

Product line of LED Lights for the House and public utilities Catalogue 2014



Product lines:

“Domus-Intelligent” & “Domus-Standart”

Argos-Trade is a trade representative of Argos-Electron Factory since 2005

www.argos-trade.com



Argos-Electron Ltd

"Argos" Group of Companies



The year of foundation:

"Argos-Trade Ltd." - 2005

"Argos-Electron Ltd." - 2008

Location:

Production capacities – Leningradskiy region, Lomonosovskiy district, Gorbunki, Russia

Headquarters - Sophiyskaya st., 8-1 lit.B, Saint Petersburg, Russia

Products: LED Lights for the housing and public utilities, opto-acoustic sensors, LED Drivers, LED modules.

Capacity: 450,000 units per month

Factory occupies a territory of 5000 sq.m

NEW PRODUCT

LED Lights for the house and public utilities "Domus-Intelligent" series are the LED house lights with a standby mode feature and the opto-acoustic sensors.

LED Lights for the house and public utilities "Domus-Standart" series are the house LED lights without a feature of algorithmic management of illumination. Lights are delivered as non-assembled units. The set of delivery consists of three basic parts:



1. **1. The decorative frame. It binds the leakproof light module (IP54) with the anti-vandal mounting bracket by anti-vandal screws. A material of the frame: ABS.**

Alternatives of color of a frame: white, grey and ivory.

2. **2. The leakproof light module (IP54). It consists of:**

- Anti-vandal lens diffuser (It provides uniform illumination without a dazzling effect). Material of the diffuser: SAN;
- The sealing part (it provides hermetic sealing of the light and raises its protection up to IP54). A material of the sealing part: rubber;
- The Intelligent LED module (on common PCB are placed: LEDs, LED Driver and Sensor);
- The Al heatsink (it provides heat rejection from LEDs);

3. - The sealed lead-in (it provides hermetic (IP54) leading-out of wire PVC-LS 3*0,5).

3. The anti-vandal mounting bracket. Material of the bracket: polyethylene (PE).

The design of the bracket provides universal fastening of the light, including on existing places of fastening on a wall or a ceiling, without consideration type of a wiring (flush wiring or open). Type of fixture: expansion bolts, self-tapping screws, etc. Operating conditions of the light: indoor or outdoor (is not afraid of atmospheric affecting) at an environment temperature from -40°C up to +40°C.

Principle of action of the Intelligent Module (LED module & LED Driver with a stand-by feature and the opto-acoustic sensor)

Each 60 seconds the Intelligent Module checks a level of ambient illumination and presence of sounds:

- Module immediately will be turned on to stand-by mode in case of darkness and silence.
- Module immediately will be turned on to full power mode in case of darkness, but some sounds are presented.
- Module will never be turned on to full power mode if ambient illumination is present.

Attention! The light will be automatically detecting its current mode in time of the first connection to AC line. This mode can be switched on even if bright ambient condition is present. It is fully admissible action. The light needs some time for running of a cycle of analysis and the light will be in suitable operation condition after some time.





Argos-Electron Ltd

Area of House Lights application

LED Lights for the house and public utilities the «Domus-Intelligent» product line with standby mode and opto-acoustic sensors have been designed for using in: entrance halls, stairway landings, stairway corridors, basement levels and utility rooms.

LED Lights for the house and public utilities the «Domus-Standart» product line have been designed for using in: entrance halls, stairway landings, stairway corridors, basement levels, corridors, stockrooms, bath-rooms and lavatories.

Principle of action of the Intelligent Module with a standby feature and the opto-acoustic sensor

Each 60 seconds the Intelligent Module checks a level of ambient illumination and presence of sounds:

- Module immediately will be turned on to standby mode in case of darkness and silence.
- Module immediately will be turned on to full power mode in case of darkness, but some sounds are presented.
- Module will never be turned on to full power mode if ambient illumination is presented.

Environmental rating of IP54 of lights of product lines “Domus-Intelligent” и “Domus-Standart” is assured by using of leading-outs of wires and sealing parts of diffusers. Thus these devices can be used in wet places and outdoor.

Factory warranty - 3 years



Stairway landings



Parking zones



Basement levels



Entrance halls



LED lights for the House and Public Utilities, product lines "Domus-Intelligent" & "Domus-Standart"

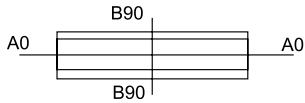
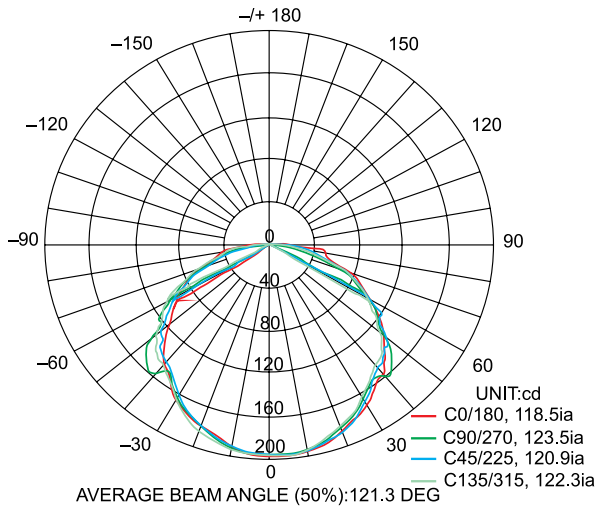
LED Lights for the House and Public Utilities /Specification		LED Light "Domus-Intelligent", standby mode, sensor	LED Light "Domus-Standart", standby mode, sensor
Output	Output current: nominal power; standby mode	0.16 A \pm 5%; 0.035 A \pm 5%	0.16 A \pm 5%; 0.035 A \pm 5%
	Power consumption: nominal power; standby mode	9,78 W nominal / 3,05 W Standby	13,28 W nominal / 3,63 W Standby
	Pulse Current: nominal power; standby mode	< 30mA; < 3,85mA	< 21mA; < 3mA
	Pulsations of a luminous flux of the module: nominal power; standby mode	< 18%; < 11%	< 13%; < 8%
	luminous flux of modules (Tc - 65°C @ 4000K): nominal power; standby mode	1062lm; 256 lm	1460lm; 350 lm
	luminous flux of modules (Tc - 65°C @ 4000K): nominal power; stand-by mode	1025lm; 257 lm	1409 lm; 353 lm
Input	Input range (nominal)	176 – 264 V AC	
	Input range max.1	150 – 280 V AC	
	Power factor correction (PFC)	Active	
	Frequency of input voltage	45 – 65 Hz	
	Power factor, PF: nominal power; standby mode	0.966; 0.748	0.979; 0.793
	Input current: nominal power; standby mode	0.046 A; 0.018A	0.061 A; 0.020 A
	Inrush current	Meets current of consumption	
	Leakage current	0.1 mA	
	Electromagnetic compatibility (Radio disturbance)	Correspond to EN 55015:2000, IEC 61000-3-2:2005, IEC 61000-3-3:2008, IEC 61547-2011	
Protection	No-load running protection	Automatic Recovery	
Types of LEDs	Seoul STW8Q14C (bin w5)	16LED	22LED
Opto-acoustic sensor	"Optical threshold of activation"	~10 lux	
	"Acoustical threshold of turning on (possible range) For example: whisper, rustle, rustling - 65dB; a clap hands - 80dB "	80 dB	
	The filter of reduction of sensitivity to low-frequency background noise (including street noises)	Yes	
	Restart for control	Each 60 sec	
Usage conditions	Operating Temperature (ambient)	-40 to +40°C	
	IP Code	IP00	
	Vibration	0,5-35 Hz, 5m/c ² , 30 min	
	Storage temperature	-60 to +85°C	
Safety	Galvanic isolation	none	
	Isolation Voltage: (input - ground); (output - ground)	> 1,5 kV AC	
	Isolation Resistance (between current-carrying and case)	> 200 MOhm	
	Standards on general requirements and safety	IEC 61347-1:2007; IEC 61347-2-13-2011 and TY 3461-003-609440703-2013	
MTBF		> 50000 hours	
Warranty		3 Years for LED Light from the day of putting into operation, but not longer than 4 years from the date of delivery	



LED Light for the house and public utilities "Domus-Intelligent" 10W (16 LED)

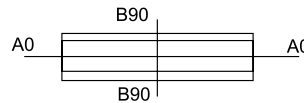
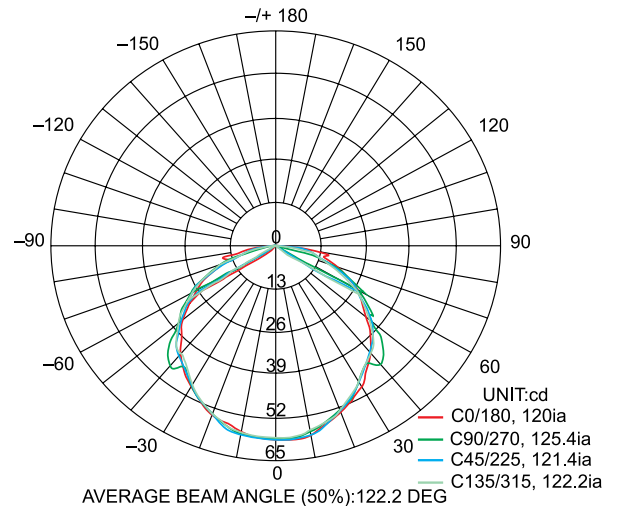
100 % Power (nominal conditions)

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



20 % Power (Standby mode)

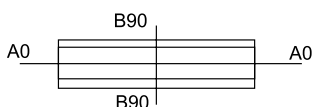
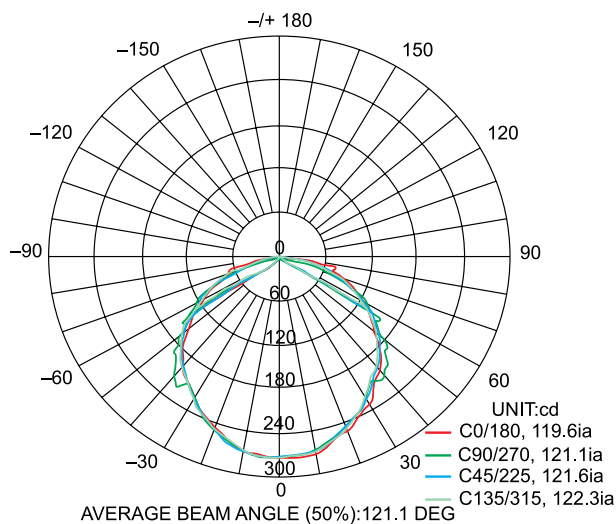
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



LED Light for the house and public utilities "Domus-Intelligent" 13W (22 LED)

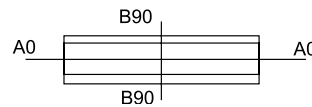
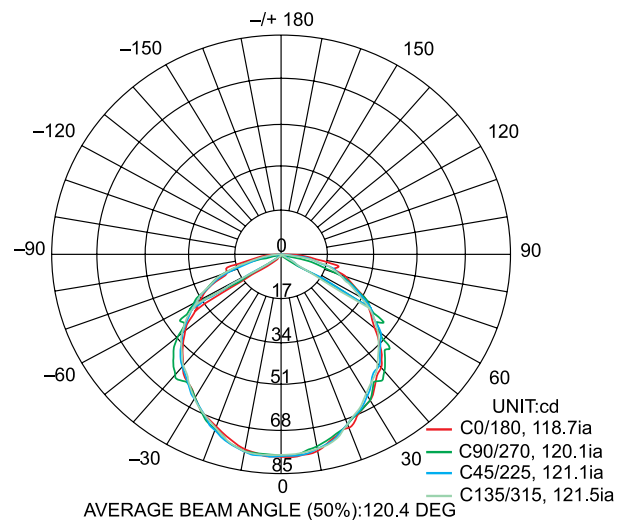
100 % Power (nominal conditions)

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



20 % Power (Standby mode)

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM





Ordering Information

Order number	Size	QTY in box (pcs.)	Weight of product (g)	Weight of box (kg)
LED light "Domus-Intelligent", 10W, IP54, standby sensor, 5000K, white, order 200.10.1.1.1	200x200x60 mm	5	600	3
LED light "Domus-Intelligent", 10W, IP54, standby sensor, 5000K, ivory, order 200.10.1.2.1	200x200x60 mm	5	600	3
LED light "Domus-Intelligent", 13W, IP54, standby sensor, 5000K, white, order 200.13.1.1.1	200x200x60 mm	5	600	3
LED light "Domus-Intelligent", 13W, IP54, standby sensor, 5000K, ivory, order 200.13.1.2.1	200x200x60 mm	5	600	3
LED light "Domus-Standart", 9W, IP54, 5000K, white, order 200.9.0.1.1	200x200x60 mm	5	600	3
LED light "Domus-Standart", 9W, IP54, 5000K, ivory, order 200.9.0.2.1	200x200x60 mm	5	600	3
LED light "Domus-Standart", 12W, IP54, 5000K, white, order 200.12.0.1.1	200x200x60 mm	5	600	3
LED light "Domus-Standart", 12W, IP54, standby sensor, 5000K, ivory, order 200.12.0.2.1	200x200x60 mm	5	600	3
Opto-acoustic Sensor SZVO-04	77x31x15	120	40	4,8

Order **200.13.1.2.1**

Order code:

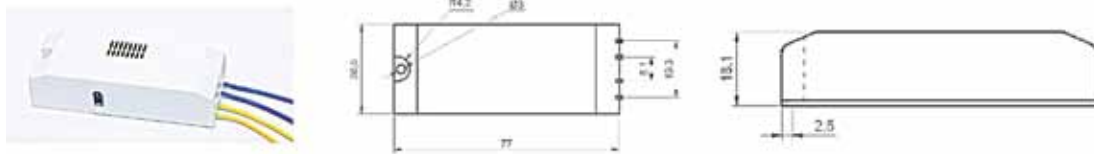
Dimensions: 200 - square, 155 - sphere; 13 - power; 0- no sensor and standby feature, 1- sensor and standby feature, 2 - sensor only; 1- white, 2- ivory.



Argos-Electron Ltd

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An Opto-acoustic Sensor SZVO



Sensor SZVO-4:

Output capability up to 150 W, acoustical threshold of activation 60-70dB, optical threshold of activation in case of use of the sensor separately or in lights with clear domes - 5 Lux, optical threshold of activation in case of use of the sensor in lights with opalescent domes - 10 Lux. Types of possible lights: CFL (Compact Fluorescent Lamp), incandescent lamps, LED lamps, fluorescent lamps.

Principle of operation:

Each 60 seconds the Sensor checks a level of ambient illumination and presence of sounds:

- Module will be immediately turned on to full power mode in case of darkness with sounds level higher than established acoustic threshold.
- Module will never be turned on to full power mode if ambient illumination is present.

In initial condition an adjustment element is in its extreme left position that corresponds to reaction on soft sounds.

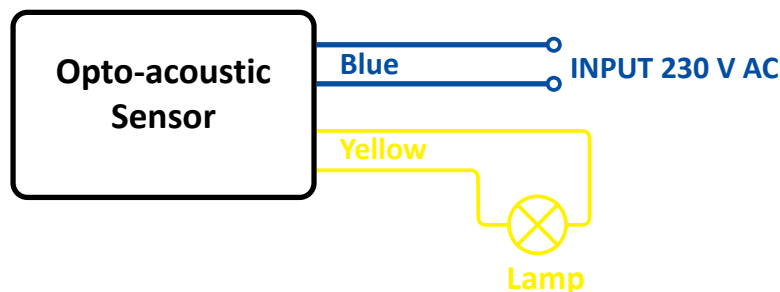
Adjustment of a threshold of reaction:

Use a screwdriver for adjustment (through a special hole).

Rotation clockwise will raise an acoustic threshold.

Rotation counter-clockwise will reduce an acoustic threshold.

Note: A light with the sensor can be switched on, after powering (even at bright light condition), but in 45 seconds the light will be switched off and the sensor will be in its normal operation condition.



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