VIZULO



Colibri FLOODLIGHT



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)

Intelligent light control system

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

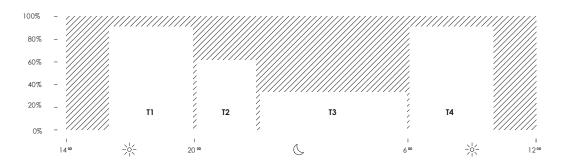
Impact resistance

Up to 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 floodlight







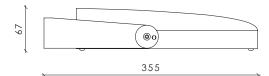
RAL7035 RAL9006 DB703

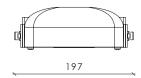


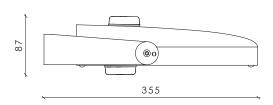


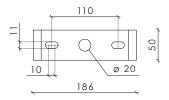
RAL9005

Other colors available on request



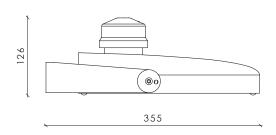




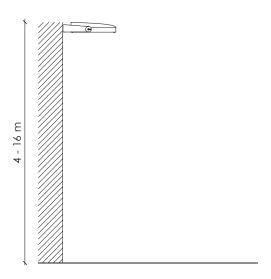


Dimensions with 2 Zhaga connectors

Mounting console



Dimensions with NEMA





Note

Only those models with fixed mounting position (0° relative to the ground) are DarkSky approved!

-90° ... +90°

Technical information





























V 220 - 240 / 110 - 277 ⁽¹

Hz 50 - 60 **W** 5 - 45

Im 452 - 6028 ⁽²⁾ **Im/W** 91 - 146

K 2700 / 3000 / 4000 ⁽³ **°C** -40 to +50 | 5 - 35 W

-40 to +35 | 35 - 45 W

CRI >70 / >80 / >90 (3

Body: Die-cast aluminium

Dimming: DALI / 1 - 10 V / Midnight dimming /

Step dimming / Mains dimming

Initial chromaticity: MacAdam 5

Lifetime: Eco 100 000 h (L90B10) at Ta = 25 °C*

Standard 100 000 h (L98B10) at Ta = $25 \,^{\circ}\text{C}^*$ High density 100 000 h (L98B10) at Ta = $25 \,^{\circ}\text{C}^*$

Warranty: 5 years

Installation: Pre-wired cable 30 cm ⁽⁴⁾
Mounting: On bracket / wall / ceiling

Socket: NEMA Top / Zhaga Top and Bottom

Intelligent Control: Stand-alone / Group / CMS

Sensor: Motion / Motion + Daylight / Daylight

Surge protection: 4 / 6 / 10 kV (5) Corrosion protection: Up to C5 Neto weight: Up to 2.9 kg

Max. wind load

area, SCd: 0.020 m²

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

¹⁾ Maximum operating voltage, ENEC certificate voltage 220 - 240 V, UL certificate voltage 110 - 277 V

²⁾ Lumen output indicated at CRI > 70

^{31 1800 / 2200 / 3500 / 5000 / 5700 / 6500} K available on request along with other not listed CRI and CCT Note! Only fixtures with CCT of 3000 K or lower are DarkSky approved!

⁴⁾ Other lengths available on request

^{5) 10} kV (L-N; L/N-PE) surge protection device available on request

⁶⁾ With clear glass

⁷⁾ 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.

4000 K | CRI 70

Number of LED's		4			6			8	
Nominal current, mA	270	500	730	190	480	880	140	540	700
Power, W	5	8	11	5	10	18	5	15	20
Luminous Flux, Im	523	927	1308	556	1460	2463	592	2109	2785
Efficacy, Im/W	105	116	119	111	146	137	118	141	139
Power factor, PF	U	p to 0.93	3		Up to 0.93	3		Up to 0.9	4
Luminaire efficacy	2700 K 3000 K 5000 K	5 - 20) W	452 - 2180 lm 497 - 2398 lm 523 - 2785 lm		10		m/W Im/W	
	5700 K				2785 lm			lm/W	

High density modules

 $*$ Data for V01 optic. Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		8			16		
Nominal current, mA	140	540	700	280	590	890	
Power, W	5	15	19	15	30	45	
Luminous Flux, Im	592	2109	2638	2191	4251	6028	
Efficacy, Im/W	1118	141	139	146	142	134	
Power factor, PF		Up to 0.9	4		Up to 0.96		
Luminaire efficacy	2700 3000 5000 5700	K 5-4 K 5-4	5 W 5 W	558 - 592 -	5167 lm 5679 lm 6028 lm 6028 lm	116 118	- 126 lm/W - 138 lm/W - 146 lm/W - 146 lm/W

ECO

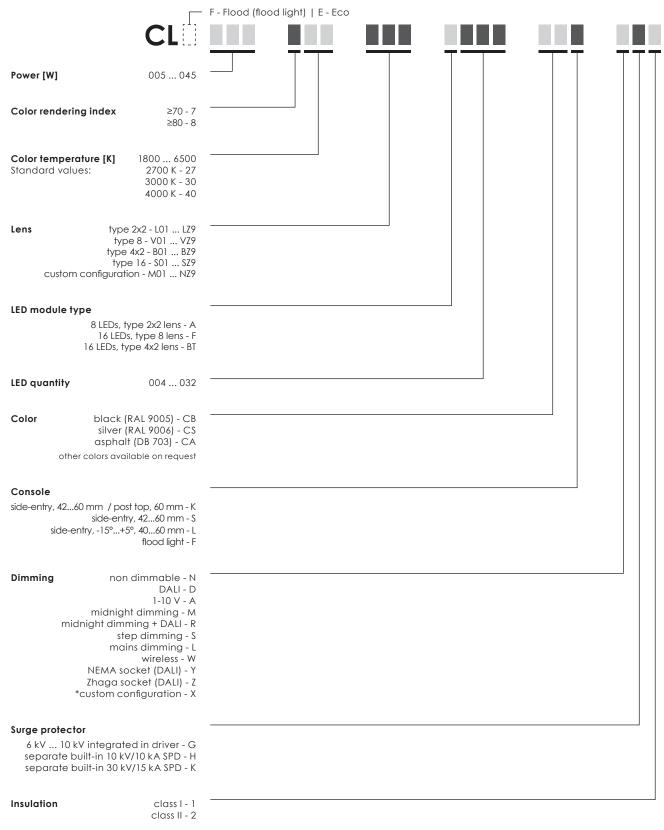
* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

				1			ı		
Number of LED's		4			6			8	
Nominal current, mA	140	520	670	290	490	680	280	470	660
Power, W	5	15	19	12	20	28	15	25	35
Luminous Flux, Im	605	2052	2511	1685	2637	3467	2138	3348	4377
Efficacy, Im/W	121	137	132	140	132	124	143	134	125
Power factor, PF		Up to 0.94	4	l	Jp to 0.95	5		Up to 0.98	8
Luminaire efficacy	2700	K 5-35	5 W	568 - 4	4093 lm	114	4 - 132	lm/W	
	3000	K 5-35	5 W	592 - 4	4250 lm	118	3- 137 I	m/W	
	5000	K 5-35	5 W	605 - 4	4377 lm	12	1 - 143	lm/W	
	5700	K 5-35	5 W	605 - 4	4377lm	12	1 - 143	lm/W	

Model name principles



EXAMPLE CLF 040 730 L01 A008 CSF MG1

* CUSTOM CONFIGURATION EXAMPLE

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

LED modules

Туре	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
Α	1	4	8	8	2	Standard Eco	type 2x2 L01LZ9	0 0 0 0 0
F	1	4	16	16	4	Standard	type 8 V01VZ9	000000000000000000000000000000000000000
ВТ	1	4	16	16	4	Standard	type 4x2 B01BZ9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Cable core count

Socket	Dimming	Model number abbreviation	Input cable core count - Class I	Input cable core count - Class II
None	None	Ν	3	2
None	DALI	D	5	4
None	Midnight dimming	М	3	2
None	Midnight dimming + DALI	R	5	4
None	Step dimming	S	5 (1	4 (1
None	Mains dimming	L	3	2
Zhaga	DALI	Z	3 (2	2 (2
Zhaga	Midnight dimming	Χ	3	2
Zhaga	Mains dimming	Χ	3	2
NEMA	DALI	Υ	3 / 5 (3	2 / 4 (3
NEMA	Midnight dimming	Χ	3	2
NEMA	Step dimming	Χ	5 (1	4 (1
NEMA	Mains dimming	Χ	3	2

^{1) 1} core unused

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

^{3) +2} cores for external DALI connection

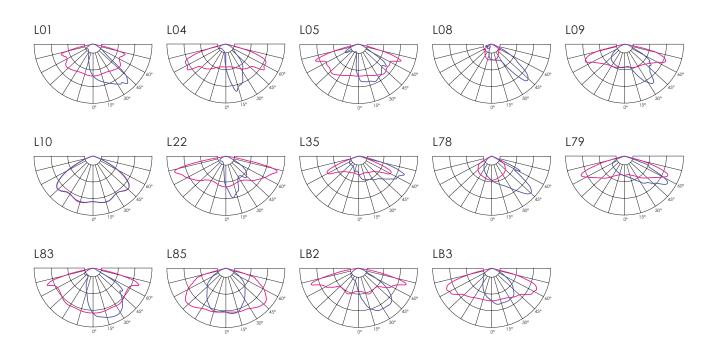
Logistic information

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
42 x 20 x 15	1	20	25	100	120 x 80 x 165	10	10

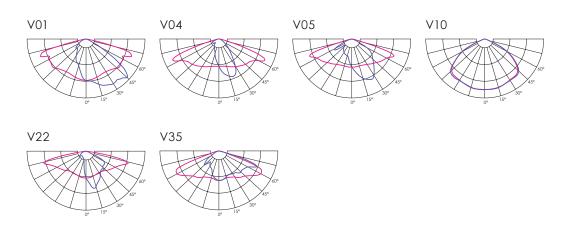
	NETO WE	IGHT/KG	BRUTO WEIGHT/KG		
	Per 1 pcs	Per pallet	Per 1 pcs	Per pallet	
COLIBRI Flood A module luminaires	2.81	281	3.03	303	
COLIBRI Flood F module luminaires	2.91	291	3.13	313	

Optics

Standard modules



High density modules





Pedestrian crossing optics

















220 - 240 / 110 - 277 (1

50 - 60 Hz 5 - 20 (2 5 - 35 (3

Up to 2785 (2 Up to 6028 (3

lm/W 91 - 146 (2

114 - 143 ⁽³

2700 / 3000 / 4000 (4 -40 to +50 | 5 - 35 W -40 to +35 | 35 - 45 W

CRI >70 / >80 / >90 (4 Body: Die-cast aluminium

Dimming: DALI / 1 - 10 V / Midnight dimming / Step dimming / Mains dimming

Initial chromaticity: MacAdam 5

Lifetime: Eco 100 000 h (L90B10) at $Ta = 25 \, ^{\circ}C^{*}$

Standard 100 000 h (L98B10) at $Ta = 25 \, ^{\circ}\text{C}^{*}$

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Socket: NEMA Top / Zhaga Top and Bottom

Intelligent Control: Stand-alone / Group / CMS

Motion / Motion + Daylight / Daylight Sensor:

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Max. wind load

area, SCd: 0.020 m^2

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

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^{4) 1800 / 2200 / 3500 / 5000 / 5700 / 6500} K available on request along with other not listed CRI and CCT Note! Only fixtures with CCT of 3000 K or lower are DarkSky approved!

⁵⁾ Other lengths available on request

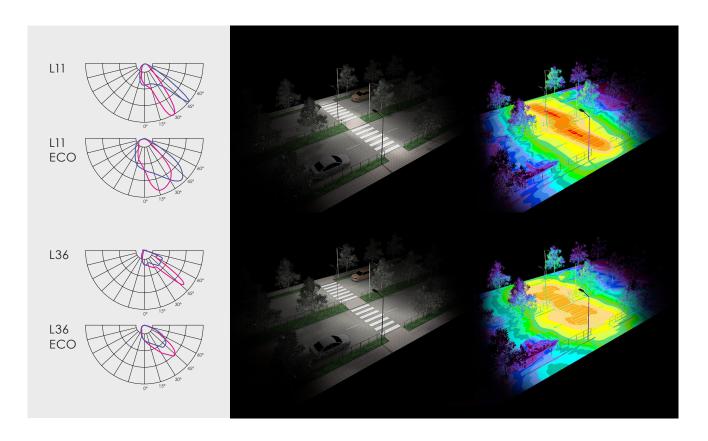
^{6) 10} kV (L-N; L/N-PE) surge protection device available on request

⁷⁾ With clear glass

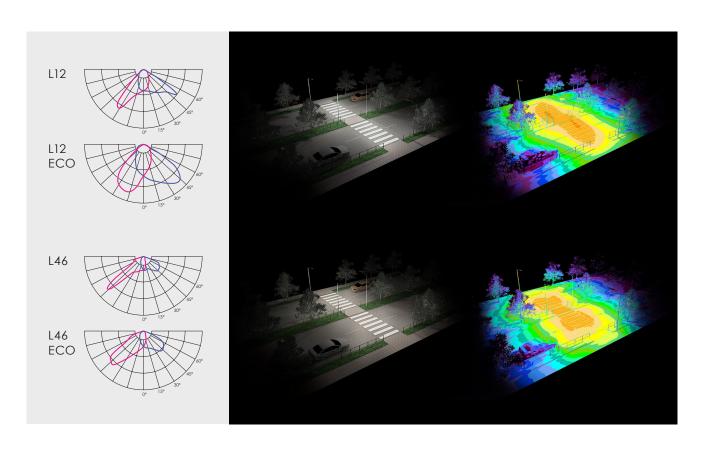
⁸⁾ Coming soon

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Right side traffic



Left side traffic



Backlight cutter

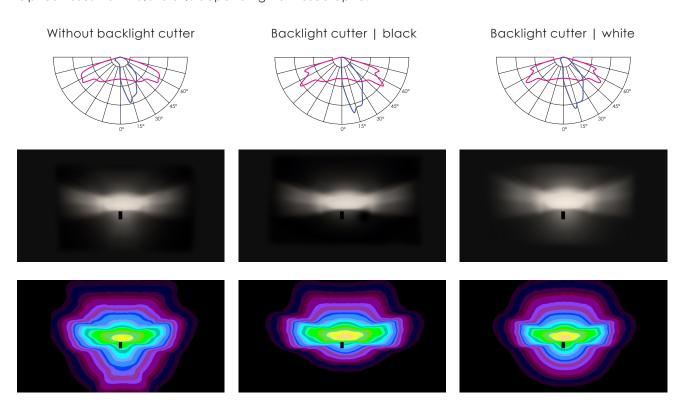
Backlight cutter | black

Art. 70000661





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



Accessories

MAUGLO Segment controller

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

Art. 70010004



Separate 10 kV SPD (available on request)

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

 $I_{\text{max}} = 10 \text{ kA}$ $I_{\text{nom}} = 5 \text{ kA}$

Internal light reflector

Art. 70083002



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



MSLC205RG Luminaire controller + radar, Zhaga, 80 mm

Art. 70010027



MSLC205RGL Luminaire controller, Zhaga, 80 mm Art. 70010029





Zhaga socket with cap

Art. 70000613



Connector

IP66 rated connector offers easy installation of the street luminaires. 3 wire cable connector Art. 70000313



Connector

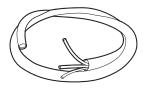
IP66 rated connector offers easy installation of the street luminaires. 5 wire cable connector



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







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).

UK CA

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.



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.



UL - compliance with UL standards for LED lighting [Coming soon]

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.



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.



DarkSky Approved - a DarkSky program seal of approval

DarkSky Approved certification is granted to outdoor lighting fixtures meeting the criteria outlined by DarkSky, an organization that aims to reduce light pollution, enabling clearer night skies and mitigating the impact on wildlife and human health. DarkSky Approved luminaires are shielded to cut off uplight, utilize energy-efficient light sources, and employ measures to limit glare. This certification reflects a dedication to responsible outdoor lighting, valued by communities, businesses, and individuals striving to protect nocturnal environments.



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 introdution 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 introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

References



≥ Prague, Czechia



X Kemeri, Latvia



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O VIZULOSOLUTIONS