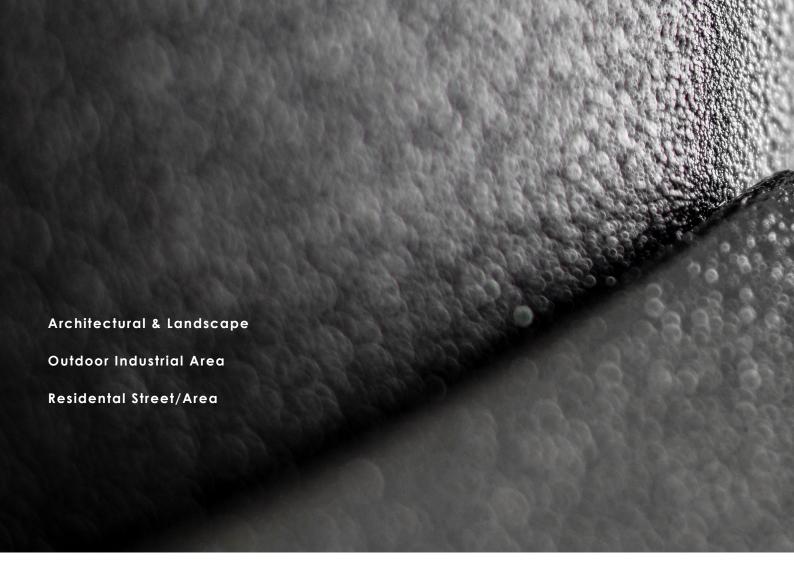
Vizulo Blackbiro POST TOP



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 screws

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

Zhaga and NEMA sockets compatible

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

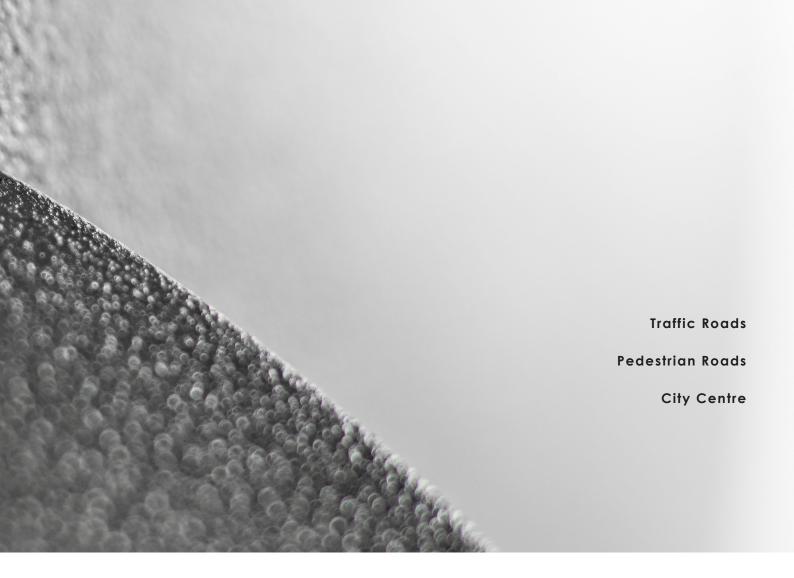
Built-in surge protection starting from 6 kV till 10 kV

Light regulation

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

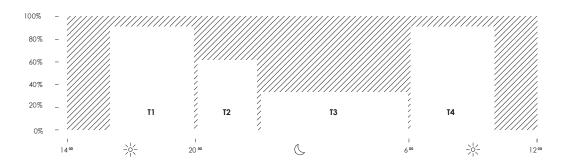
Impact resistance

IK10 (Vandal protected) for the complete luminaire

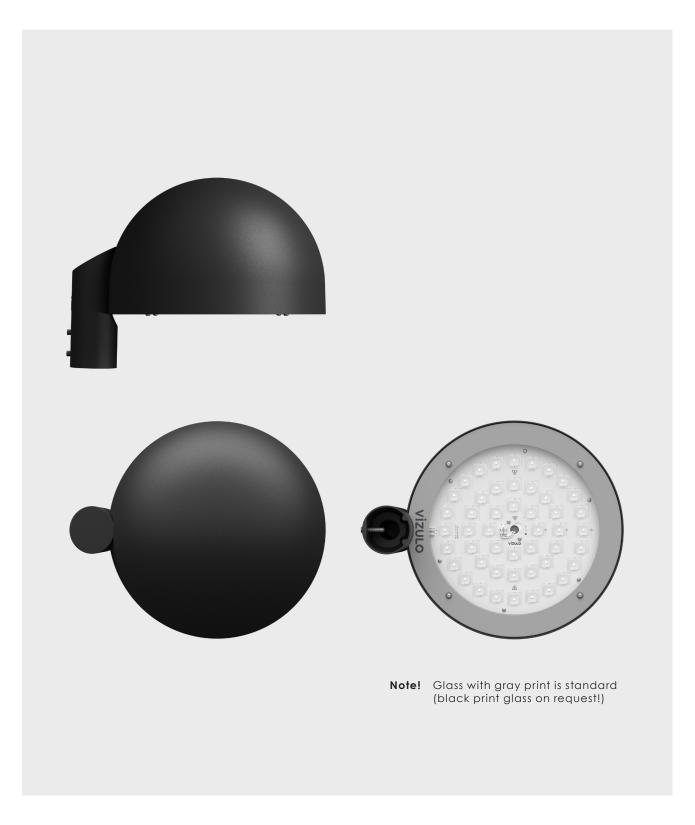


Midnight dimming

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.



Blackbird post top







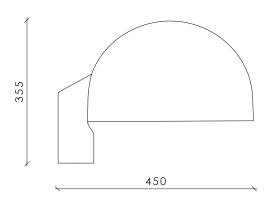
RAL7035 RAL9006 DB703

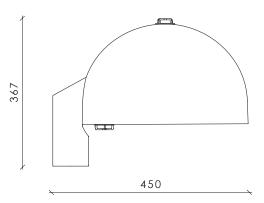




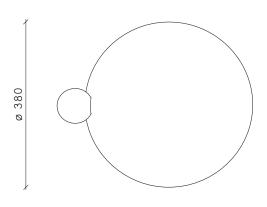
RAL9005

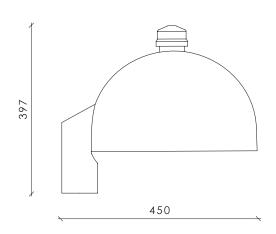
Other colors available on request



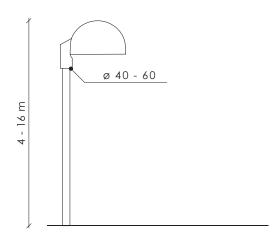


Dimensions with 2 Zhaga connectors





Dimensions with NEMA socket



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

Technical information





























198 - 264 / 110 - 277 (1

50 - 60 Hz W 5 - 100

441 - 15500 (2 lm lm/W 88 - 160

2700 / 3000 / 4000 / K

°C $-40 \text{ up to } +50 \text{ } ^{(4)}$

>70 / >80 / >90 (3 CRI

TW 2700 - 6500 (3

Body: Die-cast aluminium

DALI / 1-10 V / Midnight dimming / 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 $Ta = 25 \, ^{\circ}\text{C}^{*}$ High density 100 000 h (L98B10) at Ta = 25 °C*

Warranty: 5 years

Installation: Pre-wired cable 30 cm (5

Spigot: 32 - 40 mm ⁽⁶ / 40 - 60 mm / 76 mm ⁽⁶ Socket: NEMA Top / Zhaga Top and Bottom

Intelligent Control: Stand-alone / Group / CMS

Sensor: Motion / Motion + Daylight / Daylight

Surge protection: 4 / 6 / 10 kV (7 Corrosion protection: Up to C5 Neto weight: Up to 8.2 kg

Max. wind load

0.10 m² area, SCd:

Note! Only fixtures with CCT of 3000 K or lower are DarkSky approved!

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

 $^{^{3)}}$ 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

⁴⁾ Operating temperature differs depending on chosen output wattage

⁵⁾ Other lengths available on request

⁶⁾ Achievable with an adapter for 40 - 60 mm spigot

^{7) 10} kV (L-N; L/N-PE) surge protection device available on request

⁸⁾ 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			8			16	
Nominal current, mA	270	500	730	140	540	700	270	480	760
Power, W	5	8	11	5	15	19	15	25	39
Luminous Flux, Im	520	900	1300	560	2000	2500	2200	3530	5240
Efficacy, Im/W	104	113	118	110	133	132	147	141	134
Power factor, PF	Uŗ	o to 0.93	3		Up to 0.9	94		Up to 0.9	8
				ı			I		
Number of LED's		24			32			48	
Nominal current, mA	260	470	700	280	510	680	270	510	680
Power, W	20	35	52	28	50	75	40	75	100
Luminous Flux, Im	3000	5100	7200	4300	7300	10230	6100	11000	14000
Efficacy, Im/W	150	146	138	154	146	136	153	147	140
Power factor, PF	Uķ	o to 0.97	7	l	Up to 0.9	7		Up to 0.9	7
Luminaire efficacy	2700 K	5 - 10	00 W	441 -	12000 In	n 88	- 134 l	m/W	
	3000 K 5 - 100 W		485 -	13200 In	n 97	- 144 lm/W			
	5000 K	5 - 10)0 W	520 -	14000 In	n 10-	4 - 154	lm/W	
	5700 K	5 - 10	00 W	520 -	14000 In	n 10-	4 - 154	lm/W	

High density modules

* Data for V01 optic.

Check VIZULO members section for additional information

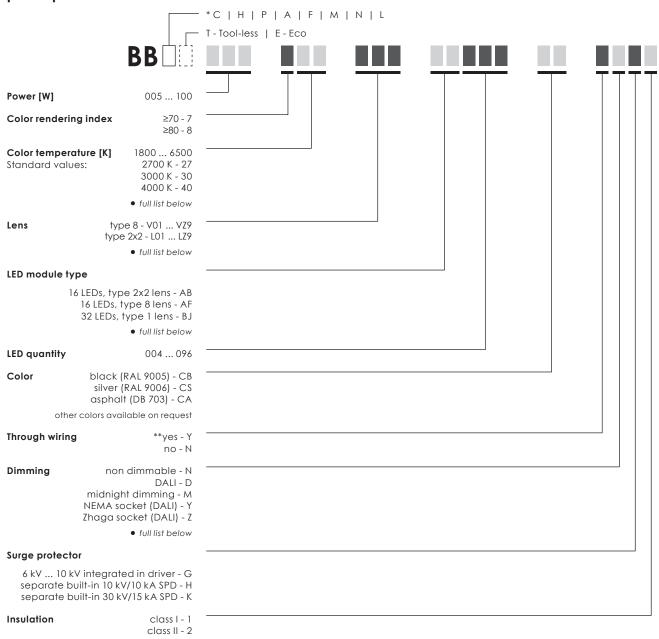
4000 K | CRI 70

				I			ı		
Number of LED's		16			24			32	
Nominal current, mA	280	480	760	260	470	700	290	500	760
Power, W	15	25	39	20	35	52	29	50	75
Luminous Flux, Im	2200	3530	5240	3000	5100	7200	4450	7300	10300
Efficacy, Im/W	147	141	134	150	146	138	153	146	137
Power factor, PF	l	Jp to 0.9	8	l	Jp to 0.9	7		Up to 0.9	97
				I.					
Number of LED's		48			96				
Nominal current, mA	270	510	680	270	320	350			
Power, W	40	75	100	76	90	100			
Luminous Flux, Im	6300	11000	14000	12100	14100	15500			
Efficacy, Im/W	158	147	140	159	157	155			
Power factor, PF	l	Jp to 0.9	7	l	Jp to 0.9	8			
Luminaire efficacy	2700 k	(15 -	100 W	1840 -	13210 li	m 115	5 - 136	m/W	
	3000 I	< 15 -	100 W	2015 -	14530 I	m 12	7 - 150	lm/W	
	5000 I	< 15 -	100 W	2200 -	15500 I	lm 13	4 - 159	lm/W	
	5700 k	(15 -	100 W	2200 -	15500	lm 13	4 - 159	lm/W	

4000 K | CRI 70

Number of LED's		4			8			16		
Nominal current, mA	140	490	670	280	490	700	140	250	390	
Power, W	5	14	19	15	26	38	15	25	39	
Luminous Flux, Im	55	1730	2300	2100	3430	4640	2300	3750	5560	
Efficacy, Im/W	111	124	121	140	132	122	153	150	143	
Power factor, PF	I	Up to 0.9	4		Up to 0.98			Up to 0.98		
Number of LED's		24			32			48		
Nominal current, mA	270	530	650	260	380	500	140	260	350	
Power, W	42	80	100	50	75	100	40	75	100	
Luminous Flux, Im	6050	10600	12400	7620	11000	13400	6410	11500	14500	
Efficacy, Im/W	144	133	124	152	147	134	160	153	145	
Power factor, PF	l	Jp to 0.9	8	Up to 0.97			Up to 0.96			
Luminaire efficacy	2700 I	< 5 - 10	W 00	520 -	13560 In	n 104	4 - 150 lm/W			
	3000 K 5 - 100 W		555 -	555 - 14500 lm 111		1 - 160 lm/W				
	5000 K 5 - 100 W		555 - 14500 lm 111		1 - 160 lm/W					
	5700 I	< 5 - 10	00 W	555 -	14500 In	n 111	- 160 I	m/W		

Model name principles



EXAMPLE BBP 050 730 L01 AB032 CB NDG1

• Full list of options Color temperature [K]

1800 6500 2700 K - 27 3000 K - 30 4000 K - 40 Tunable White 2700-6500 - TW Nature Friendly Red - NR Nature Friendly Amber - NA	type 8 - V01 VZ9 type 2x2 - L01 LZ9 type 4x2 - B01 BZ9 type 6x1 - T01 TZ9 type 12 - Y01 YZ9 type 1 - Z01 ZZ9 type 1 micro - U01 UZ9

Lens

Dimming

non dimmable - N DALI - D 1-10 V - A midnight dimming - M midnight dimming + DALI - R step dimming - S mains dimming - L wireless - W NEMA socket (DALI) - Y Zhaga socket (DALI) - Z ***custom configuration - X

LED module type

8 LEDs, type 2x2 lens - AA
16 LEDs, type 2x2 lens - AB
16 LEDs, type 8 lens - AF
32 LEDs, type 8 lens - AG
48 LEDs, type 2x2 lens - BF
96 LEDs, type 8 lens - BF
4 LEDs, type 8 lens - BH
24 LEDs, type 1 lens - BJ
24 LEDs, type 2x2 lens - BL
48 LEDs, type 2x2 lens - BM
48 LEDs, type 4x2 lens - BM
16 LEDs, type 4x2 lens - BN
16 LEDs, type 4x2 lens - BU
96 LEDs, type 4x2 lens - BU
96 LEDs, type 4x2 lens - BU
10 LEDs, type 1 lens - BR
12 LEDs, type 1 lens - BR

^{*} C - Street (side-entry) | H - Hanging | P - Post-top | A - Top-entry | F - Flood (flood light) M - Mushroom (42 - 60 mm) | N - Mushroom (76 mm) | L - Scepter

^{**} Available only for Hanging version

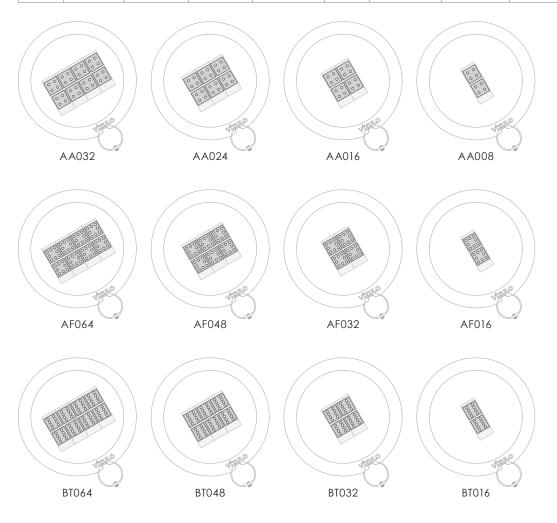
^{***} CUSTOM CONFIGURATION EXAMPLE:

NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.

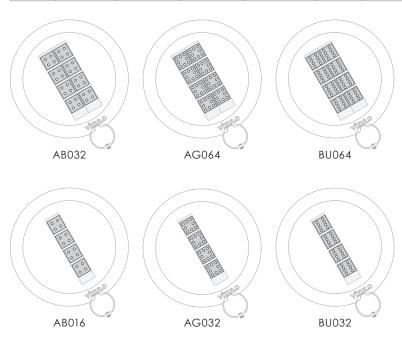
Custom configuration information is available in order confirmation.

LED modules

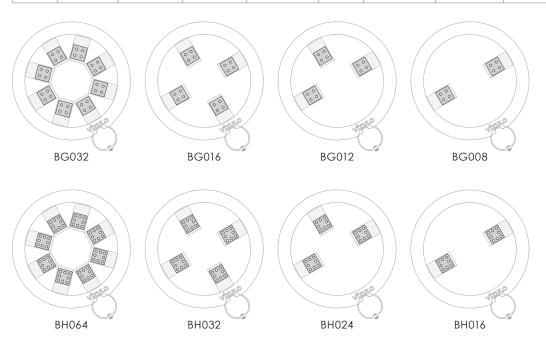
Туре	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
AA	4	4	8	32	2	Standard Eco	type 2x2 L01LZ9	0 0 0 0 0
AF	4	4	16	64	2	Standard	type 8 V01VZ9	
ВТ	4	4	16	64	8	Standard	type 4x2 B01BZ9	0000 0000



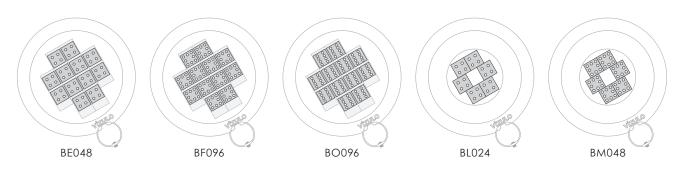
Туре	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
АВ	2	8	16	32	2	Standard Eco	type 2x2 L01LZ9	
AG	2	16	32	64	2	Standard	type 8 V01VZ9	
BU	2	16	32	64	8	Standard	type 4x2 B01BZ9	0000 0000 0000 0000



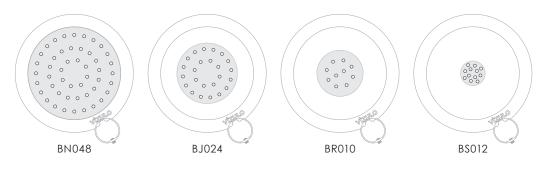
Туре	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
BG	8	4	4	32	2	Standard Eco	type 2x2 L01LZ9	0 0
ВН	8	4	8	64	2	Standard	type 8 V01VZ9	000



Туре	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
BE	1	40	48	48	2	Standard Eco	type 2x2 L01LZ9	
BF	1	72	96	96	4	Standard	type 8 V01VZ9	GOO GOO
ВО	1	72	96	96	8	Standard	type 4x2 B01BZ9	0000
BL	1	24	24	24	2	Standard Eco	type 2x2 L01LZ9	
ВМ	1	32	48	48	4	Standard	type 8 V01VZ9	800 (800 (800 (800 (800 (800 (800 (800



Туре	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
BN*	1	36	48	48	-	Standard	type 1 Z01ZZ9	
ВЈ	1	8	24	24	-	Standard Eco	type 1 Z01ZZ9	00000
BR	1	10	10	10	-	Standard	type 1 Z01ZZ9	0000
BS	1	12	12	12	-	Standard	type 1 Z01ZZ9	888



 $^{^{}st}$ Not applicable with Bottom Zhaga socket

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	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	Х	3	2
Zhaga	Mains dimming	Х	3	2
NEMA	DALI	Υ	3 / 5 (3	2 / 4 (3
NEMA	Midnight dimming	Х	3	2
NEMA	Step dimming	Х	5 (1	4 (1
NEMA	Mains dimming	Х	3	2

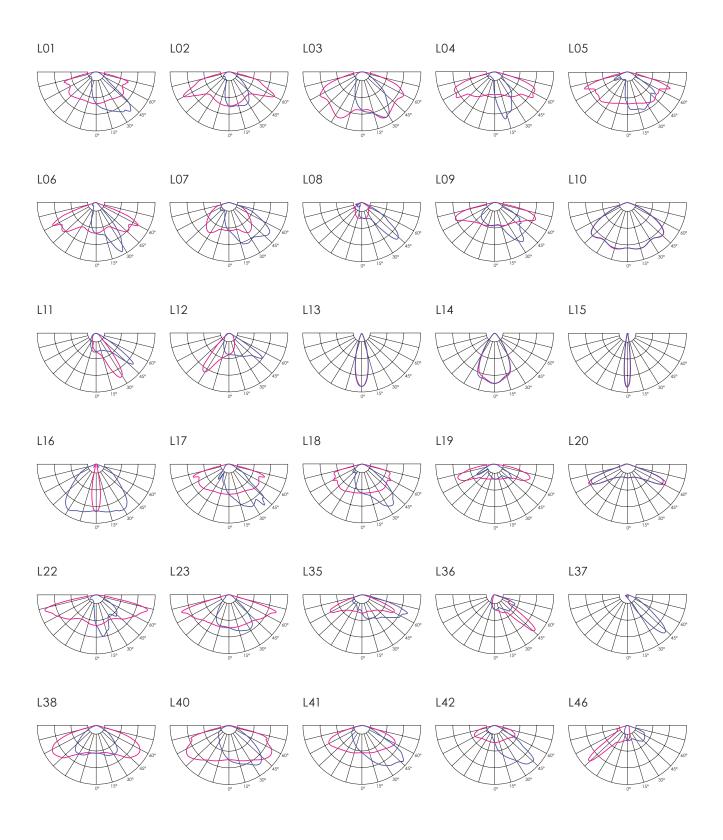
^{1) 1} core unused

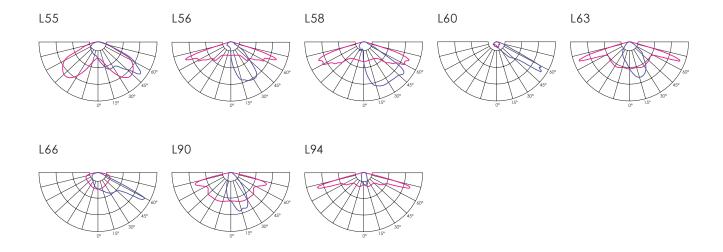
 $^{^{\}rm 2)}\,$ DALI wires used only for internal connection between driver and Zhaga socket(s)

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

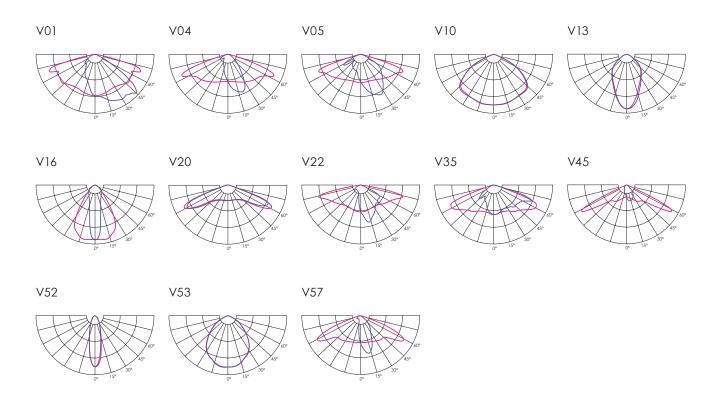
Optics

Standard modules





High density modules





Pedestrian crossing optics



198 - 264 / 110 - 277 (1

50 - 60 Hz 5 - 100 W

Up to 14000 (2

Up to 14500 (3

lm/W 88 - 154 (2

104 - 160 (3

2700 / 3000 / 4000 /

TW 2700 - 6500 (4

°C -40 up to $+50^{(5)}$

>70 / >80 / >90 (4 CRI

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 $Ta = 25 \, ^{\circ}\text{C}^{*}$

Warranty: 5 years

Installation: Pre-wired cable 30 cm (6)

Spigot: 32 - 40 mm ⁽⁷ / 40 - 60 mm / 76 mm ⁽⁷ Socket: NEMA Top / Zhaga Top and Bottom

Intelligent Control: Stand-alone / Group / CMS

Sensor: Motion / Motion + Daylight / Daylight

Surge protection: 4 / 6 / 10 kV (8 Corrosion protection: Up to C5 Neto weight: Up to 8.2 kg

Max. wind load

area, SCd: $0.10 \, \text{m}^2$

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

 $^{^{} ext{1}}$ Maximum operating voltage, ENEC certificate voltage 220 - 240 V, UL certificate voltage 110 - 277 V

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

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

^{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⁾ Operating temperature differs depending on chosen output wattage

⁶⁾ Other lengths available on request

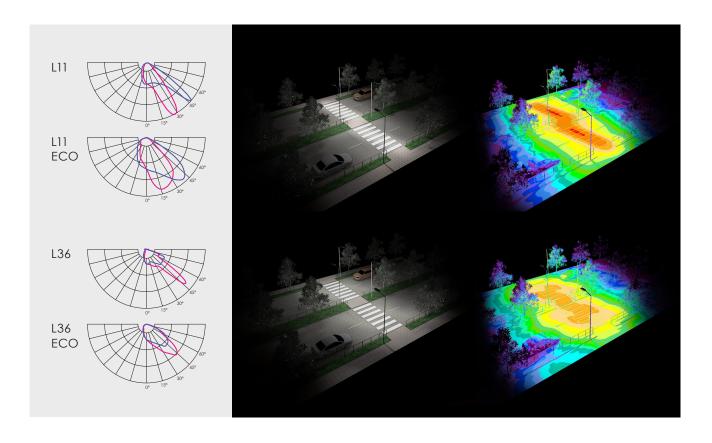
⁷⁾ Achievable with an adapter for 40 - 60 mm spigot

^{8) 10} kV (L-N; L/N-PE) surge protection device available on request

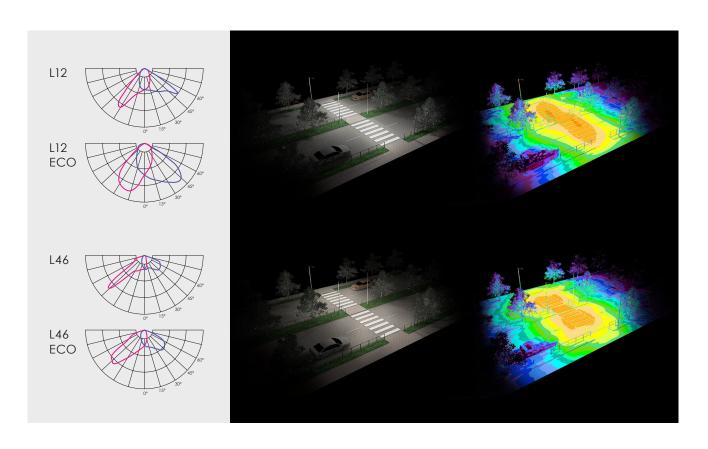
⁹⁾ Coming soon

^{*} 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.

Right side traffic



Left side traffic



Backlight cutter

Backlight cutter | black

Art. 70000661





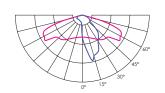
Backlight cutter | white Art. 70000662



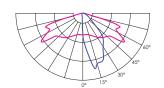


Optical loses from 10% to 31% depending from used optic.

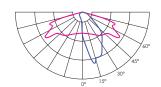
Without backlight cutter



Backlight cutter | black

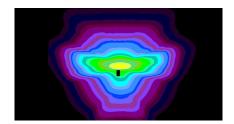


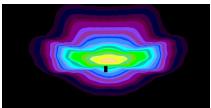
Backlight cutter | white

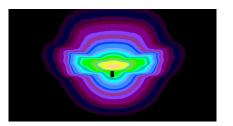












Accessories

MAUGLO Segment controller

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

Art. 70010004

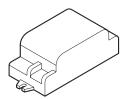


MAUGLO Luminaire controller

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

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

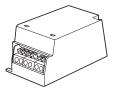


MAUGLO Surge Protection device

Surge Protection device offersprotection against lighting surges; Voltage Protection level up (L-N) \leq 1,5 kV Voltage Protection level up (L/N-PE) \leq 2,0 kV

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

Art. 70020001



Radio Frequency Antenna

Heavy duty IP67 enclosure Mounted in cabinet or luminaire body with 14 mm screw SMA connector Art. 70000108



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



MSLC205RG Luminaire controller + radar, Zhaga, 80 mm

Art. 70010027



MSLC205RGL Luminaire controller, Zhaga, 80 mm

Art. 70010029

Art. 70000304



Connector

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

Connector

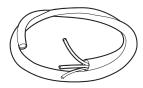
IP66 rated connector offers easy installation of the street luminaires. 5 wire cable connector

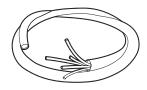


Pre-installed cable sets For internal power supply

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
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

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).

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.



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

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.



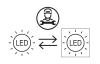
International EPD System – Environmental Product Declaration available

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.



Synergrid approved - compliance with Synergid requirements for LED lighting [Coming soon]

Synergrid is a federation of electricity and natural gas network operators in Belgium. The Synergrid approval mark means that the product is compliant with the design, safety and performance requirements set by Synergrid. The approval can be confirmed by checking the official list of Synergrid approved luminaires on the Synergrid website.



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



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