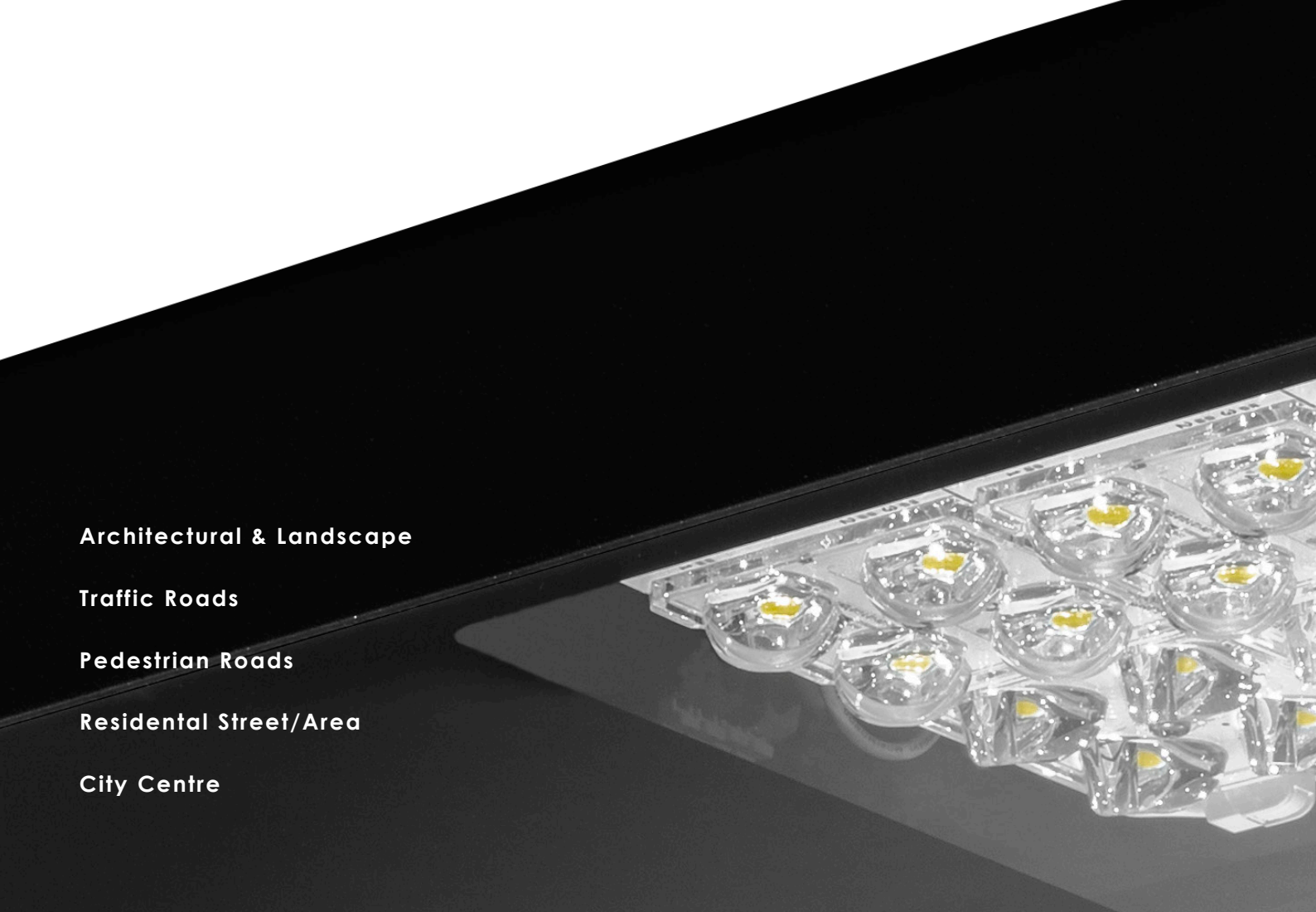


**vizULO**



**Colibri**  
MIDI | PRO



**Architectural & Landscape**

**Traffic Roads**

**Pedestrian Roads**

**Residential Street/Area**

**City Centre**

**Ventilation cable gland**

Combines pressure equalization and cable gland in a single unit. It ensures high air flow rates as well as high water protection capacity

**Glass**

Flat glass. Glass is fixed to die-cast aluminium frame with metal clips and can easily be replaced

**LED module**

High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time. Color temperature available: 2700 K, 3000 K, 4000 K (1800 K, 2200 K, 3500 K, 5000 K, 5700 K, 6500 K available on customer request)

**Sockets**

Radio frequency, Zhaga or NEMA

**Protection**

IP66 for the complete luminaire

**Module temperature control**

The LED driver will start reducing the light output when the LED's approach critical temperature. The temperature is measured via a sensor placed on the PCB

*(function available on customer request)*

**Body**

Die-cast aluminium

**Lighting protection**

Built-in surge protection starting from 3 kV till 10 kV

**Light regulation**

COLIBRI midi drivers offer integrated midnight dimming and network-controlled 1 - 10 V and DALI protocols

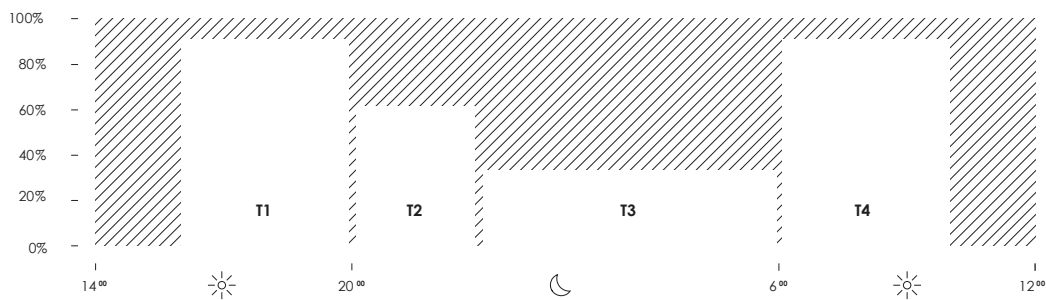
**Impact resistance**

IK09 (Vandal protected) for the complete luminaire



## Midnight dimming

Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.



# Colibri midi



**Note!** Glass with black print on request!  
(standard - gray print glass)



RAL7035



RAL9006

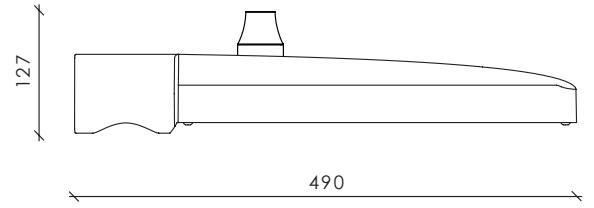
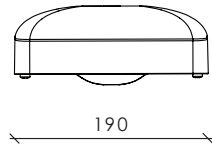
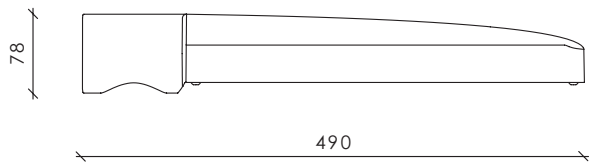


DB703

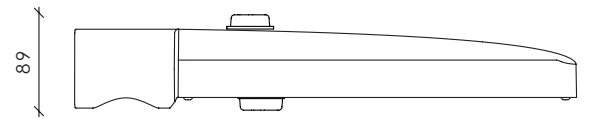


RAL9005

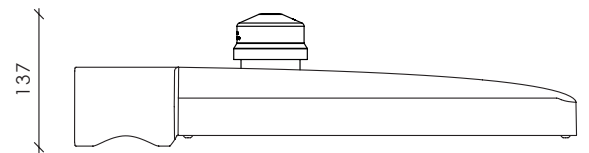
Other colors  
available on request



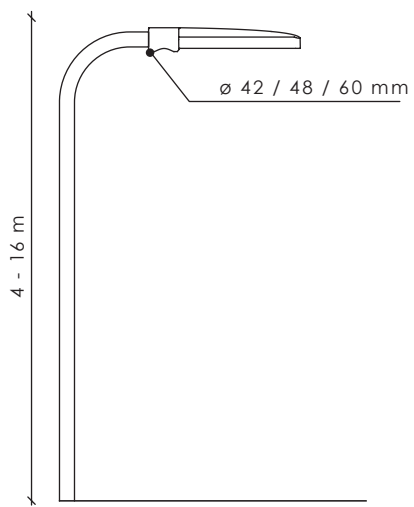
Dimensions with RF antenna



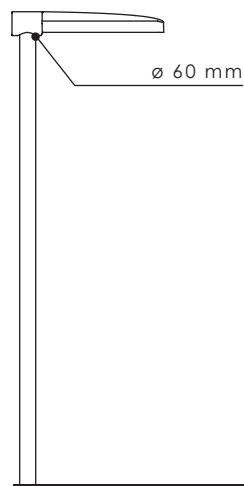
Dimensions with 2 Zhaga connectors



Dimensions with NEMA



side entry



post top

## Technical information



<b>V</b>	220 - 240 / 110 - 277 <sup>(1)</sup>
<b>Hz</b>	50 - 60
<b>W</b>	5 - 87
<b>lm</b>	446 - 13100 <sup>(2)</sup>
<b>lm/W</b>	90 - 164
<b>K</b>	2700 / 3000 / 4000 <sup>(3)</sup>
<b>°C</b>	-40 to +50   5 - 70 W -40 to +35   70 - 87 W
<b>CRI</b>	>70 / >80 / >90 <sup>(3)</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>Installation:</b>	Pre-wired cable 30 cm <sup>(4)</sup>
<b>Spigot:</b>	42 mm / 60 mm / 76 mm <sup>(5)</sup>
<b>Socket:</b>	NEMA / Top and Bottom Zhaga
<b>Intelligent Control:</b>	Stand-alone / Group / CMS
<b>Sensor:</b>	Motion / Motion + Daylight / Daylight
<b>Surge protection:</b>	4 / 6 / 10 kV <sup>(6)</sup>
<b>Corrosion protection:</b>	Up to C5
<b>Neto weight:</b>	Up to 4.2 kg
<b>Max. wind load area, SCd, m<sup>2</sup>:</b>	0.036

<sup>1)</sup> Maximum operating voltage, ENEC certificate voltage 220 - 240 V, UL certificate voltage 110 - 277 V

<sup>2)</sup> Lumen output indicated at CRI > 70

<sup>3)</sup> 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

<sup>4)</sup> Other lengths available on request

<sup>5)</sup> Achievable with an adapter for 40 - 60 mm spigot

<sup>6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>7)</sup> Coming soon

\*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			12			16			24		
<b>Nominal current, mA</b>	140	540	700	280	500	660	280	500	760	260	470	700
<b>Power, W</b>	5	15	19	12	20	26	15	25	39	20	35	52
<b>Luminous Flux, lm</b>	520	1840	2300	1530	2590	3300	2160	3560	5300	3060	5240	7400
<b>Efficacy, lm/W</b>	104	123	121	128	130	127	144	142	136	153	150	142
<b>Power factor, PF</b>	Up to 0.94			Up to 0.97			Up to 0.98			Up to 0.97		

Luminaire efficacy	2700 K	5 - 52 W	446 - 6350 lm	90 - 131 lm/W
	3000 K	5 - 52 W	490 - 7000 lm	98 - 144 lm/W
	5000 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W
	5700 K	5 - 52 W	520 - 7400 lm	104 - 153 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			48		
<b>Nominal current, mA</b>	280	480	770	270	510	700	270	350	600
<b>Power, W</b>	15	25	39	27	50	68	39	50	87
<b>Luminous Flux, lm</b>	2010	3310	4920	4000	7111	9280	6400	8035	13100
<b>Efficacy, lm/W</b>	134	132	126	148	142	136	164	161	151
<b>Power factor, PF</b>	Up to 0.98			Up to 0.97			Up to 0.98		

Luminaire efficacy	2700 K	15 - 87 W	1730 - 11210 lm	108 - 140 lm/W
	3000 K	15 - 87 W	1900 - 12320 lm	119 - 155 lm/W
	5000 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W
	5700 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W

## ECO

\* Data for L01 optic.

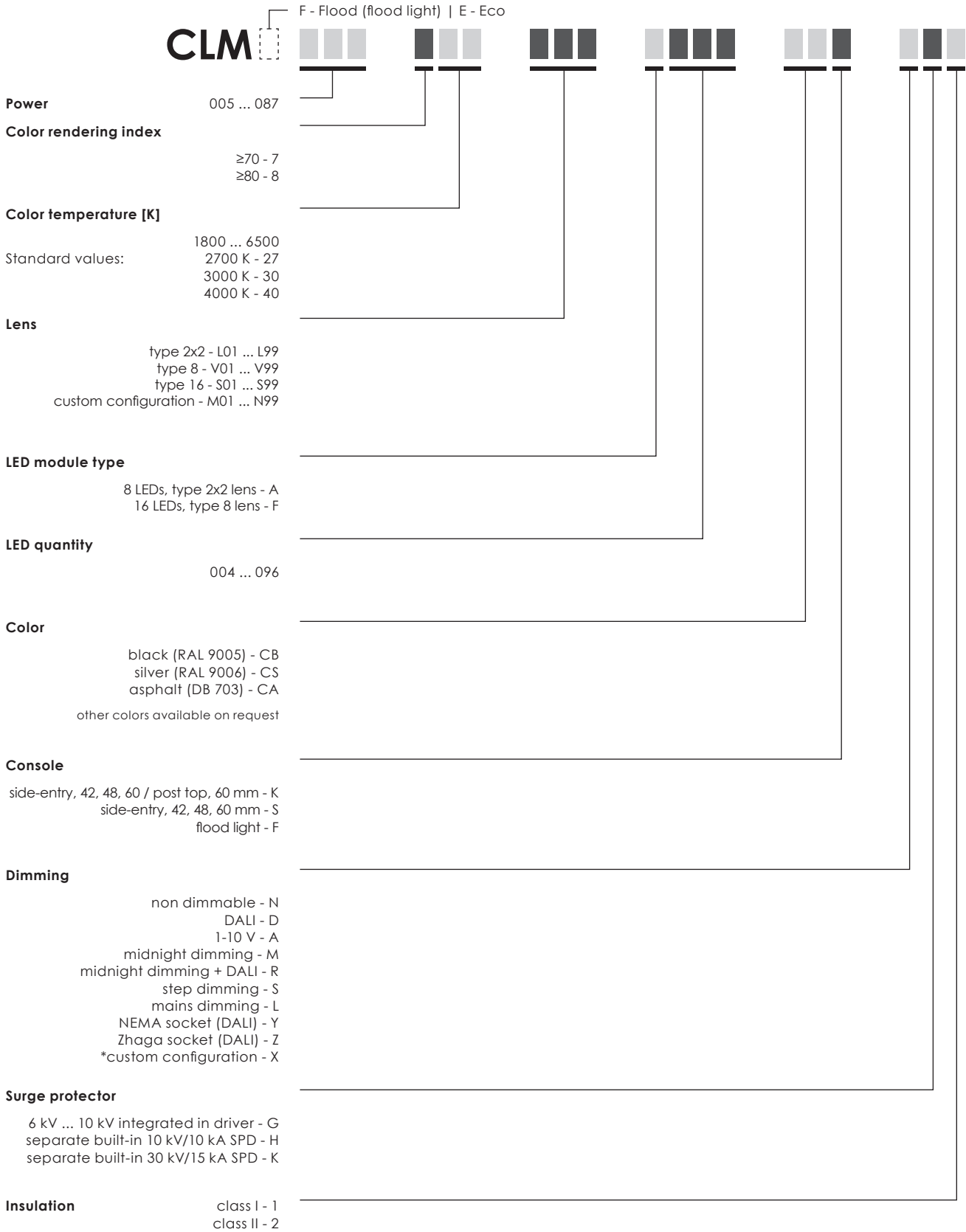
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			12			16		
<b>Nominal current, mA</b>	280	470	700	280	450	700	280	490	710
<b>Power, W</b>	15	25	38	22	35	55	28	50	74
<b>Luminous Flux, lm</b>	1960	3120	4340	2980	4470	6300	4100	6460	8810
<b>Efficacy, lm/W</b>	131	125	114	135	128	115	146	129	119
<b>Power factor, PF</b>	Up to 0.98			Up to 0.98			Up to 0.97		

Luminaire efficacy	2700 K	5 - 74 W	1833 - 8255 lm	107 - 137 lm/W
	3000 K	5 - 74 W	1960 - 8600 lm	114 - 142 lm/W
	5000 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W
	5700 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W

# Model name principles

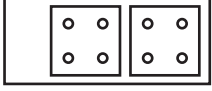
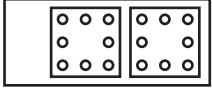


## \* CUSTOM CONFIGURATION EXAMPLE

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



# LED modules

Type	Max quantity	Min LED quantity	Max LED quantity	Max LED quantity per luminaire	LED step	LED type	Lens type	Layout
A	3	4	8	24	2	Standard Eco	type 2x2 L01...LZ9	 A008
F	3	4	16	48	4	Standard	type 8 V01...VZ9	 F016

# 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

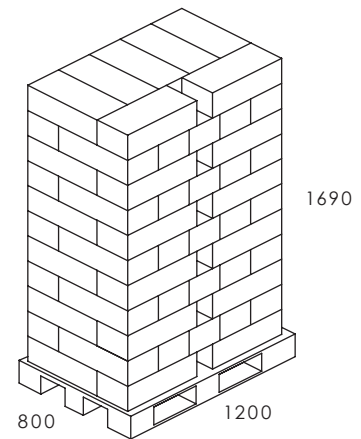
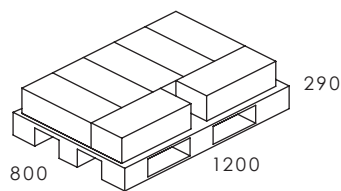
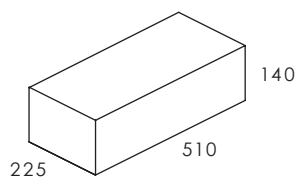
<sup>(2)</sup> DALI wires used only for internal connection between driver and Zhaga socket(s)

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

# Logistic information

Carton size/cm L*W*H	Quantity per carton /pcs	Pallet quantity in 20' sea container	Pallet quantity in 40' sea container	QTY per pallet /pcs	Full palette size/cm L*W*H	Number of luminaires per row	Number of rows
51 x 22,5 x 14	1	20	25	77	120 x 80 x 169	7	11

	NETO WEIGHT/KG		BRUTO WEIGHT/KG	
	Per 1 pcs	Per pallet	Per 1 pcs	Per pallet
COLIBRI MIDI 1 module luminaires	4,1	315,7	4,38	337,49
COLIBRI MIDI 2 module luminaires	4,15	319,55	4,43	341,34
COLIBRI MIDI 3 module luminaires	4,2	323,4	4,48	345,191







# Pedestrian crossing optics



<b>V</b>	220 - 240 / 110 - 277 <sup>1)</sup>
<b>Hz</b>	50 - 60
<b>W</b>	5 - 52 <sup>2)</sup> 5 - 74 <sup>3)</sup>
<b>lm</b>	Up to 7400 <sup>2)</sup> Up to 8810 <sup>3)</sup>
<b>lm/W</b>	90 - 153 <sup>2)</sup> 107 - 147 <sup>3)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>4)</sup>
<b>°C</b>	-40 to +50   5 - 70 W -40 to +35   70 - 87 W
<b>CRI</b>	>70 / >80 / >90 <sup>4)</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*
<b>Warranty:</b>	5 years
<b>Installation:</b>	Pre-wired cable 30 cm <sup>5)</sup>
<b>Spigot:</b>	42 mm / 60 mm / 76 mm <sup>6)</sup>
<b>Socket:</b>	NEMA / Top and Bottom Zhaga
<b>Intelligent Control:</b>	Stand-alone / Group / CMS
<b>Sensor:</b>	Motion / Motion + Daylight / Daylight
<b>Surge protection:</b>	4 / 6 / 10 kV <sup>7)</sup>
<b>Corrosion protection:</b>	Up to C5
<b>Neto weight:</b>	Up to 4.2 kg
<b>Max. wind load area, SCd, m<sup>2</sup>:</b>	0.036

<sup>1)</sup> Maximum operating voltage, ENEC certificate voltage 220 - 240 V, UL certificate voltage 110 - 277 V

<sup>2)</sup> Standard modules, lumen output indicated at CRI > 70

<sup>3)</sup> ECO modules, lumen output indicated at CRI > 70

<sup>4)</sup> 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

<sup>5)</sup> Other lengths available on request

<sup>6)</sup> Achievable with an adapter for 40 - 60 mm spigot

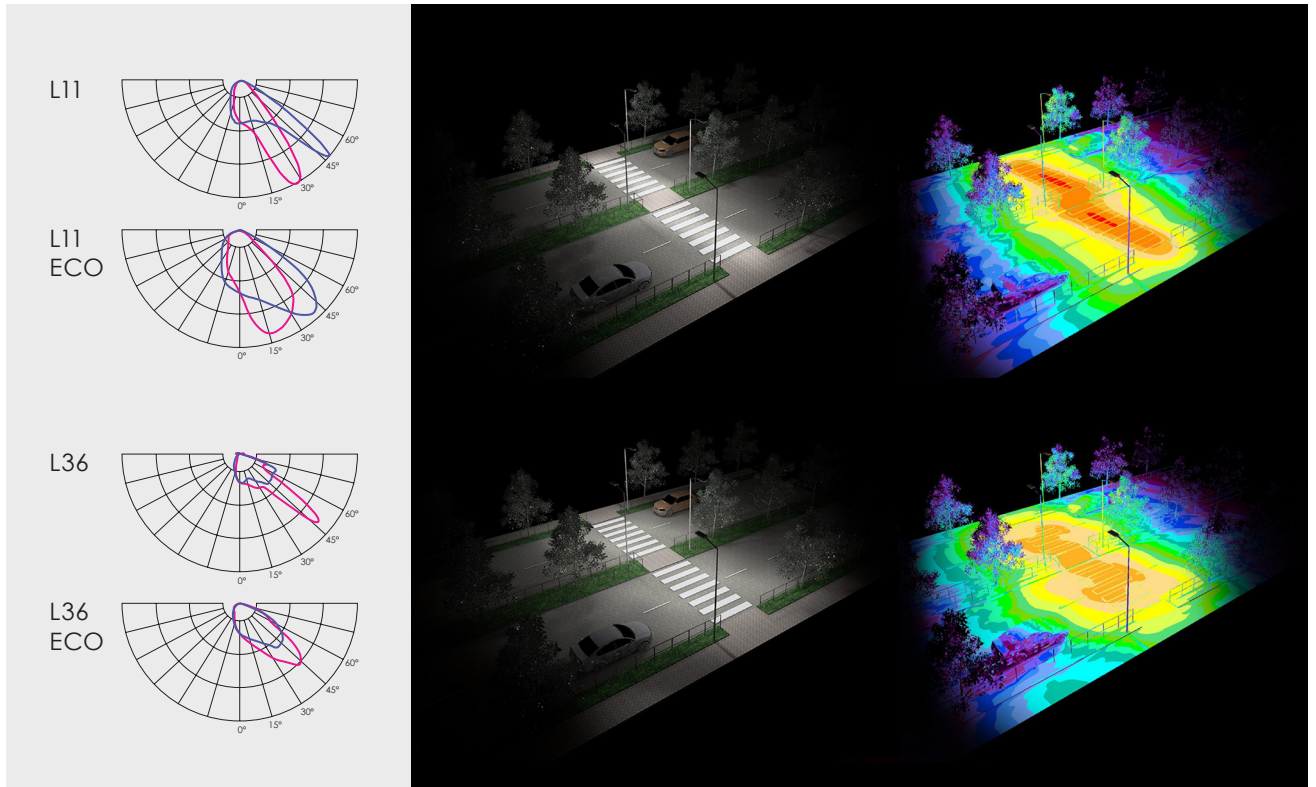
<sup>7)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>8)</sup> Coming soon

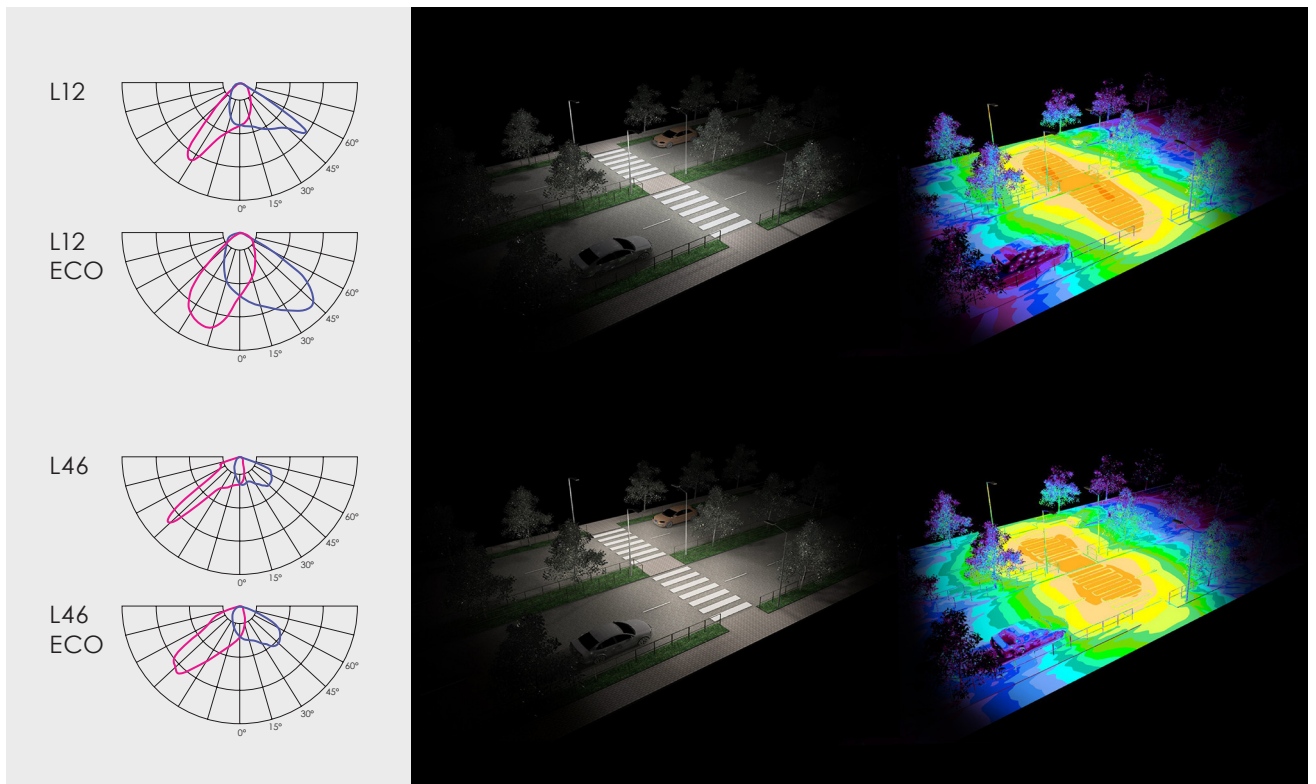
\*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models 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



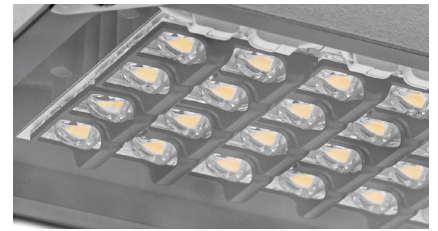




# Backlight cutter

## Backlight cutter | black

Art. 70000661



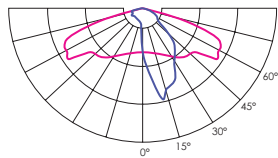
## Backlight cutter | white

Art. 70000662

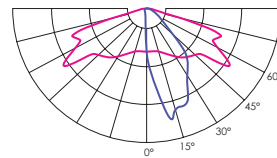


Optical losses from 10% to 31% depending from used optic.

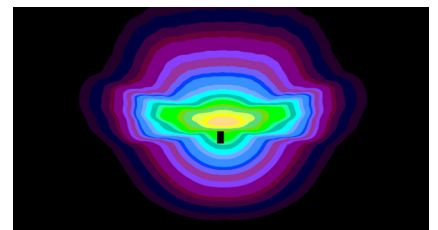
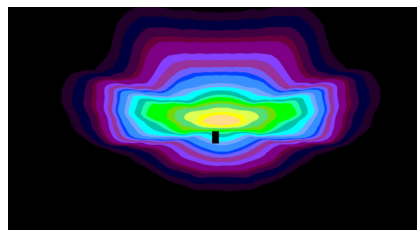
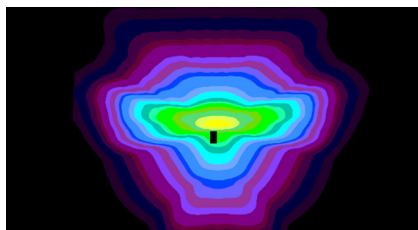
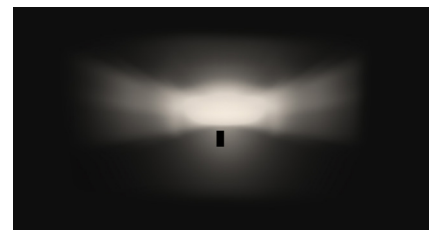
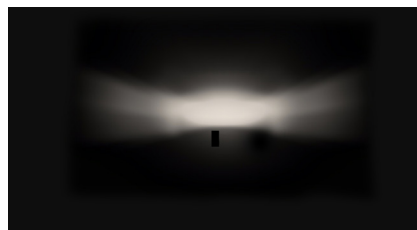
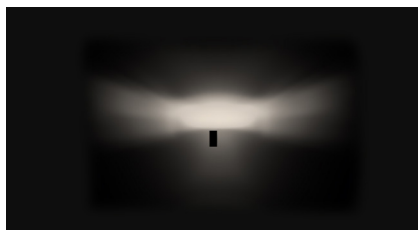
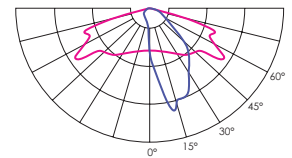
Without backlight cutter



Backlight cutter | black



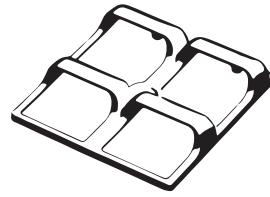
Backlight cutter | white



# Accessories

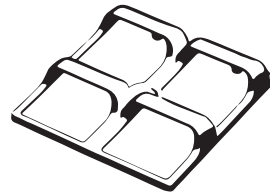
**Backlight cutter black**

Art. 70000661



**Backlight cutter white**

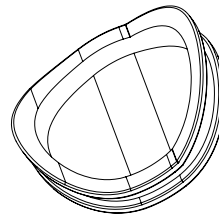
Art. 70000662



**Separate 10 kV SPD available on request**

**Cover for bottom console opening**

Art. 70083001



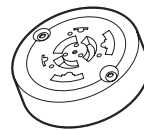
**NEMA Socket**

2213362-3, 5 pin NEMA socket 105°C wires

Art. 70000362

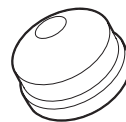
2213362-4, 7 pin NEMA socket 105°C wires

Art. 70000333



**Dummy Link for NEMA Socket**

Art. 70000113





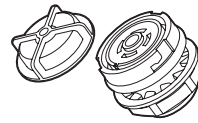
### Zhaga socket no cap

Art. 70000612



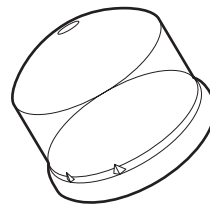
### Zhaga socket with cap

Art. 70000613



### MSLC205RGL Luminaire controller, Zhaga, 80 mm

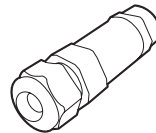
Art. 70010029



### Connector

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

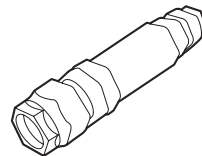
Art. 70000313



### Connector

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

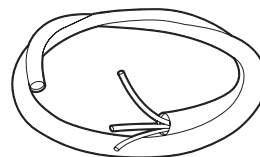
Art. 70000304



### Pre-installed cable sets

For internal power supply:

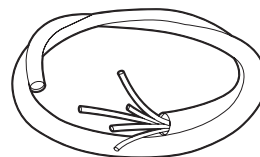
3 x 1,5 mm - 0,5 m long cable.....	Art. 70000319
3 x 1,5 mm - 5 m long cable.....	Art. 70000320
3 x 1,5 mm - 6 m long cable.....	Art. 70000321
3 x 1,5 mm - 8 m long cable.....	Art. 70000322
3 x 1,5 mm - 10 m long cable.....	Art. 70000323
3 x 1,5 mm - 12 m long cable.....	Art. 70000324



### 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



# 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.

## RoHS

**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.



\* Coming soon

**UL** - compliance with UL standards for LED lighting

UL stands for Underwriter Laboratories, a third-party certification company that's been around for over a century. UL sets industry-wide standards for products and performs testing according to these standards to ensure that the products marked with the UL mark are safe and high quality.



**Zhaga-D4i** - compliance with the requirements of Zhaga Book 18 or 20 and DALI standard

The Zhaga-D4i Mark represents the fact that a product is certified following the Zhaga-D4i joint certification program – a program established by Zhaga and the DALI Alliance (DiiA). The Zhaga part of the Mark represents that a product meets the requirements of Zhaga Book 18 or 20 – Zhaga standards that describe a smart interface between outdoor luminaires and sensing/ communication nodes. The DALI Alliance part of the Mark signifies that the product conforms with the DALI standard for intelligent, IoT-ready luminaires.



### ENEC - compliance with European standards for electrical equipment

The ENEC Mark is the high quality European Mark for electrical equipment. It is governed by the European Testing Inspection Certification System which ensures that the testing of products is conducted at ENEC – accredited laboratories, following additional requirements regarding the testing procedures. The ENEC Mark means that the testing procedure was followed scrupulously and that the consumer can be certain of the product's safety and quality.



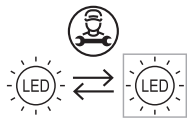
### ENEC+ - compliance with European standards for LED – based electronic products

The ENEC+ Mark is the high quality European Mark for LED – based electronic products. It demonstrates the product's compliance with the IEC standards for performance of LED modules and LED based luminaires. The ENEC+ Mark can only be granted to a product that has already acquired the ENEC Mark.



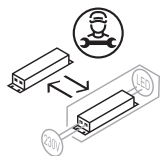
### International EPD System – Environmental Product Declaration available

An Environmental Product Declaration (EPD) is a declaration of the materials, energy, transportation and other resources involved in the production, use and end-of life of a specific product. It is based on a Life Cycle Assessment (LCA) study that complies with standards EN ISO 14040 and EN ISO 14044. A product's EPD can help evaluate its impact on the environment and make sustainable choices.



### 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.



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