

vizULO



MINI  
MARTIN  
Tool-less





**Architectural & Landscape**

**Outdoor Industrial Area**

**Residential 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**

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

**LED module**

High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time.  
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 3 kV till 10 kV

**Light regulation**

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

**Impact resistance**

Up to IK10 (Vandal protected) for the complete luminaire





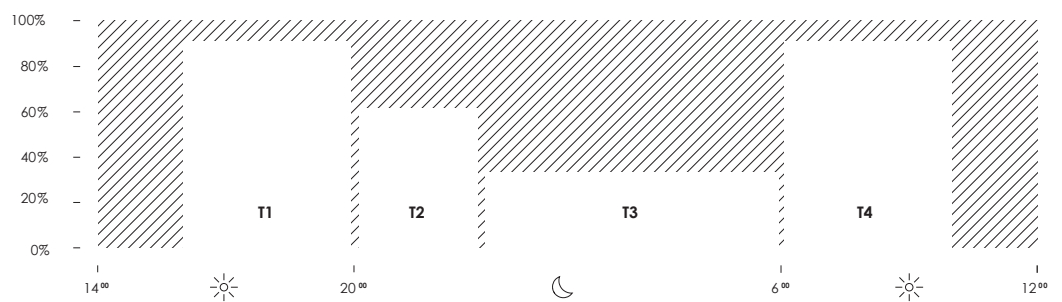
**Traffic Roads**

**Pedestrian Roads**

**City Centre**

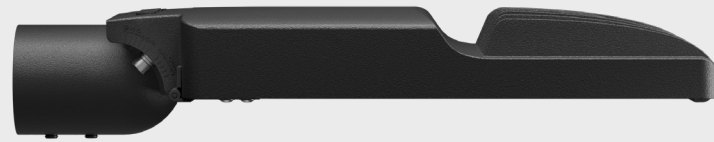
## Midnight dimming

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.



# Mini martin tool-less

with 60 mm console



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



RAL7035



RAL9006



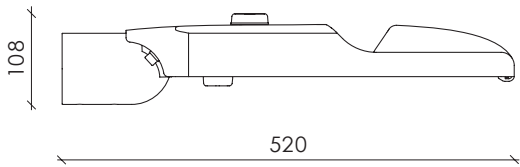
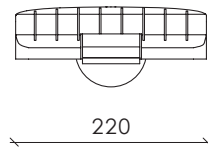
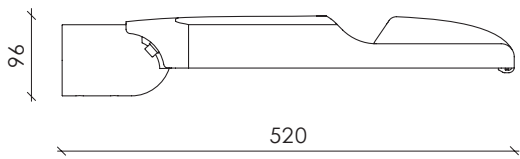
DB703



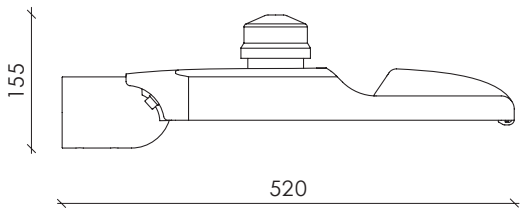
RAL9005

Other colors  
available on request

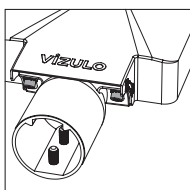
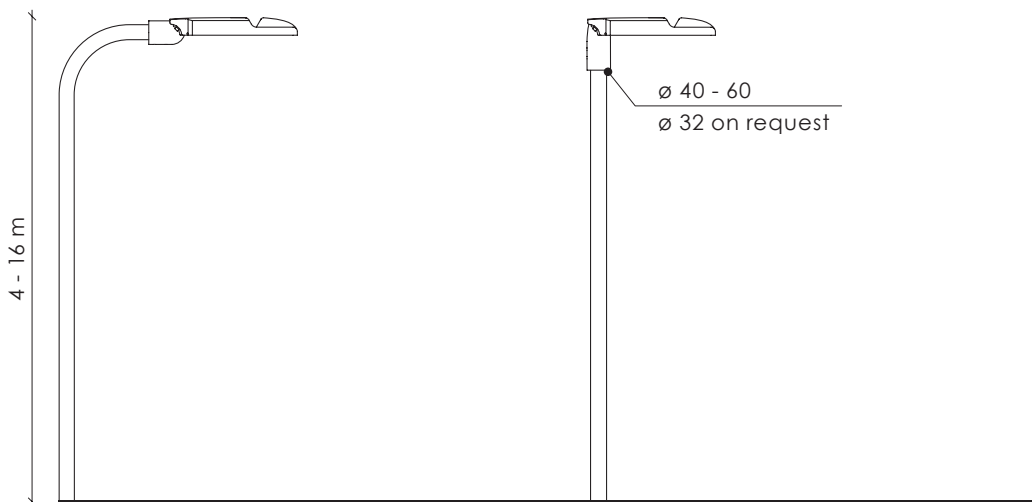




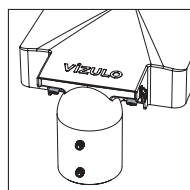
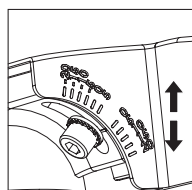
Dimensions with 2 Zhaga connectors



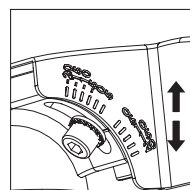
Dimensions with NEMA socket



Horizontal entry  $\leq -20^\circ \dots 5^\circ$



Vertical entry  $\leq 0^\circ \dots 20^\circ$





# Mini martin tool-less

with 60 mm adjustable console



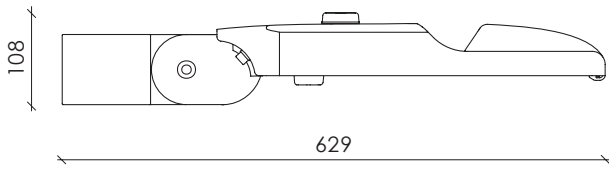
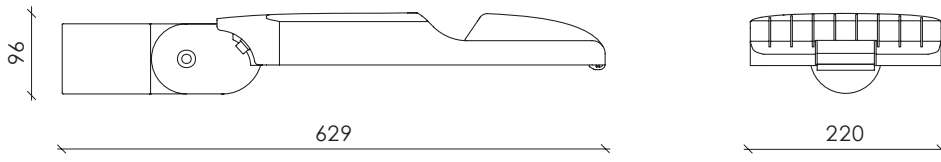
**Note!** Glass with gray print is standard  
(black print glass on request!)



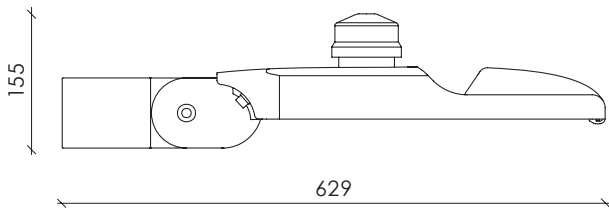
RAL7035 RAL9006 DB703 RAL9005

Other colors  
available on request

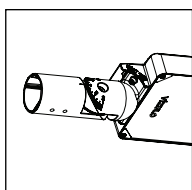
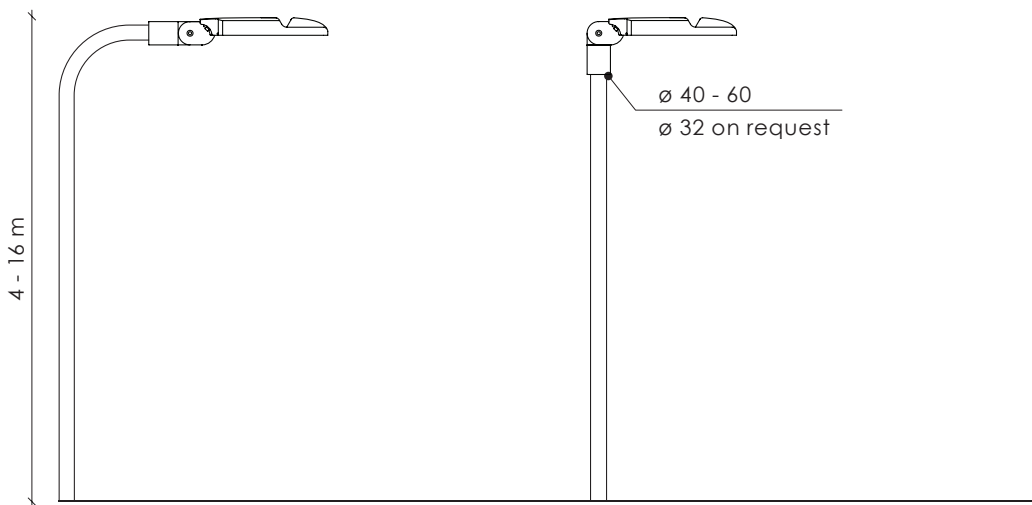




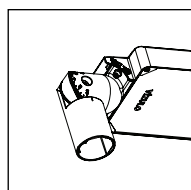
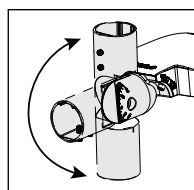
Dimensions with 2 Zhaga connectors



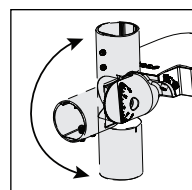
Dimensions with NEMA socket



Horizontal entry  $\pm 90^\circ$



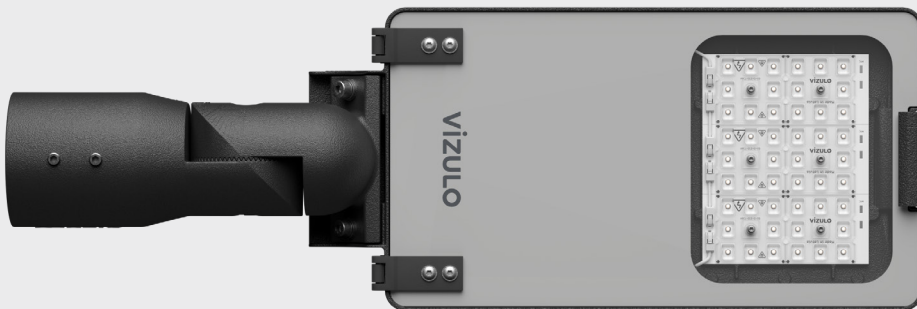
Vertical entry  $\pm 90^\circ$





# Mini martin tool-less

with 76 mm adjustable console



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



RAL7035



RAL9006



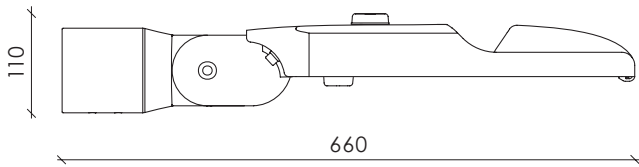
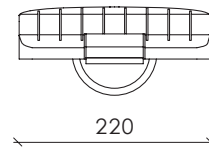
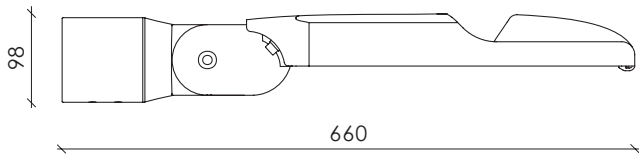
DB703



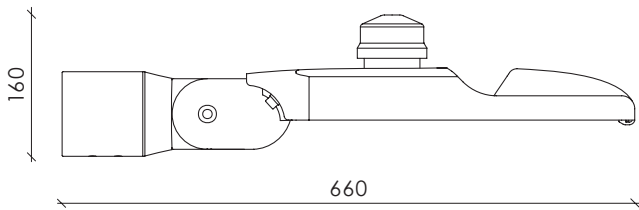
RAL9005

Other colors  
available on request

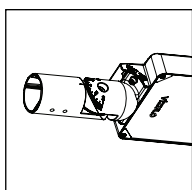
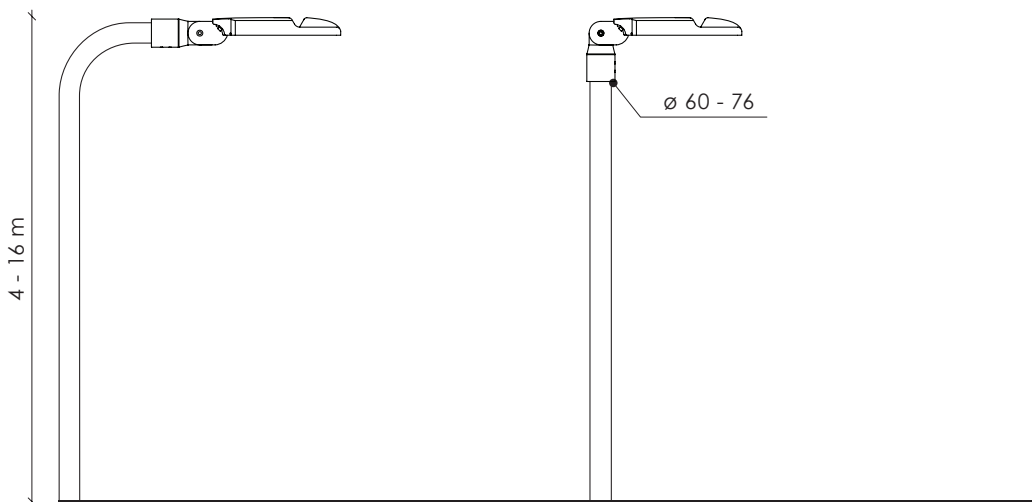




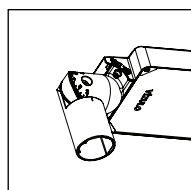
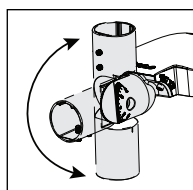
Dimensions with 2 Zhaga connectors



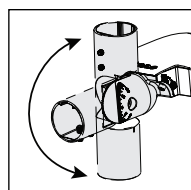
Dimensions with NEMA socket



Horizontal entry ± 90°



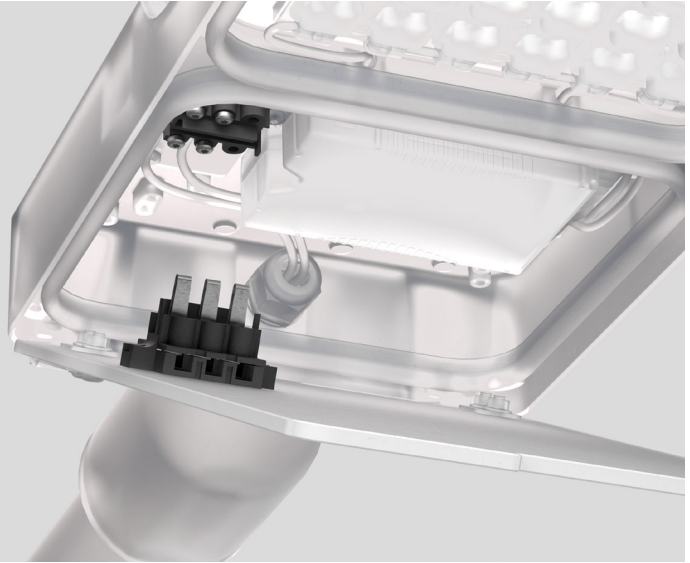
Vertical entry ± 90°



# Features

## ▾ SAFETY SWITCH

Safety first!  
Quick and safe maintenance of the opened luminaire by automatic disconnecting the mains supply



## ▾ ZHAGA TOP AND BOTTOM

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





## Technical information



<b>V</b>	198 - 264 / 110 - 277 <sup>(1)</sup>
<b>Hz</b>	50 - 60
<b>W</b>	5 - 145
<b>lm</b>	446 - 19 755 <sup>(2)</sup>
<b>lm/W</b>	90 - 187 <sup>(3)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(4)</sup>
<b>°C</b>	-40 up to +50 <sup>(5)</sup>
<b>CRI</b>	>70 / >80 / >90 <sup>(4)</sup>

<b>Body:</b>	Die-cast aluminium
<b>Dimming:</b>	DALI / 1-10 V / Midnight dimming / Step dimming / Mains dimming
<b>Initial chromaticity:</b>	MacAdam 5
<b>Lifetime:</b>	Eco 100 000 h (L90B10) at Ta = 25 °C* Standard 100 000 h (L98B10) at Ta = 25 °C* High density 100 000 h (L98B10) at Ta = 25 °C*
<b>Warranty:</b>	5 years
<b>Installation:</b>	Tool-less / Pre-wired cable 30 cm <sup>(6)</sup>
<b>Spigot:</b>	32 - 40 mm <sup>(7)</sup> / 40 - 60 mm / 60 - 76 mm
<b>Socket:</b>	NEMA Top / Zhaga Top and Bottom
<b>Intelligent Control:</b>	Stand-alone / Group / CMS
<b>Sensor:</b>	Motion / Motion + Daylight / Daylight
<b>Surge protection:</b>	4 / 6 / 10 kV <sup>(8)</sup>
<b>Corrosion protection:</b>	Up to C5
<b>Neto weight:</b>	Up to 6.5 kg
<b>Max. wind load area, SCd:</b>	0.039 m <sup>2</sup>

<sup>1)</sup> Maximum operating voltage, ENEC certificate voltage 198 - 264 V, UL certificate voltage 110 - 277 V

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

<sup>3)</sup> This value depends on configuration and can reach even higher number when max efficient components are combined

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

<sup>5)</sup> Operating temperature differs depending on chosen output wattage

<sup>6)</sup> Other lengths available on request

<sup>7)</sup> Achievable with pole adapter from luminaire with ø 60 mm console to pole with ø 32 - 40 mm (on request)

<sup>8)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>9)</sup> Depending on the configuration. Please contact VIZULO export representatives for additional information

\* 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	4			8			12		
Nominal current, mA	270	500	730	140	540	700	280	500	670
Power, W	5	8	11	5	15	19	12	20	26
Luminous Flux, lm	520	920	1300	560	2000	2500	1650	2800	3550
Efficacy, lm/W	104	115	118	112	133	132	138	140	137
Power factor, PF	Up to 0.93			Up to 0.94			Up to 0.97		

Number of LED's	16			24		
Nominal current, mA	280	500	680	260	470	700
Power, W	15	25	35	20	35	52
Luminous Flux, lm	2150	3630	5000	3060	5300	7300
Efficacy, lm/W	143	145	143	153	151	140
Power factor, PF	Up to 0.97			Up to 0.97		

Luminaire efficacy	2700 K	5 - 52 W	446 - 6300 lm	90 - 130 lm/W
	3000 K	5 - 52 W	490 - 6900 lm	98 - 142 lm/W
	5000 K	5 - 52 W	520 - 7300 lm	104 - 153 lm/W
	5700 K	5 - 52 W	520 - 7300 lm	104 - 153 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			48			
Nominal current, mA	280	480	760	290	500	760	270	815	940	975
Power, W	15	25	39	29	50	75	40	120	140	145
Luminous Flux, lm	2150	3540	5300	4600	7600	10600	6400	16425	18620	19110
Efficacy, lm/W	143	142	136	159	152	141	160	137	133	132
Power factor, PF	Up to 0.98			Up to 0.97			Up to 0.99			

Luminaire efficacy	2700 K	15 - 145 W	1850 - 16380 lm	113 - 137 lm/W
	3000 K	15 - 145 W	2000 - 18015 lm	125 - 150 lm/W
	5000 K	15 - 145 W	2150 - 19110 lm	132 - 160 lm/W
	5700 K	15 - 145 W	2150 - 19110 lm	132 - 160 lm/W



## Eco modules

\* Data for L01 optic.

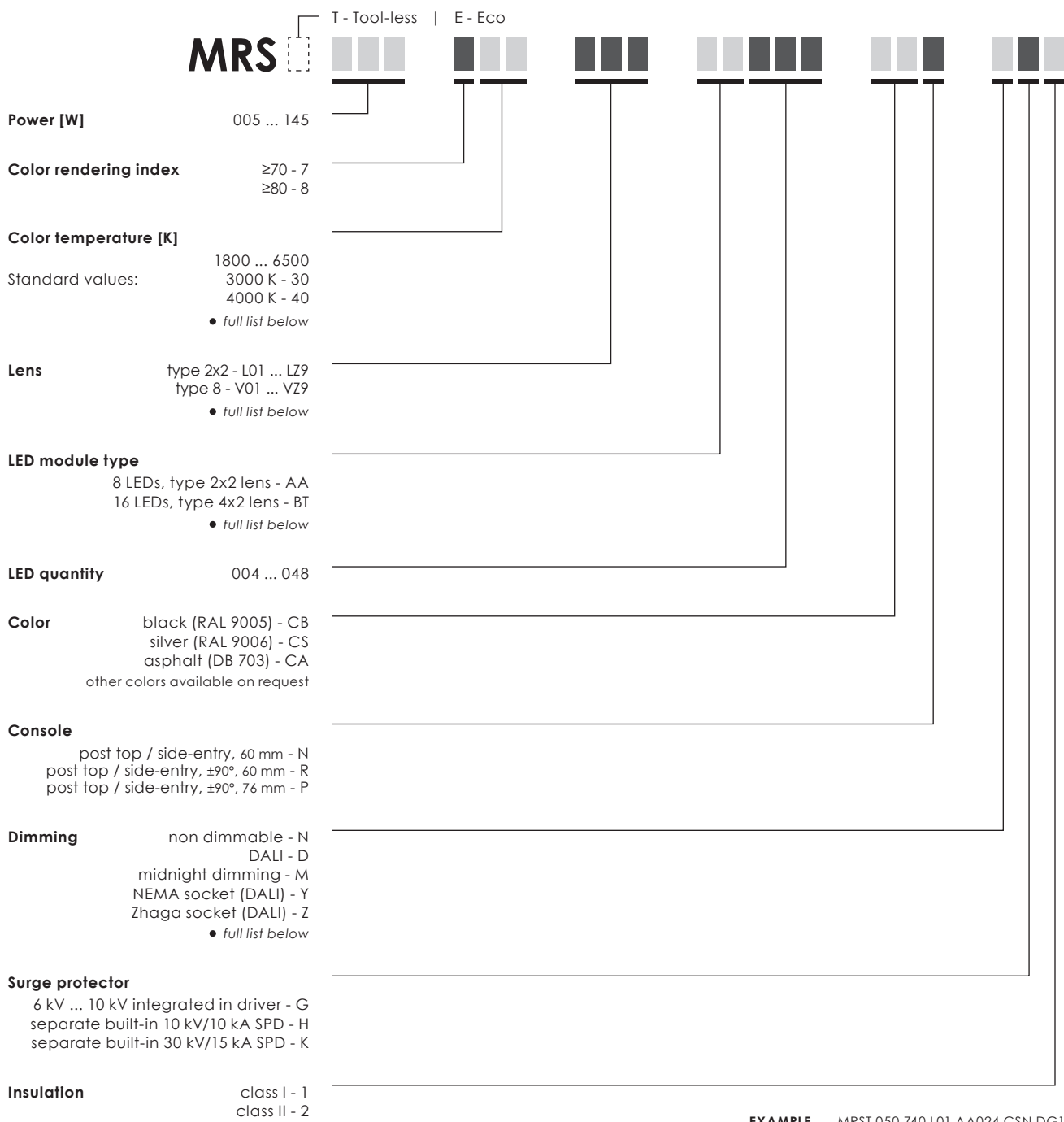
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			16			24			
<b>Nominal current, mA</b>	290	475	700	270	480	710	265	750	865	895
<b>Power, W</b>	15	25	38	28	50	75	40	120	140	145
<b>Luminous Flux, lm</b>	2260	3600	5070	4250	7200	10000	6250	15780	17750	18230
<b>Efficacy, lm/W</b>	151	144	133	152	144	133	156	132	127	126
<b>Power factor, PF</b>	Up to 0.98			Up to 0.98			Up to 0.99			

Luminaire efficacy	2700 K	15 - 145 W	2100 - 16965 lm	117 - 144 lm/W
	3000 K	15 - 145 W	2170 - 17445 lm	120 - 154 lm/W
	5000 K	15 - 145 W	2240 - 18050 lm	124 - 155 lm/W
	5700 K	15 - 145 W	2210 - 17800 lm	123 - 155 lm/W

## Model name principles



### ● Full list of options

#### Color temperature [K]

1800 ... 6500  
2700 K - 27  
3000 K - 30  
4000 K - 40  
Nature Friendly Red - NR  
Nature Friendly Amber - NA  
Nature Friendly 1800 K - NK

#### Lens

type 8 - V01 ... VZ9  
type 2x2 - L01 ... LZ9  
type 2x3 - J01 ... JZ9  
type 4x2 - B01 ... BZ9  
type 6x1 - T01 ... TZ9  
type 12 - Y01 ... YZ9  
type 1 - Z01 ... ZZ9  
custom configuration - M01 ... NZ9

#### 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

4 LEDs, type 2x2 lens - BG  
8 LEDs, type 2x2 lens - AA  
12 LEDs, type 2x3 lens - BY  
16 LEDs, type 4x2 lens - BT  
8 LEDs, type 8 lens - BH  
16 LEDs, type 8 lens - AF

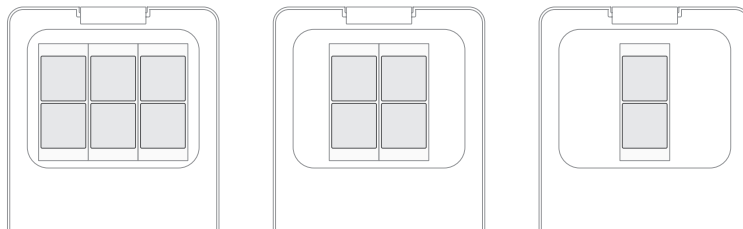
### \* CUSTOM CONFIGURATION EXAMPLE

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



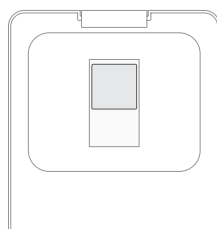
# LED modules

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	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	



<b>AA</b>	max 24 LEDs up to 13 540 lm	max 16 LEDs up to 9 230 lm	max 8 LEDs up to 4 690 lm
<b>BY</b>	max 36 LEDs up to 18 830 lm	max 24 LEDs up to 13 735 lm	max 12 LEDs up to 7 040 lm
<b>AF</b>	max 48 LEDs up to 14 535 lm	max 32 LEDs up to 9 775 lm	max 16 LEDs up to 4 930 lm
<b>BT</b>	max 48 LEDs up to 19 755 lm	max 32 LEDs up to 16 020 lm	max 16 LEDs up to 13 525 lm

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	1	4	4	4	2	Standard Eco	type 2x2 L01...LZ9	
BH	1	4	8	8	2	Standard	type 8 V01...VZ9	



**BG** max 4 LEDs  
up to 2 310 lm

**BH** max 8 LEDs  
up to 2 410 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	Midnight dimming	M	3	2
None	Midnight dimming + DALI	R	5	4
None	Step dimming	S	5 <sup>(1)</sup>	4 <sup>(1)</sup>
None	Mains dimming	L	3	2
Zhaga	DALI	Z	3 <sup>(2)</sup>	2 <sup>(2)</sup>
Zhaga	Midnight dimming	X	3	2
Zhaga	Mains dimming	X	3	2
NEMA	DALI	Y	3 / 5 <sup>(3)</sup>	2 / 4 <sup>(3)</sup>
NEMA	Midnight dimming	X	3	2
NEMA	Step dimming	X	5 <sup>(1)</sup>	4 <sup>(1)</sup>
NEMA	Mains dimming	X	3	2

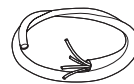
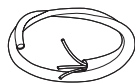
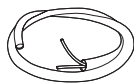
<sup>1)</sup> 1 core unused

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

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

## Cable order information\*

\* Custom cable lengths available on request

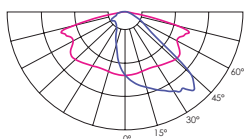


Cable length [m]	2 x 1.5 mm <sup>2</sup>	3 x 1.5 mm <sup>2</sup>	4 x 1.5 mm <sup>2</sup>	5 x 1.5 mm <sup>2</sup>
0.5	Art. 70100184	Art. 70100179	Art. 70100402	Art. 70100409
1	Art. 70100156	Art. 70100193	Art. 70000527	Art. 70100220
1.5	Art. 70100391	Art. 70100258	Art. 70100403	Art. 70100410
2	Art. 70100202	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

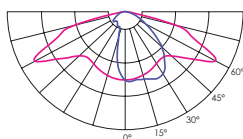
# Optics

## Standard modules

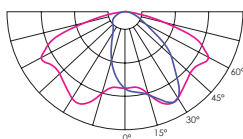
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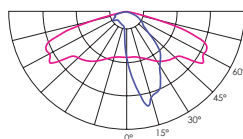
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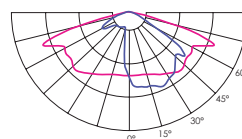
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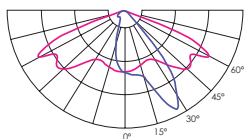
L04



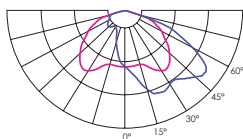
L05



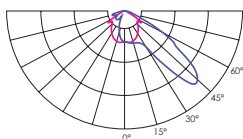
L06



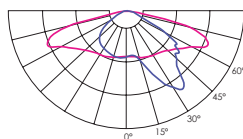
L07



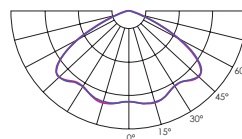
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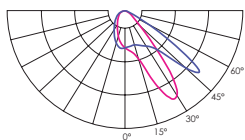
L09



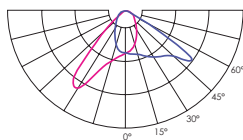
L10



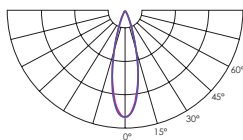
L11



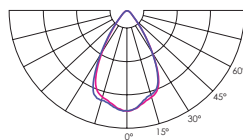
L12



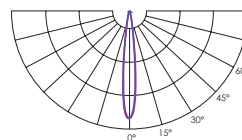
L13



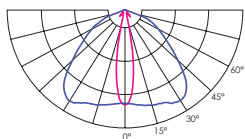
L14



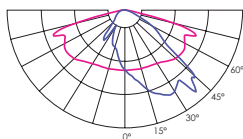
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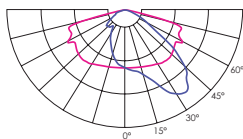
L16



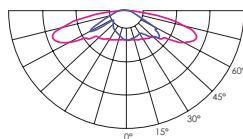
L17



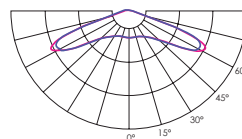
L18



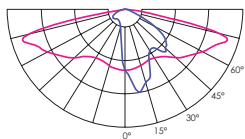
L19



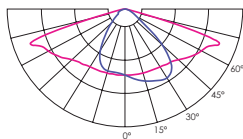
L20



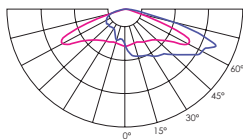
L22



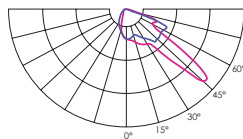
L23



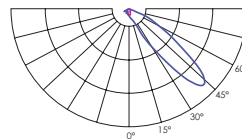
L35



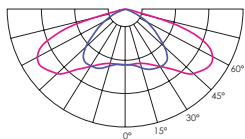
L36



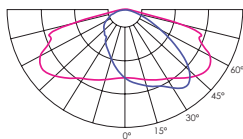
L37



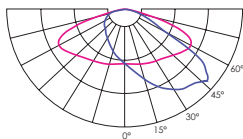
L38



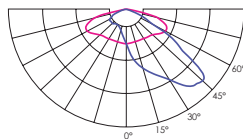
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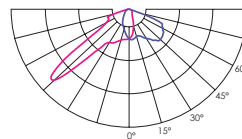
L41



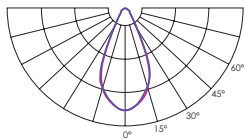
L42



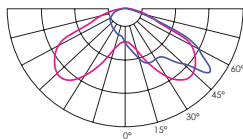
L46



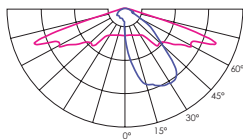
L53



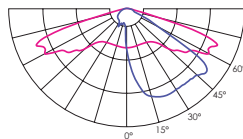
L55



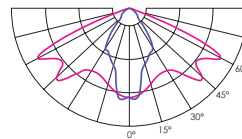
L56



L58

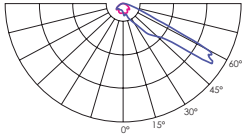


L59

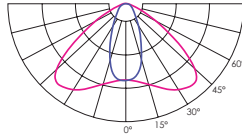




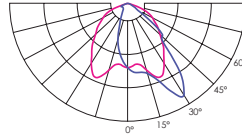
L60



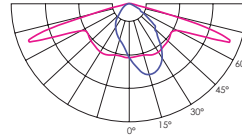
L61



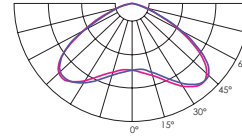
L62



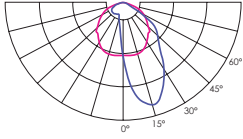
L63



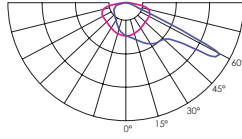
L64



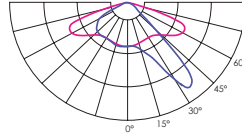
L65



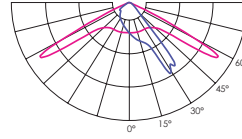
L66



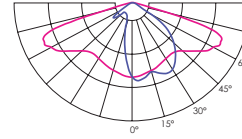
L67



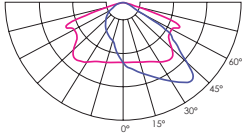
L68



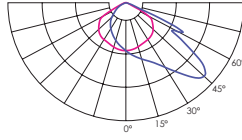
L76



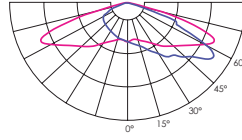
L77



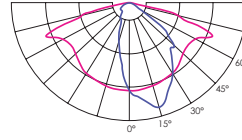
L78



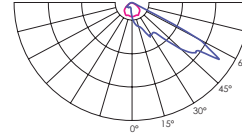
L79



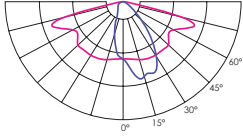
L80



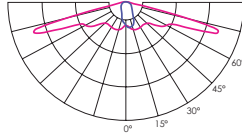
L88



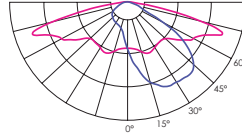
L90



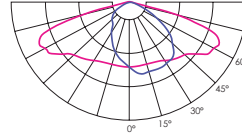
L94



LB2

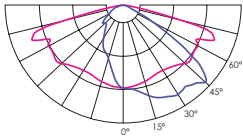


LB3

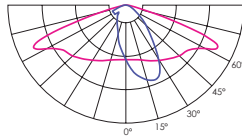


### High density modules

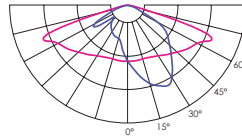
V01



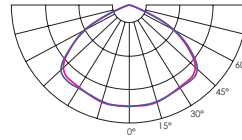
V04



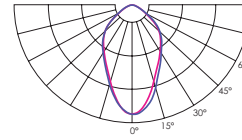
V05



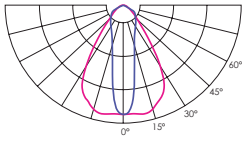
V10



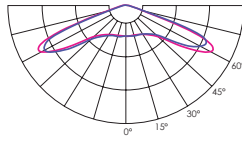
V13



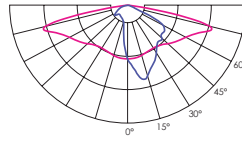
V16



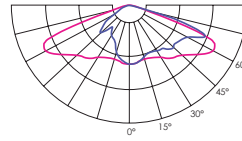
V20



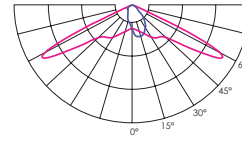
V22



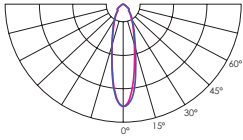
V35



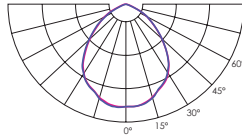
V45



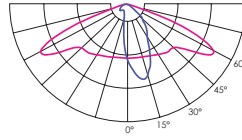
V52



V53



V57





# Pedestrian crossing optics



<b>V</b>	198 - 264 / 110 - 277 <sup>(1)</sup>
<b>Hz</b>	50 - 60
<b>W</b>	5 - 52 <sup>(2)</sup> 15 - 145 <sup>(3)</sup>
<b>lm</b>	Up to 7 300 <sup>(2)</sup> Up to 19 755 <sup>(3)</sup>
<b>lm/W</b>	Up to 187 <sup>(4)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(5)</sup>
<b>°C</b>	-40 up to +50 <sup>(6)</sup>
<b>CRI</b>	>70 / >80 / >90 <sup>(5)</sup>

<b>Body:</b>	Die-cast aluminium
<b>Dimming:</b>	DALI / 1-10 V / Midnight dimming / Step dimming / Mains dimming
<b>Initial chromaticity:</b>	MacAdam 5
<b>Lifetime:</b>	Eco 100 000 h (L90B10) at Ta = 25 °C* Standard 100 000 h (L98B10) at Ta = 25 °C*
<b>Warranty:</b>	5 years
<b>Installation:</b>	Tool-less / Pre-wired cable 30 cm <sup>(7)</sup>
<b>Spigot:</b>	32 - 40 mm <sup>(8)</sup> / 40 - 60 mm / 60 - 76 mm
<b>Socket:</b>	NEMA Top / Zhaga Top and Bottom
<b>Intelligent Control:</b>	Stand-alone / Group / CMS
<b>Sensor:</b>	Motion / Motion + Daylight / Daylight
<b>Surge protection:</b>	4 / 6 / 10 kV <sup>(9)</sup>
<b>Corrosion protection:</b>	Up to C5
<b>Neto weight:</b>	Up to 6.5 kg
<b>Max. wind load area,</b>	
<b>SCd:</b>	0.039 m <sup>2</sup>

<sup>1)</sup> Maximum operating voltage, ENEC certificate voltage 198 - 264 V, UL certificate voltage 110 - 277 V

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

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

<sup>4)</sup> This value depends on configuration and can reach even higher number when max efficient components are combined

<sup>5)</sup> 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

<sup>6)</sup> Operating temperature differs depending on chosen output wattage

<sup>7)</sup> Other lengths available on request

<sup>8)</sup> Achievable with pole adapter from luminaire with ø 60 mm console to pole with ø 32 - 40 mm (on request)

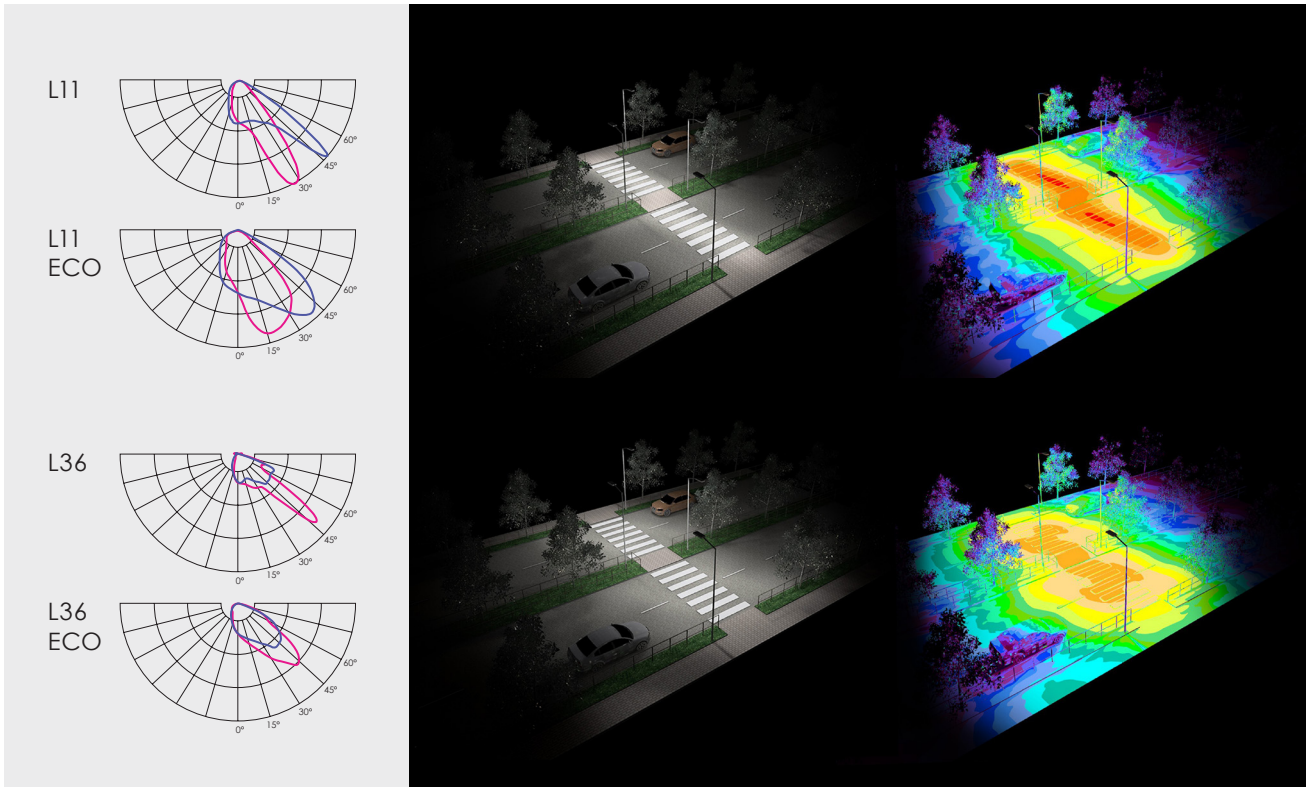
<sup>9)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>10)</sup> Depending on the configuration. Please contact VIZULO export representatives for additional information

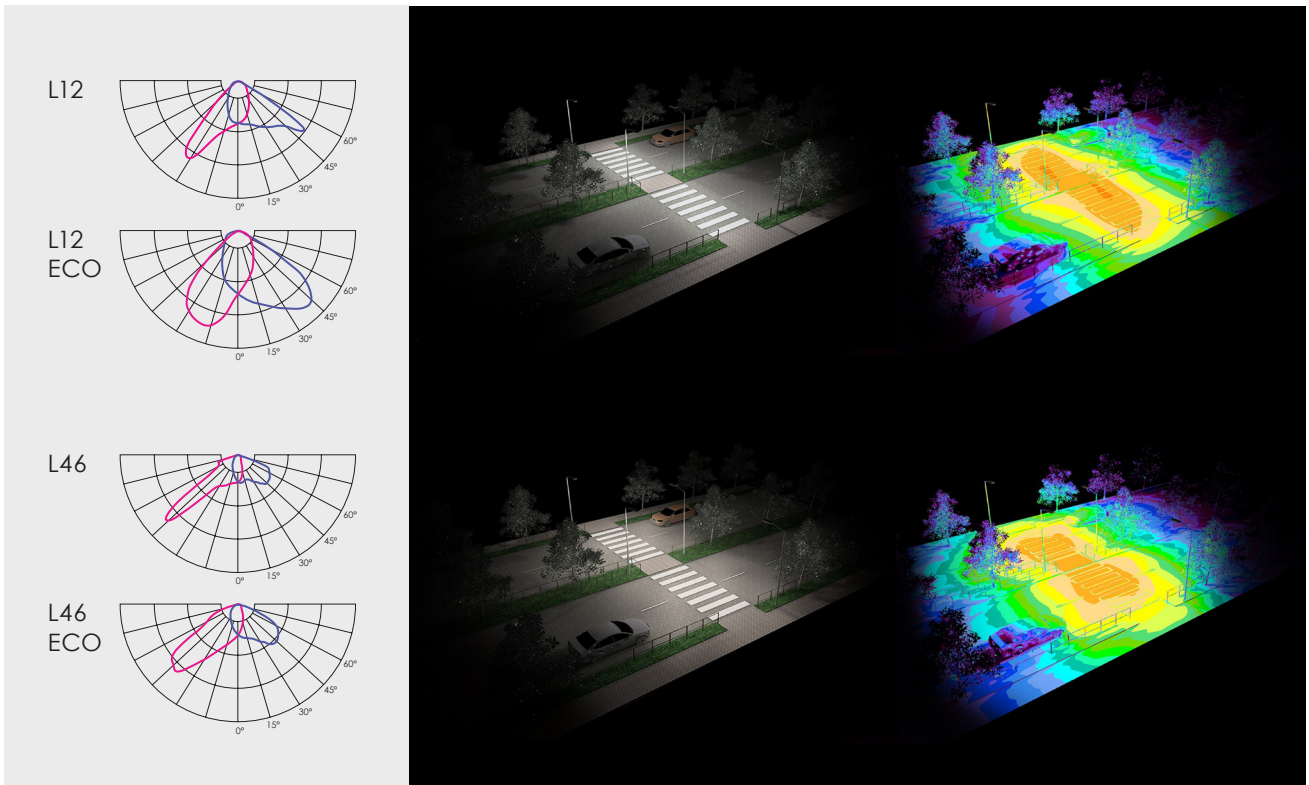
\* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models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

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

## Right side traffic



## Left side traffic

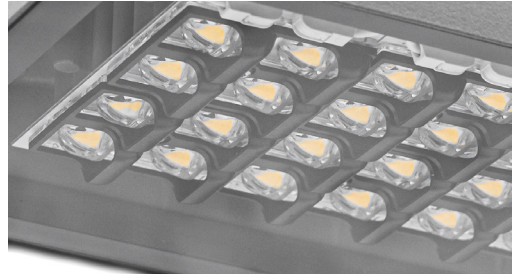




# Backlight cutter

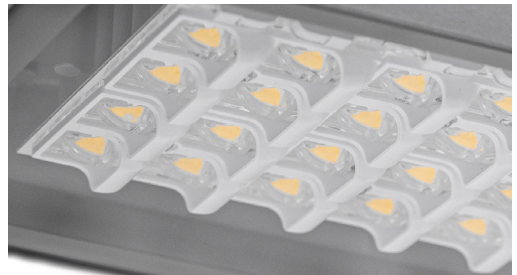
## Backlight cutter | black

Art. 70000661



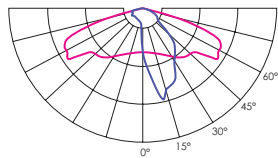
## Backlight cutter | white

Art. 70000662

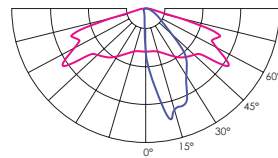


Optical losses from 10% to 31% depending from used optic.

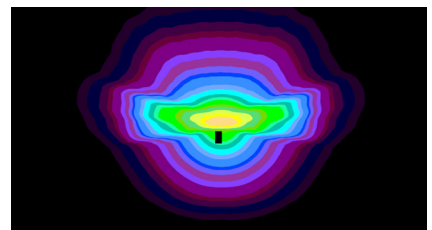
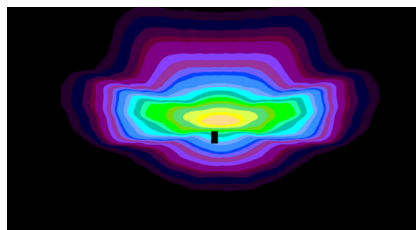
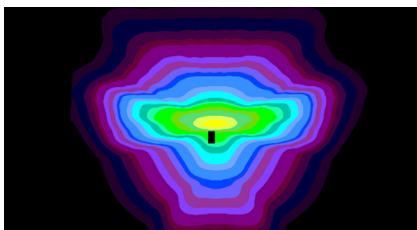
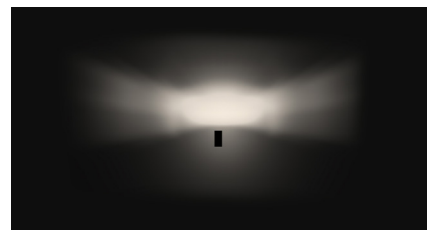
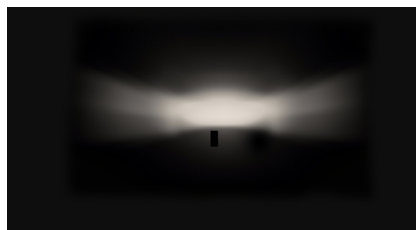
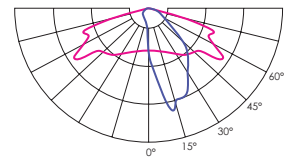
Without backlight cutter



Backlight cutter | black



Backlight cutter | white





# Visors



▷ BACK VISOR

**MRS back visor | silver (RAL9006)**

Art. 70055120



▷ BACK + SIDE VISORS

**MRS side visor | silver (RAL9006)**

Art. 70055121 \*

\* The article includes a **single** side visor, which can be mounted on either the left or right side



▷ VISOR SET

**MRS front visor | silver (RAL9006)**

Art. 70055122

**MRS visor set | silver (RAL9006)**

Art. 70055131

# Accessories

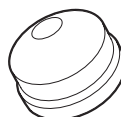
## NEMA Socket

operating temperature up to 105 °C

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

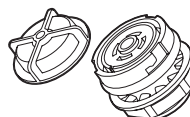


- Dummy Link for NEMA Socket** ..... Art. 70000113



## Zhaga Socket

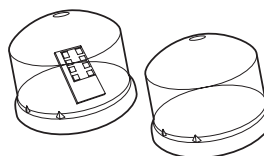
- with cap ..... Art. 70000613
- without cap ..... Art. 70000612



## Luminaire controller for Zhaga-standard connectors

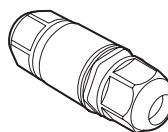
ø 80 mm

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



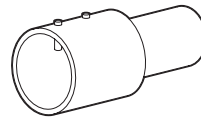
## IP68 rated wire cable connector

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



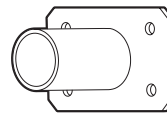
**Pole adapter** ..... Art. 70044002

from luminaire with  $\varnothing$  60 mm console  
to pole with  $\varnothing$  60 - 76 mm



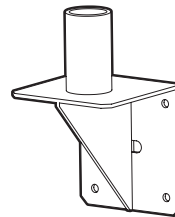
**Wall mounting bracket** ..... Art. 70044001

for luminaire with  $\varnothing$  60 mm console



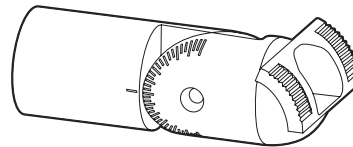
**Vertical wall mounting bracket** ..... Art. 70044004

for luminaire with  $\varnothing$  60 mm console



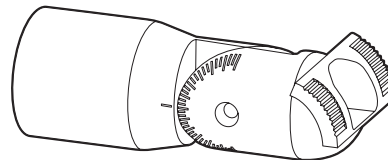
**Adjustable console  $\varnothing$  60 mm** ..... Art. 70055005

regulation angles  $\pm 90^\circ$



**Adjustable console  $\varnothing$  76 mm** ..... Art. 70055006

regulation angles  $\pm 90^\circ$



# 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.



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

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



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

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



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

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



**International EPD System** – Environmental Product Declaration available

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



**Synergrid approved** - compliance with Synergrid requirements for LED lighting

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



**LED driver replaceable by a professional**

This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement following the introduction of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



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