

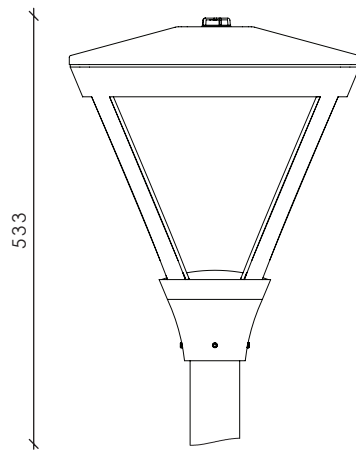
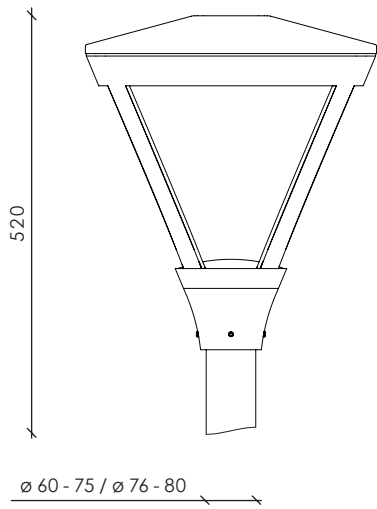
VIZULO

LILLY

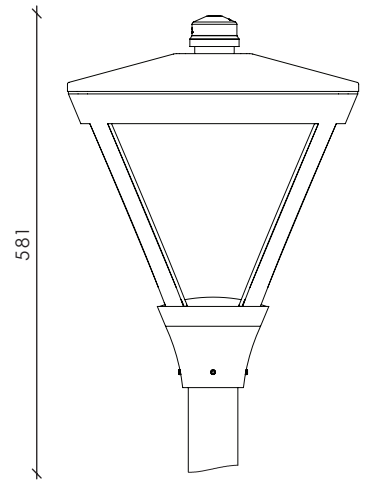


RAL9005

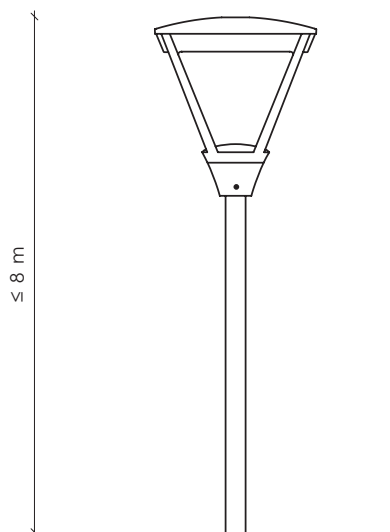
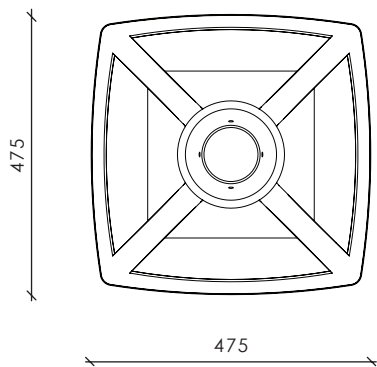
Other colors  
available on request



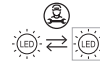
Dimensions with Zhaga



Dimensions with NEMA



## Technical information

**IP66****IK08****RoHS**

<b>V</b>	220 - 240
<b>Hz</b>	50 - 60
<b>W</b>	5 - 100
<b>lm</b>	398 - 12475 <sup>1)</sup>
<b>lm/W</b>	77 - 131
<b>K</b>	2700 / 3000 / 4000 / TW 2700 - 6500 <sup>2)</sup>
<b>°C</b>	-40 to +40
<b>CRI</b>	>70 / >80 / >90 <sup>2)</sup>

<b>Body:</b>	Die-cast aluminium
<b>Dimming:</b>	DALI / 1 - 10 V / Midnight dimming / Step dimming / Mains dimming
<b>Initial chromaticity:</b>	MacAdam 5
<b>Lifetime:</b>	Eco 100 000 h (L90B10) at Ta = 25 °C* / Standard 100 000 h (L98B10) at Ta = 25 °C* / High density 100 000 h (L98B10) at Ta = 25 °C*
<b>Warranty:</b>	5 years
<b>Spigot:</b>	60 - 75 mm / 76 - 80 mm
<b>Socket:</b>	NEMA / Top Zhaga
<b>Intelligent Control:</b>	Stand-alone / Group / CMS
<b>Sensor:</b>	Daylight
<b>Surge protection:</b>	4 / 6 / 10 kV <sup>3)</sup>
<b>Nature friendly:</b>	PC Amber / Red / 1800 K
<b>Corrosion protection:</b>	Up to CX
<b>Neto weight:</b>	Up to 10.1 kg
<b>Max. wind load area, SCd, m<sup>2</sup>:</b>	0.10

<sup>1)</sup> Lumen output indicated at CRI > 70

<sup>2)</sup> 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

<sup>3)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

\*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

## Standard modules

\* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			16			32		
<b>Nominal current, mA</b>	140	540	670	280	480	730	280	510	770
<b>Power, W</b>	5	15	19	15	25	37	28	50	75
<b>Luminous Flux, lm</b>	463	1680	2110	1800	2960	4200	3610	6140	8650
<b>Efficacy, lm/W</b>	93	112	111	120	118	114	129	123	115
<b>Power factor, PF</b>	Up to 0.93			Up to 0.97			Up to 0.97		

<b>Number of LED's</b>	48			64		
<b>Nominal current, mA</b>	270	480	680	250	360	520
<b>Power, W</b>	40	70	100	50	70	100
<b>Luminous Flux, lm</b>	5145	8545	11670	6570	9040	12475
<b>Efficacy, lm/W</b>	129	122	117	131	129	125
<b>Power factor, PF</b>	Up to 0.97			Up to 0.99		

Luminaire efficacy	2700 K	5 - 100 W	398 - 10700 lm	77 - 113 lm/W
	3000 K	5 - 100 W	437 - 11760 lm	87 - 124 lm/W
	5000 K	5 - 100 W	463 - 12475 lm	93 - 131 lm/W
	5700 K	5 - 100 W	463 - 12475 lm	93 - 131 lm/W

## High density modules

\* Data for V01 optic.

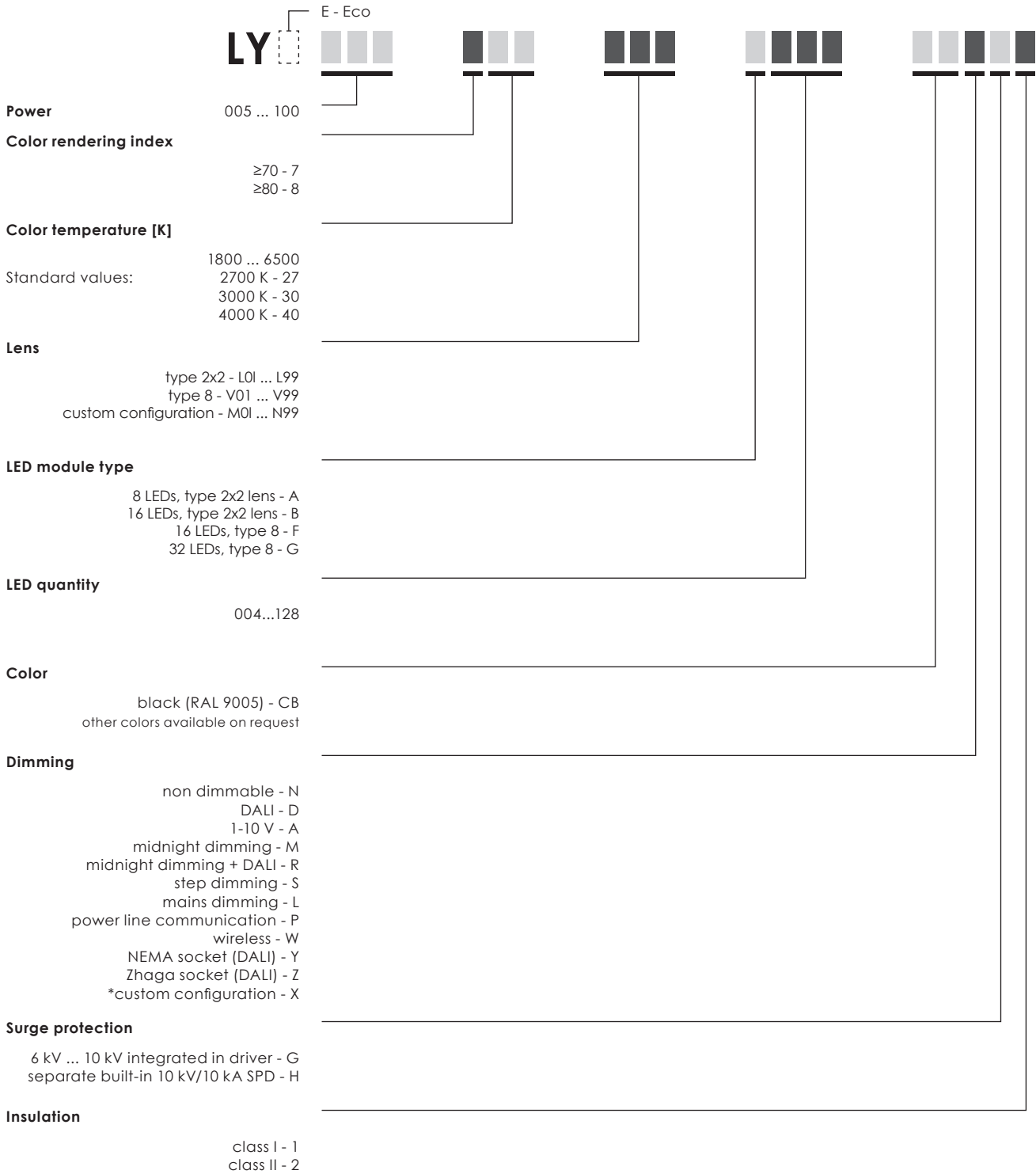
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	16			32			64		
<b>Nominal current, mA</b>	280	480	770	280	510	770	250	360	520
<b>Power, W</b>	15	25	39	28	50	75	50	70	100
<b>Luminous Flux, lm</b>	1810	3000	4420	3610	6140	8650	6570	9040	12475
<b>Efficacy, lm/W</b>	121	120	113	129	123	115	131	129	125
<b>Power factor, PF</b>	Up to 0.98			Up to 0.97			Up to 0.99		

Luminaire efficacy	2700 K	15 - 100 W	1550 - 10700 lm	97 - 113 lm/W
	3000 K	15 - 100 W	1700 - 11760 lm	107 - 124 lm/W
	5000 K	15 - 100 W	1810 - 12475 lm	113 - 131 lm/W
	5700 K	15 - 100 W	1810 - 12475 lm	113 - 131 lm/W

# Model name principles



**EXAMPLE** LY 014 830 L01 A016 CHNG1

## \* CUSTOM CONFIGURATION EXAMPLE

NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.

# LED modules

Type	Max module quantity	Min LED quantity per module	Max LED quantity per module	Max LED quantity per luminaire	LED step	LED type	Lens type	Layout
A	4	4	8	32	2	Standard Eco	type 2x2 L01...LZ9	 <p>A008</p>
F	4	4	16	64	4	Standard	type 8 V01...VZ9	 <p>F016</p>
B	4	8	16	64	2	Standard Eco	type 2x2 L01...LZ9	 <p>B016</p>
G	2	16	32	64	4	Standard	type 8 V01...VZ9	 <p>G032</p>

# Cable core count

Socket	Dimming	Model number abbreviation	Input cable core count - Class I	Input cable core count - Class II
None	None	N	3	2
None	DALI	D	5	4
None	Midnight dimming	M	3	2
None	Midnight dimming + DALI	R	5	4
None	Step dimming	S	5 <sup>(1)</sup>	4 <sup>(1)</sup>
None	Mains dimming	L	3	2
Zhaga	DALI	Z	3 <sup>(2)</sup>	2 <sup>(2)</sup>
Zhaga	Midnight dimming	X	3	2
Zhaga	Mains dimming	X	3	2
NEMA	DALI	Y	3 / 5 <sup>(3)</sup>	2 / 4 <sup>(3)</sup>
NEMA	Midnight dimming	X	3	2
NEMA	Step dimming	X	5 <sup>(1)</sup>	4 <sup>(1)</sup>
NEMA	Mains dimming	X	3	2

<sup>(1)</sup> 1 core unused

<sup>(2)</sup> DALI wires used only for internal connection between driver and Zhaga socket(s)

<sup>(3)</sup> +2 cores for external DALI connection







# Pedestrian crossing optics



<b>V</b>	220 - 240
<b>Hz</b>	50 - 60
<b>W</b>	5 - 100
<b>lm</b>	Up to 12475 <sup>(1)</sup>
<b>lm/W</b>	77 - 131
<b>K</b>	2700 / 3000 / 4000 / TW 2700 - 6500 <sup>(2)</sup>
<b>°C</b>	-40 to +40
<b>CRI</b>	>70 / >80 / >90 <sup>(2)</sup>

<b>Body:</b>	Die-cast aluminium
<b>Dimming:</b>	DALI / 1 - 10 V / Midnight dimming / Step dimming / Mains dimming
<b>Initial chromaticity:</b>	MacAdam 5
<b>Lifetime:</b>	Eco 100 000 h (L90B10) at Ta = 25 °C* / Standard 100 000 h (L98B10) at Ta = 25 °C* / 5 years
<b>Warranty:</b>	60 - 75 mm / 76 - 80 mm
<b>Spigot:</b>	NEMA / Top Zhaga
<b>Socket:</b>	Stand-alone / Group / CMS
<b>Intelligent Control:</b>	Daylight
<b>Sensor:</b>	4 / 6 / 10 kV <sup>(3)</sup>
<b>Surge protection:</b>	PC Amber / Red / 1800 K
<b>Nature friendly:</b>	Up to CX
<b>Corrosion protection:</b>	Up to 10.1 kg
<b>Neto weight:</b>	
<b>Max. wind load area, SCd, m<sup>2</sup>:</b>	0.10

<sup>1)</sup> Lumen output indicated at CRI > 70

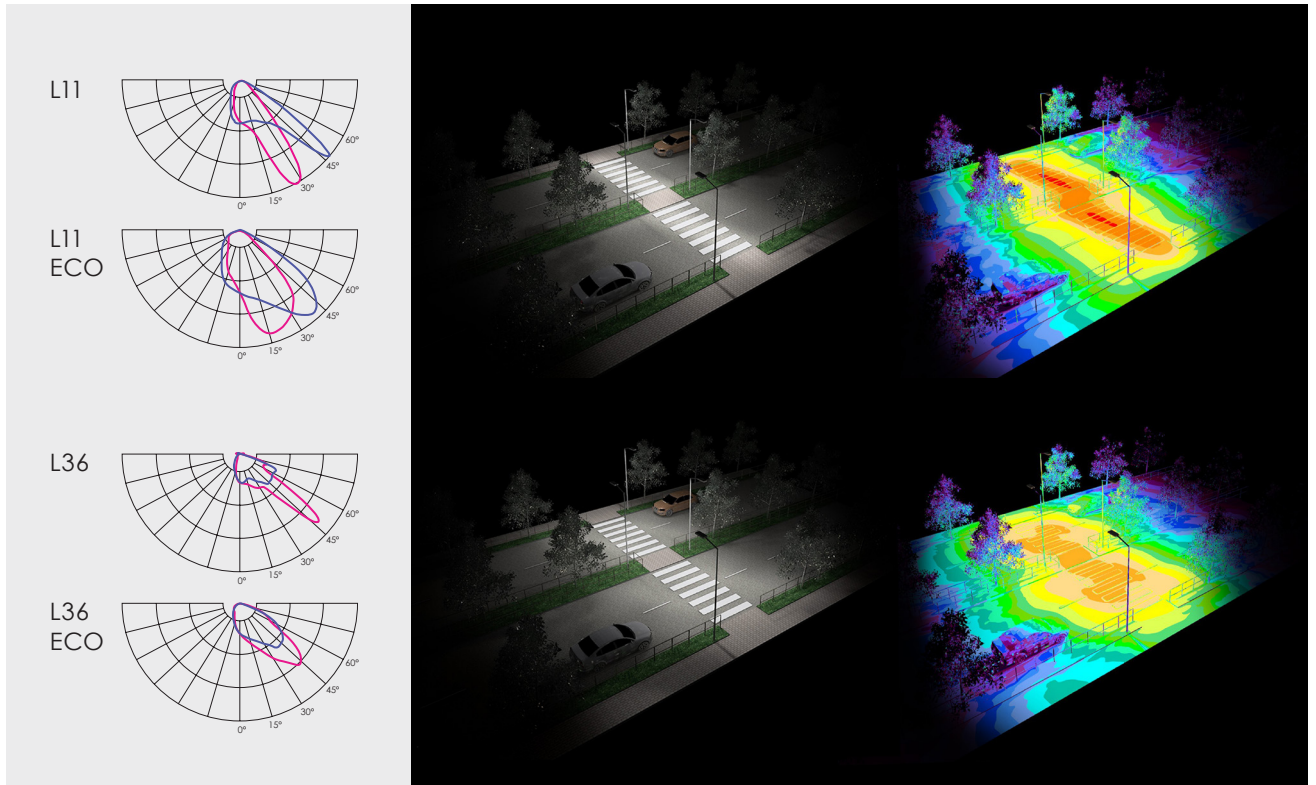
<sup>2)</sup> 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

<sup>3)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

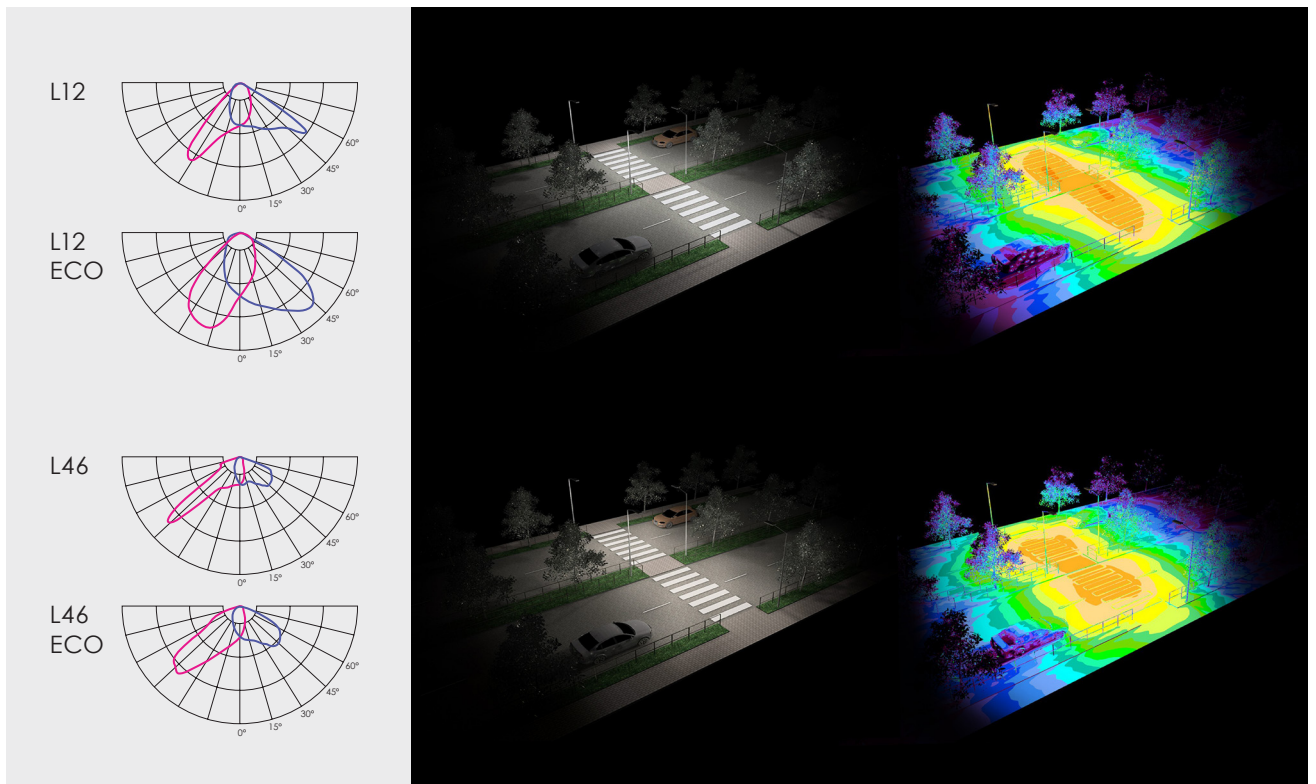
\*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

## Right side traffic



## Left side traffic



# Backlight cutter

## Backlight cutter | black

Art. 70000661



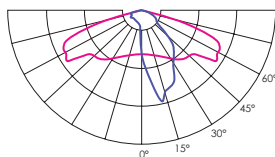
## Backlight cutter | white

Art. 70000662

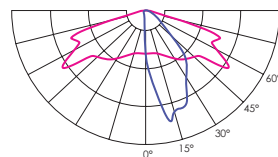


Optical losses from 10% to 31% depending from used optic.

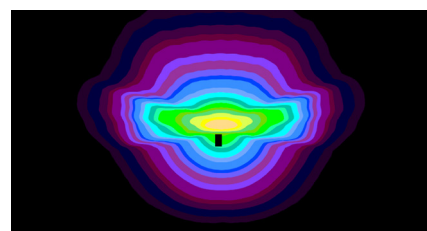
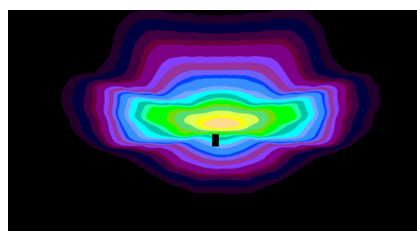
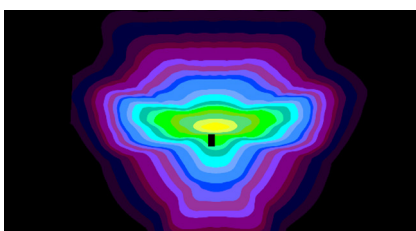
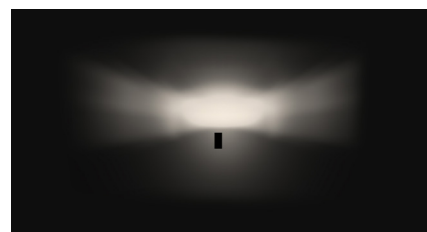
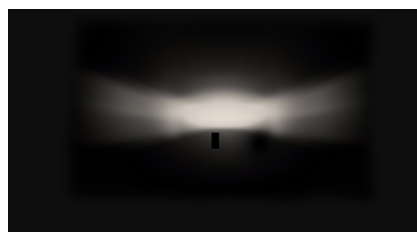
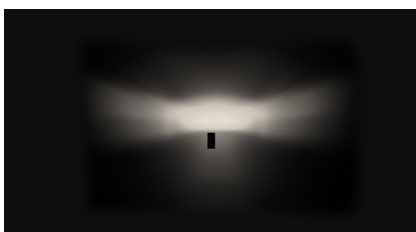
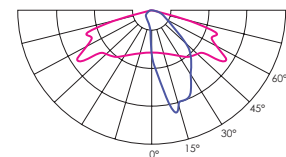
Without backlight cutter



Backlight cutter | black



Backlight cutter | white

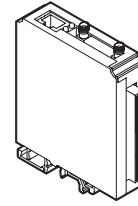


# Accessories

## Citintelly Segment controller

Art. 70010004

Segment Controller receives commands from Citintelly server via GSM and transmits tasks to Luminaire Controller via radio frequency communication.

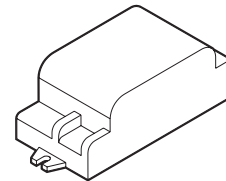


## Citintelly Luminaire controller

Art. 70010001 /  
LC2M-23-05-R Luminaire  
Controller - 2 relays

Luminaire Controller is wireless mesh-networking device that uses 868 MHz for communication with Segment Controller and other Luminaire Controllers. It is delivered in various configurations to meet the needs of your applications.

Art. 70010002 /  
LC2M-12-05-R Luminaire  
Controller - 1 relay



## Citintelly Surge Protection device

Art. 70020001

Surge Protection device offers protection against lighting surges;

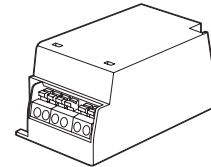
Voltage Protection level up (L-N)  $\leq 1,5$  kV

Voltage Protection level up (L/N-PE)  $\leq 2,0$  kV

$U_{oc} = 10$  kV

$I_{max} = 10$  kA

$I_{nom} = 5$  kA



## Radio Frequency Antenna

Art. 70000108

Heavy duty IP67 enclosure  
Mounted in cabinet or luminaire body  
with 14 mm screw  
SMA connector



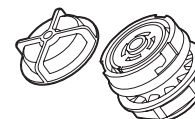
## Zhaga socket no cap

Art. 70000612



## Zhaga socket with cap

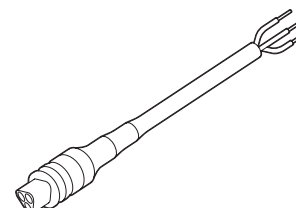
Art. 70000613



## Connection cable

Art. 70000363

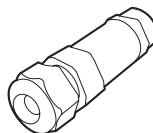
Male - free end, length 1 m, RST20i3, 3 pole, 250 V,  
16 A, cable type H05VV, cross section 1,5 mm<sup>2</sup>



### Connector

Art. 70000313

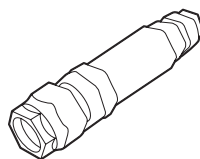
IP66 rated connector offers easy installation of the street luminaires.  
3 wire cable connector



### Connector

Art. 70000304

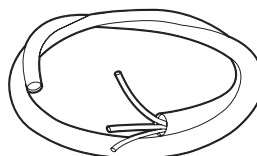
IP66 rated connector offers easy installation of the street luminaires.  
5 wire cable connector



### Pre-installed cable sets

For internal power supply:

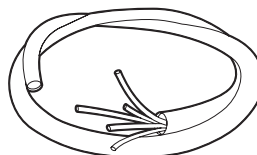
3 x 1,5 mm - 0,5 m long cable.....	Art. 70000319
3 x 1,5 mm - 5 m long cable.....	Art. 70000320
3 x 1,5 mm - 6 m long cable.....	Art. 70000321
3 x 1,5 mm - 8 m long cable.....	Art. 70000322
3 x 1,5 mm - 10 m long cable.....	Art. 70000323
3 x 1,5 mm - 12 m long cable.....	Art. 70000324
3 x 1,5 mm - 18 m long cable.....	Art. 70000325
3 x 1,5 mm - 20 m long cable.....	Art. 70000425
3 x 1,5 mm - 22 m long cable.....	Art. 70000426
3 x 1,5 mm - 25 m long cable.....	Art. 70000427
3 x 1,5 mm - 32 m long cable.....	Art. 70000430
3 x 1,5 mm - 42 m long cable.....	Art. 70000431
3 x 1,5 mm - 50 m long cable.....	Art. 70000432



### Pre-installed cable sets

For internal power supply:

5 x 1,5 mm - 0,5 m long cable.....	Art. 70000305
5 x 1,5 mm - 5 m long cable.....	Art. 70000316
5 x 1,5 mm - 6 m long cable.....	Art. 70000317
5 x 1,5 mm - 8 m long cable.....	Art. 70000318
5 x 1,5 mm - 10 m long cable.....	Art. 70000306
5 x 1,5 mm - 12 m long cable.....	Art. 70000307
5 x 1,5 mm - 18 m long cable.....	Art. 70000308
5 x 1,5 mm - 20 m long cable.....	Art. 70000428
5 x 1,5 mm - 22 m long cable.....	Art. 70000429
5 x 1,5 mm - 25 m long cable.....	Art. 70000429
5 x 1,5 mm - 32 m long cable.....	Art. 70000433
5 x 1,5 mm - 42 m long cable.....	Art. 70000434
5 x 1,5 mm - 50 m long cable.....	Art. 70000435



# Certification



**CE** – conformity with European Union's health, safety and environmental protection standards

The CE mark is placed on products to state conformity with the relevant EU health, safety and environmental protection standards. In case of electronic products, the standards are, for example, the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive, Waste Electrical and Electronic Equipment (WEEE) directive, the Electromagnetic Compatibility (EMC) directive etc. The mark ensures that the product can be sold anywhere in the European Economic Area (EEA).



**UKCA** - conformity with the relevant essential requirements of Great Britain

UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant requirements are compliance with the Electromagnetic Compatibility Regulations, the Electrical Equipment (Safety) Regulations, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations and the Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations.



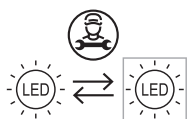
**EAC** - compliance with the regulations of the Eurasian Customs Union

The EAC Mark demonstrates conformity with all technical regulations defined by the Eurasian Customs Union. The conformity is assessed by an accredited independent testing laboratory. The EAC marking is a requirement in order to place a product on the market of Russia and the Eurasian Economic Union.



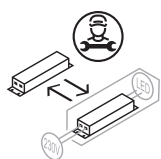
**RoHS** – compliance with European Union's RoHS directive

The RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. The aim of the directive is to prevent the risks posed to human health and the environment related to the management of electronic and electrical waste.



**LED module replaceable by a professional**

This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement following the introduction of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



**LED driver replaceable by a professional**

This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement following the introduction of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

# References



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VIZULO



VIZULOSOLUTIONS

