VIZULO



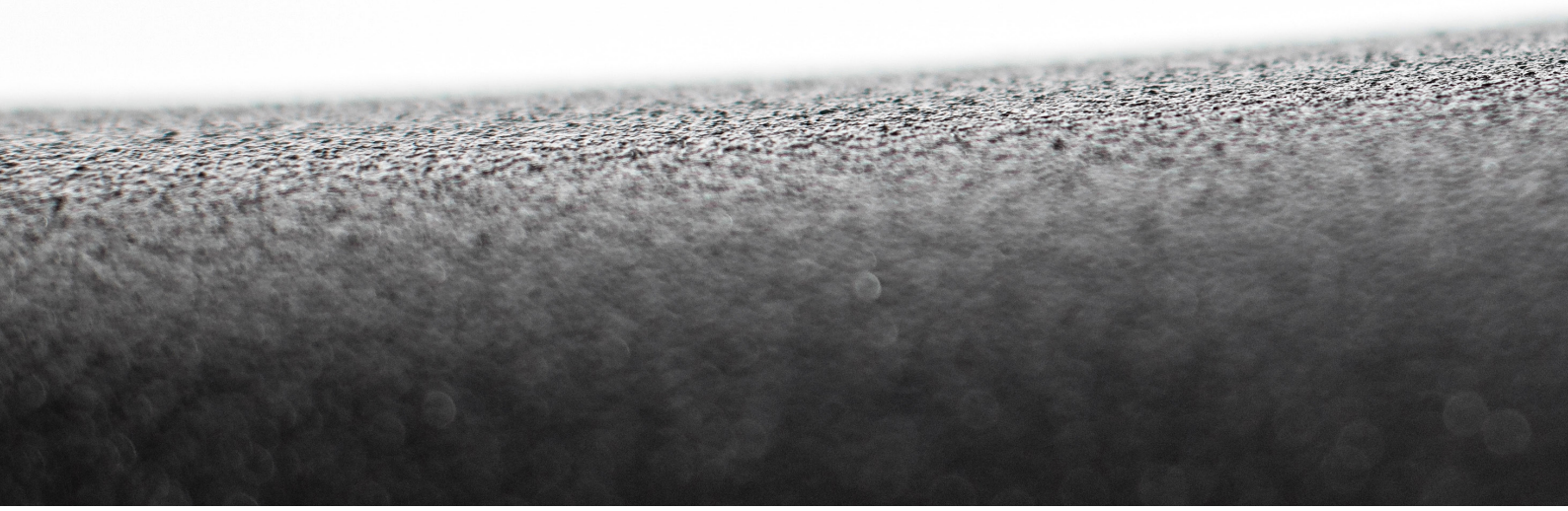
Luscinia

POST TOP

Architectural & Landscape

Outdoor Industrial Area

Residental Street/Area



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
Clear or opal polycarbonate cover, high durability (IK10), UV resistant

LED module
High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time.
Available color temperature: 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

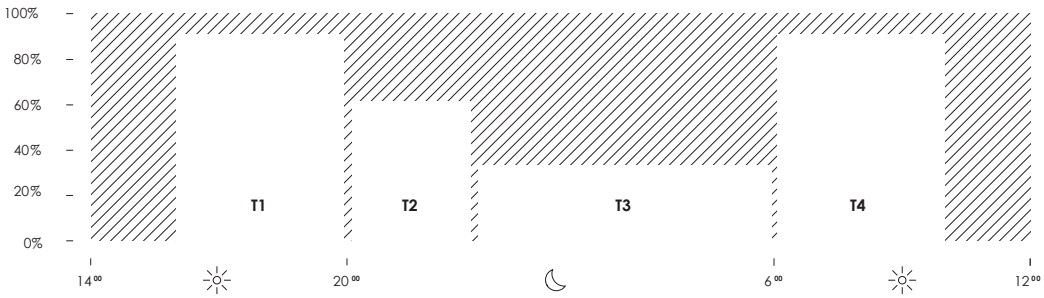
Light regulation
LUSCINIA drivers offer integrated midnight dimming and network-controlled 1-10 V and DALI protocols

Impact resistance
IK10 (Vandal protected) for the complete luminaire



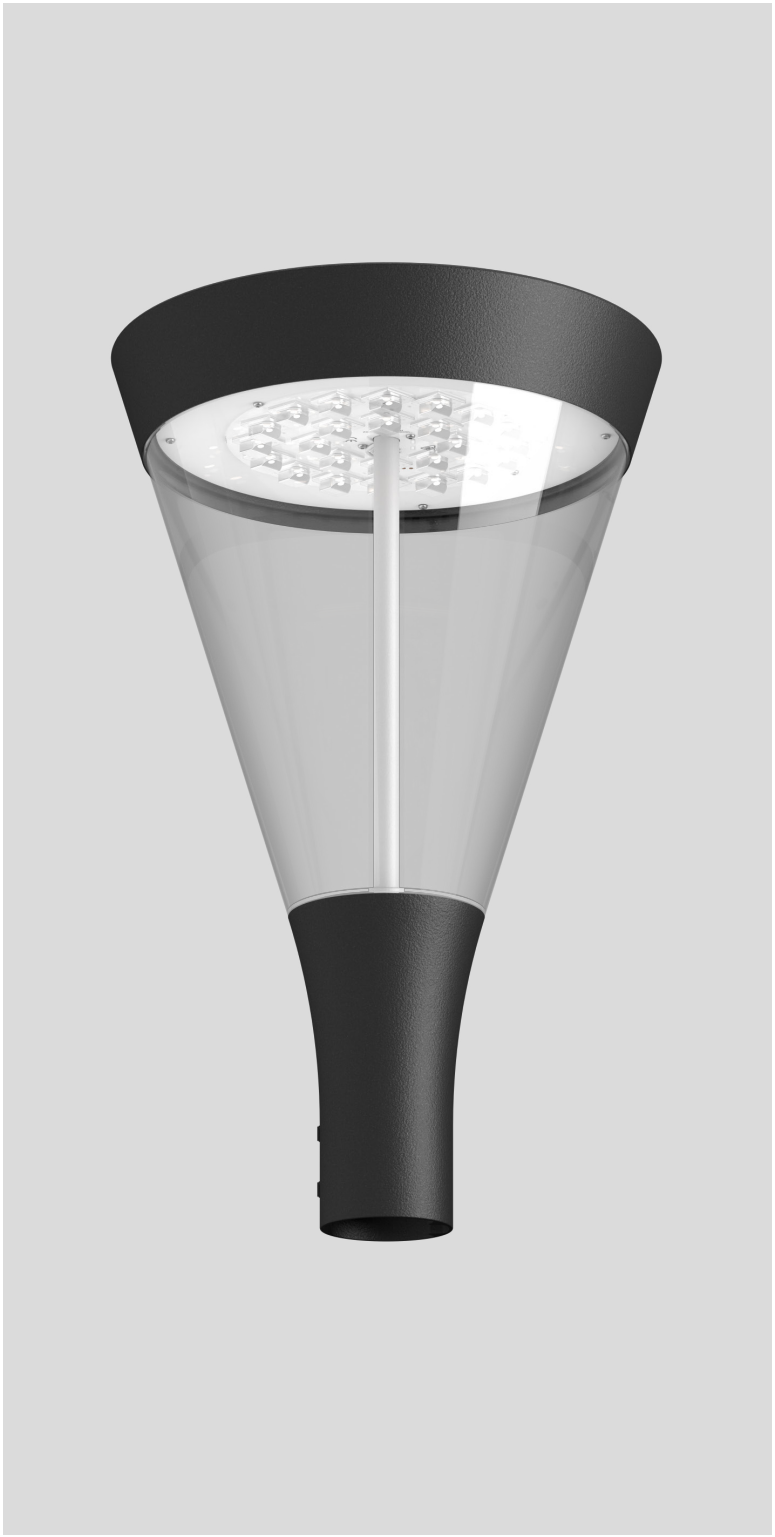
Midnight dimming

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.



Luscinia

post top





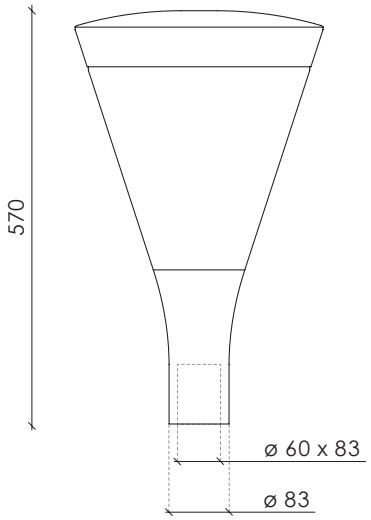
RAL7035 RAL9006 DB703 RAL9005

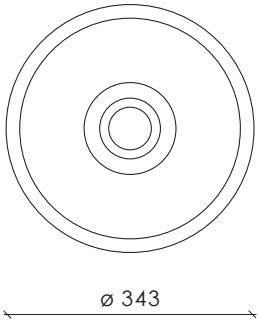
Other colors
available on request

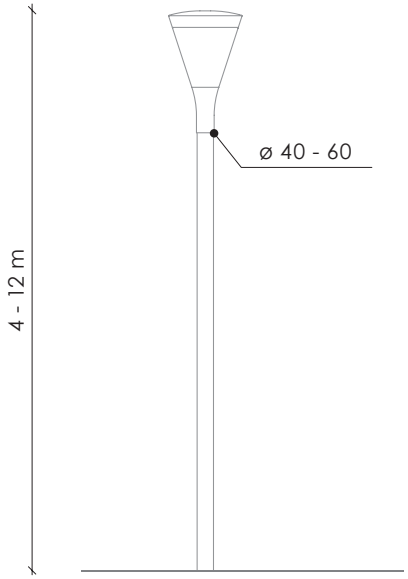
Dimensions with **60 mm** console

According to model name principles:

LU**P** □□□ □□□ □□□ □□□□□ □□□ □□□□



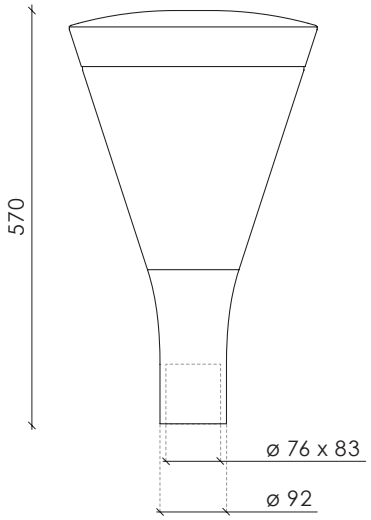


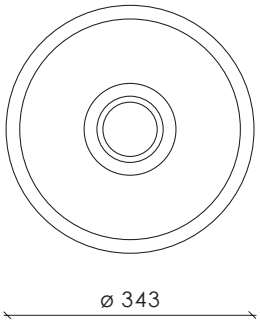


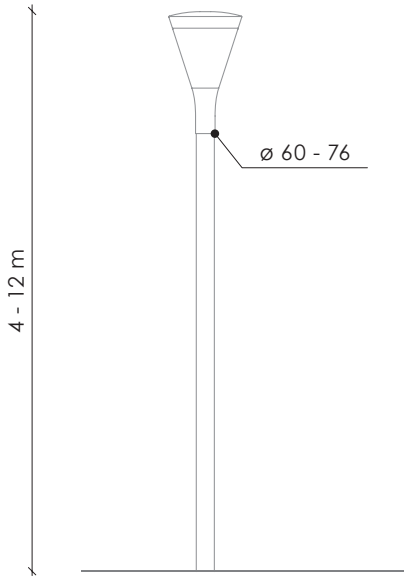
Dimensions with **76 mm** console

According to model name principles:

LU**R** □□□ □□□ □□□ □□□□□ □□□ □□□□







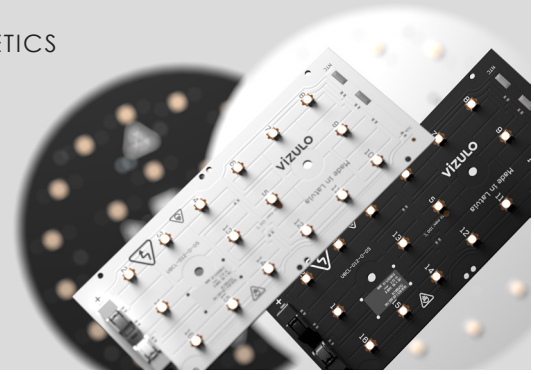
Features

↘ WHITE OR BLACK PCB - PERFORMANCE MEETS AESTHETICS

Choose **white PCB** for brighter illumination,
or the **black PCB** for a sleek, modern look.

While white PCB offer **~11%** more lumens,
black PCB deliver just **2.5%** less light on the road -
an impressive result given their design appeal.

Note! Black PCB available on request



↘ LED COVER PLATE

The LED cover plate offers several advantages, including glare reduction, enhanced ambiance, improved visual comfort, and decorative possibilities. Lumen output reduction up to 12.2%

According to model name principles:
LUP □□□ □□□ □□□ □□□□□ **O**□□ □□□□

Note! LED cover plate is applicable only with LED modules with tube in the middle (see "*LED modules*" section on pages 10 - 11)



↘ OPAL GLASS

While opal glass may reduce light output up to 16.8%, its diffusing properties offer numerous advantages in terms of visual comfort, aesthetics and glare reduction, providing a soft, gentle illumination

According to model name principles:
LUP □□□ □□□ □□□ □□□□□ **M**□□ □□□□



↘ ZHAGA TOP AND BOTTOM

Connect up to 2 Zhaga Book 18 devices
for motion detection and luminaire control

Note! Zhaga Bottom on request



Technical information

V	198 - 264 / 110 - 277 [1]
Hz	50 - 60
W	5 - 80
lm	490 - 12 890 [2]
lm/W	98 - 161
K	2700 / 3000 / 4000 [3]
°C	-40 up to +55 [4]
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 °C* High density 100 000 h (L98B10) at Ta = 25 °C*
Warranty:	5 years
Installation:	Pre-wired cable 30 cm [5]
Spigot:	40 - 60 mm / 60 - 76 mm
Socket:	NEMA Top / Zhaga Top and Bottom [6]
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 6.5 kg
Max. wind load area, SCd:	0.13 m^2

1) Maximum operating voltage, ENEC certificate voltage 198 - 264 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) Bottom Zhaga socket is not applicable with BL, BM and BJ LED modules (see the *LED modules* section on pages 10 - 11)

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

8) EPD registration number: S-P-05889 (link to page)

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.

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

Number of LED's		8			16			24	
Nominal current, mA	140	540	700	280	480	770	260	460	700
Power, W	5	15	19	15	25	39	20	35	52
Luminous Flux, lm	570	2140	2690	2360	3880	5800	3200	5470	7730
Efficacy, lm/W	114	143	142	157	155	149	160	156	149
Power factor, PF		Up to 0.94			Up to 0.98			Up to 0.97	

Luminaire efficacy	2700 K	5 - 52 W	490 - 6630 lm	98 - 135 lm/W
	3000 K	5 - 52 W	540 - 7300 lm	108 - 153 lm/W
	5000 K	5 - 52 W	570 - 7730 lm	114 - 160 lm/W
	5700 K	5 - 52 W	570 - 7730 lm	114 - 160 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			32			48	
Nominal current, mA	140	540	700	280	480	770	280	510	760	270	410	550
Power, W	5	15	19	15	25	39	28	50	75	40	60	80
Luminous Flux, lm	570	2140	2690	2360	3880	5800	4430	7530	10620	6450	9350	12000
Efficacy, lm/W	114	143	142	157	155	149	158	151	142	161	156	150
Power factor, PF		Up to 0.94			Up to 0.98			Up to 0.97			Up to 0.98	

Luminaire efficacy	2700 K	5 - 80 W	490 - 10260 lm	98 - 139 lm/W
	3000 K	5 - 80 W	540 - 11280 lm	108 - 153 lm/W
	5000 K	5 - 80 W	570 - 12000 lm	114 - 161 lm/W
	5700 K	5 - 80 W	570 - 12000 lm	114 - 161 lm/W

Eco modules

* Data for L01 optic.

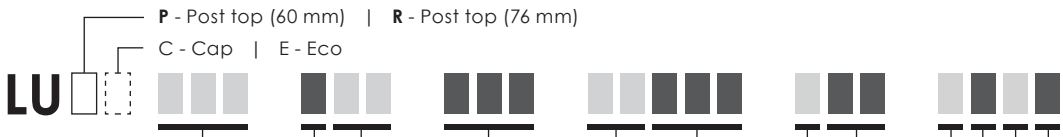
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		8			16			24	
Nominal current, mA	280	490	700	280	490	715	270	400	525
Power, W	15	26	38	28	50	75	40	60	80
Luminous Flux, lm	2160	3555	4800	4300	6950	9360	6260	8800	11600
Efficacy, lm/W	144	137	126	154	139	125	157	147	145
Power factor, PF		Up to 0.98			Up to 0.97			Up to 0.97	

Luminaire efficacy	2700 K	15 - 80 W	2040 - 10420 lm	118 - 147 lm/W
	3000 K	15 - 80 W	2160 - 11130 lm	126 - 157 lm/W
	5000 K	15 - 80 W	2160 - 11600 lm	126 - 157 lm/W
	5700 K	15 - 80 W	2160 - 11600 lm	126 - 157 lm/W

Model name principles



Power [W] 005 ... 080

Color rendering index
≥70 - 7
≥80 - 8

Color temperature [K] 1800 ... 6500
Standard values:
2700 K - 27
3000 K - 30
4000 K - 40

Lens
type 2x2 - L01 ... LZ9
type 2x3 - J01 ... JZ9
type 4x2 - B01 ... BZ9
type 8 - V01 ... VZ9
type 1 - Z01 ... ZZ9
custom configuration - M01 ... NZ9

LED module type
4 LEDs, type 2x2 lens - BG
8 LEDs, type 2x2 lens - AA
24 LEDs, type 2x2 lens - BL
12 LEDs, type 2x3 lens - BY
16 LEDs, type 4x2 lens - BT
8 LEDs, type 8 lens - BH
16 LEDs, type 8 lens - AF
48 LEDs, type 8 lens - BM
32 LEDs, type 1 lens - BJ

LED quantity 004 ... 048

Diffuser
none - N
opal - O
opal cone - M

Color
black (RAL 9005) - CB
silver (RAL 9006) - CS
asphalt (DB 703) - CA
other colors available on request

Through wiring no - N
[only for LU Hanging version]

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

Surge protector
6 kV ... 10 kV integrated in driver - G
separate built-in 10 kV/10 kA SPD - H
separate built-in 30 kV/15 kA SPD - K

Insulation
class I - 1
class II - 2

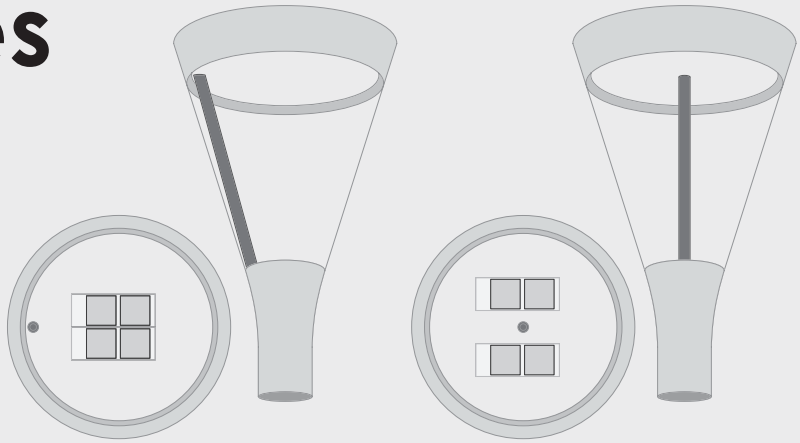
EXAMPLE LUPE 080 730 L05 BL024 OCS NDG1

*** CUSTOM CONFIGURATION EXAMPLE**

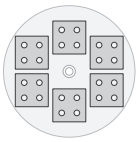
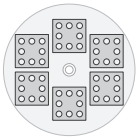
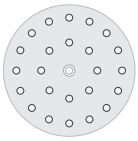
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.
Custom configuration information is available in order confirmation.

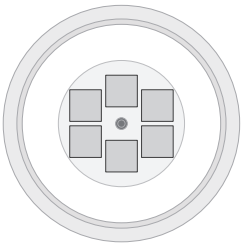
LED modules

↘ For your convenience, the bottom view shows the arrangement of LED modules within the luminaire, while the side view highlights their positioning relative to the tube (depicted in darker grey)



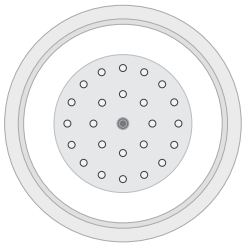
Note! Lumen output indicated at 4000 K, CRI > 70

Type	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
BL*	1	16	24	24	2	Standard Eco	type 2x2 L01…LZ9	
BM*	1	32	48	48	4	Standard	type 8 V01…VZ9	
BJ*	1	8	24	24	-	Standard Eco	type 1 Z01...ZZ9	



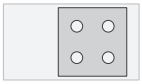
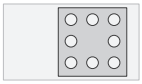
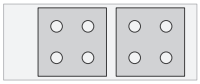
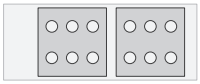
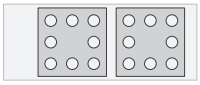
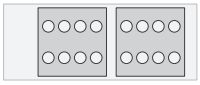
BL*
max 24 LEDs
up to 11 600 lm

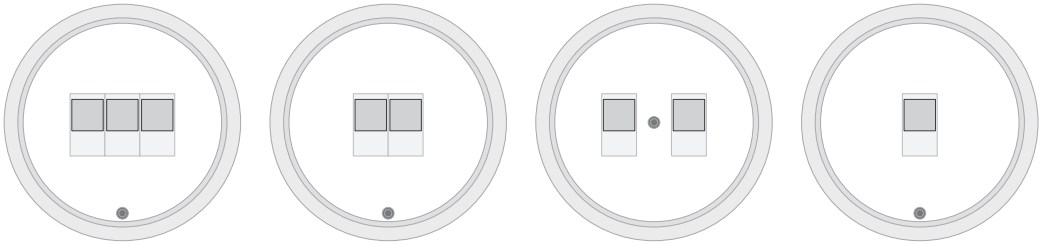
BM*
max 48 LEDs
up to 11 970 lm



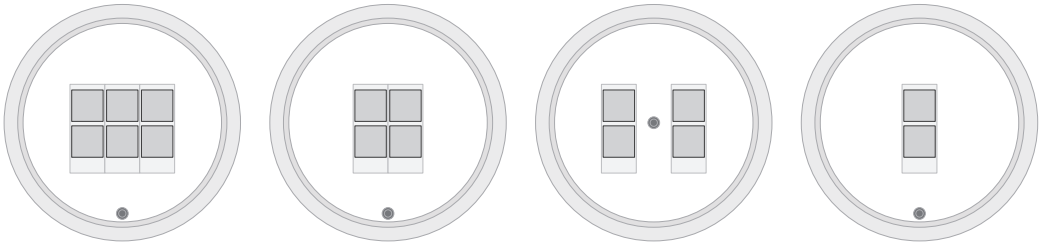
BJ*
max 24 LEDs
up to 11 600 lm

* Not applicable with Bottom Zhaga socket

Type	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	3	4	4	12	2	Standard Eco	type 2x2 L01…LZ9	
BH	3	4	8	24	2	Standard	type 8 V01…VZ9	
AA	3	4	8	24	2	Standard Eco	type 2x2 L01…LZ9	
BY	3	6	12	36	6	Eco	type 2x3 J01…JZ9	
AF	3	8	16	48	2	Standard	type 8 V01…VZ9	
BT	3	8	16	48	8	Standard Eco	type 4x2 B01…BZ9	



BG	max 12 LEDs up to 7 510 lm	max 8 LEDs up to 6 550 lm	max 8 LEDs up to 6 550 lm	max 4 LEDs up to 3 360 lm
BH	max 24 LEDs up to 7 600 lm	max 16 LEDs up to 6 700 lm	max 16 LEDs up to 6 700 lm	max 8 LEDs up to 3 390 lm



AA	max 24 LEDs up to 11 600 lm	max 16 LEDs up to 10 630 lm	max 16 LEDs up to 10 630 lm	max 8 LEDs up to 6 550 lm
BY	max 36 LEDs up to 12 290 lm	max 24 LEDs up to 11 600 lm	max 24 LEDs up to 11 600 lm	max 12 LEDs up to 7 510 lm
AF	max 48 LEDs up to 12 000 lm	max 32 LEDs up to 11 170 lm	max 32 LEDs up to 11 170 lm	max 16 LEDs up to 6 700 lm
BT	max 48 LEDs up to 12 890 lm	max 32 LEDs up to 12 160 lm	max 32 LEDs up to 12 160 lm	max 16 LEDs up to 10 630 lm

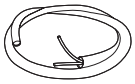
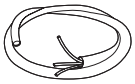
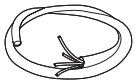
Cable core count

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	1-10 V	A	5	4
None	Midnight dimming	M	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	X	3	2
Zhaga	Mains dimming	X	3	2
NEMA	DALI	Y	3 / 5 [3]	2 / 4 [3]
NEMA	Midnight dimming	X	3	2
NEMA	Step dimming	X	5 [1]	4 [1]
NEMA	Mains dimming	X	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

Cable order information*

* Custom cable lengths available on request

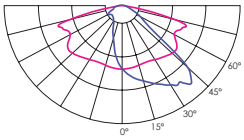





Cable length [m]	2 x 1.5 mm²	3 x 1.5 mm²	4 x 1.5 mm²	5 x 1.5 mm²
0.5	*Art. 70100184*	*Art. 70100179*	*Art. 70100402*	*Art. 70000305*
1	*Art. 70100156*	*Art. 70100193*	*Art. 70000527*	*Art. 70100026*
1.5	*Art. 70100391*	*Art. 70100258*	*Art. 70100403*	*Art. 70000501*
2	*Art. 70100202*	*Art. 70100177*	*Art. 70000515*	*Art. 70000573*
2.5	*Art. 70100392*	*Art. 70100213*	*Art. 70100404*	*Art. 70000423*
3	*Art. 70100166*	*Art. 70100178*	*Art. 70000529*	*Art. 70000339*
4	*Art. 70100172*	*Art. 70100144*	*Art. 70000530*	*Art. 70000382*
5	*Art. 70100173*	*Art. 70100146*	*Art. 70000531*	*Art. 70000316*
6	*Art. 70100099*	*Art. 70000512*	*Art. 70000532*	*Art. 70000317*
7	*Art. 70100174*	*Art. 70100182*	*Art. 70000533*	*Art. 70000375*
8	*Art. 70100152*	*Art. 70000630*	*Art. 70000534*	*Art. 70000318*
9	*Art. 70100176*	*Art. 70000381*	*Art. 70000535*	*Art. 70000518*
10	*Art. 70100153*	*Art. 70000631*	*Art. 70000536*	*Art. 70000306*
11	*Art. 70100191*	*Art. 70100143*	*Art. 70000537*	*Art. 70000343*
12	*Art. 70100167*	*Art. 70100147*	*Art. 70000538*	*Art. 70000307*
13	*Art. 70100186*	*Art. 70100187*	*Art. 70000539*	*Art. 70100157*
14	*Art. 70100204*	*Art. 70100164*	*Art. 70000540*	*Art. 70100218*
15	*Art. 70100380*	*Art. 70100030*	*Art. 70000541*	*Art. 70000446*
20	*Art. 70100393*	*Art. 70100397*	*Art. 70100405*	*Art. 70000427*
25	*Art. 70100276*	*Art. 70100398*	*Art. 70100406*	*Art. 70000429*

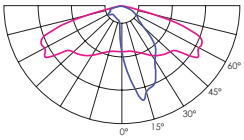
Optics

Standard modules

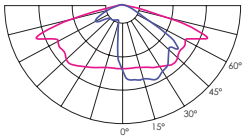
L01



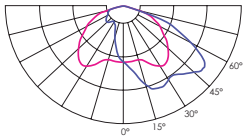
L04



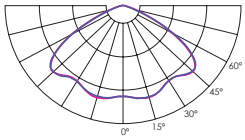
L05



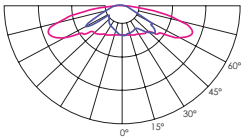
L07



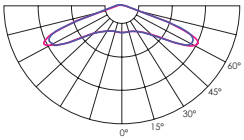
L10



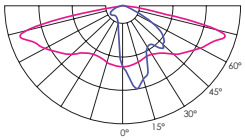
L19



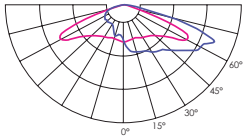
L20



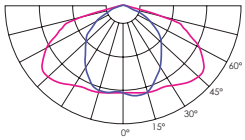
L22



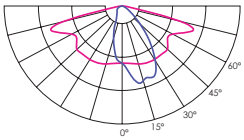
L35



L85

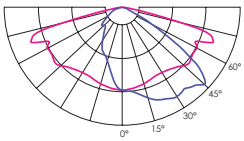


L90

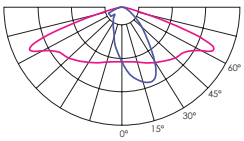


High density modules

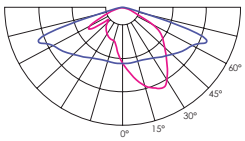
V01



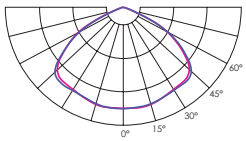
V04



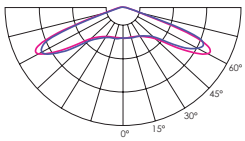
V05



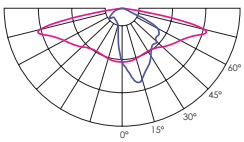
V10



V20



V22





Pedestrian crossing optics

IP66 IK08 RoHS EPD

V	198 - 264 / 110 - 277 [1]
Hz	50 - 60
W	5 - 52 [2]
	15 - 80 [3]
lm	Up to 7 730 [2]
	Up to 11 600 [3]
lm/W	98 - 160 [2]
	118 - 157 [3]
K	2700 / 3000 / 4000 [4]
°C	-40 up to +55 [5]
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 °C* Standard 100 000 h (L98B10) at Ta = 25 °C*
Warranty:	5 years
Installation:	Pre-wired cable 30 cm [6]
Spigot:	40 - 60 mm / 60 - 76 mm
Socket:	NEMA Top / Zhaga Top and Bottom [7]
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 6.5 kg
Max. wind load area, SCd:	0.13 m^2

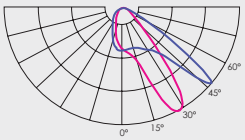
1) Maximum operating voltage, ENEC certificate voltage 198 - 264 V, UL certificate voltage 110 - 277 V
2) Standard modules, lumen output indicated at CRI > 70
3) Eco modules, lumen output indicated at CRI > 70
4) 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT
5) Operating temperature differs depending on chosen output wattage
6) Other lengths available on request
7) Bottom Zhaga socket is not applicable with BL, BM and BJ LED modules (see the *LED modules* section above)
8) 10 kV (L-N; L/N-PE) surge protection device available on request
9) EPD registration number: S-P-05889 (link to page)
10) 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.

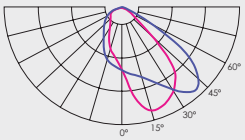
Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

Right side traffic

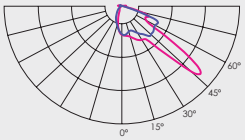
L11



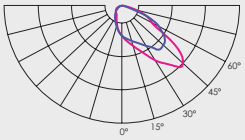
L11
ECO

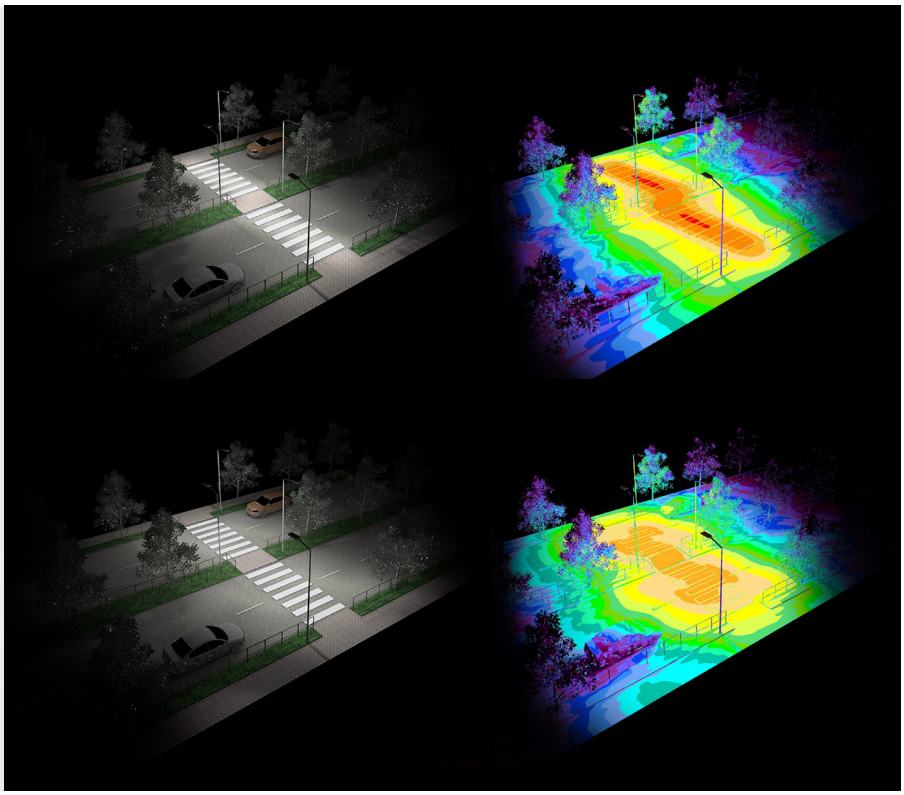


L36



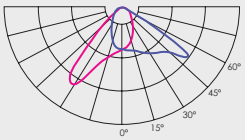
L36
ECO



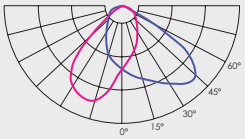


Left side traffic

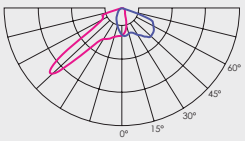
L12



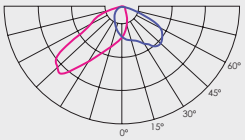
L12
ECO

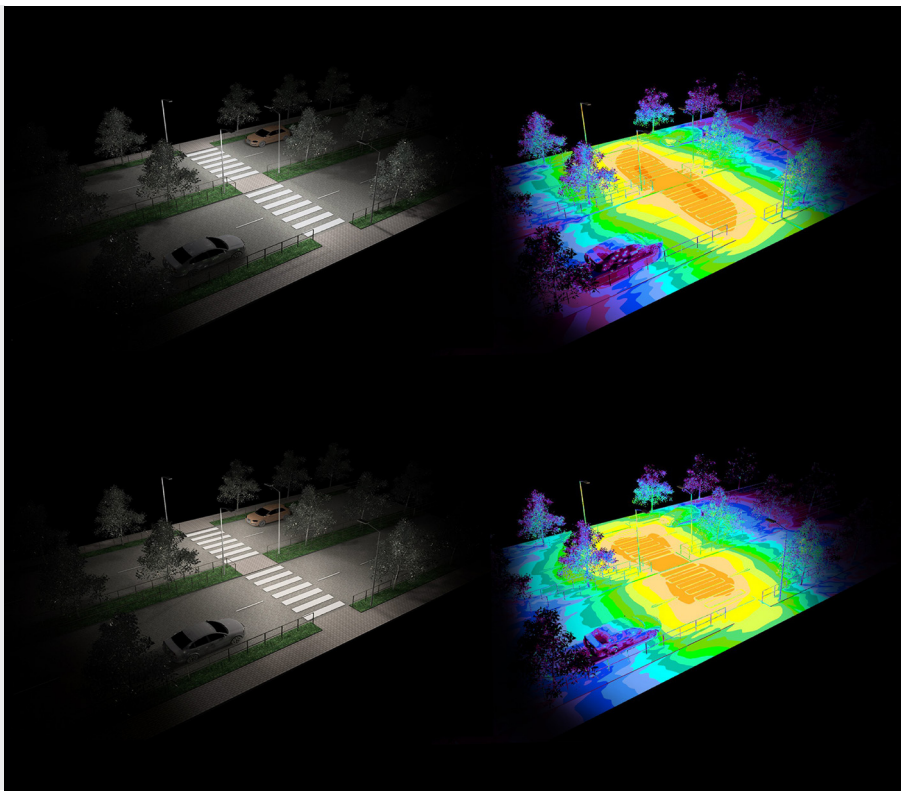


L46



L46
ECO



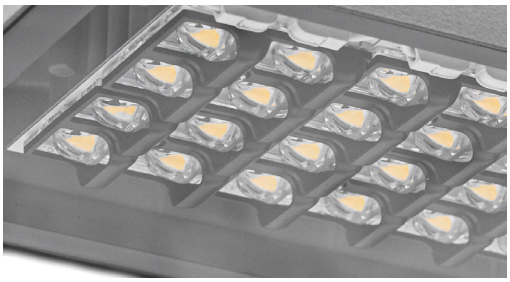


Backlight cutter

Backlight cutter | black

Art. 70000661

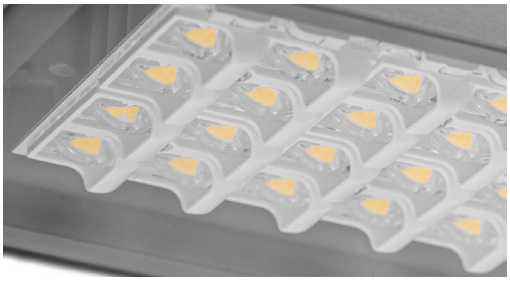




Backlight cutter | white

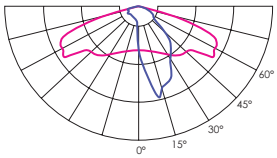
Art. 70000662

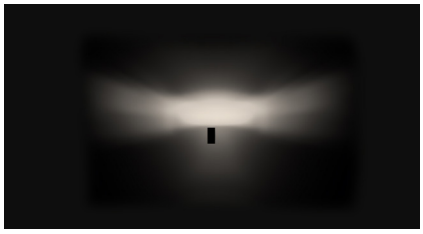


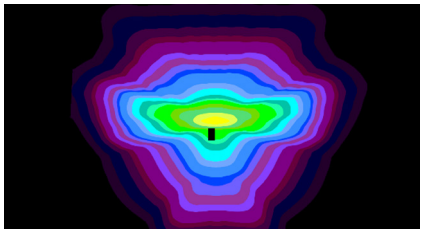


Optical loses from 10% to 31% depending from used optic.

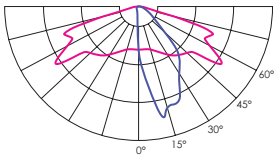
Without backlight cutter

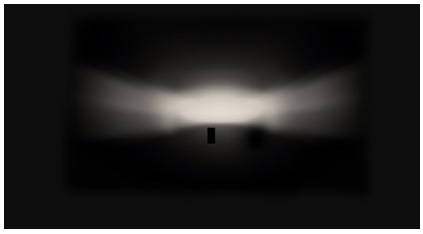


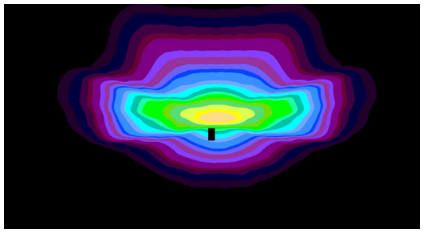




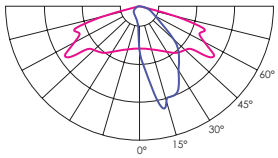
Backlight cutter | black

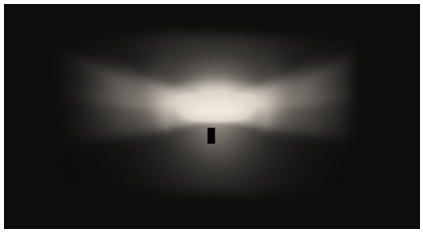


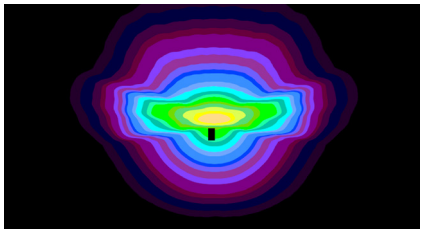




Backlight cutter | white





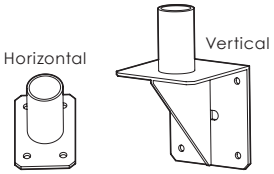


Accessories

Wall mounting bracket

Spigot size ø 40 - 60 mm

Horizontal ..... *Art. 70044001*
Vertical ..... *Art. 70044004*



NEMA Socket

operating temperature up to 105 °C

2213362-3, 5 pin NEMA socket ..... *Art. 70000362*
2213362-4, 7 pin NEMA socket ..... *Art. 70000333*



Dummy Link for NEMA Socket ..... *Art. 70000113*



Zhaga Socket

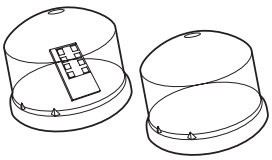
with cap ..... *Art. 70000613*
without cap ..... *Art. 70000612*



Luminaire controller for Zhaga-standard connectors

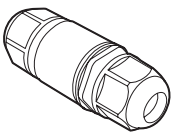
ø 80 mm

MSLC205RG controller with radar ..... *Art. 70010027*
MSLC205RGL controller ..... *Art. 70010029*



IP68 rated wire cable connector

2 wire cable connector ..... *Art. 70000676*
3 wire cable connector ..... *Art. 70000677*
4 wire cable connector ..... *Art. 70000725*
5 wire cable connector ..... *Art. 70000678*



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 – 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.

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.

Byggvarubedömningen – product chemical content and life cycle assessment

Byggvarubedömningen is a non-profit organization owned by large constructors and property owners in Sweden. The organization conducts assessments of various construction products based on chemical content and sustainability criteria. The consituent substances and product life cycle are evaluated and the product is assigned one of three levels:

Recommended (green) | Accepted (yellow) | To be avoided (red)

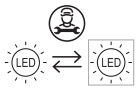
Note: the Recommended level assessment is unavailable for electronic products since it is assumed that all electronic products contain brominated flame retardants.

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.

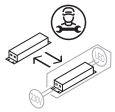
Synergrid approved - compliance with Synergrid requirements for LED lighting **[Coming soon]**

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

References



↘
Noordwijk,
Netherlands



↘
Marks gymnasieskola,
Kinna, Sweden

VIZULO

Bukultu street 11
Riga, LV – 1005, Latvia

Sales: + 371 67 383 023
Production: + 371 67 383 024

sales@vizulo.com
www.vizulo.com

VIZULO

VIZULOSOLUTIONS

