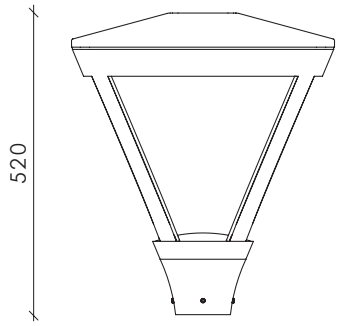
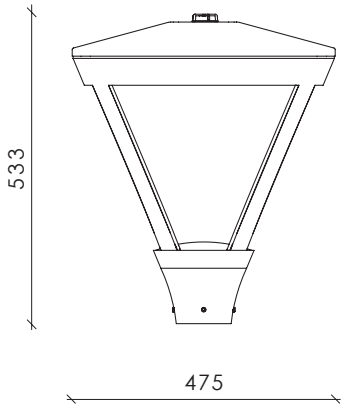

VIZULO
LILLY

Lilly

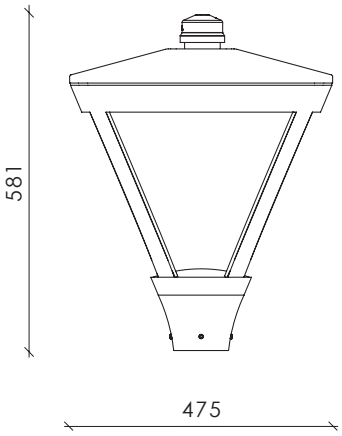
RAL9005

Other colors
available on request

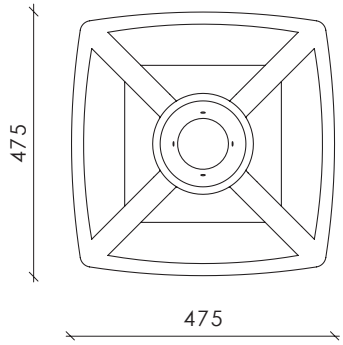




Dimensions with Zhaga



Dimensions with NEMA



Technical information

IP66 IK08 RoHS

V	220 - 240
Hz	50 - 60
W	5 - 100
lm	398 - 12 475 [1]
lm/W	77 - 131
K	2700 / 3000 / 4000 [2]
°C	-40 to +40
CRI	>70 / >80 / >90 [2]

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
Spigot:	60 - 75 mm / 76 - 80 mm
Socket:	NEMA Top / Zhaga Top
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Daylight
Surge protection:	4 / 6 / 10 kV [3]
Nature friendly:	PC Amber / Red / 1800 K
Corrosion protection:	Powder coating and primer
Neto weight:	Up to 10.1 kg
Max. wind load area, SCd:	0.10 m^2

[1] Lumen output indicated at CRI > 70

[2] 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

[3] 10 kV (L-N; L/N-PE) surge protection device available on request

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

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

Standard modules

* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

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

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

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

High density modules

* Data for V01 optic.

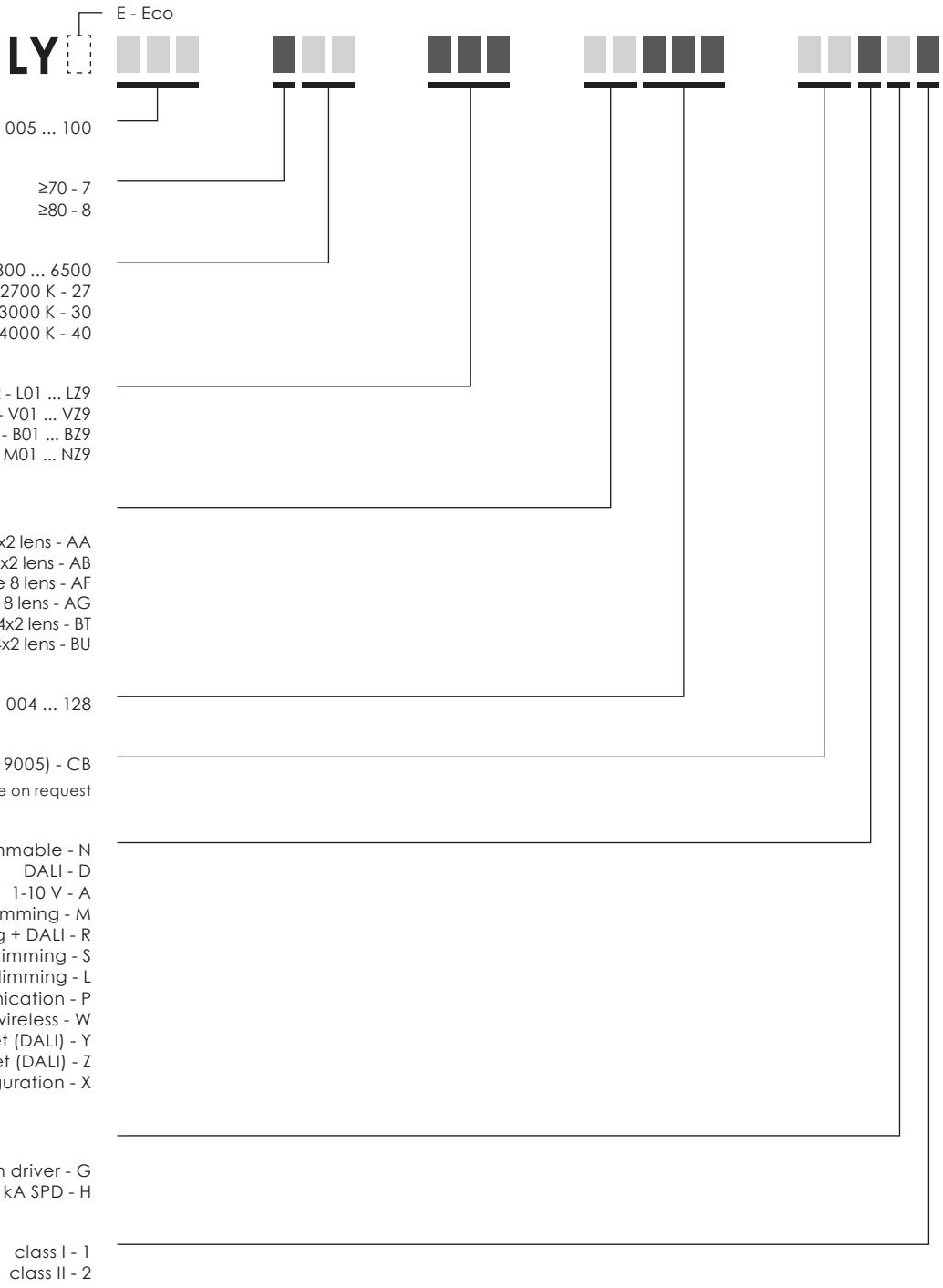
Check VIZULO members section for additional information

4000 K | CRI 70

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

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

Model name principles



Power [W] 005 ... 100

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 8 - V01 ... VZ9
type 4x2 - B01 ... BZ9
custom configuration - M01 ... NZ9

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
16 LEDs, type 4x2 lens - BT
32 LEDs, type 4x2 lens - BU

LED quantity 004 ... 128

Color black (RAL 9005) - CB
other colors available on request

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 protection
6 kV ... 10 kV integrated in driver - G
separate built-in 10 kV/10 kA SPD - H

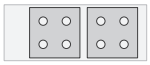
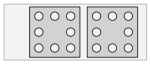
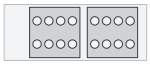
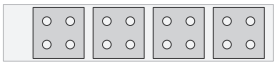
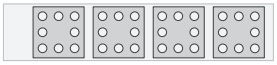
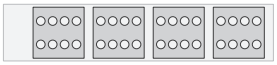
Insulation
class I - 1
class II - 2

EXAMPLE LY 014 830 L01 AA016 CHNG1

*** CUSTOM CONFIGURATION EXAMPLE**

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

LED modules

Type	Max module 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 L01…LZ9	
AF	4	4	16	64	2	Standard	type 8 V01…VZ9	
BT	4	4	16	64	8	Standard Eco	type 4x2 B01…BZ9	
AB	4	8	16	64	2	Standard Eco	type 2x2 L01…LZ9	
AG	4	16	32	128	2	Standard	type 8 V01…VZ9	
BU	4	16	32	128	8	Standard Eco	type 4x2 B01…BZ9	

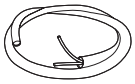
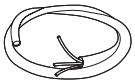
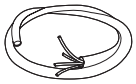
Cable core count

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 [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*

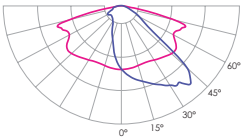
* Custom cable lengths available on request


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. 70100409*
1	*Art. 70100156*	*Art. 70100193*	*Art. 70000527*	*Art. 70100220*
1.5	*Art. 70100391*	*Art. 70100258*	*Art. 70100403*	*Art. 70100410*
2	*Art. 70100202*	*Art. 70100177*	*Art. 70000515*	*Art. 70100262*
2.5	*Art. 70100392*	*Art. 70100213*	*Art. 70100404*	*Art. 70100411*
3	*Art. 70100166*	*Art. 70100178*	*Art. 70000529*	*Art. 70100217*
4	*Art. 70100172*	*Art. 70100144*	*Art. 70000530*	*Art. 70100189*
5	*Art. 70100173*	*Art. 70100146*	*Art. 70000531*	*Art. 70100185*
6	*Art. 70100099*	*Art. 70000512*	*Art. 70000532*	*Art. 70000370*
7	*Art. 70100174*	*Art. 70100182*	*Art. 70000533*	*Art. 70100201*
8	*Art. 70100152*	*Art. 70000630*	*Art. 70000534*	*Art. 70100212*
9	*Art. 70100176*	*Art. 70000381*	*Art. 70000535*	*Art. 70100192*
10	*Art. 70100153*	*Art. 70000631*	*Art. 70000536*	*Art. 70000387*
11	*Art. 70100191*	*Art. 70100143*	*Art. 70000537*	*Art. 70000388*
12	*Art. 70100167*	*Art. 70100147*	*Art. 70000538*	*Art. 70100200*
13	*Art. 70100186*	*Art. 70100187*	*Art. 70000539*	*Art. 70100412*
14	*Art. 70100204*	*Art. 70100164*	*Art. 70000540*	*Art. 70100165*
15	*Art. 70100380*	*Art. 70100030*	*Art. 70000541*	*Art. 70100183*
20	*Art. 70100393*	*Art. 70100397*	*Art. 70100405*	*Art. 70100413*
25	*Art. 70100276*	*Art. 70100398*	*Art. 70100406*	*Art. 70100414*

Optics

L01



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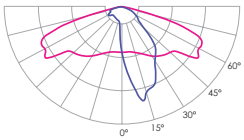

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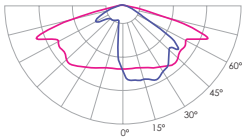

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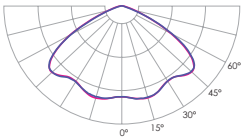

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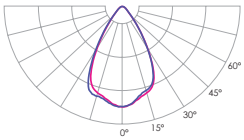

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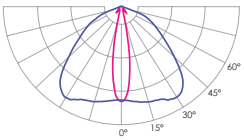

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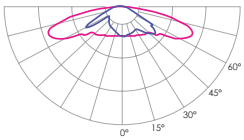

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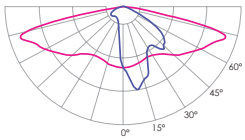

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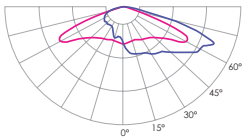

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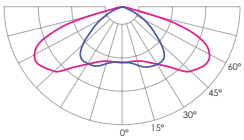

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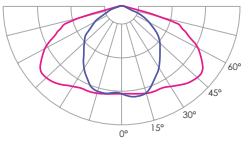

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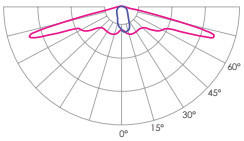

Pedestrian crossing optics

IP66 IK08 CE UKCA EAC RoHS

V	220 - 240
Hz	50 - 60
W	5 - 100
lm	Up to 12 475 [1]
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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
Spigot:	60 - 75 mm / 76 - 80 mm
Socket:	NEMA Top / Zhaga Top
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Daylight
Surge protection:	4 / 6 / 10 kV [3]
Nature friendly:	PC Amber / Red / 1800 K
Corrosion protection:	Powder coating and primer
Neto weight:	Up to 10.1 kg
Max. wind load area, SCd:	0.10 m^2

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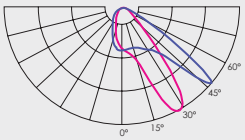
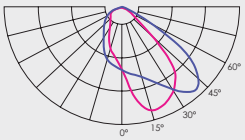
Right side traffic

L11



L11
ECO



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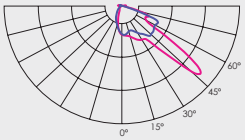

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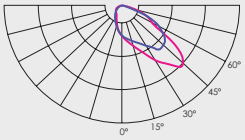
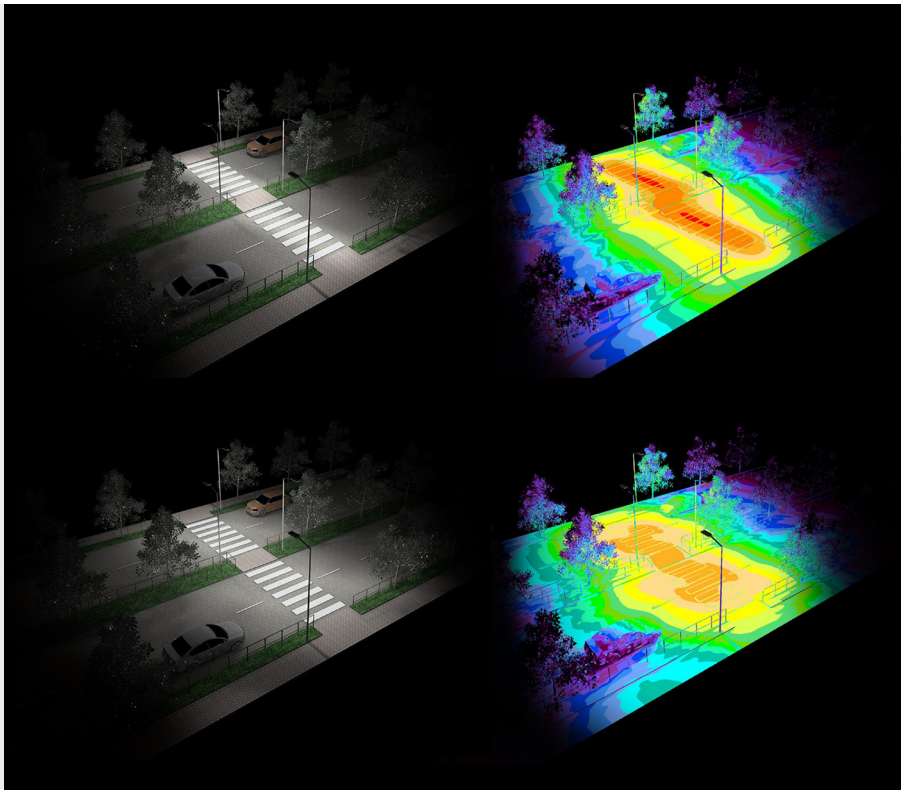
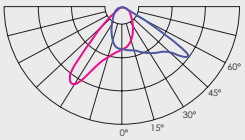




Left side traffic

L12



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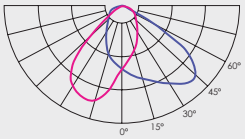

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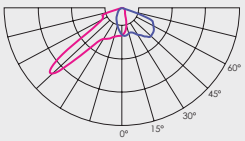
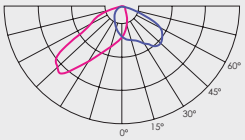
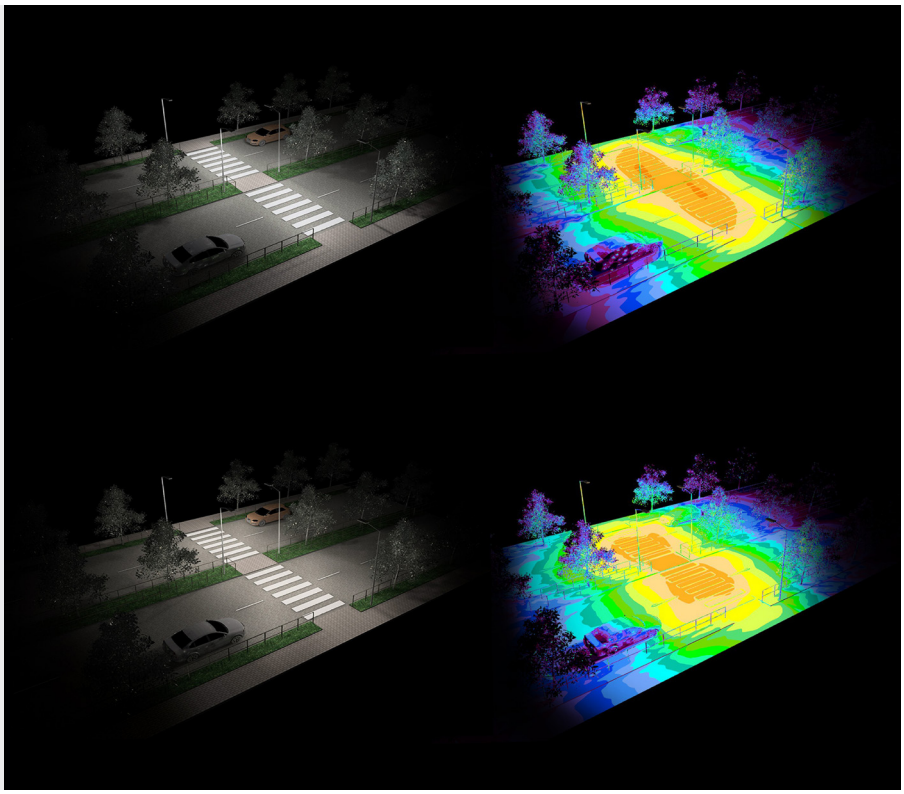


L46
ECO

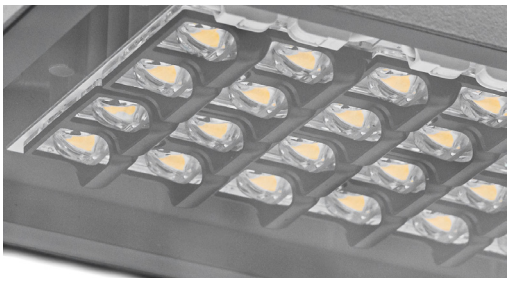




Backlight cutter

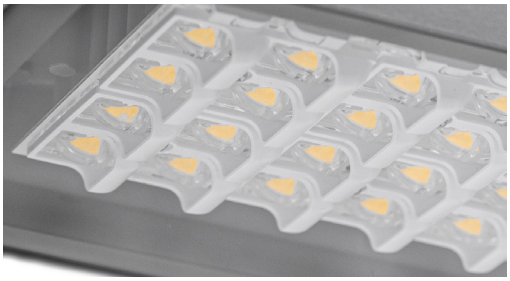
Backlight cutter | black

Art. 70000661



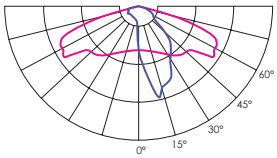
Backlight cutter | white

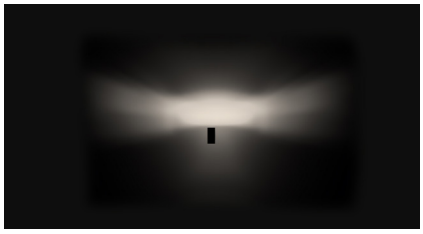
Art. 70000662

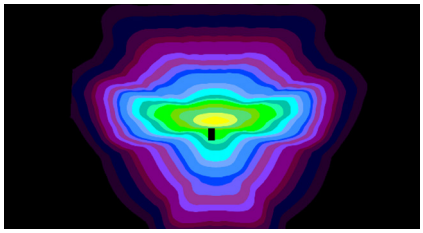


Optical loses from 10% to 31% depending from used optic.

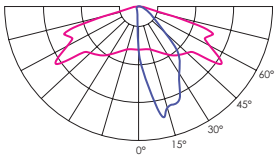
Without backlight cutter

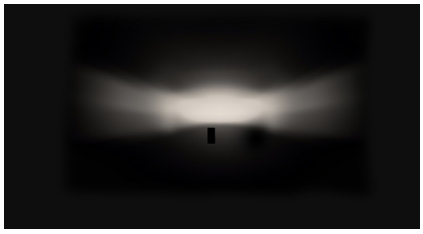


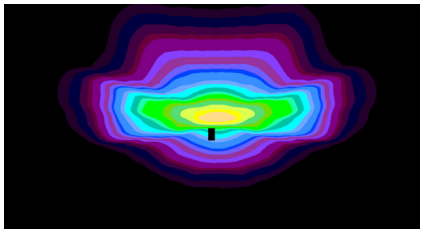




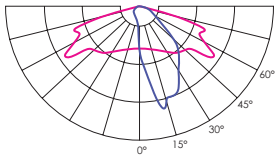
Backlight cutter | black

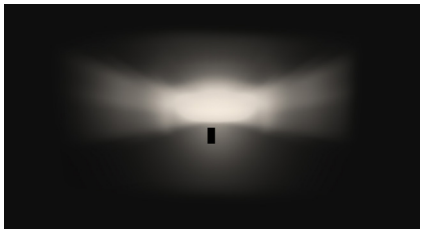


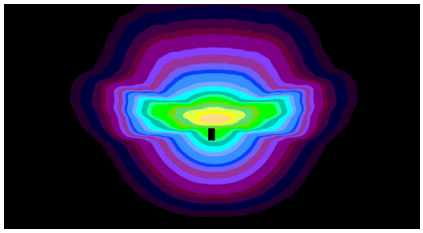




Backlight cutter | white







Accessories

NEMA Socket

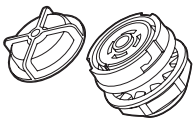
operating temperature up to 105 °C

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

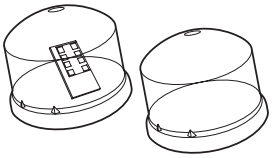
with cap ..... *Art. 70000613*
without cap ..... *Art. 70000612*



Luminaire controller for Zhaga-standard connectors

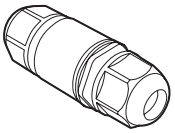
ø 80 mm

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

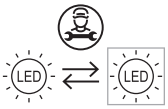
UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant 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.

EAC - compliance with the regulations of the Eurasian Customs Union

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

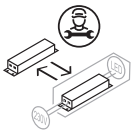
RoHS – compliance with European Union's RoHS directive

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



LED module replaceable by a professional

This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement 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

↘
Kaunas,
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↘
Akureyri,
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