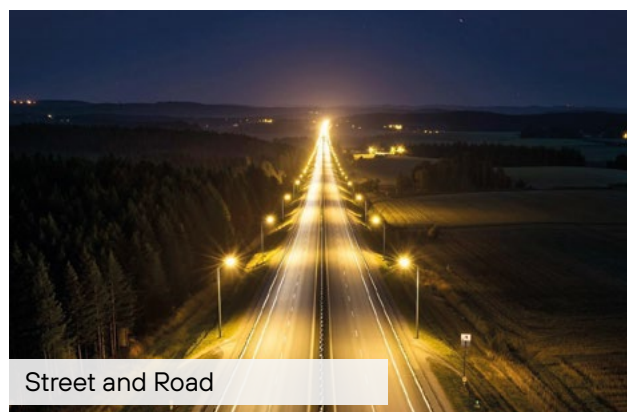
Explosion-proof lighting



Park and Street



Industry



Street and Road



Trading



Industrial enterprise

ANO «Svetotekhnika Consortium»



Web: <https://light-cons.ru/en/>

Email: info@russia-led-ssl.ru



**CONSORTIUM OF RUSSIAN
LIGHTNING MANUFACTURERS**



**CONSORTIUM OF RUSSIAN
LIGHTNING MANUFACTURERS**

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