



Elintel

Road lighting technology
LED lighting systems

LED lighting



LLC "Elintel"

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ISO 9001:2008

№ РОССТАН. 3609.044Ж00/

EC.C.O.02.01.000526-11

LED STREET LAMPS SUS



Street SUS lamps with high-radiance LEDs are intended for energy-saving lighting of highways, streets, roads, bridges, gas stations, plazas, courtyards, warehouses, manufacturing facilities and grounds, railway platforms, pedestrian crossings, squares, boulevards

SUS lamps may also be provided in explosion-proof version with explosion-proof marking Ex nR II T6 X and combustible dust protection marking Ex tD A21 IP67 T80 °C according to GOST R 52350.0-2005 (IEC 60079-0:2004), GOST R IEC 61241-0-2007. Application field - explosion hazard class 2 indoor and outdoor areas as well as class 21 combustible dust hazard zones in accordance with GOST R 52350.14-2006 (IEC 60079-14-2002), ch. 7.3 PUE.

The lamps are mounted on pipe (console) or similar.

High-performance white glow LEDs are used as lamp light source.

Lamps are made in UHL (boreal climate) design, placement category 1 according to GOST 15150. Protection degree: IP67/54 and IP67 for explosion-proof lamps.

SUS lamps may ensure actual energy saving and low maintenance cost. This is achieved due to:

1. durability and long life of LED lamps;
2. no LEDs replacement and lamps maintenance for life duration;
3. low energy consumption;
4. smaller power supply cable cross section;
5. ability to operate in power under-supply and reduced mains load conditions;
6. environmental safety.

Lamps meet safety requirements according to GOST R IEC 60598-1, GOST R IEC 60598-2-3 and are provided with quality certificate



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Lamp external view	Power supply voltage, V	Lamp type
	220	SUS-50
		SUS-70
		SUS-90
	12	SUS-50-12
		SUS-70-12
		SUS-90-12
	220	SUS-M-120
		SUS-M-150
		SUS-M-180

Lamps meet safety requirements according to GOST R IEC 60598-1, GOST R IEC 60598-2-3 and are provided with quality certificate

Marking of explosion-proof lamps

Explosion safety of lamps is ensured by "protection type n" in accordance with GOST R 52350.15-2005 and design in accordance with requirements of this standard.

Ex-marking for explosive gas media

Ex nR II T6 X

1 2 3 4 5

- 1 - **Ex** mark indicates that the electrical equipment meets explosion protection standards;
- 2 - protection type "n", explosion protection method "nR";
- 3 - electrical equipment group designation for use in explosive gas media (other than mines with damp gas hazard);
- 4 - temperature class and maximum surface temperature designation - **T6** = 85 ° C;
- 5 - "**X**" mark – means, that special safety conditions are required:
 - $-60^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$;
 - translucent element shall be wiped only with damp cotton cloth;
 - to be mounted in areas with low risk of mechanical damage.

Ex-marking for explosive dust media

Ex tD A21 IP67 T80°C

1 2 3 4 5

- 1 - **Ex** mark indicates that the electrical equipment meets explosion protection standards;
- 2 - explosion protection type designation: **tD** – enclosure provided protection;
- 3 - electrical equipment operation area;
- 4 - enclosure provided protection degree;
- 5 - maximum surface temperature.



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LED street lamps

SUS-50, SUS-70, SUS-90, SUS-50-12, SUS-70-12, SUS-90-12

SUS-50, SUS-50-12 lamps are designed for lighting of pre-entrance areas to apartment blocks, public yards, private courtyards, garages, playgrounds, alleys.

SUS-70, SUS-70-12 lamps are designed for lighting of parking lots near supermarkets and other facilities, gas stations, industrial areas, factories and plants, railway platforms and crossings, pedestrian bridges. They are also suitable for lighting of house yards, pedestrian and green areas, such as: alleys, public gardens, urban boulevards and parks.

SUS-90, SUS-90-12 lamps are designed for lighting of bridges, streets and highways. SUS-90, SUS-90-12 differ from SUS-50, SUS-50-12 and SUS-70, SUS-70-12 by more powerful light output and can be used for lighting of the above areas with the use of fewer lamps.

SUS-50, SUS-70, SUS-90 lamps specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Protection degree against external factors	IP67/54 (IEC 60529)
Power supply voltage, V	220V ± 25%
Operating temperature range:	– 60°C - +40°C
Relative humidity at 25 ° C	100%
Power factor	> 0.98
Total harmonic distortion	< 10%
Power consumption, W, not more	
SUS -50	50
SUS -70	70
SUS -90	90
Luminous flux, lm, not less	
SUS -50	4250
SUS -70	6000
SUS -90	7700
Radiation angle relative to road, degrees, at least:	
in longitudinal meridian plane	155
in transverse meridian plane	95
Overall dimensions, mm:	605x280x105
Mass, kg, not more	4.5
Service life, thousand hours	100
Warranty period, years	3



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SUS-50-12, SUS-70-12, SUS-90-12 lamps specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Protection degree against external factors	IP67/54 (IEC 60529)
Power supply voltage, V	8.5 -16
Operating temperature range:	- -60°C - +40°C
Relative humidity at 25 ° C	100%
Power consumption, W, not more	
SUS -50-12	50
SUS -70-12	70
SUS -90-12	90
Luminous flux, lm, not less	
SUS -50-12	4250
SUS -70-12	6000
SUS -90-12	7700
Radiation angle relative to road, degrees, at least:	
in longitudinal meridian plane	155
in transverse meridian plane	95
Overall dimensions, mm:	605x280x105
Mass, kg, not more	4.5
Service life, thousand hours	100
Warranty period, years	3

Axial illumination (E) according to table

Raise height, m	Axial illumination, Lux, at least		
	SUS-50, SUS-50-12	SUS-70, SUS-70-12	SUS-90, SUS-90-12
1	1224	1,836	2448
2	306	459	612
4	76	114	153
6	34	51	68
8	19	28	38
10	12	18	21
12	8	12	17



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LED street lamps SUS-M -120, SUS-M -150, SUS-M -180

LED street lamps SUS-M-120, SUS-M -150, SUS-M -180 are designed for powerful lighting of freeways, multi-lane urban roads, squares, tunnels, bridges, large storage areas, etc.

Type "W" street lamps light distribution provides for uniform road surface illumination, maximum comfort, safety for drivers and pedestrians.

SUS-M LED street lamp housing is made of anodized aluminum with shock resistant optical polycarbonate glass.

SUS-M-120, SUS-M-150, SUS-M-180 specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Protection degree against external factors	IP67/54 (IEC 60529)
Power supply voltage, V	220V ± 25%
Operating temperature range:	- -60°C - +40°C
Relative humidity at 25 ° C	100%
Power factor	> 0.98
Total harmonic distortion	< 10%
Power consumption, W, not more	
SUS-M-120	100
SUS-M-150	140
SUS-M-180	175
Luminous flux, lm, not less	
SUS-M-120	10,800
SUS-M-150	14,400
SUS-M-180	18,000
Radiation angle relative to road, degrees, at least:	
in longitudinal meridian plane	155
in transverse meridian plane	100
Overall dimensions, mm:	908x340x150
Mass, kg, not more	9
Service life, thousand hours	100
Warranty period, years	3

Axial illumination (E) according to table

Raise height, m	Axial illumination, Lux, at least		
	SUS-M-120	SUS-M-150	SUS-M-180
1	2,937	3,320	3,740
2	734	800	980
4	183	200	230
6	82	93	102
8	46	56	64
10	25	33	40
12	20	23	25



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SUS advantages:

1. 50% energy saving compared with high-pressure sodium arc street lamps and 70% compared with mercury-vapor street lamps;
2. Saving in operating costs, which is particularly important for lamps replacement in hard-to-reach places;
3. Environmental safety for use and disposal due to absence of heavy metals, halides (mercury, tungsten, molybdenum, and iodine) in SUS lamps;
4. Better visibility, sharpness of boundaries and space, better depth perception due to higher contrast;
5. High degree of electrical and fire safety due to low heat release and low supply voltage;
6. High mechanical strength, vibration resistance and reliability due to absence of glass bulb, filament and burner in SUS lamps;
7. Instant lighting at supply voltage application;
8. No electric mains overload hazard at lamp lighting instant;
9. Resistance to voltage drops;
10. No change in light flux at significant voltage drops;
11. No oxidation and contact deterioration between lamp and holder, which is common with lamps;
12. Stable operation in all weather conditions;
13. Money saving right at power consumption point negotiation, as authorized electricity connection point arrangement provides for kilowatt charges (*three mercury-vapor street lamps DRL-250 or eleven SUS-90 lamps may be connected per agreed 1kW*). For example, 85,000 rubles per 1kW is charged in Moscow, i.e. 28,333 rubles per each fixture with DRL-250 lamp and 7727 rubles per each SUS-90 respectively. It can be concluded from the above that SUS LED lamps will be paid back at new facilities in the first month of operation).
14. Cable of smaller section may be used at installation of SUS LED street lamps.

Payback period of SUS LED street lamps does not exceed 15 - 17 months (SUS-50, SUS-90 - 17 months, SUS-70 - 15 months).



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Comparative specifications

Pos. №	Specification name	Lamp fixture type RKU,ZHKU,GKU with mercury-vapor street lamp DRL- 250	Lamp SUS-50	Lamp SUS-70	Lamp SUS-90
1	Emission color	Cool white	Optional	Optional	Optional
2	Color temperature	5000-5500 K	4000-7000 K	4000-7000 K	4000-7000 K
3	Operating voltage	200-260 V	150-260 V	150-260 V	150-260 V
4	Total lamp power	from 300 to 400W; depending on control gear type.	50W	70W	90W
5	Consumption current	2.73 A;	0.28 A;	0.32 A;	0.41 A;
6	Starting current	4.5 A;	No	No	No
7	Effective light emission angle	90x130	95x155	95x155	95x155
8	Light source luminous flux	12000 lm.	4250 lm.	6000 lm.	7700 lm.
9	Lamp output luminous flux	6480 lm.	3825 lm.	5400 lm.	7000 lm.
10	Luminous flux ratio	0.54	1.0	1.0	1.0
11	Service life prior to light source replacement	8000 hours (equivalent to 2 years of operation at 10.54 hours of use per day)	100 000 hours (equivalent to 26 years of operation at 10.54 hours of use per day)	100 000 hours (equivalent to 26 years of operation at 10.54 hours of use per day)	100 000 hours (equivalent to 26 years of operation at 10.54 hours of use per day)



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US lamps application in housing, condominium and utilities sector for house yards lighting



LED lamps are used for many lighting tasks, including active use in housing, condominium and utilities sector to reduce energy cost and maintenance expenses.

SUS lamp fixtures, manufactured by "Elintel", prove themselves to be efficient in housing and utilities sector for lighting of access areas and house yards. Attractive lamp fixture design fits well into modern housing infrastructure. SUS lamp fixtures may be installed on poles, house fronts for lighting of house territories, playgrounds as well as school and kindergarten buildings and other municipal facilities.

The following advantages may be attained by installing LED lamps to illuminate house yard areas:

- durability and long life;
- ability to operate in power under-supply and reduced mains load conditions;
- Attractive lamp fixture design, which fits well into modern housing infrastructure.
- use of impact-resistant polycarbonate as protective lamp glass ensures lamp fixture integrity throughout service life;
- high color rendering index ($Ra > 80$) of our lamps provides for comfortable white light, close to natural;
- high contrast is ideal for video surveillance cameras, captured objects are more distinguishable and recognizable.
- LED lamps are maintenance-free for life duration;

Lighting of house areas makes urban life more comfortable and safe. The use of SUS lamps at design, construction or reconstruction stage of lighting system will provide high quality innovative light sources with manufacturer warranty. The use of LED lamps is environmentally friendly as LEDs are free from mercury vapor and heavy metals. Moreover, lower energy consumption will provide bright comfortable lighting now, while we care for the future.





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STATIONARY AND BUILT-IN LED LAMPS OF SSPO, SSVO SERIES FOR LIGHTING OF PUBLIC AREAS



LED lamps series SSPO, SSVO are intended for general lighting of residential, public, administrative, utility and industrial buildings.

Lamps are used for office and home lighting and lighting of stairways, corridors, halls, entrance territories in housing sector.

High-performance white LEDs are used as light source in lamps series SSPO, SSVO.

Lamp fixture body is made of sheet steel with polymeric white coating.

LED lamps offer significant energy saving, no flickering, no maintenance and have long life in contrast with similar fluorescent lamps.

Lamps meet safety requirements by GOST R IEC 60598-1,

GOST R IEC 60598-2-2 and are provided with quality certificate.

Body design options:

"R" - with transparent polymethylacrylate diffuser of prismatic structure provides for maximum light flux dispersion and eliminates glare from point light sources.

"O" - with mirror reflector provides for efficient light distribution.





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Surface-mounted lamp fittings

Mounted on any flat surface.

Lamp external view	Lamp type (overall dimensions, mm)	Number of LEDs	Consumption power, W, not more	Luminous flux, lm, not less
	SSPO-620x620x85-R-24 (620x620x85)	24	30	2500 - 3000
	SSPO-620x620x85-R-36 (620x620x85)	36	50	3200 - 3500
	SSPO-620x620x85-R-48 (620x620x85)	48	70	4200 - 4500
	SSPO-620x620x85-O-24 (620x620x85)	24	30	3000 - 3500
	SSPO-620x620x85-O-36 (620x620x85)	36	50	4000 - 4500
	SSPO-620x620x85-O-48 (620x620x85)	48	70	5000 - 5500
	SSPO-630x145x65-R-12 (630x145x65)	12	17	1250 - 1500
	SSPO-630x145x65-R-18 (630x145x65)	18	26	1800 - 2200
	SSPO-630x145x65-R-24 (630x145x65)	24	30	2500 - 3000
	SSPO-1240x145x53-R-24 (1240x145x53)	24	30	2500 - 3000
	SSPO-1240x145x53-R-36 (1240x145x53)	36	50	3200 - 3500
	SSPO-1240x145x53-R-48 (1240x145x53)	48	70	4200 - 4500

Universal lamps

Mounted on suspended ceilings type "Armstrong" or on any flat surface.

Lamp external view	Lamp type (overall dimensions, mm)	Number of LEDs	Consumption power, W, not more	Luminous flux, lm, not less
	SSVO-595x595x40-R-24 (595x595x83)	24	30	2500 - 3000
	SSVO-595x595x40-R-36 (595x595x83)	36	50	3200 - 3500
	SSVO-595x595x40-R-48 (595x595x83)	48	70	4200 - 4500



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Built-in lamps

Mounted on suspended ceilings type "Armstrong" .

Lamp external view	Lamp type (overall dimensions, mm):	Number of LEDs	Consumption power, W, not more	Luminous flux, lm, not less
	SSVO-595x595x83-R-24 (595x595x83)	24	30	2500 - 3000
	SSVO-595x595x83-R-36 (595x595x83)	36	50	3200 - 3500
	SSVO-595x595x83-R-48 (595x595x83)	48	70	4200 - 4500
	SSVO-595x595x83-O-24 (595x595x83)	24	30	3000 - 3500
	SSVO-595x595x83-O-36 (595x595x83)	36	50	4000 - 4500
	SSVO-595x595x83-O-48 (595x595x83)	48	70	5000 - 5500

Lamps specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Degree of protection against external factors	IP20 (IEC 60529)
Power supply voltage, V	150 -260
Power supply voltage frequency, Hz	50 ± 2%
Light flux ripple ratio, Rr, not more	10%
Relative humidity at 25 ° C	95%
Operating temperature range:	-10°C - +40°C
Color temperature (Ct), K	4000 -7000
Continuous operation time	unlimited
Mass, kg, not more	2
Service life, years, not less	15
Warranty period, years	3



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Advantages of lamp fixture series SSPO, SSVO:

1. 50% energy saving;
2. Saving in operating costs, which is particularly important for lamps replacement in hard-to-reach places;
3. Environmental safety for use and disposal, due to absence of heavy metals, halides (mercury, tungsten, molybdenum, and iodine);
4. No adverse ultraviolet and infrared radiation as well as low-frequency fluctuations (strobe effect), resulting in less eye fatigue during the day;
5. High degree of electrical and fire safety due to low heat release and low supply voltage;
6. Transparent polymethylacrylate diffuser of prismatic structure provides for maximum dispersion of light flux and eliminates glare from point light sources.
7. Absence of radio and electromagnetic emissions in power supply circuit after lamp turn on;
8. No change in light flux at significant voltage drops;
9. No oxidation and contact deterioration between lamp and holder, which is common with lamps;

Comparative specifications

Pos. No.	Specification name	Lamp fixture type "Armstrong" with 4 fluorescent lamps by 18W	Lamps of SSPO,SSVO series
1.	Emission color	Cool white	Optional
2.	Color temperature	5000-5500 K	4000-7000 K
3.	Operating voltage	200-260 V	150-260 V
4.	Consumption power,	72W	35W
5.	Effective light emission angle	120	120
6.	Luminous flux	3000 lm.	2500-3000 lm
7.	Luminous flux ratio	0.5	1.0
8.	Service life prior to light source replacement	5000 hours (equivalent to 625 days of operation at 8 hours use per day)	75,000 hours (equivalent to 25 years of operation at 8 hours use per day)



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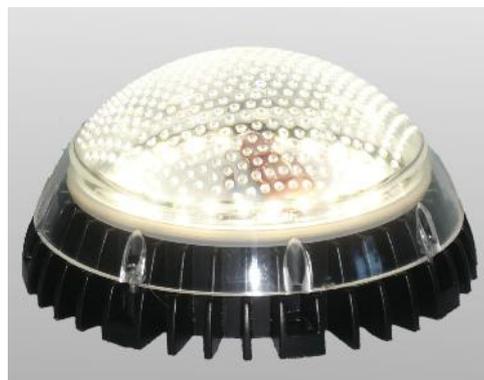


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STATIONARY LED LAMPS FOR LIGHTING OF HOUSING SECTOR FACILITIES, SSPO-150x70-R, SSPO-150x70-R-D



LED lamps SSPO-150x70-R, SSPO-150x70-R-D are designed for general lighting of housing facilities: residential, public, engineering and utility premises, stairways, corridors, lobbies, hallways in dwelling houses, schools, kindergartens, hospitals as well as office, retail, warehouse, garage and basement facilities, lighting of pedestrian underpasses.

LED lamps SSPO-150x70-R, SSPO-150x70-R-D may be also used for general lighting of housing facilities: LED lighting of house entrances, utility areas, etc.

SSPO -150x70-R-D lamp is complemented with built-in sensors:

1. noise (acoustic) sensor;
2. light (optical) sensor;
3. noise and light (optical and acoustic) sensor.

Optical sensor responds to light level in room and turns off the light at sufficient daylight.

Acoustic sensor responds to sounds such as: steps, speech, ringing keys, elevator movement. Acoustic sensor turns on light in the range of noise for brief time. This time is sufficient enough to walk, for example, from elevator to front door and to open it. The lamp turns off after specified time lapse and at no noise in sensor response range.

White light LED module Acrich 2 SEOUL SEMICONDUCTOR is used as lamp light source.

Lamp housing is made of aluminum section with large heat removal area and durable polycarbonate diffuser.



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LED lamps for housing and condominium utilities are designed to replace conventional light sources used in houses and offices with significant advantage in operational and lighting parameters.

LED lamps for housing utilities are distinguished by ultra-low power consumption, long life and no maintenance costs within service life, ease of installation and operation, high protection degree, clear and saturated colors, no harmful emissions, better light flux direction. And one shall not forget about significant power saving when using LED lamps, which is becoming increasingly important with ever-increasing energy cost.

Lamps meet safety requirements by GOST R IEC 60598-1, GOST R IEC 60598-2-2.

Specifications of SSPO-150x70-R, SSPO-150x70-R-D lamp fixtures

Specifications	Value
Electric shock protection class	I (IEC 61140)
Degree of protection against external factors	IP65 (IEC 60529)
Power supply voltage, V	150 -260
Power supply voltage frequency, Hz	50 ± 2%
Relative humidity at 25 °C	95%
Operating temperature range:	-60°C - +50°C
Power, W, not more	12
Light emission angle, degrees	120
Luminous flux, lm, not less	900
Color temperature (Ct), K	4,700 x 5,300
Continuous operation time	unlimited
Overall dimensions, mm:	Ø 150X70
Mass, kg, not more	0.46
Service life, years, not less	25
Warranty period, years	3



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STATIONARY DUST AND WATER TIGHT IP 65 LED LAMPS of SSSP series FOR LIGHTING OF INDUSTRIAL FACILITIES

LED lamp fixtures of SSSP series are designed for general lighting of industrial facilities, shopping halls, warehouses, and municipal agencies.

Enclosure protection of IP65 lamps offers the possibility for installation in areas susceptible to excessive dust and moisture content, corrosive environments, agricultural premises, workshops and storerooms, bathrooms, showers and kitchens. The lamps may be used outdoors under canopy.

High-performance white glow LEDs are used as lamp light sources.

LEDs power supply source - driver is equipped with power factor corrector to ensure $\cos \phi$ to be at least 0.98 for more efficient use of power network.

The driver is protected against voltage surges over 275 Volts and is provided with in-built elements to absorb short-term high-voltage pulses.

The driver is equipped with galvanic isolation system to protect LEDs from burning out in the event of power supply failure.

Lamp external view	Lamp type (overall dimensions, mm):	Number of LEDs	Consumption power, W, not more	Luminous flux, lm, not less
	SSSP-1010x128x110-R-96	96	130	11,000
	SSSP-1010x128x110-R-72	72	90	8,000
	SSSP-1030x150x75-R-48	48	70	5,500
	SSSP-1260x161x110-R-36	36	50	4,000
	SSSP-1260x161x110-R-24	24	30	3,000

LED lamps offer significant energy saving, no flickering, no maintenance and have long life to compare with similar fluorescent lamps.

Lamps meet safety requirements by GOST R IEC 60598-1, GOST R IEC 60598-2-2.



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LED LAMP SSSP-1010x128x110-R-96(72)



Lamp is mounted on wire suspension and has modular design. The system may contain from 1 to 4 modules (lamps).

High-performance white glow LEDs are used as lamp light source. Number of LEDs - 96/72 pcs.

Lamp housing is made of aluminum section with large heat removal area and transparent polycarbonate diffuser.

Lamps SSSP-1010x128x110-R-96, SSSP-1010x128x110-R-72 specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Protection degree against external factors	IP65 (IEC 60529)
Power supply voltage, V	150 -260
Power supply voltage frequency, Hz	50 ± 2%
Light flux ripple ratio, Rr, not more	10 %
Relative humidity at 25 ° C	95%
Operating temperature range:	-60°C - +50°C
Power consumption, W, not more	
SSSP-1010x128x110-R-96	130
SSSP-1010x128x110-R-72	90
Light emission angle, degrees	60
Luminous flux, lm, not less	
SSSP-1010x128x110-R-96	11,000
SSSP-1010x128x110-R-72	8,000
Color temperature (Ct), K	4,500 -6,500
Continuous operation time	unlimited
Overall dimensions,mm:	1010x128x110
Mass, kg, not more	7
Service life, years, not less	20
Warranty period, years	3



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LED LAMP SSSP-1030x150x75-R-48



Lamp of modular design is mounted on wire suspension or any flat surface. The system may contain from 1 to 4 modules (lamps).

High-performance white glow LEDs are used as lamp light source. Number of LEDs - 48 pcs.

Lamp housing - sheet steel with polymeric white coating and transparent polycarbonate diffuser.

Lamp SSSP-1030x150x75-R-48 specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Protection degree against external factors	IP65 (IEC 60529)
Power supply voltage, V	150 -260
Power supply voltage frequency, Hz	50 ± 2%
Light flux ripple ratio, Rr, not more	10 %
Relative humidity at 25 ° C	95%
Operating temperature range:	-60°C - +50°C
Power consumption, W, not more	70
Light emission angle, degrees	60
Luminous flux, lm, not less	5,500
Color temperature (Ct), K	4,500 -6,500
Continuous operation time	unlimited
Overall dimensions,mm:	1030x150x75
Mass, kg, not more	4
Service life, years, not less	20
Warranty period, years	3



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LED LAMP SSSP-1260x161x110-R-36(24)



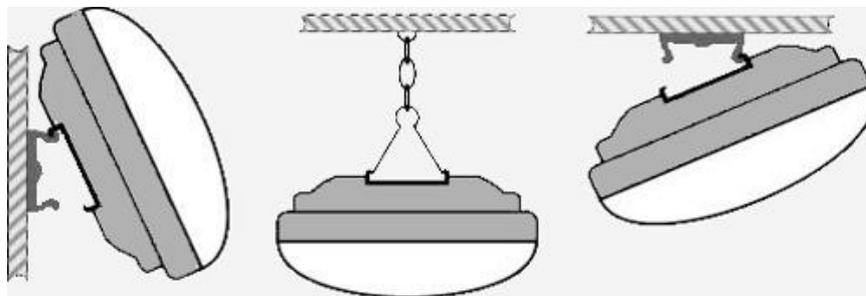
Lamp is mounted on wire suspension or any flat surface.

High-performance white glow LEDs are used as lamp light source. Number of LEDs - 24/36 pcs.

Lamp housing - impact and fire resistant polycarbonate with aging resistant seal.

Diffuser - transparent impact resistant polycarbonate, which is stable and does not turn yellow due to UV radiation. Prismatic notches on diffuser inside ensure low light loss and optimum light distribution. Completely smooth exterior for easy cleaning.

LED lamp SSSP-1260x161x110-R-36(24) is equipped with various types of fasteners. The lamp is snapped in metal clamp for ceiling or wall mounting. The lamp set is also provided with fixtures for lamp suspension on ropes.





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Lamps SSSP-1010x128x110-R-96, SSSP-1010x128x110-R-72 specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Protection degree against external factors	IP65 (IEC 60529)
Power supply voltage, V	150 -260
Power supply voltage frequency, Hz	50 ± 2%
Light flux ripple ratio, Rr, not more	10 %
Relative humidity at 25 ° C	95%
Operating temperature range:	-60°C - +50°C
Consumption power , W, not more	
SSSP-1260x161x110-R-36	50
SSSP-1260x161x110-R-24	30
Light emission angle, degrees	60
Luminous flux, lm, not less	
SSSP-1260x161x110-R-36	4,000
SSSP-1260x161x110-R-24	3,000
Color temperature (Ct), K	4,500 -6,500
Continuous operation time	unlimited
Overall dimensions, mm:	1260x161x110
Mass, kg, not more	2.2
Service life, years, not less	20
Warranty period, years	3



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LED SPOTLIGHTS type PS

LED spotlights type PS are intended for lighting or illumination of billboards, shop windows, house facades, architectural and landscape ensembles, construction, housing and communal facilities as well as for interior design.

High-performance white, blue, green, red or yellow LEDs are used as spotlight light source.

Spotlight design allows to change object illumination angle.

LED spotlight ensures significant energy saving, no flickering, does not require maintenance, has long lifespan.

LED SPOTLIGHT PS-12, PS-16

Spotlight external view	Spotlight type	Glow color
	PS-12-B-220 PS-16-B-220	White*
	PS-12-L-220 PS-16-L-220	Green
	PS-12-S-220 PS-16-S-220	Blue
	PS-12-K-220 PS-16-K-220	Red:
	PS-12-ZH-220 PS-16-ZH-220	Yellow

* Color temperature (Ct) for PS-12-B-220, PS-16-B -220 - 4500-5500K.



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Spotlights PS-12, PS-16 specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Protection degree against external factors	IP54 (IEC 60529)
Power supply voltage, V	150 -265
Power supply voltage frequency, Hz	50 ± 2%
Relative humidity at 25 ° C	100%
Operating temperature range:	-60°C - +40°C
Power consumption, W, not more	
PS-12	13
PS-16	18
Consumption current , A, max	
PS-12	0.06
PS-16	0.08
Luminous flux, lm, not less	
PS-12	1200
PS-16	1600
Radiation angle, degrees, at least:	120
Overall dimensions, mm:	180x140x120
Mass, kg, not more	1.1
Service life, hours, not less	100,000
Warranty period, years	3





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LED SPOTLIGHT PS-25

Spotlight external view	Spotlight type	Glow color
	PS-25-B-220	White*
	PS-25-L-220	Green
	PS-25-C-220	Blue
	PS-25-K-220	Red:
	PS-25-ZH-220	Yellow

* Color temperature (Ct) for PS-25-B-220 - 4500-5500K.
Spotlight body color - gray, black.

Spotlight PS-25 specifications

Specifications	Value
Electric shock protection class	I (IEC 61140)
Protection degree against external factors	IP65 (IEC 60529)
Power supply voltage, V	150 -265
Power supply voltage frequency, Hz	50 ± 2%
Operating temperature range:	-60°C - +40°C
Relative humidity at 25 ° C	100%
Power consumption, W, not more	30
Consumption current , A, max	0.15
Luminous flux, lm, not less	2500
Radiation angle, degrees, at least:	120
Overall dimensions, mm:	450x230x65
Mass, kg, not more	3.6
Service life, hours, not less	100,000
Warranty period, years	3