

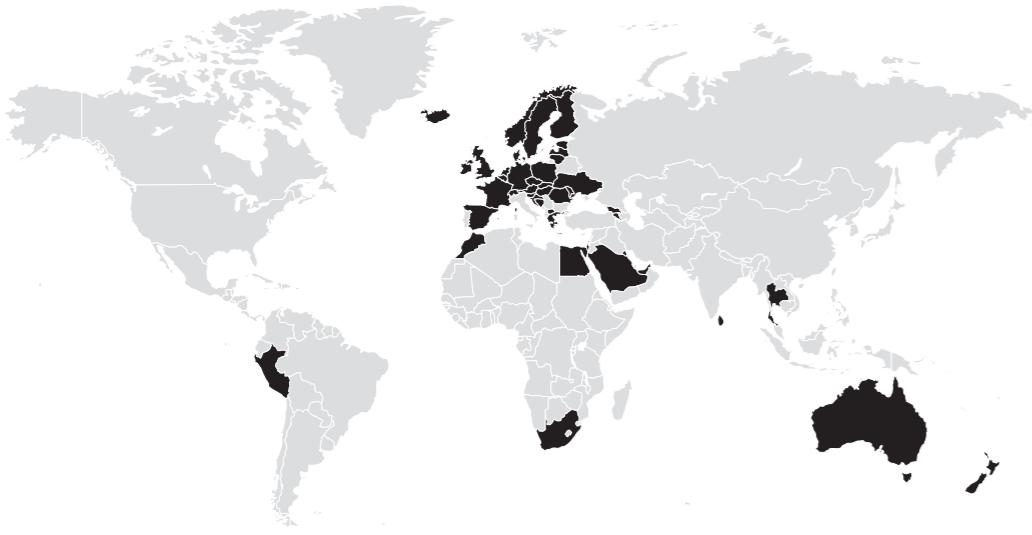
Exterior 2022

**vizulo**

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# About



VIZULO is a technology driven lighting producer with a focus on smart city concept development. Research and development of high-quality products are the priority of the company and the VIZULO engineering team has been formed as a result of great cooperation with Riga Technical University – a number of researchers holding a doctoral degree are employed in the company. Since its establishment in 2012, the company has grown rapidly – there are 100 people working today in VIZULO group and our lighting products are exported to 37 countries all over the world.

Armenia, Australia, Austria, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Iceland, Ireland, Israel, Lithuania, Moldova, Morocco, New Zealand, Norway, Peru, Poland, Saudi Arabia, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Thailand, The Netherlands, Ukraine, United Arab Emirates.

Note: This product catalogue gives information on standard product range offered by VIZULO in the market. In the other tender documents VIZULO, according to its usual practice, offers modified products, which are designed and will be manufactured to correspond to the specific tender requirements. Accordingly, for the evaluation of the technical characteristics of the products offered in the Lots A and E, the contracting authority shall use the specific technical specifications submitted in the tender rather than this product catalogue.

This product catalogue reflects only some possible standard product modifications and therefore is rather informative. If the Contracting authority will require any additional products from the standard product catalogue, VIZULO is ready to agree on additional modifications to the standard products in order to satisfy the Contracting authorities needs.

## Certificates



Coming soon

## Awards



LIAA 2015 & 2016

The Investment and Development Agency of Latvia (LIAA) and the Ministry of Economics organise the annual Export and Innovation Award, celebrating the leading exporters and most innovative companies in Latvia.  
Innovative product 2015 – 2nd place.  
Industrial design 2016 – 3rd place.



Swedish business awards

Nomination - New entrepreneur.  
The project aims to provide positive examples for international establishments and business development by highlighting the success of cooperation, emphasising innovativeness, outstanding business achievements and the importance of contributions to society.



"The Red Jackets 2017"

Export Excellence Award Winner.  
The Red Jackets goal is to create the strongest export brand and identify what the Latvian export image currently is.

# Electronical production line

VIZULO employs hi-tech automated electronic production lines – high speed surface mount technology line and selective soldering line. This gives a great flexibility in specific LED module development and custom made production just as possibility to produce any other electronics devices – like surge protection devices and different smart sensors.



# Metal work division

Variety of metal working equipment have been installed in 2016 – large size CNC mill, sheet metal punching machine, sheet metal folding machine and other machines for indoor and outdoor luminaire production.



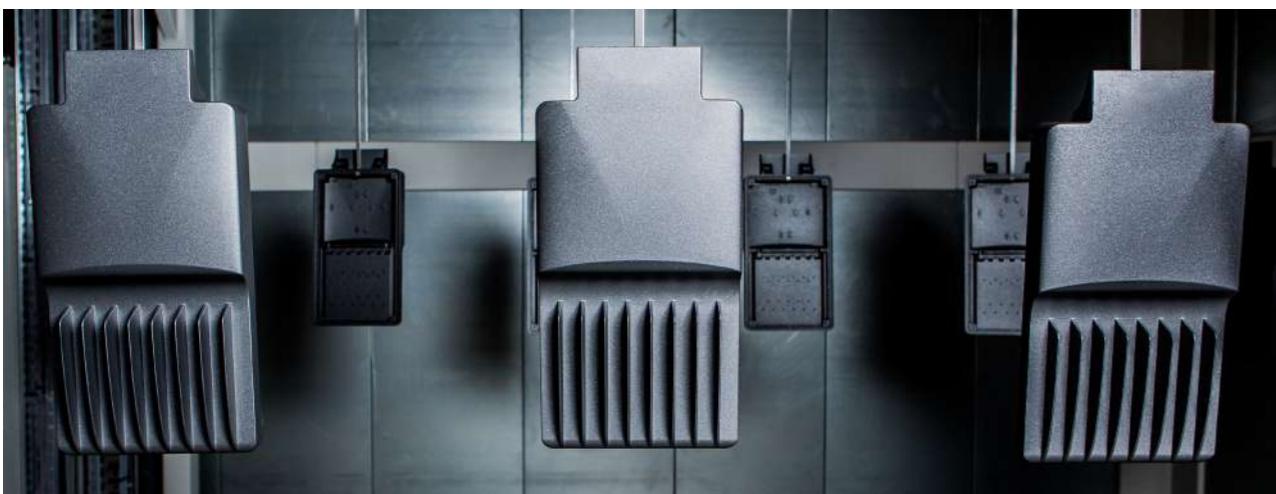
# High speed powder coating line



High speed 400 m<sup>2</sup> large luminaire powder coating conveyor system is employed to achieve excellent quality of coating process.

# Luminaire assembly line

When metal working and powder coating process is finished, mechanical parts arrive to luminaire assembly line – where LED modules from electronic production line are assembled with other parts. Thus majority of luminaire production process is held in-house.



# Quality and testing



Photometric tests – light distribution, colorimetric testing and photo biological safety testing.  
Quality tests of different type coatings including powder coatings – neutral salt spray testing (NSST), Machu tests, coating layer thickness measurements.  
IP class testing, IK class testing, temperature testing, vibration and shock testing, EMC testing is organised in cooperation with well-known and reputable certification bodies in Europe.



# Dimming

## DALI

Digital Addressable Lighting Interface – digital signal interface specially developed for lighting applications. DALI network consists of a controller and one or more lighting devices (e.g., electrical ballasts, LED drivers and dimmers) that have DALI interfaces. The controller can monitor and control each light by means of a bidirectional data exchange. DALI requires a single pair of wires to form the bus for communication to all devices on a single DALI network.

## 0 - 10 V

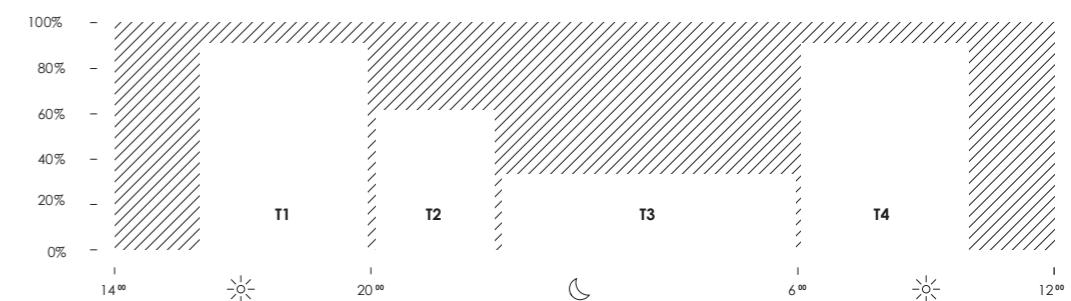
Analog signal interface with no feedback from driver. The maximum level is still 100%, but the minimum level for DC0-10V is 5.7% in case the dimming signal is given at 0.57V. In case the dimmer is giving lower than 0.57V, the LED driver will cut off the output current resulting in no light output in the LED module.

## 1 - 10 V

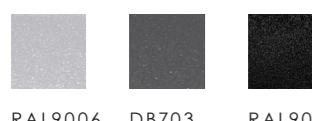
Analog signal interface with no feedback from driver. For this dimming interface 100% is the maximum of driver and 10% is the minimum level. The output status is not guaranteed when the dimming signal is less than 1V. The output of LED driver could be completely switched off or there is still some light coming out of LED module. If application requirement is to completely turn off the driver, then additional switch at AC mains of driver is required.

## Midnight dimming

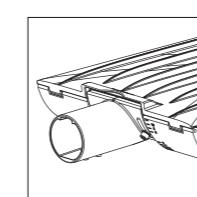
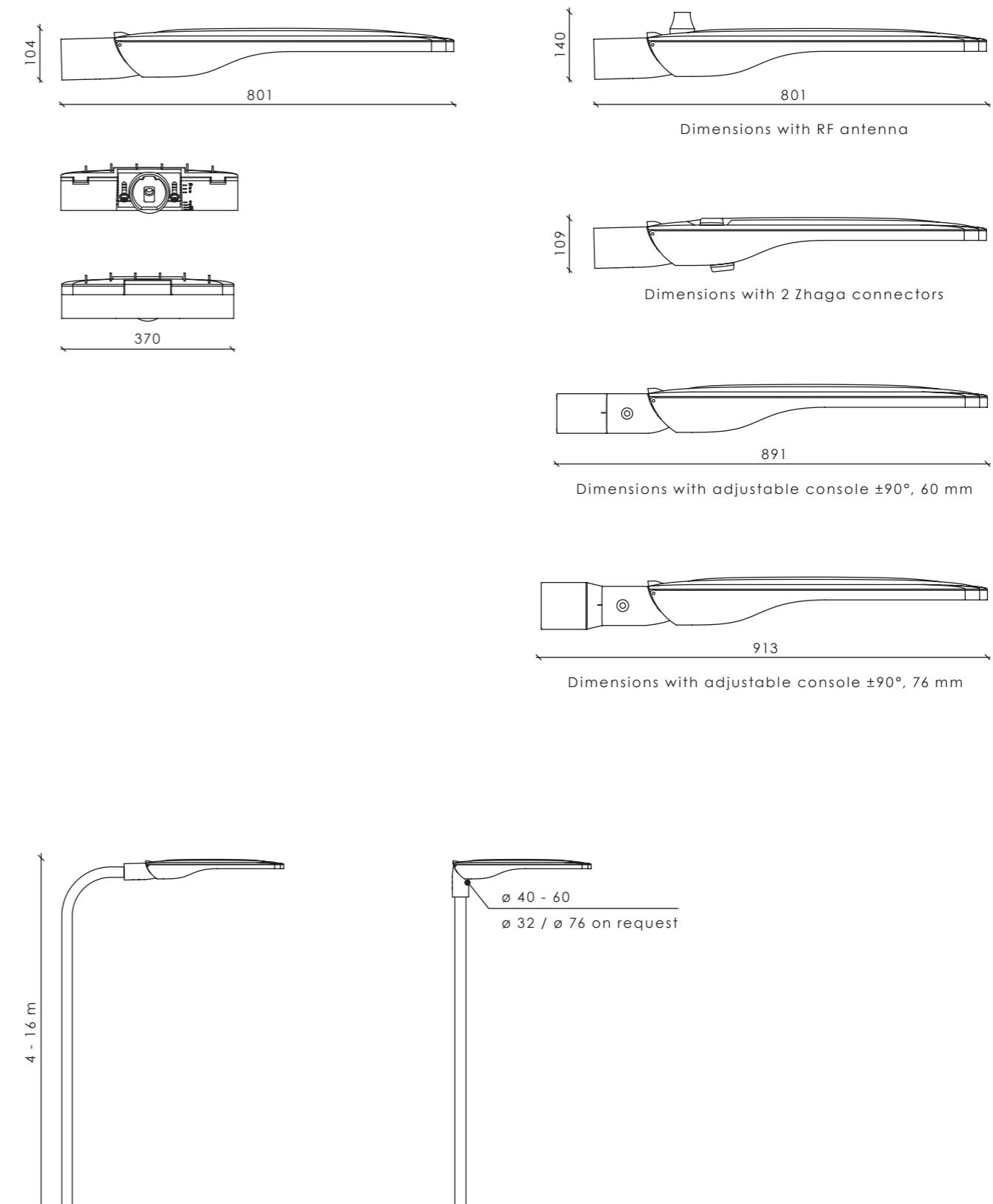
Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on / off times.



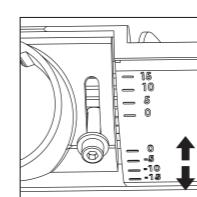
# Stork



RAL9006    DB703    RAL9005    Other colors available on request

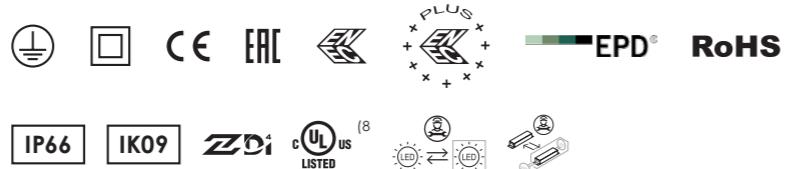


Horizontal entry  
≤ -15 ... 0



Vertical entry  
≤ 0 ... 15

## Technical information



V	220 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 280	Warranty 5 years
lm	555 - 41000 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
lm/W	110 - 161	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50 (up to 240 W)	
	-40 to +35 (240 - 280 W)	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
		Spigot: Ø 40 - 60, with accessories Ø 32; Ø 76
		Intelligent light control system: Radio frequency / Power line <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,047

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available (2700 - 6500 K);

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

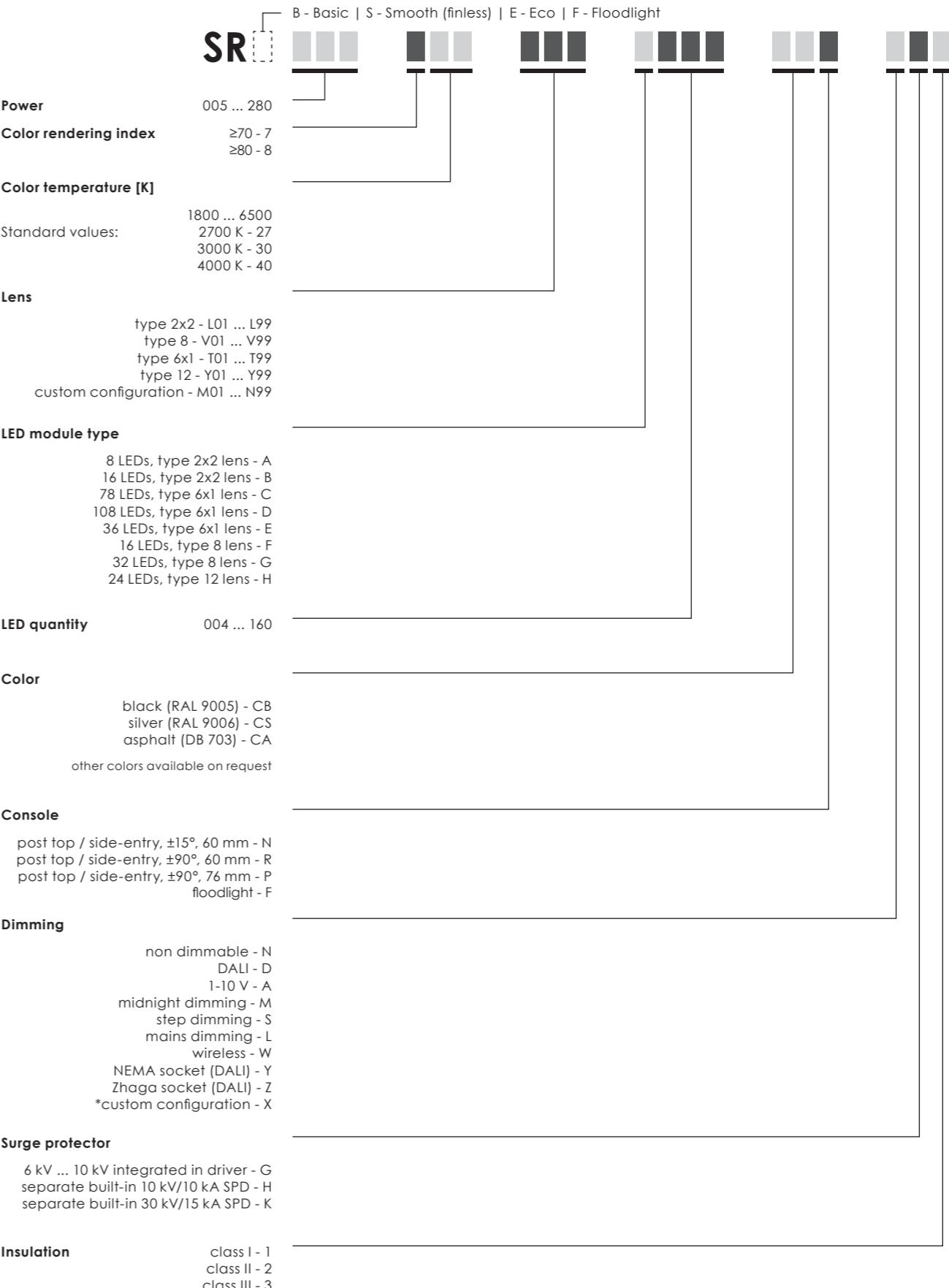
<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> 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 will reach 100 000 h L90/B10. 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

## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

## Standard modules

\* Data for L01 optic.

Check VIZULO members section for additional information

ECO

\* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	16		32		48				
<b>Nominal current, mA</b>	280	500	760	280	500	750	270	500	690
<b>Power, W</b>	15	26	39	28	50	75	40	75	102
<b>Luminous Flux, lm</b>	2180	3600	5300	4500	7550	10650	6360	11000	14800
<b>Efficacy, lm/W</b>	145	138	136	161	151	142	159	147	145
<b>Power factor, PF</b>	0,83	0,94	0,98	0,81	0,93	0,97	0,89	0,93	0,96

<b>Number of LED's</b>	64		80	
<b>Nominal current, mA</b>	250	500	700	250
<b>Power, W</b>	50	98	137	60
<b>Luminous Flux, lm</b>	8000	15000	19800	9650
<b>Efficacy, lm/W</b>	160	153	145	161
<b>Power factor, PF</b>	0,84	0,96	0,98	0,86
				0,96
				0,98

Luminaire efficacy	2700 K	15 - 190 W	1850 - 23000 lm	117 - 140 lm/W
	3000 K	15 - 190 W	2000 - 25000 lm	128 - 152 lm/W
	5000 K	15 - 190 W	2180 - 26600 lm	136 - 161 lm/W
	5700 K	15 - 190 W	2180 - 26600 lm	136 - 161 lm/W

## High density modules

\* Data for v01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8		16		24		32					
<b>Nominal current, mA</b>	220	470	700	280	490	700	270	500	700	250	500	700
<b>Power, W</b>	12	25	38	28	50	74	40	75	110	50	100	144
<b>Luminous Flux, lm</b>	1670	3300	4600	4100	6700	9100	6000	9700	13500	7500	13300	17500
<b>Efficacy, lm/W</b>	139	132	121	146	134	123	150	129	123	150	133	122
<b>Power factor, PF</b>	0,78	0,93	0,98	0,81	0,93	0,97	0,89	0,97	0,97	0,84	0,96	0,98

<b>Number of LED's</b>	48			<b>64</b>			<b>80</b>		
<b>Nominal current, mA</b>	270	500	700	270	500	680	270	500	560
<b>Power, W</b>	78	150	211	107	200	280	130	250	280
<b>Luminous Flux, lm</b>	12000	20000	25500	15700	25300	32100	19400	32700	35600
<b>Efficacy, lm/W</b>	154	133	121	147	127	115	149	131	127
<b>Power factor, PF</b>	0,97	0,97	0,99	0,95	0,96	0,98	0,88	0,97	0,97

Luminaire efficacy	2700 K	12 - 280 W	1560 - 33300 lm	108 - 142 lm/W
	3000 K	12 - 280 W	1620 - 34600 lm	112 - 148 lm/W
	5000 K	12 - 280 W	1670 - 35600 lm	115 - 154 lm/W
	5700 K	12 - 280 W	1670 - 35600 lm	115 - 154 lm/W

4000 K | CRI 70

<b>Number of LED's</b>	32			48			64			80		
<b>Nominal current, mA</b>	280	500	750	270	500	690	250	500	700	250	500	780
<b>Power, W</b>	28	50	75	40	75	102	50	98	137	60	120	190
<b>Luminous Flux, lm</b>	4300	7400	10110	6300	11200	14500	7600	14000	18850	9600	18200	26600
<b>Efficacy, lm/W</b>	154	148	135	158	149	142	152	143	138	160	152	140
<b>Power factor, PF</b>	0,81	0,93	0,97	0,89	0,92	0,96	0,84	0,96	0,98	0,86	0,96	0,98

<b>Number of LED's</b>	96		128				160		
<b>Nominal current, mA</b>	260	500	710	260	500	720	260	500	610
<b>Power, W</b>	75	145	205	102	195	280	120	200	280
<b>Luminous Flux, lm</b>	11600	21000	28000	16000	29000	39300	19000	30500	41000
<b>Efficacy, lm/W</b>	155	145	137	157	149	140	158	153	146
<b>Power factor, PF</b>	0,90	0,97	0,98	0,85	0,96	0,98	0,86	0,96	0,98

Luminaire efficacy	2700 K	28 - 280 W	3600 - 35000 lm	116 - 138 lm/W
	3000 K	28 - 280 W	3900 - 39000 lm	129 - 152 lm/W
	5000 K	28 - 280 W	4300 - 41000 lm	137 - 161 lm/W
	5700 K	28 - 280 W	4300 - 41000 lm	137 - 161 lm/W



Carnikava | Latvia

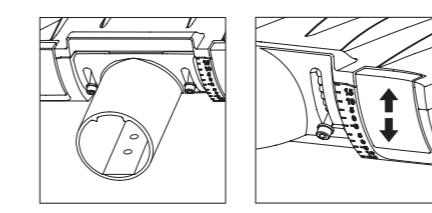
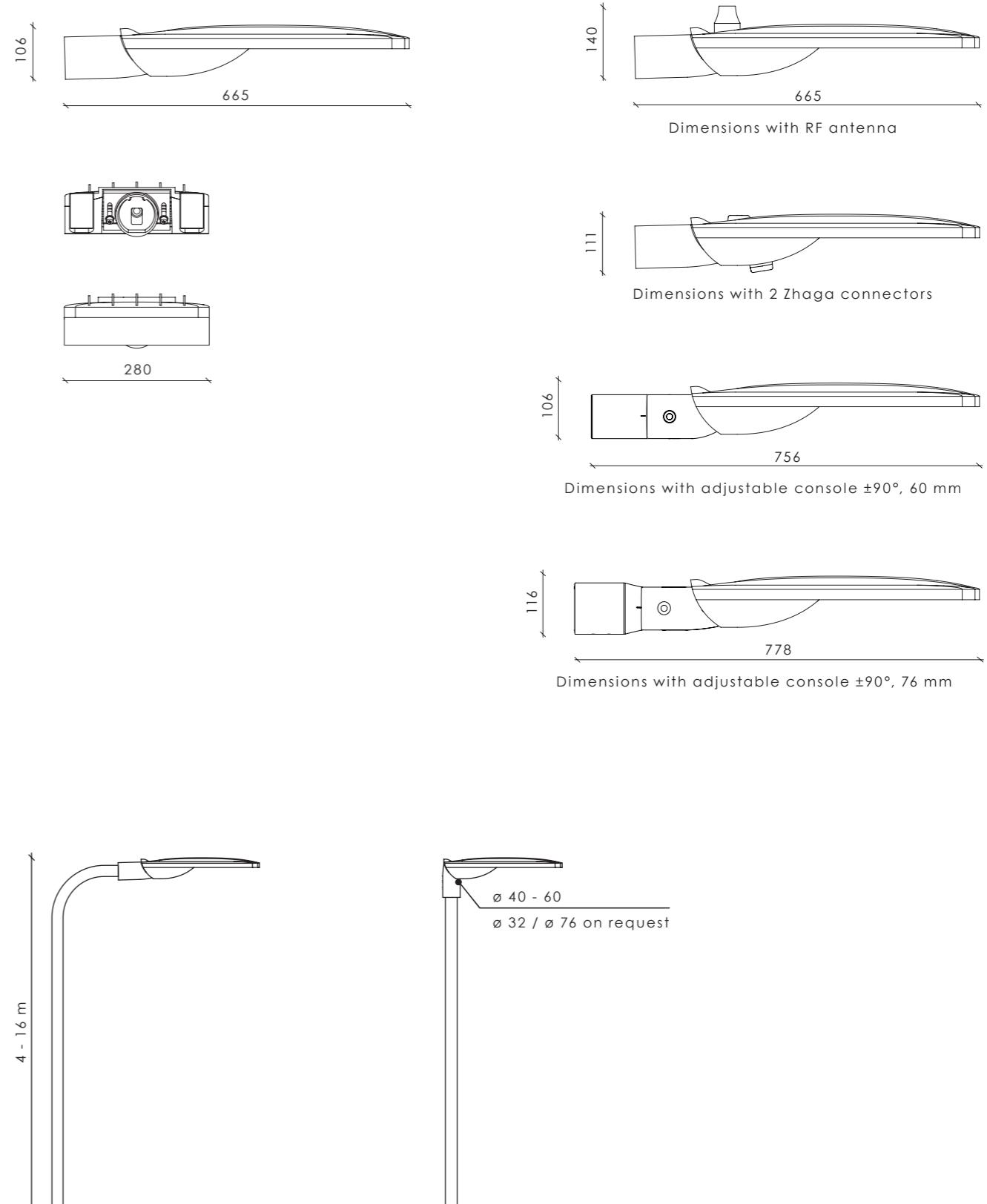


Budapest | Hungary

# Stork little brother



Other colors available on request  
 RAL9006   DB703   RAL9005



Street luminaires

## Technical information



V	200 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 178	Warranty 5 years
lm	487 - 26000 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
lm/W	98 - 161	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
		Spigot: Ø 40 - 60, with accessories Ø 32; Ø 76
		Intelligent light control system: Radio frequency / Power line <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,04

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available (2700 - 6500 K);

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

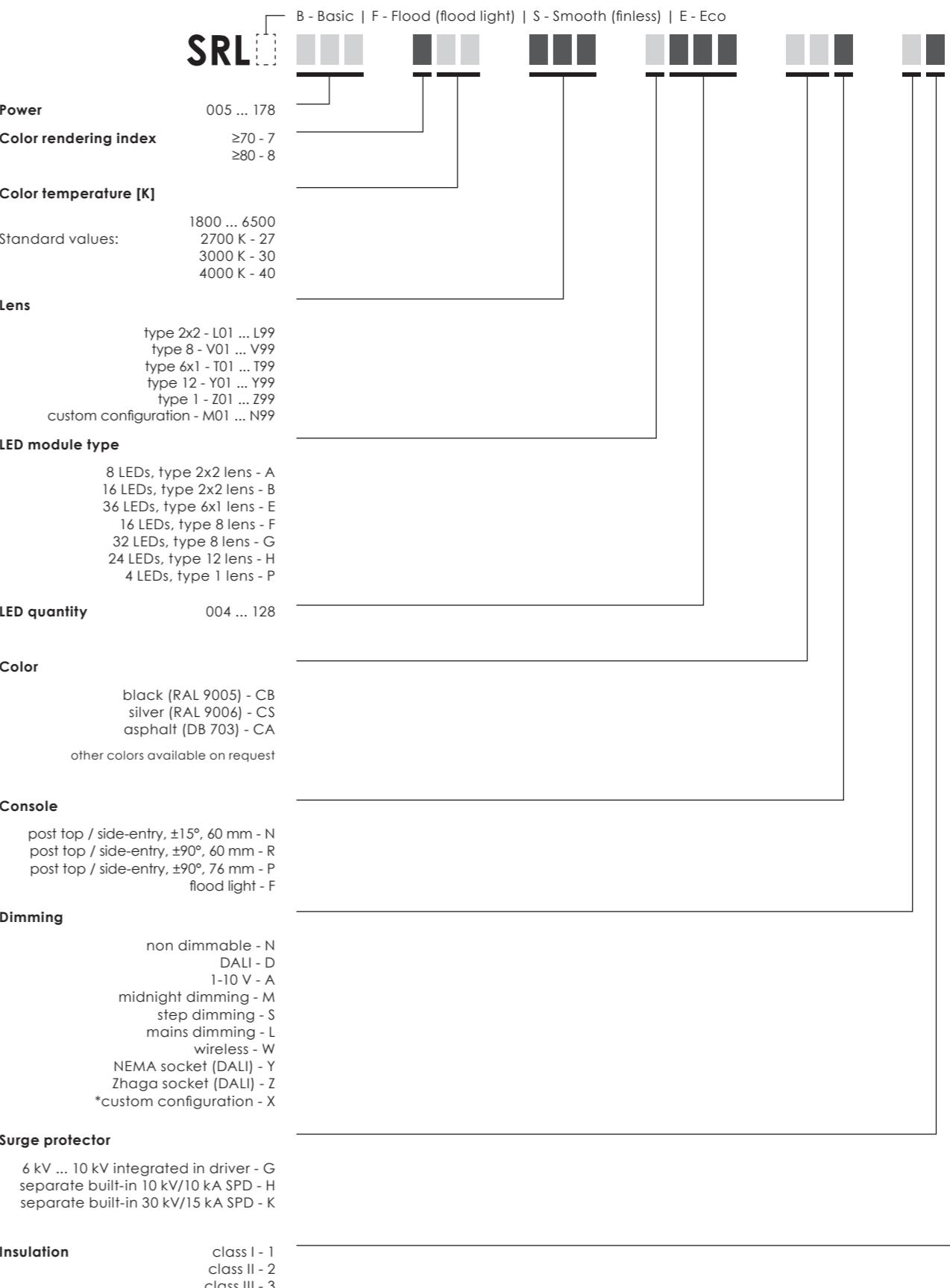
<sup>(8)</sup> Check SundaHus web page for product assessment results

<sup>(9)</sup> 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 will reach 100 000 h L90/B10. 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

## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

# Stork little brother smooth



Other colors  
available on request

## Technical information



<b>V</b>	200 - 240	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 178	Warranty 5 years
<b>lm</b>	487 - 26000 <sup>①</sup>	100 000 h (L80B10C10) <sup>④</sup>
<b>lm/W</b>	98 - 161	100 000 h (L95B10C10) <sup>⑤</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>②</sup>	Surge protection: 3; 6; 10 kV (optional) <sup>⑥</sup>
<b>°C</b>	-40 to +35	Spigot: ø 40 - 60, with accessories ø 32; ø 76
<b>CRI</b>	>70 / >80 <sup>③</sup>	Intelligent light control system: Radio frequency / Power line <sup>⑦</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,04

<sup>①</sup> Lumen output indicated at CRI > 70

<sup>②</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request; Tunable white option available (2700 - 6500 K); Amber option available

<sup>③</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>④</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>⑤</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>⑥</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>⑦</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>⑧</sup> Check SundaHus web page for product assessment results

<sup>⑨</sup> 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 will reach 100 000 h L90/B10. 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

<b>Number of LED's</b>	8			16			32		
<b>Nominal current, mA</b>	140	500	700	280	500	760	280	500	750
<b>Power, W</b>	5	14	19	15	26	39	28	50	75
<b>Luminous Flux, lm</b>	570	1900	2540	2180	3600	5300	4500	7550	10650
<b>Efficacy, lm/W</b>	114	136	134	145	138	136	161	151	142
<b>Power factor, PF</b>	0,69	0,89	0,94	0,83	0,94	0,98	0,81	0,93	0,97

<b>Number of LED's</b>	48			64		
<b>Nominal current, mA</b>	270	500	690	250	500	700
<b>Power, W</b>	40	75	102	50	98	137
<b>Luminous Flux, lm</b>	6360	11000	14800	8000	15000	19800
<b>Efficacy, lm/W</b>	159	147	145	160	153	145
<b>Power factor, PF</b>	0,89	0,93	0,96	0,84	0,96	0,98

Luminaire efficacy	2700 K	5 - 137 W	487 - 17000 lm	98 - 140 lm/W
	3000 K	5 - 137 W	540 - 18500 lm	108 - 152 lm/W
	5000 K	5 - 137 W	570 - 19800 lm	114 - 161 lm/W
	5700 K	5 - 137 W	570 - 19800 lm	114 - 161 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			16			24			32		
<b>Nominal current, mA</b>	280	490	700	280	490	700	270	500	700	250	500	700
<b>Power, W</b>	15	26	38	28	50	74	40	75	110	50	100	144
<b>Luminous Flux, lm</b>	2100	3400	4730	4100	6700	9100	6000	9700	13500	7500	13300	17500
<b>Efficacy, lm/W</b>	140	131	124	146	134	123	150	129	123	150	133	122
<b>Power factor, PF</b>	0,83	0,94	0,98	0,81	0,93	0,97	0,89	0,97	0,97	0,84	0,96	0,98

<b>Number of LED's</b>	36			48			64		
<b>Nominal current, mA</b>	270	500	700	270	500	680	270	390	460
<b>Power, W</b>	60	110	160	78	150	178	107	150	178
<b>Luminous Flux, lm</b>	9500	15500	20000	11000	19500	22000	16500	21600	25000
<b>Efficacy, lm/W</b>	158	141	125	141	130	124	154	144	140
<b>Power factor, PF</b>	0,95	0,95	0,98	0,93	0,97	0,99	0,97	0,97	0,98

Luminaire efficacy	2700 K	15 - 178 W	1960 - 23100 lm	115 - 148 lm/W
	3000 K	15 - 178 W	2040 - 24600 lm	121 - 154 lm/W
	5000 K	15 - 178 W	2100 - 25000 lm	122 - 158 lm/W
	5700 K	15 - 178 W	2100 - 25000 lm	122 - 158 lm/W

**High density  
modules**

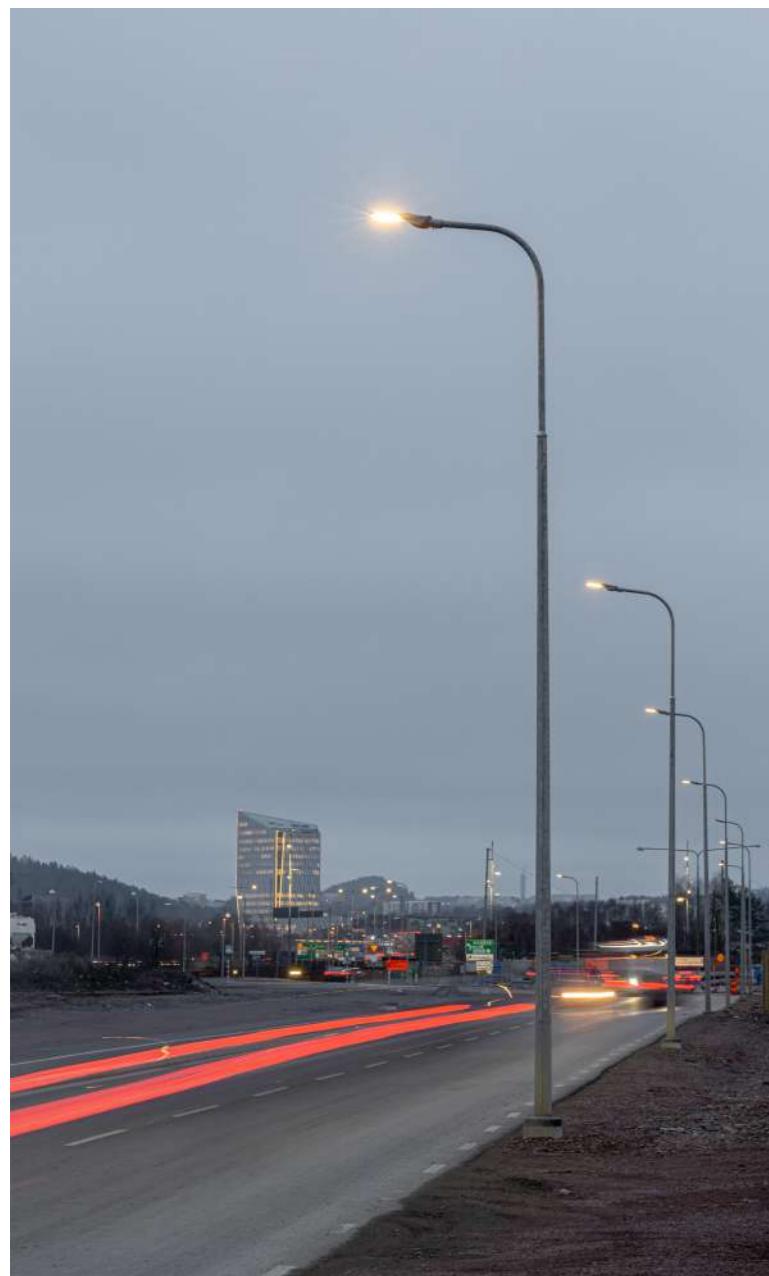
\* Data for V01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	24			32			48			64		
<b>Nominal current, mA</b>	270	500	780	280	500	750	270	500	690	250	500	700
<b>Power, W</b>	21	38	59	28	50	75	40	75	102	50	98	137
<b>Luminous Flux, lm</b>	3100	5500	8000	4300	7400	10110	6300	11200	14500	7600	14000	18850
<b>Efficacy, lm/W</b>	148	145	136	154	148	135	158	149	142	152	143	138
<b>Power factor, PF</b>	0,87	0,95	0,98	0,81	0,93	0,97	0,89	0,92	0,96	0,84	0,96	0,98

<b>Number of LED's</b>	80			96			128		
<b>Nominal current, mA</b>	270	500	710	270	500	740	270	370	480
<b>Power, W</b>	64	120	170	76	120	178	102	140	178
<b>Luminous Flux, lm</b>	10000	17800	24000	12000	17700	25000	16000	21000	26000
<b>Efficacy, lm/W</b>	156	148	141	158	148	140	157	150	146
<b>Power factor, PF</b>	0,87	0,96	0,98	0,90	0,96	0,98	0,85	0,97	0,98

Luminaire efficacy	2700 K	21 - 178 W	2700 - 10000 lm	119 - 138 lm/W
	3000 K	21 - 178 W	2970 - 11000 lm	129 - 152 lm/W
	5000 K	21 - 178 W	3100 - 26000 lm	136 - 158 lm/W
	5700 K	21 - 178 W	3100 - 26000 lm	136 - 158 lm/W



Gothenburg | Sweden

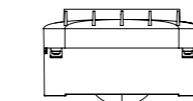
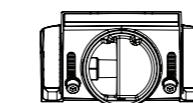
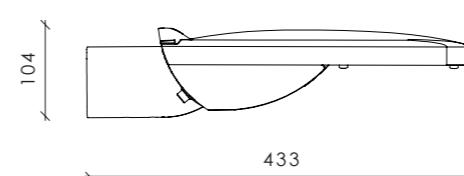


Hafnarfjordur | Iceland

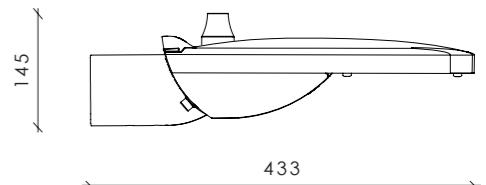
# Stork little sister



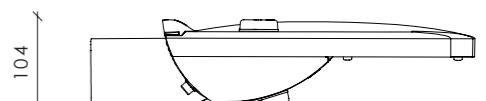
RAL9006 DB703 RAL9005 Other colors available on request



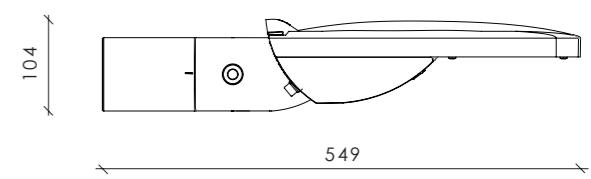
170



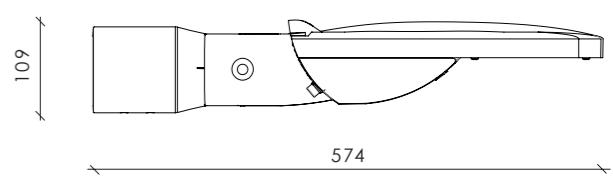
Dimensions with RF antenna



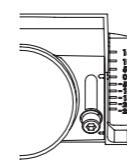
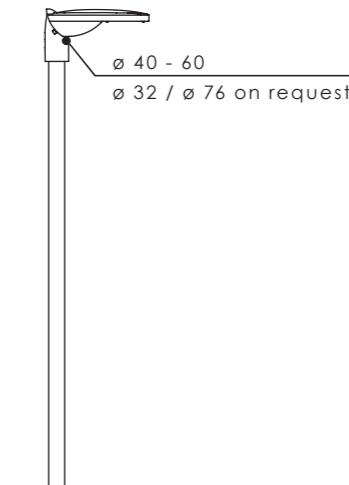
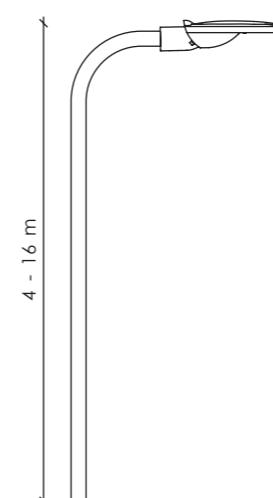
Dimensions with 2 Zhaga connectors



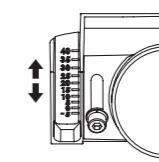
Dimensions with adjustable console ±90°, 60 mm



Dimensions with adjustable console ±90°, 76 mm



≤ -25 ... 15  
Side entry



≤ -5 ... 40  
Vertical entry

## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 80	Warranty 5 years
Im	430 - 10500 <sup>(1)</sup>	100 000 h (L90B10C10) <sup>(4)</sup>
Im/W	86 - 150	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6; 10 kV (optional) <sup>(6)</sup>
		Spigot: Ø 40 - 60, with accessories Ø 32; Ø 76
		Intelligent light control system: Radio frequency / Power line <sup>(7)</sup>
		Socket: Zhaga / NEMA (configurations with Zhaga socket up to 65 W)
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,033

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

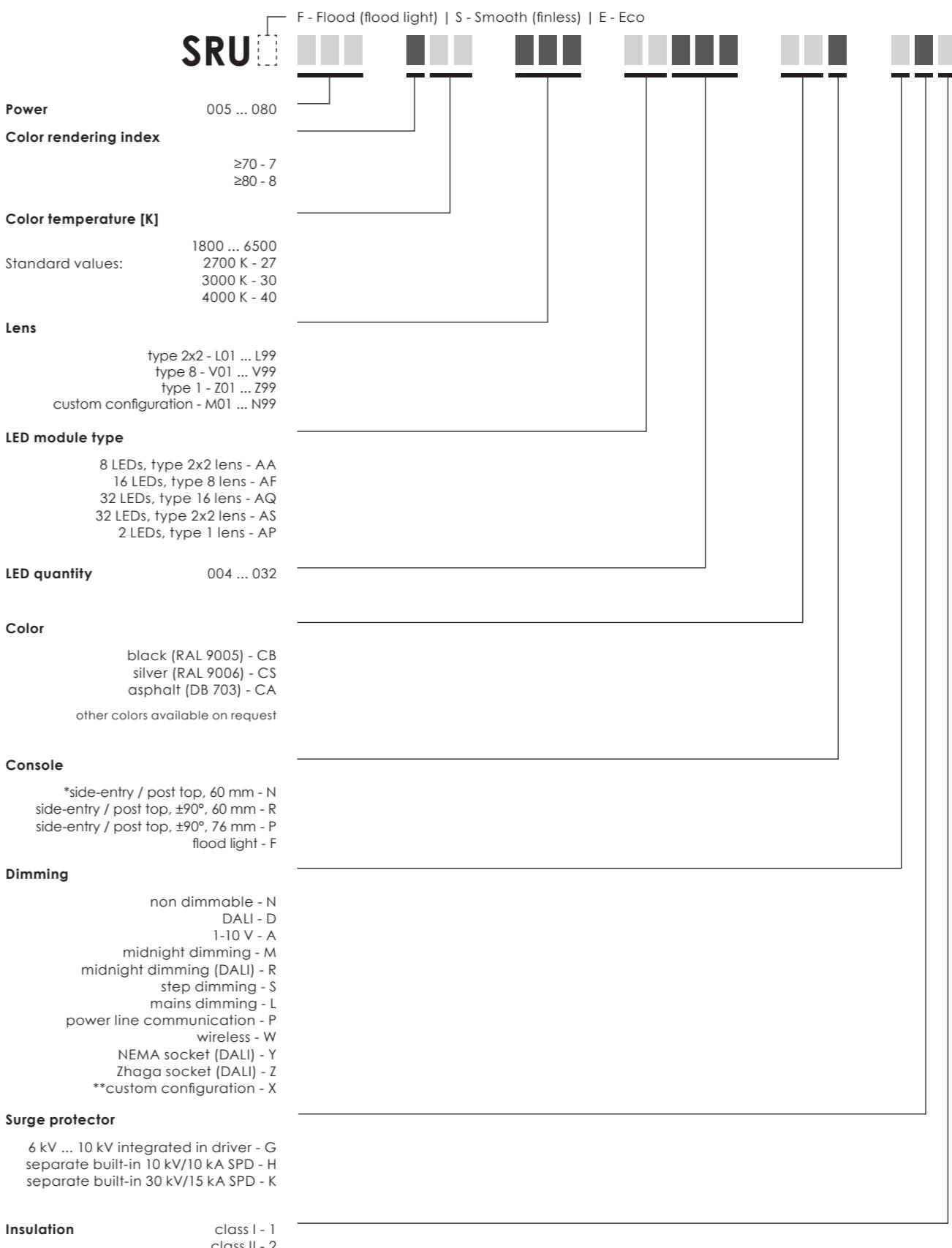
<sup>(6)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



\*Console regulation range - side entry: +15° ... -25° | post top: +40° ... -5°

\*\* CUSTOM CONFIGURATION EXAMPLE:  
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			8			16		
<b>Nominal current, mA</b>	270	500	730	140	500	700	280	490	770
<b>Power, W</b>	5	8	11	5	15	19	15	25	39
<b>Luminous Flux, lm</b>	500	890	1250	560	1900	2500	2150	3500	5300
<b>Efficacy, lm/W</b>	100	111	114	112	127	132	143	140	136
<b>Power factor, PF</b>	0,83	0,89	0,93	0,70	0,89	0,94	0,90	0,97	0,98

Luminaire efficacy	2700 K	5 - 39 W	430 - 4400 lm	86 - 119 lm/W
	3000 K	5 - 39 W	470 - 4800 lm	94 - 130 lm/W
	5000 K	5 - 39 W	500 - 5300 lm	100 - 143 lm/W
	5700 K	5 - 39 W	500 - 5300 lm	100 - 143 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			8			12			16		
<b>Nominal current, mA</b>	140	490	670	280	500	710	280	500	710	280	500	710
<b>Power, W</b>	5	14	19	15	26	38	22	39	56	28	50	74
<b>Luminous Flux, lm</b>	550	1600	2200	2200	3700	5100	3100	5100	6600	4200	7100	9600
<b>Efficacy, lm/W</b>	110	114	116	147	142	134	141	131	118	150	142	130
<b>Power factor, PF</b>	0,69	0,89	0,94	0,90	0,97	0,98	0,91	0,95	0,98	0,95	0,97	0,98

Luminaire efficacy	2700 K	5 - 74 W	500 - 9000 lm	100 - 143 lm/W
	3000 K	5 - 74 W	540 - 9300 lm	108 - 146 lm/W
	5000 K	5 - 74 W	550 - 9600 lm	110 - 150 lm/W
	5700 K	5 - 74 W	550 - 9600 lm	110 - 150 lm/W

**High density  
modules**

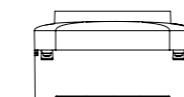
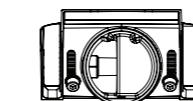
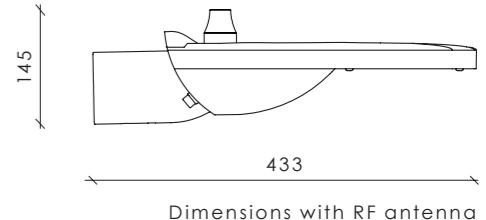
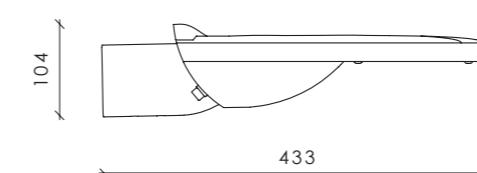
\* Data for V01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

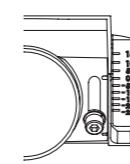
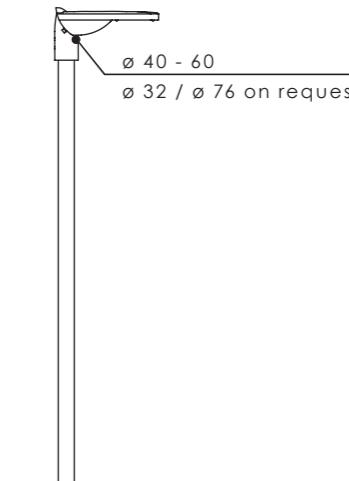
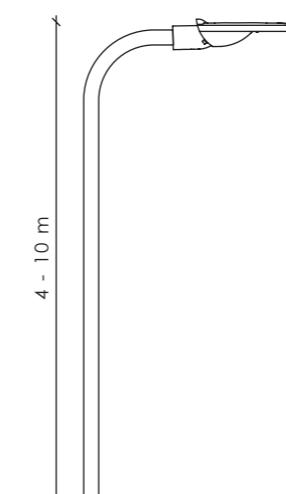
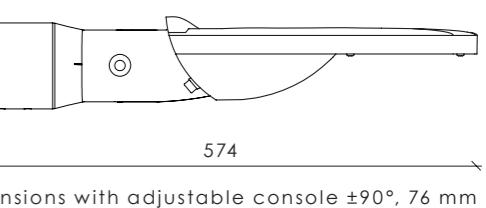
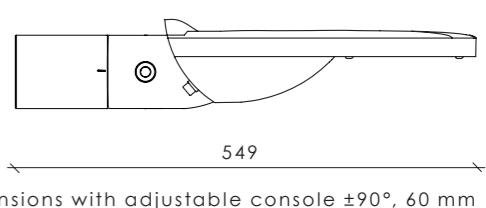
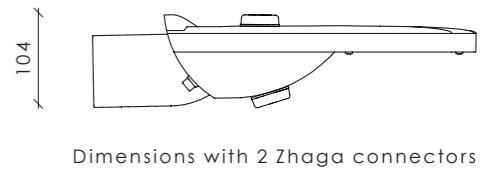
<b>Number of LED's</b>	16			32		
<b>Nominal current, mA</b>	280	490	770	270	500	810
<b>Power, W</b>	15	25	39	27	50	80
<b>Luminous Flux, lm</b>	2150	3500	5300	4000	7100	10500
<b>Efficacy, lm/W</b>	143	140	136	148	142	131
<b>Power factor, PF</b>	0,90	0,97	0,98	0,94	0,93	0,97

Luminaire efficacy	2700 K	15 - 80 W	1820 - 8900 lm	113 - 127 lm/W
	3000 K	15 - 80 W	2000 - 9900 lm	126 - 141 lm/W
	5000 K	15 - 80 W	2150 - 10500 lm	131 - 148 lm/W
	5700 K	15 - 80 W	2150 - 10500 lm	131 - 148 lm/W

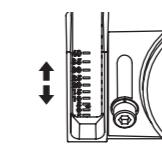
# Stork little sister smooth



170



$\leq -25 \dots 15$   
Side entry



$\leq -5 \dots 40$   
Vertical entry

## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 50	Warranty 5 years
lm	430 - 7100 <sup>(1)</sup>	100 000 h (L90B10C10) <sup>(4)</sup>
lm/W	86 - 148	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6; 10 kV (optional) <sup>(6)</sup>
		Spigot: Ø 40 - 60, with accessories Ø 32; Ø 76
		Intelligent light control system: Radio frequency / Power line <sup>(7)</sup>
		Socket: Zhaga / NEMA (configurations with Zhaga socket up to 65 W)
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,033

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

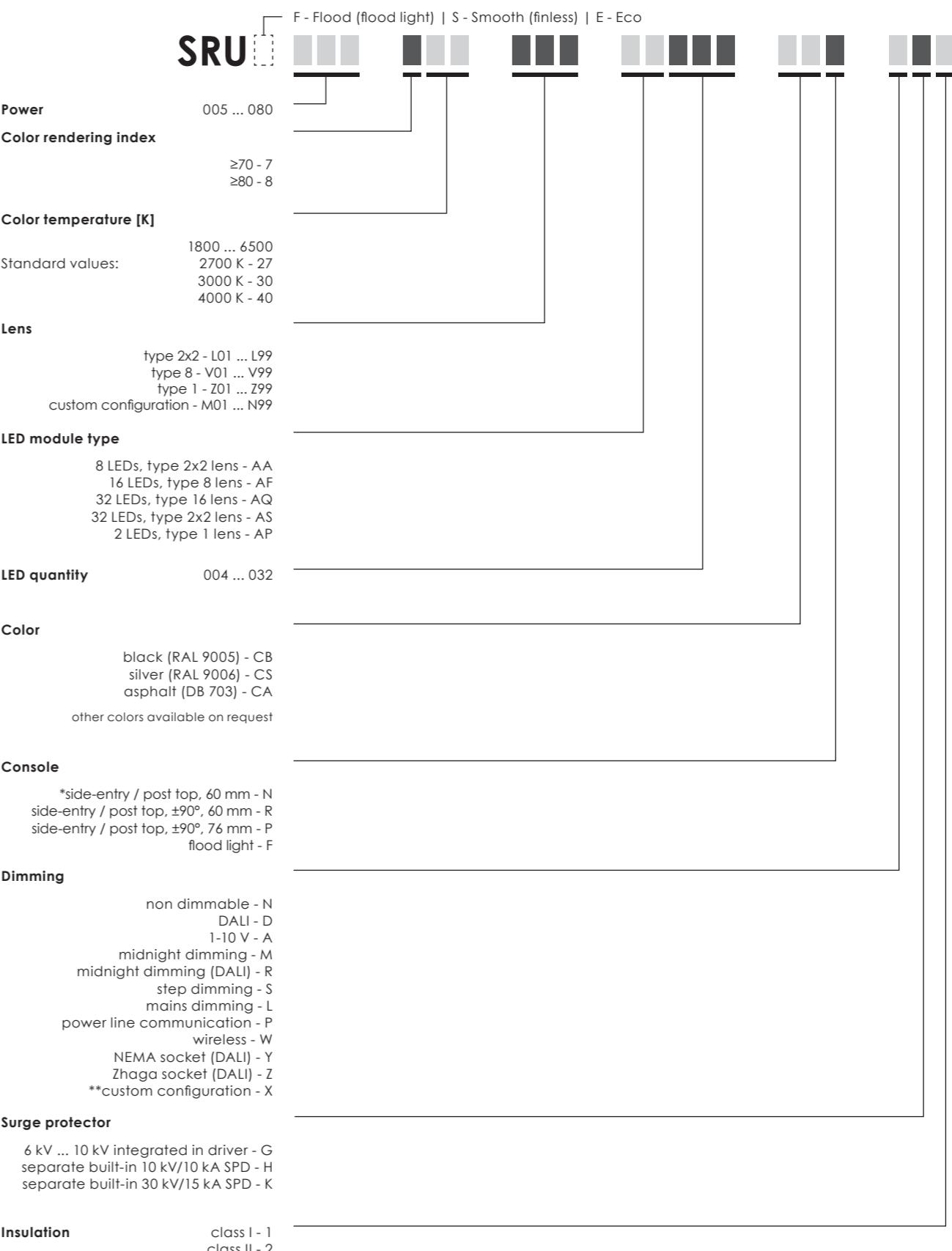
<sup>(6)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



\*Console regulation range - side entry: +15° ... -25° | post top: +40° ... -5°

\*\* CUSTOM CONFIGURATION EXAMPLE:  
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.

EXAMPLE SRUS 080 730 L01 AA016 CSN NG1

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			8			16		
<b>Nominal current, mA</b>	270	500	730	140	500	700	280	490	770
<b>Power, W</b>	5	8	11	5	15	19	15	25	39
<b>Luminous Flux, lm</b>	500	890	1250	560	1900	2500	2150	3500	5300
<b>Efficacy, lm/W</b>	100	111	114	112	127	132	143	140	136
<b>Power factor, PF</b>	0,83	0,89	0,93	0,70	0,89	0,94	0,90	0,97	0,98

Luminaire efficacy	2700 K	5 - 39 W	430 - 4400 lm	86 - 119 lm/W
	3000 K	5 - 39 W	470 - 4800 lm	94 - 130 lm/W
	5000 K	5 - 39 W	500 - 5300 lm	100 - 143 lm/W
	5700 K	5 - 39 W	500 - 5300 lm	100 - 143 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			8			12			16	
<b>Nominal current, mA</b>	140	490	670	280	500	710	280	500	640	280	500
<b>Power, W</b>	5	14	19	15	26	38	22	39	50	28	50
<b>Luminous Flux, lm</b>	550	1600	2200	2200	3700	5100	3100	5100	6100	4200	7100
<b>Efficacy, lm/W</b>	110	114	116	147	142	134	141	131	122	150	142
<b>Power factor, PF</b>	0,69	0,89	0,94	0,90	0,97	0,98	0,91	0,95	0,97	0,95	0,97

Luminaire efficacy	2700 K	5 - 50 W	500 - 6600 lm	100 - 143 lm/W
	3000 K	5 - 50 W	540 - 6800 lm	108 - 146 lm/W
	5000 K	5 - 50 W	550 - 7100 lm	110 - 147 lm/W
	5700 K	5 - 50 W	550 - 7100 lm	110 - 147 lm/W

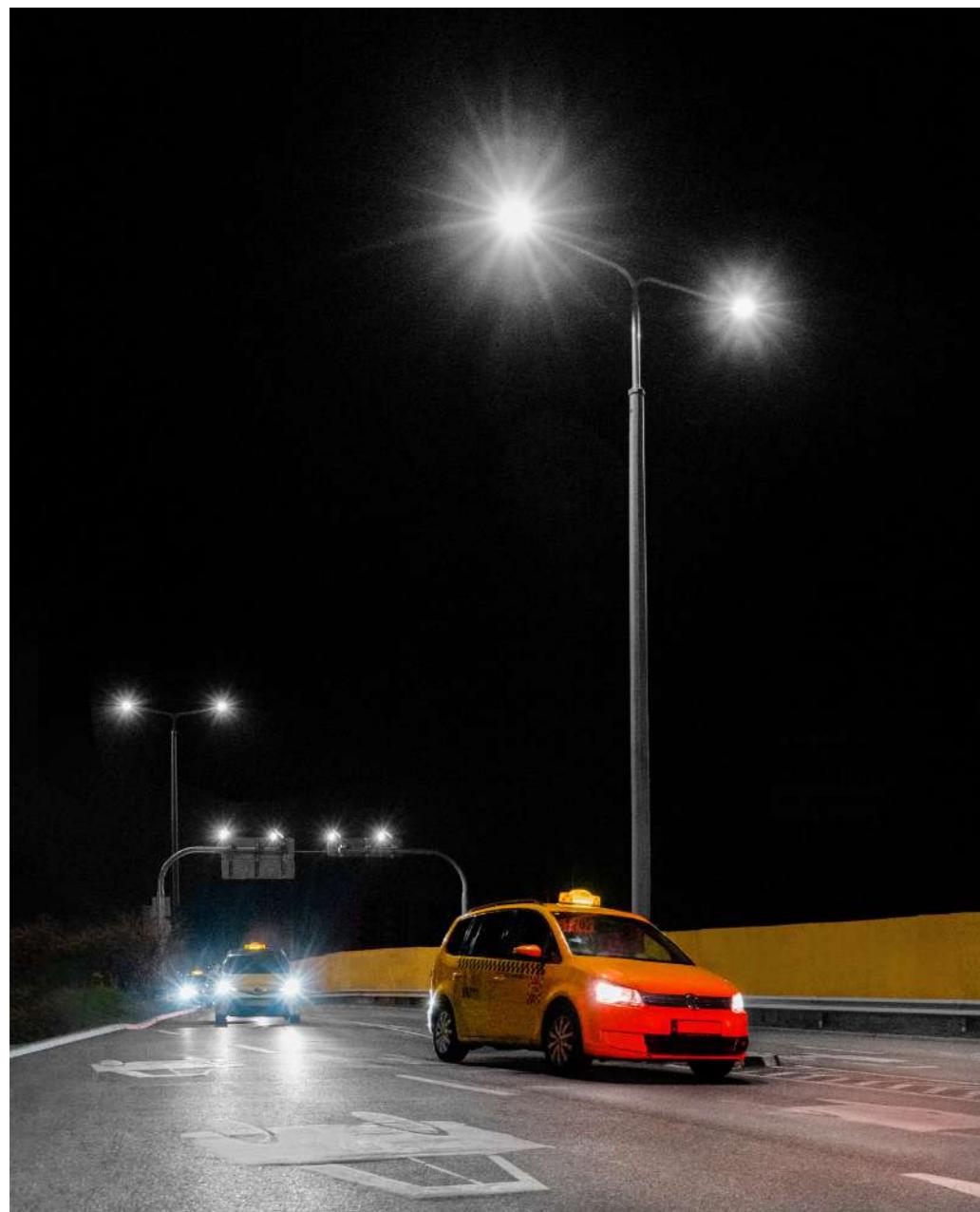
**High density  
modules**

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

4000 K | CRI 70

<b>Number of LED's</b>	16			32	
<b>Nominal current, mA</b>	280	490	770	270	500
<b>Power, W</b>	15	25	39	27	50
<b>Luminous Flux, lm</b>	2150	3500	5300	4000	7100
<b>Efficacy, lm/W</b>	143	140	136	148	142
<b>Power factor, PF</b>	0,90	0,97	0,98	0,94	0,93

Luminaire efficacy	2700 K	15 - 50 W	1820 - 6100 lm	113 - 127 lm/W
	3000 K	15 - 50 W	2000 - 6700 lm	126 - 141 lm/W
	5000 K	15 - 50 W	2150 - 7100 lm	136 - 148 lm/W
	5700 K	15 - 50 W	2150 - 7100 lm	136 - 148 lm/W

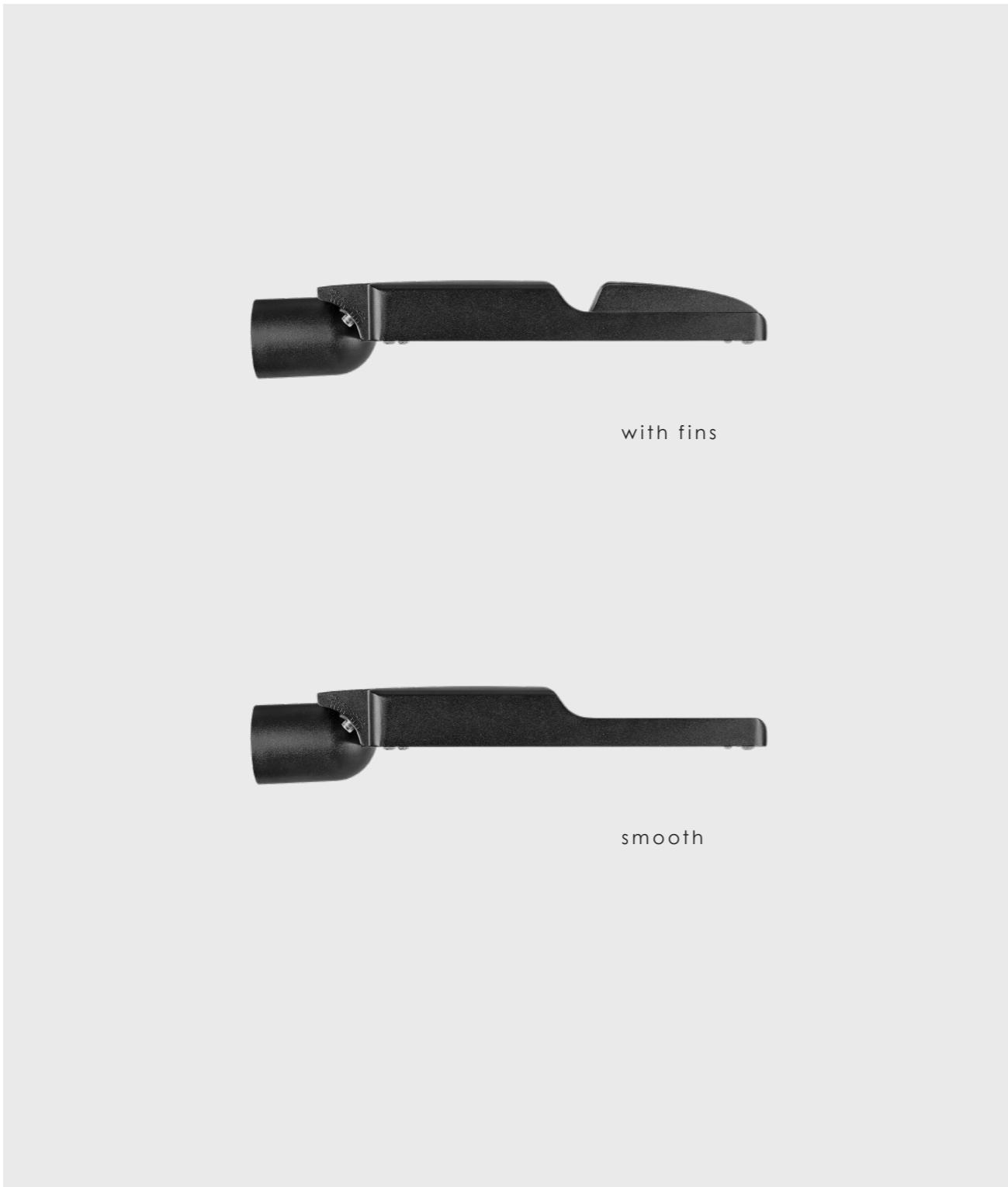


Budapest Ferenc Liszt International Airport | Hungary



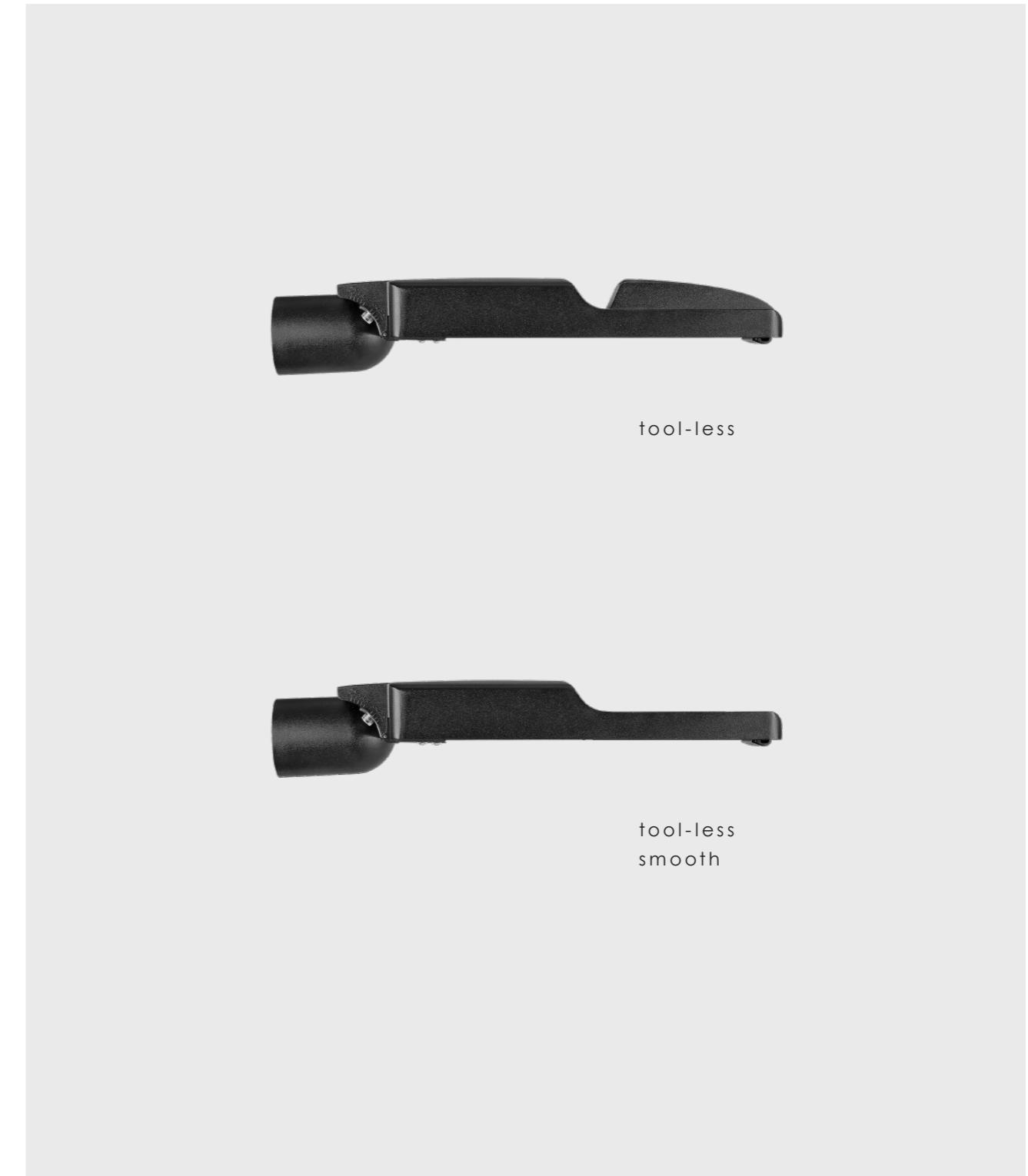
Budapest Ferenc Liszt International Airport | Hungary

# Mini martin



with fins

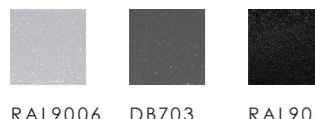
smooth



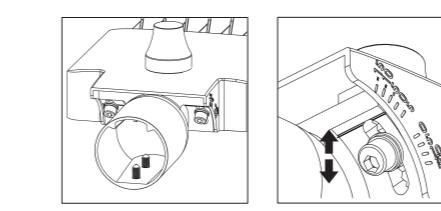
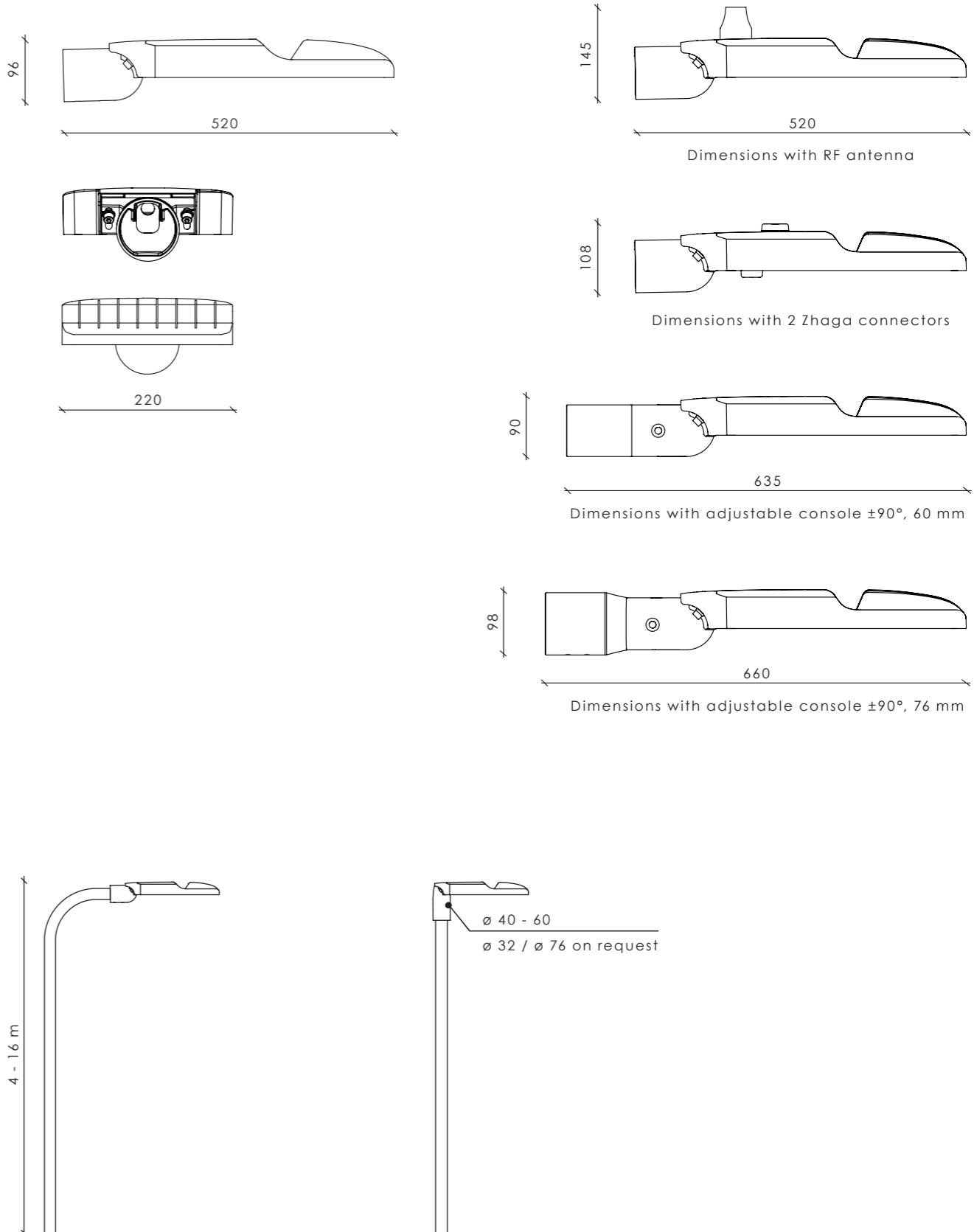
tool-less

tool-less  
smooth

# Mini martin with fins



Other colors available on request



## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 110	Warranty 5 years
lm	446 - 16000 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
lm/W	90 - 160	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
		Spigot: Ø 40 - 60, with accessories Ø 32; Ø 76
		Intelligent light control system: Radio frequency <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,036

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> Check SundaHus web page for product assessment results

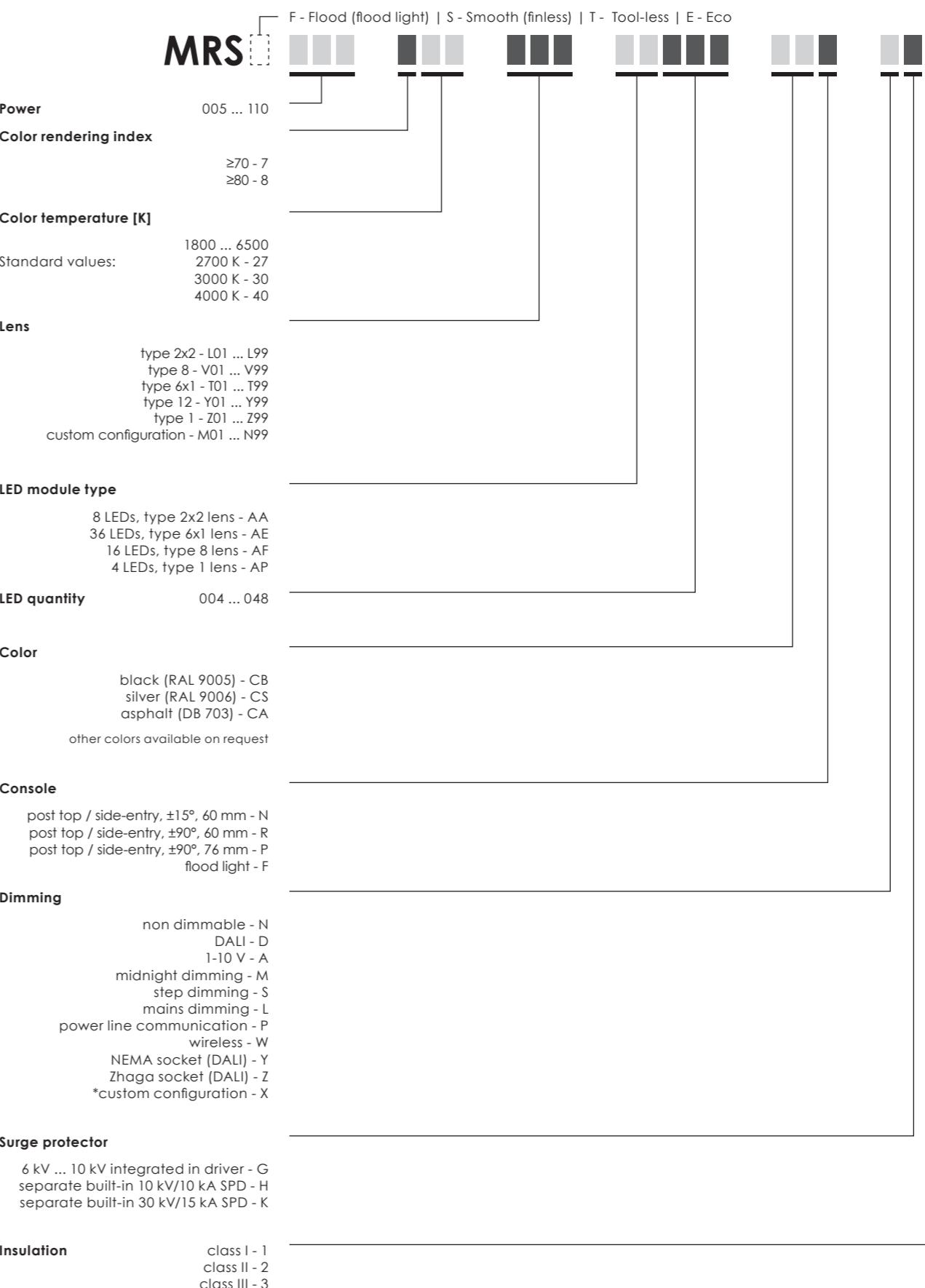
<sup>(9)</sup> IK09 - screw version with tempered unprinted glass

<sup>(10)</sup> 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 will reach 100 000 h L90/B10. 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

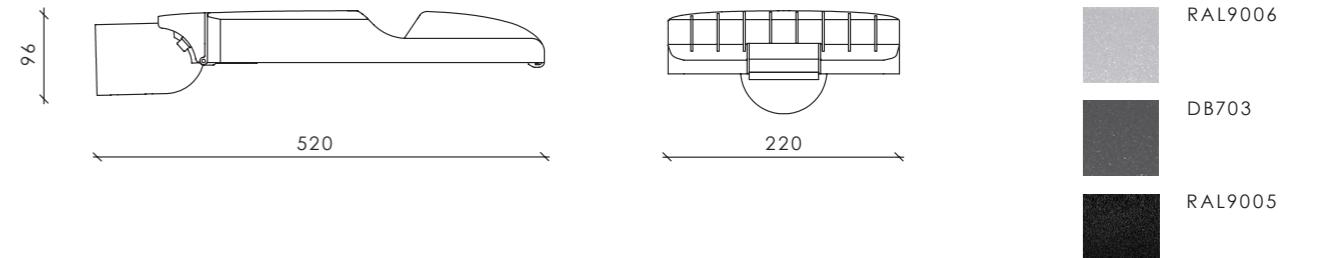
## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

# Mini martin tool-less



Other colors available on request

## Technical information



<b>V</b>	198 - 264	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 110	Warranty 5 years
<b>lm</b>	446 - 16000 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
<b>lm/W</b>	90 - 160	100 000 h (L95B10C10) <sup>(5)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
<b>°C</b>	-40 to +50	Spigot: ø 40 - 60, with accessories ø 32; ø 76
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Intelligent light control system: Radio frequency <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,036

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> Check SundaHus web page for product assessment results

<sup>(9)</sup> IK09 - screw version with tempered unprinted glass

<sup>(10)</sup> 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 will reach 100 000 h L90/B10. 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

<b>Number of LED's</b>	4			8			12		
<b>Nominal current, mA</b>	270	500	730	140	540	700	280	500	670
<b>Power, W</b>	5	8	11	5	15	19	12	20	26
<b>Luminous Flux, lm</b>	520	920	1300	560	2000	2500	1650	2800	3550
<b>Efficacy, lm/W</b>	104	115	118	112	133	132	138	140	137
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,90	0,94	0,85	0,95	0,97

<b>Number of LED's</b>	16			24		
<b>Nominal current, mA</b>	280	500	680	260	470	700
<b>Power, W</b>	15	25	35	20	35	52
<b>Luminous Flux, lm</b>	2150	3630	5000	3060	5300	7300
<b>Efficacy, lm/W</b>	143	145	143	153	151	140
<b>Power factor, PF</b>	0,90	0,97	0,97	0,86	0,94	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

<b>Number of LED's</b>	16			32			48		
<b>Nominal current, mA</b>	280	480	760	290	500	760	270	500	750
<b>Power, W</b>	15	25	39	29	50	75	40	75	110
<b>Luminous Flux, lm</b>	2150	3540	5300	4600	7600	10600	6400	11200	16000
<b>Efficacy, lm/W</b>	143	142	136	159	152	141	160	149	145
<b>Power factor, PF</b>	0,83	0,93	0,98	0,82	0,93	0,97	0,98	0,97	0,97

Luminaire efficacy	2700 K	15 - 110 W	1850 - 13600 lm	115 - 137 lm/W
	3000 K	15 - 110 W	2000 - 15000 lm	126 - 150 lm/W
	5000 K	15 - 110 W	2150 - 16000 lm	136 - 160 lm/W
	5700 K	15 - 110 W	2150 - 16000 lm	136 - 160 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

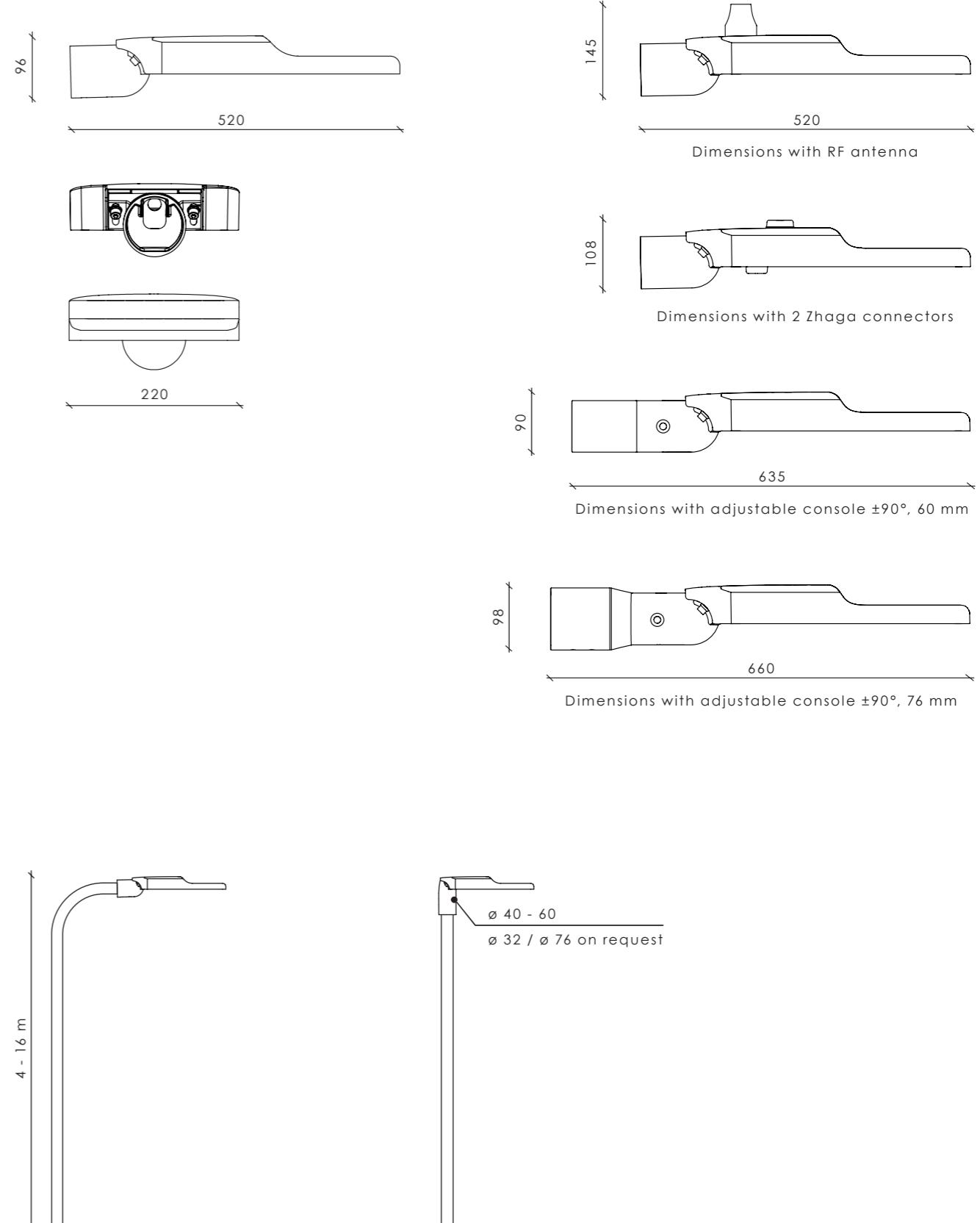
<b>Number of LED's</b>	8			16			24		
<b>Nominal current, mA</b>	280	470	700	280	490	710	270	470	710
<b>Power, W</b>	15	25	38	28	50	75	40	70	110
<b>Luminous Flux, lm</b>	2100	3400	4700	4200	6800	9300	6200	9700	13500
<b>Efficacy, lm/W</b>	140	136	124	150	136	124	155	139	123
<b>Power factor, PF</b>	0,90	0,97	0,98	0,95	0,93	0,97	0,95	0,97	0,97

Luminaire efficacy	2700 K	15 - 110 W	1975 - 12600 lm	116 - 144 lm/W
	3000 K	15 - 110 W	2100 - 13500 lm	123 - 154 lm/W
	5000 K	15 - 110 W	2100 - 13500 lm	123 - 155 lm/W
	5700 K	15 - 110 W	2100 - 13500 lm	123 - 155 lm/W

# Mini martin smooth



RAL9006 DB703 RAL9005  
Other colors available on request



## Technical information



**V** 198 - 264

**Hz** 50 - 60

**W** 5 - 75

**lm** 446 - 11200<sup>(1)</sup>

**lm/W** 90 - 160

**K** 2700 / 3000 / 4000<sup>(2)</sup>

**°C** -40 to +50

**CRI** >70 / >80<sup>(3)</sup>

1 - 10 V; DALI; Midnight dimming

Chromaticity tolerance (initial MacAdam): 5

Warranty 5 years

100 000 h (L80B10C10)<sup>(4)</sup>

100 000 h (L95B10C10)<sup>(5)</sup>

Surge protection: 3; 6; 10 kV (optional)<sup>(6)</sup>

Spigot: Ø 40 - 60, with accessories Ø 32; Ø 76

Intelligent light

control system: Radio frequency<sup>(7)</sup>

Socket: Zhaga / NEMA

Body: Die-cast aluminium

Max. wind load

area, SCd, m<sup>2</sup>: 0,036

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> Check SundaHus web page for product assessment results

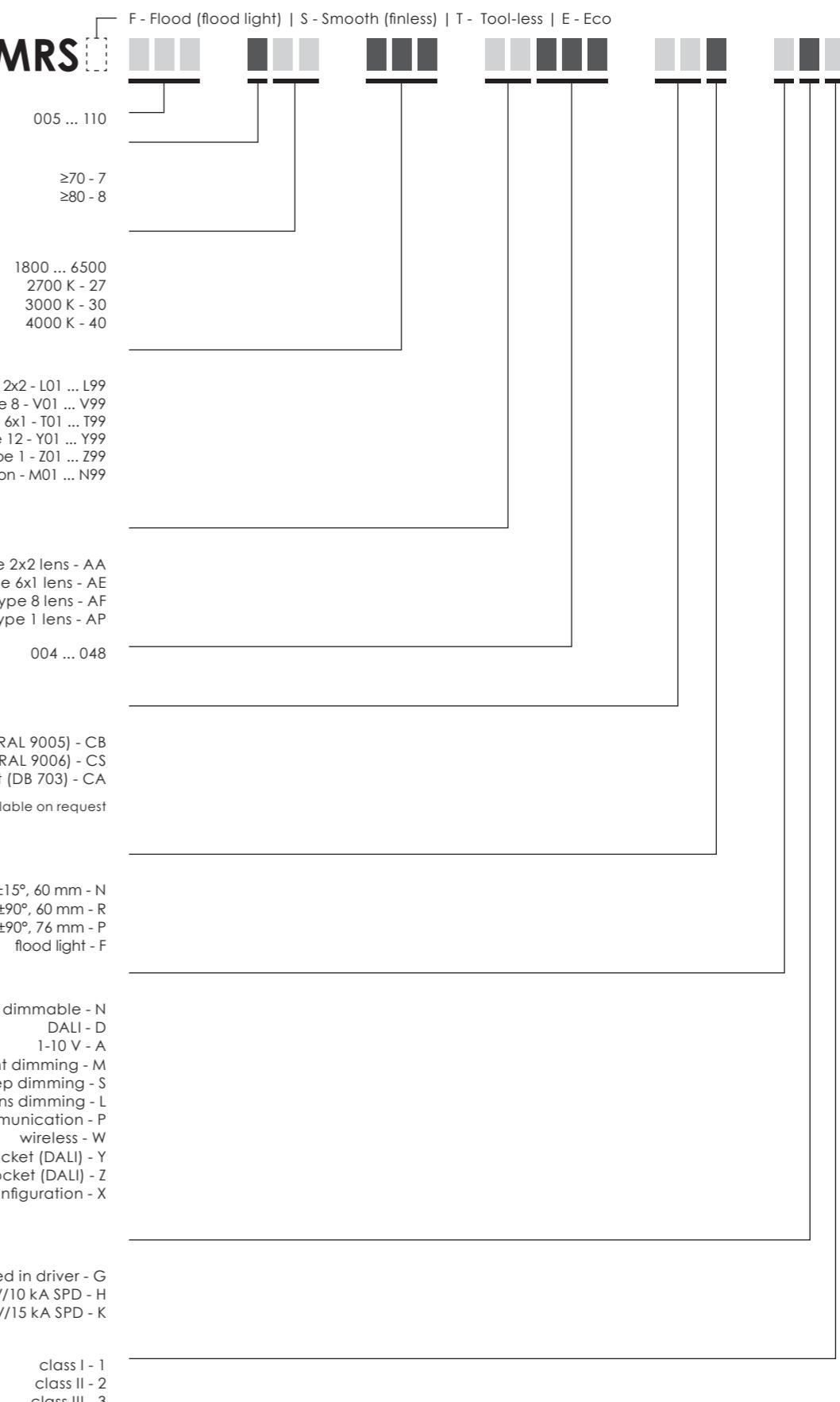
<sup>(9)</sup> IK09 - screw version with tempered unprinted glass

<sup>(10)</sup> 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 will reach 100 000 h L90/B10. 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

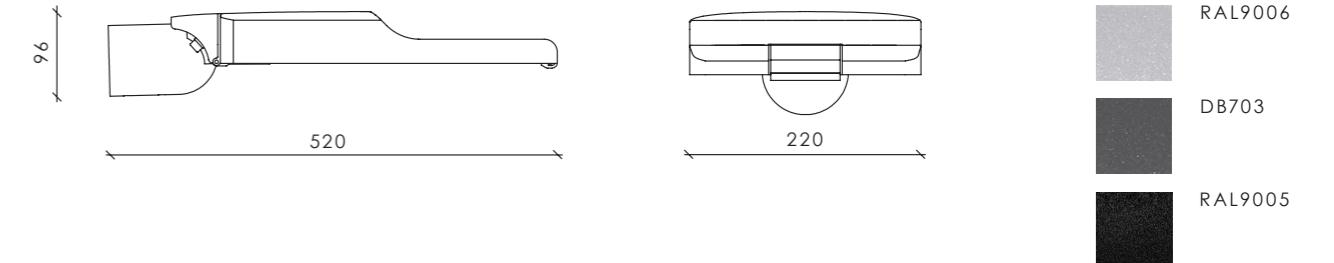
## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

# Mini martin tool-less smooth



Other colors  
available on request

## Technical information



<b>V</b>	198 - 264	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 75	Warranty 5 years
<b>lm</b>	446 - 11200 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
<b>lm/W</b>	90 - 160	100 000 h (L95B10C10) <sup>(5)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
<b>°C</b>	-40 to +50	Spigot: ø 40 - 60, with accessories ø 32; ø 76
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Intelligent light control system: Radio frequency <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,036

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> Check SundaHus web page for product assessment results

<sup>(9)</sup> IK09 - screw version with tempered unprinted glass

<sup>(10)</sup> 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 will reach 100 000 h L90/B10. 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

<b>Number of LED's</b>	4			8			12		
<b>Nominal current, mA</b>	270	500	730	140	540	700	280	500	670
<b>Power, W</b>	5	8	11	5	15	19	12	20	26
<b>Luminous Flux, lm</b>	520	920	1300	560	2000	2500	1650	2800	3550
<b>Efficacy, lm/W</b>	104	115	118	112	133	132	138	140	137
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,90	0,94	0,85	0,95	0,97

<b>Number of LED's</b>	16			24		
<b>Nominal current, mA</b>	280	500	680	260	470	700
<b>Power, W</b>	15	25	35	20	35	52
<b>Luminous Flux, lm</b>	2150	3630	5000	3060	5300	7300
<b>Efficacy, lm/W</b>	143	145	143	153	151	140
<b>Power factor, PF</b>	0,90	0,97	0,97	0,86	0,94	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

<b>Number of LED's</b>	16			32			48		
<b>Nominal current, mA</b>	280	480	760	290	500	760	270	380	500
<b>Power, W</b>	15	25	39	29	50	75	40	55	75
<b>Luminous Flux, lm</b>	2150	3540	5300	4600	7600	10600	6400	8500	11200
<b>Efficacy, lm/W</b>	143	142	136	159	152	141	160	155	149
<b>Power factor, PF</b>	0,83	0,93	0,98	0,82	0,93	0,97	0,98	0,94	0,97

Luminaire efficacy	2700 K	15 - 75 W	1850 - 9600 lm	115 - 137 lm/W
	3000 K	15 - 75 W	2000 - 10500 lm	126 - 150 lm/W
	5000 K	15 - 75 W	2150 - 11200 lm	136 - 160 lm/W
	5700 K	15 - 75 W	2150 - 11200 lm	136 - 160 lm/W

**ECO**

\* 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>	280	470	700	280	490	710	270	400	500
<b>Power, W</b>	15	25	38	28	50	75	40	60	75
<b>Luminous Flux, lm</b>	2100	3400	4700	4200	6800	9300	6200	8620	10300
<b>Efficacy, lm/W</b>	140	136	124	150	136	124	155	144	137
<b>Power factor, PF</b>	0,90	0,97	0,98	0,95	0,93	0,97	0,95	0,95	0,97

Luminaire efficacy	2700 K	15 - 75 W	1975 - 9600 lm	116 - 144 lm/W
	3000 K	15 - 75 W	2100 - 10300 lm	124 - 154 lm/W
	5000 K	15 - 75 W	2100 - 10300 lm	124 - 155 lm/W
	5700 K	15 - 75 W	2100 - 10300 lm	124 - 155 lm/W

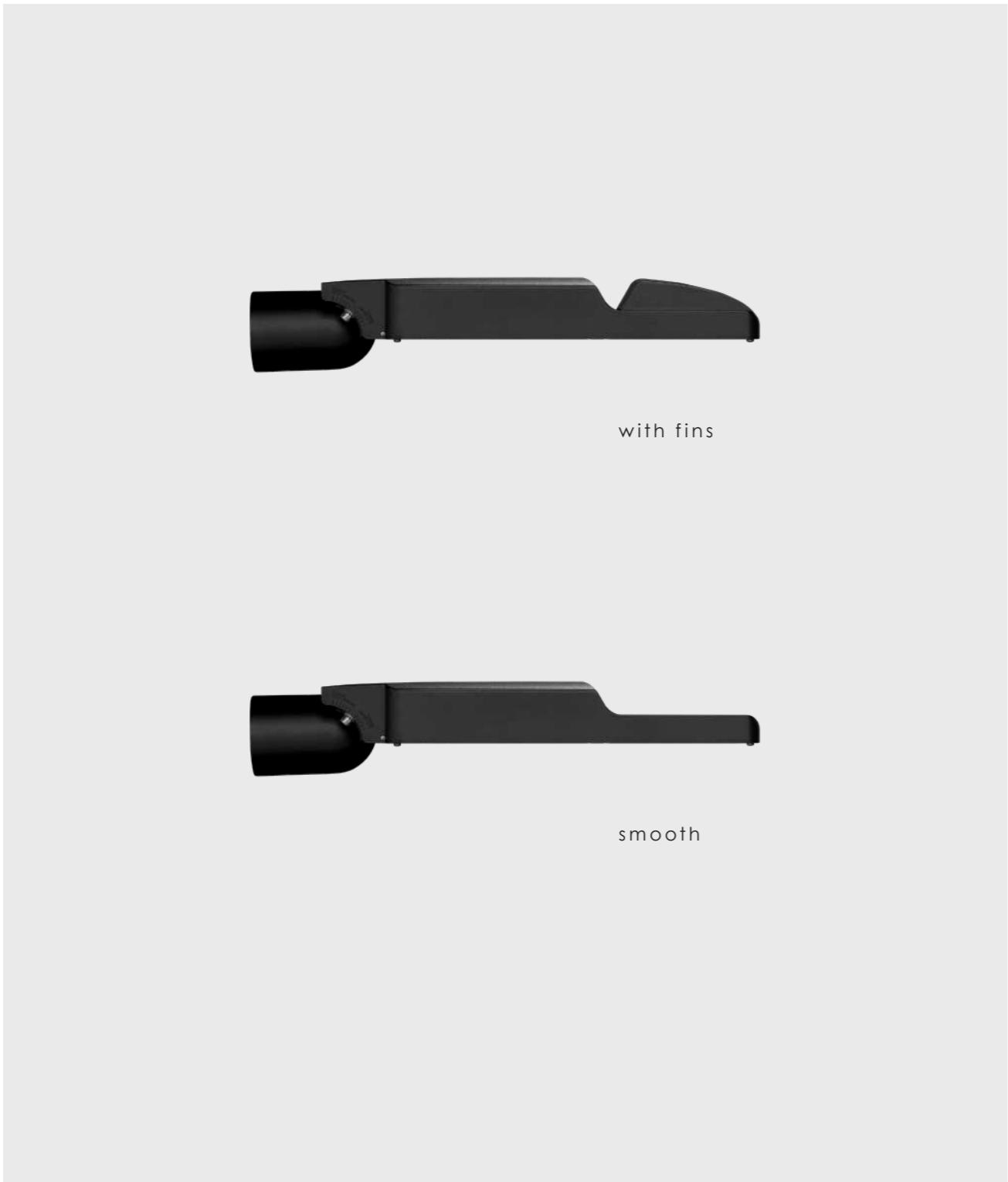


Reykjavik | Iceland

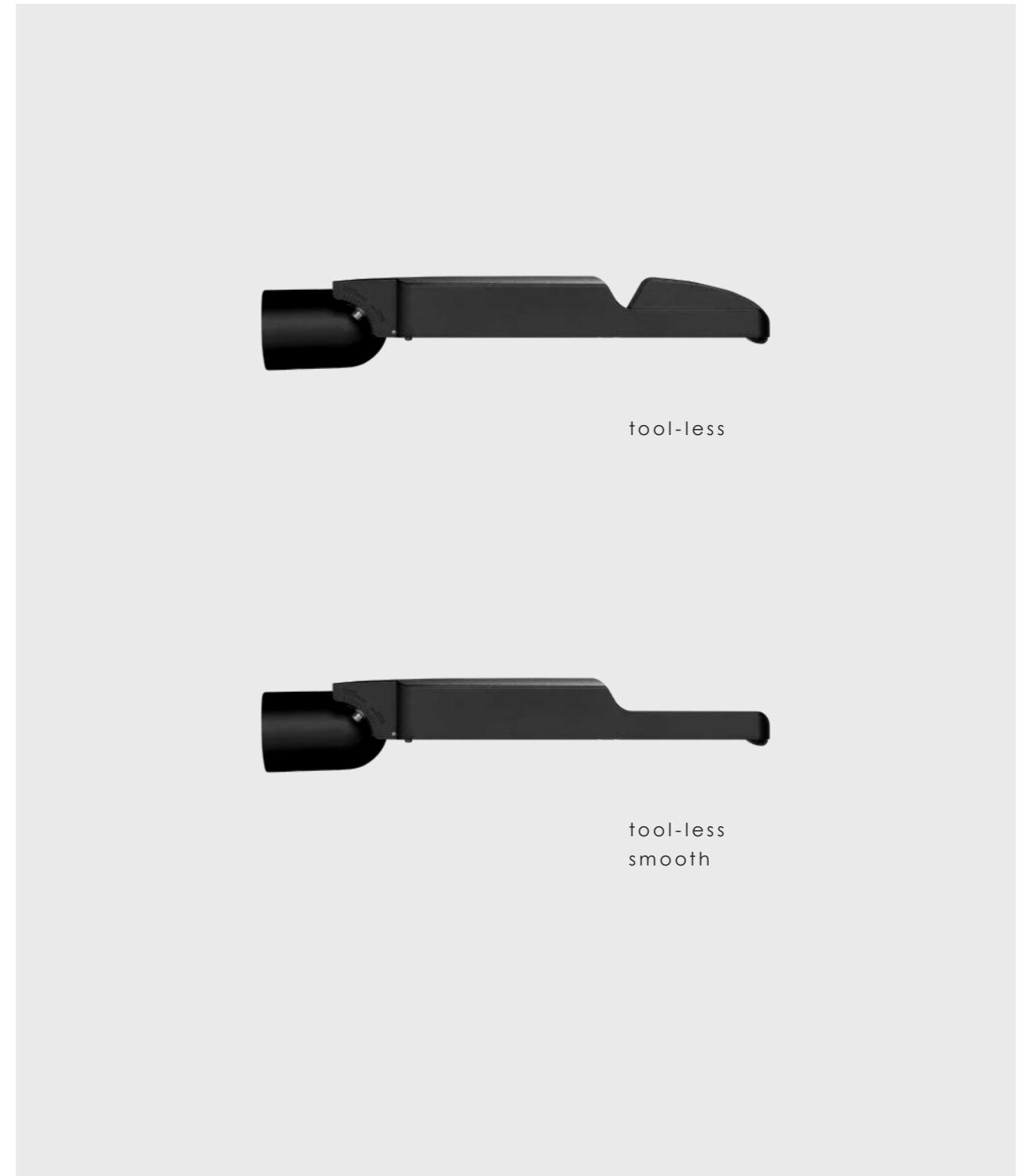


Hestheimar horse farm | Iceland

# Micro martin



with fins



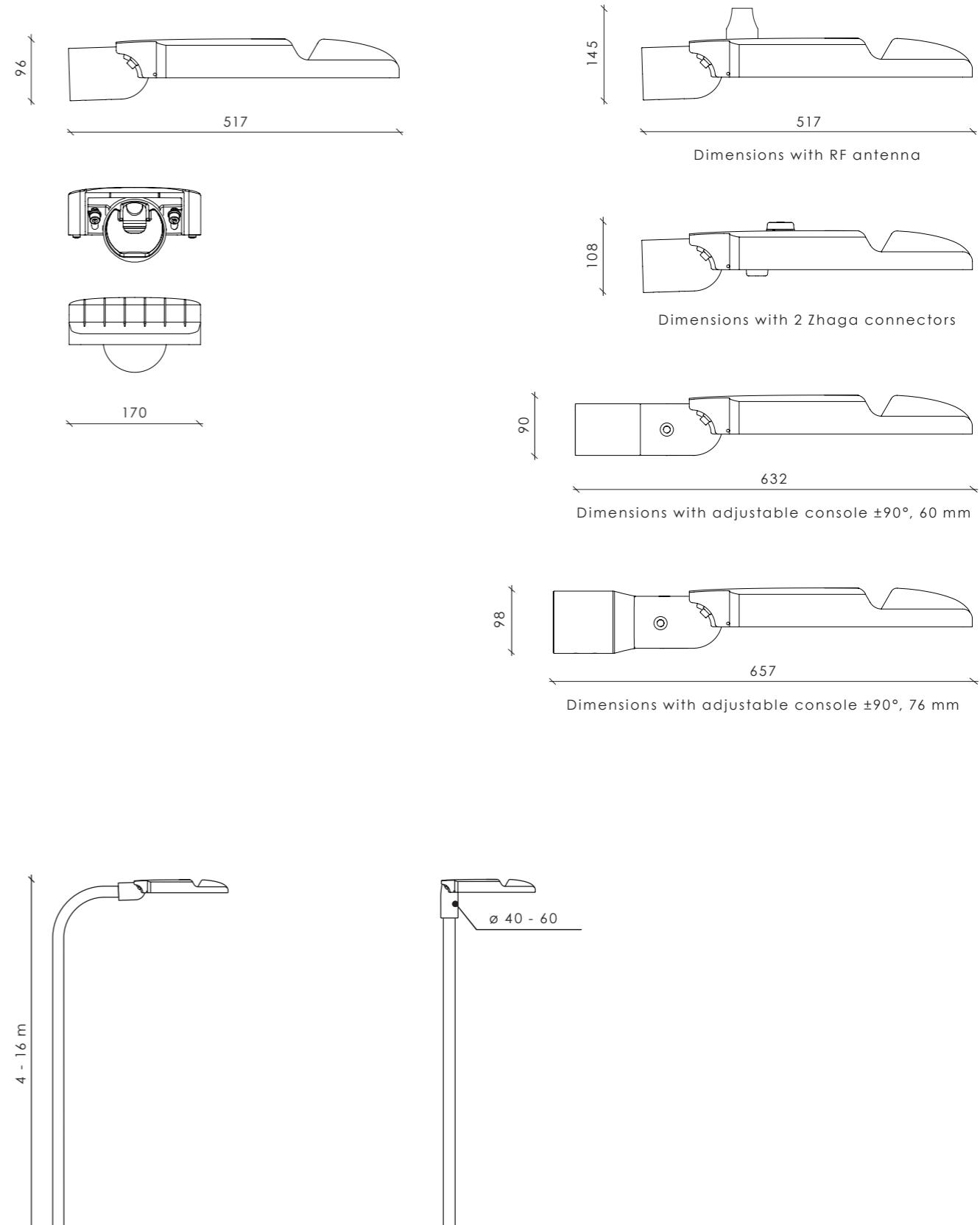
tool-less

smooth  
smooth

# Micro martin with fins



Other colors available on request



## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 75	Warranty 5 years
lm	446 - 10400 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C
lm/W	90 - 160	100 000 h (L80B10C10) <sup>(4)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6 kV / separate built-in 10 kV
		Spigot: Ø 40 - 60 mm
		Intelligent light control system: Radio frequency <sup>(5)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,037

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(6)</sup> Check SundaHus web page for product assessment results

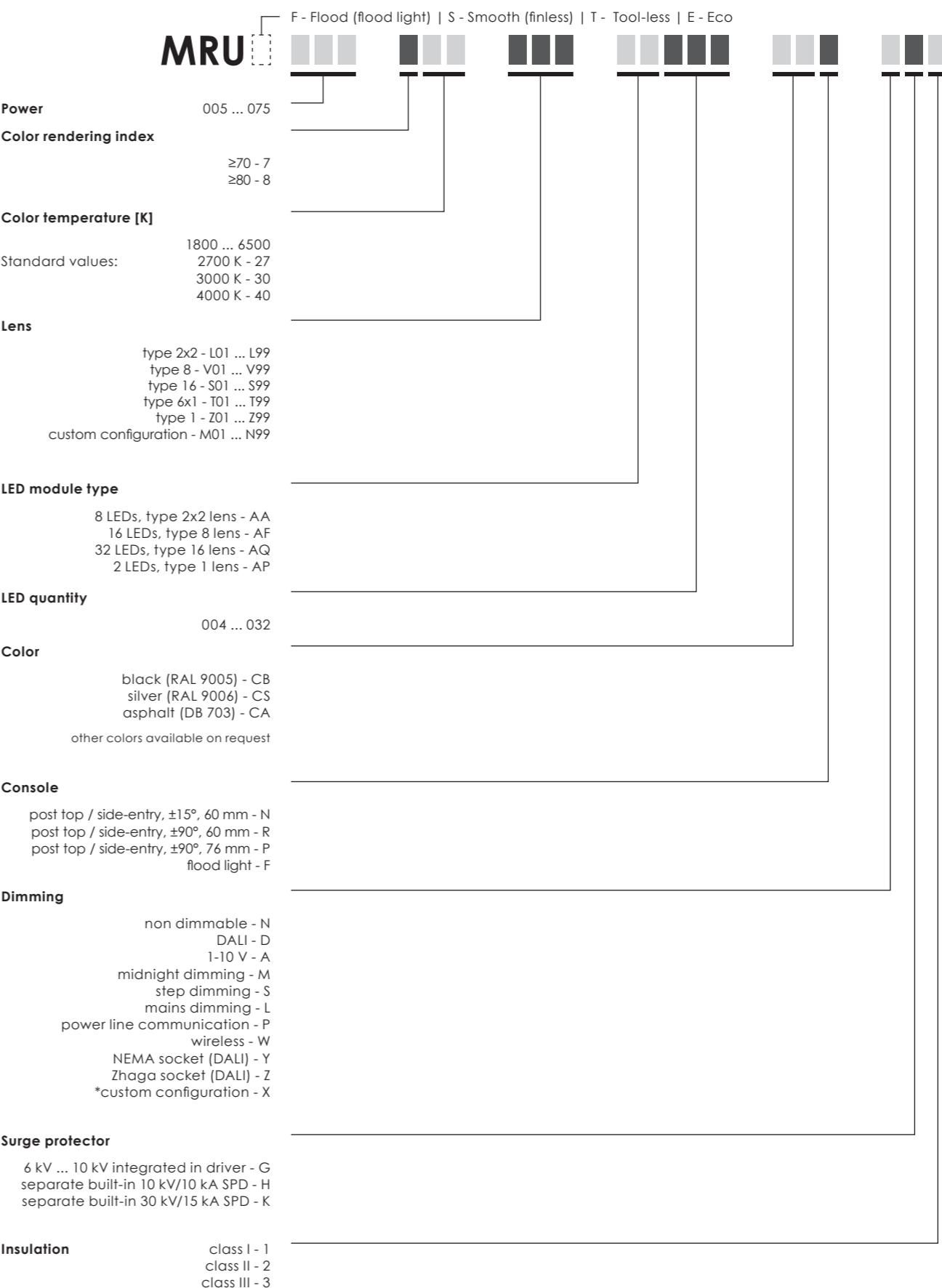
<sup>(7)</sup> IK09 - screw version with tempered unprinted glass

<sup>(8)</sup> 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 will reach 100 000 h L90/B10. 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

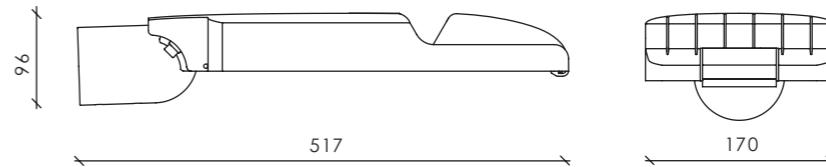
## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

# Micro martin tool-less



Other colors available on request

## Technical information



<b>V</b>	198 - 264	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 75	Warranty 5 years
<b>Im</b>	446 - 10400 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C
<b>Im/W</b>	90 - 160	100 000 h (L80B10C10) <sup>(4)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 6 kV / separate built-in 10 kV
<b>°C</b>	-40 to +50	Spigot: Ø 40 - 60 mm
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Intelligent light control system: Radio frequency <sup>(5)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,037

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(6)</sup> Check SundaHus web page for product assessment results

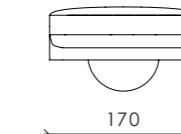
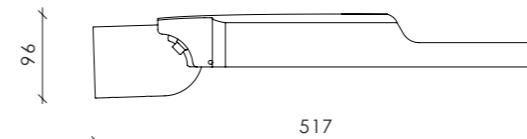
<sup>(7)</sup> IK09 - screw version with tempered unprinted glass

<sup>(8)</sup> 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 will reach 100 000 h L90/B10. 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

# Micro martin smooth



Other colors available on request

## Technical information



<b>V</b>	198 - 264	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 75	Warranty 5 years
<b>Im</b>	446 - 10400 <sup>①</sup>	100 000 h (L95B10) at Ta = 25 °C
<b>Im/W</b>	90 - 160	100 000 h (L80B10C10) <sup>④</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>②</sup>	Surge protection: 6 kV / separate built-in 10 kV
<b>°C</b>	-40 to +50 (5 - 50 W version) -40 to +35 (50 - 75 W version)	Spigot: Ø 40 - 60 mm
<b>CRI</b>	>70 / >80 <sup>③</sup>	Intelligent light control system: Radio frequency <sup>⑤</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,037

<sup>①</sup> Lumen output indicated at CRI > 70

<sup>②</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>③</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>④</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>⑤</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>⑥</sup> Check SundaHus web page for product assessment results

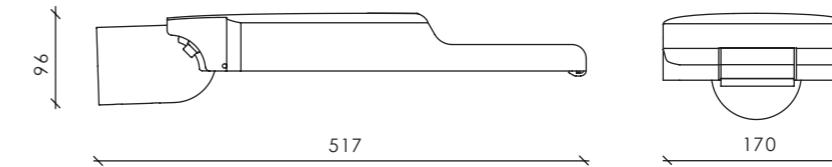
<sup>⑦</sup> IK09 - screw version with tempered unprinted glass

<sup>⑧</sup> 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 will reach 100 000 h L90/B10. 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

# Micro martin tool-less smooth



Other colors available on request

## Technical information



<b>V</b>	198 - 264	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 75	Warranty 5 years
<b>lm</b>	446 - 10400 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C
<b>lm/W</b>	90 - 160	100 000 h (L80B10C10) <sup>(4)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 6 kV / separate built-in 10 kV
<b>°C</b>	-40 to +50 (5 - 50 W version) -40 to +35 (50 - 75 W version)	Spigot: Ø 40 - 60 mm
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Intelligent light control system: Radio frequency <sup>(5)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,037

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(6)</sup> Check SundaHus web page for product assessment results

<sup>(7)</sup> IK09 - screw version with tempered unprinted glass

<sup>(8)</sup> 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 will reach 100 000 h L90/B10. 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

<b>Number of LED's</b>	4			8			12			16		
<b>Nominal current, mA</b>	270	500	730	140	540	700	280	500	670	280	500	760
<b>Power, W</b>	5	8	11	5	15	19	12	20	26	15	25	39
<b>Luminous Flux, lm</b>	520	920	1300	560	2000	2500	1650	2800	3550	2180	3630	5400
<b>Efficacy, lm/W</b>	104	115	118	112	133	132	138	140	137	145	145	138
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,90	0,94	0,85	0,95	0,97	0,90	0,97	0,98

Luminaire efficacy	2700 K	5 - 39 W	446 - 4600 lm	90 - 127 lm/W
	3000 K	5 - 39 W	490 - 5100 lm	98 - 137 lm/W
	5000 K	5 - 39 W	520 - 5400 lm	104 - 145 lm/W
	5700 K	5 - 39 W	520 - 5400 lm	104 - 145 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			8			12			16		
<b>Nominal current, mA</b>	140	490	670	280	470	700	280	490	720	280	490	720
<b>Power, W</b>	5	14	19	15	25	38	28	50	75	28	50	75
<b>Luminous Flux, lm</b>	560	1720	2250	2100	3400	4700	4200	6800	9300	4200	6800	9300
<b>Efficacy, lm/W</b>	112	123	118	140	136	124	150	136	124	150	136	124
<b>Power factor, PF</b>	0,69	0,89	0,94	0,90	0,97	0,98	0,95	0,93	0,97	0,98	0,95	0,97

Luminaire efficacy	2700 K	5 - 75 W	523 - 8700 lm	105 - 141 lm/W
	3000 K	5 - 75 W	560 - 9000 lm	112 - 148 lm/W
	5000 K	5 - 75 W	560 - 9300 lm	112 - 151 lm/W
	5700 K	5 - 75 W	560 - 9300 lm	112 - 151 lm/W

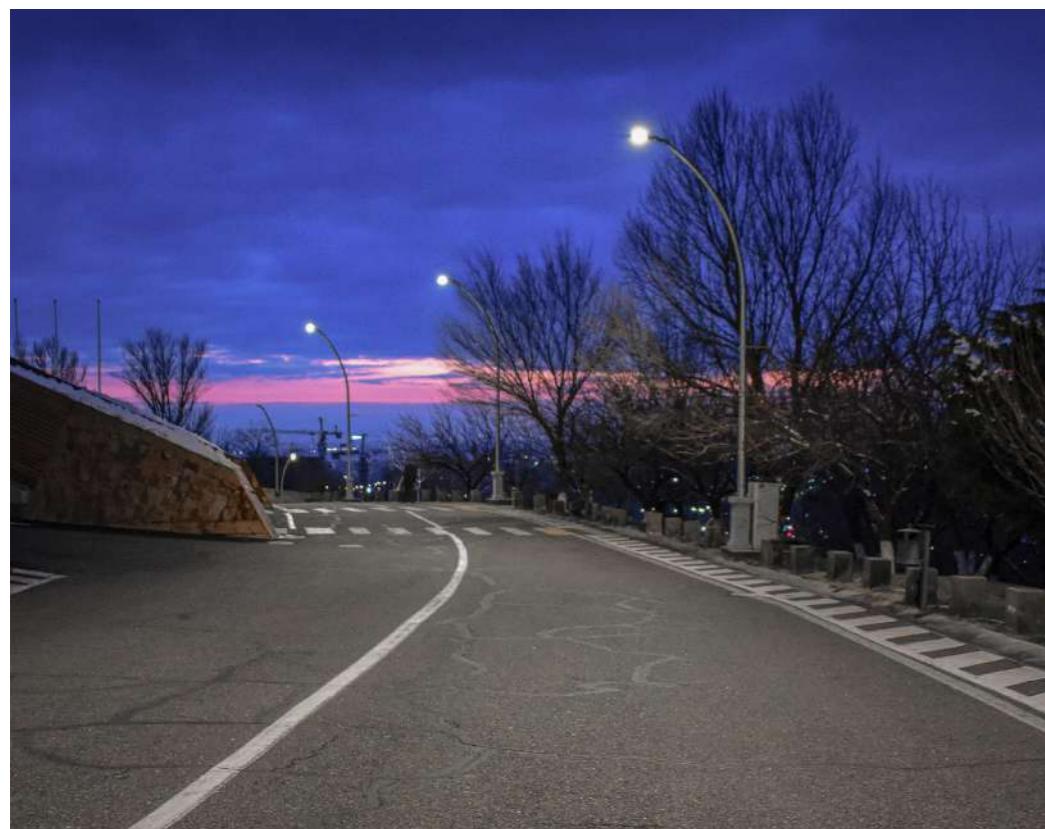
**High density  
modules**

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

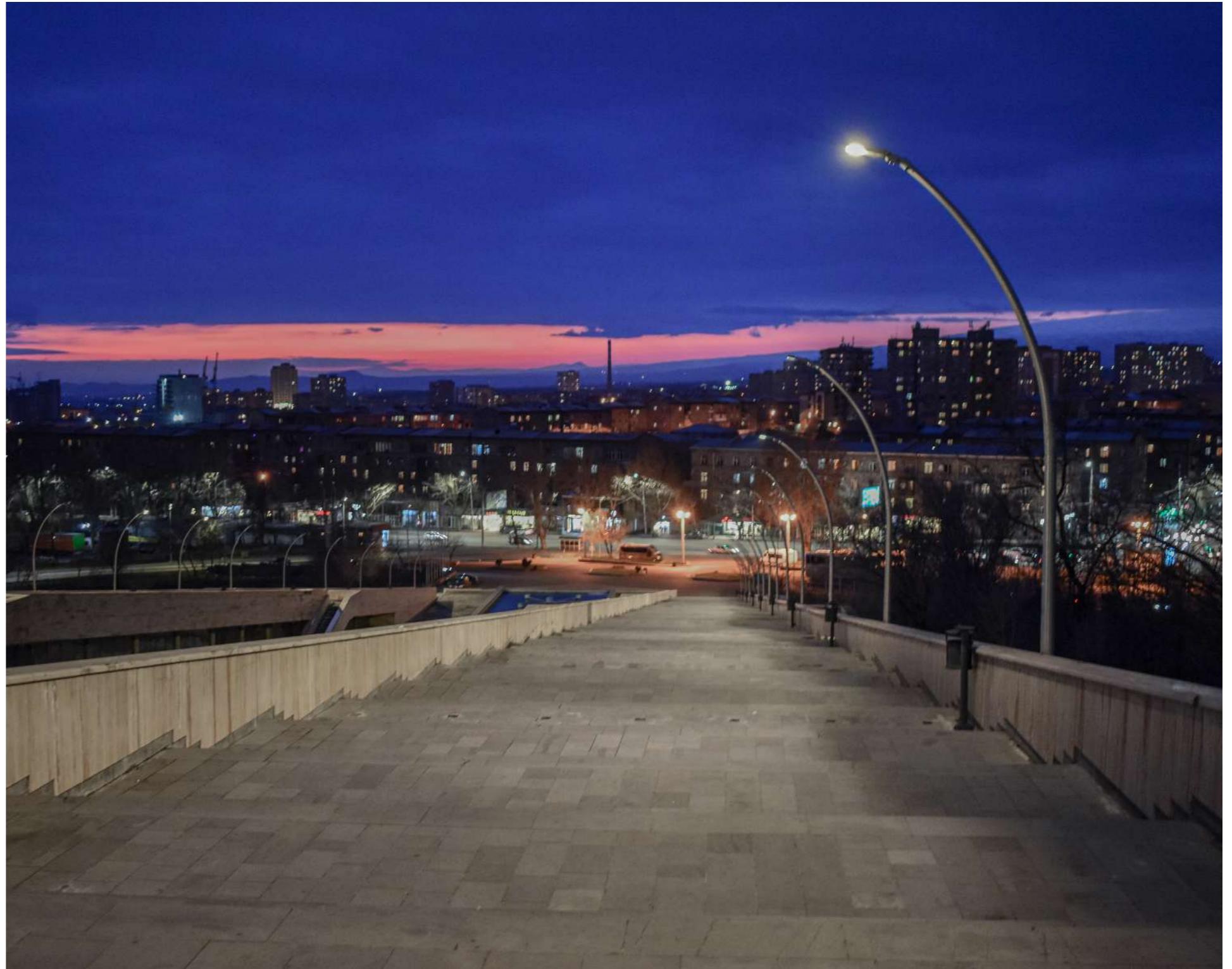
4000 K | CRI 70

<b>Number of LED's</b>	16			32		
<b>Nominal current, mA</b>	280	480	760	290	500	760
<b>Power, W</b>	15	25	39	29	50	75
<b>Luminous Flux, lm</b>	2150	3540	5300	4600	7600	10400
<b>Efficacy, lm/W</b>	143	142	136	159	152	139
<b>Power factor, PF</b>	0,83	0,93	0,98	0,82	0,93	0,97

Luminaire efficacy	2700 K	15 - 75 W	1850 - 8900 lm	115 - 137 lm/W
	3000 K	15 - 75 W	2000 - 9800 lm	126 - 150 lm/W
	5000 K	15 - 75 W	2150 - 10400 lm	136 - 160 lm/W
	5700 K	15 - 75 W	2150 - 10400 lm	136 - 160 lm/W



Yerevan | Armenia

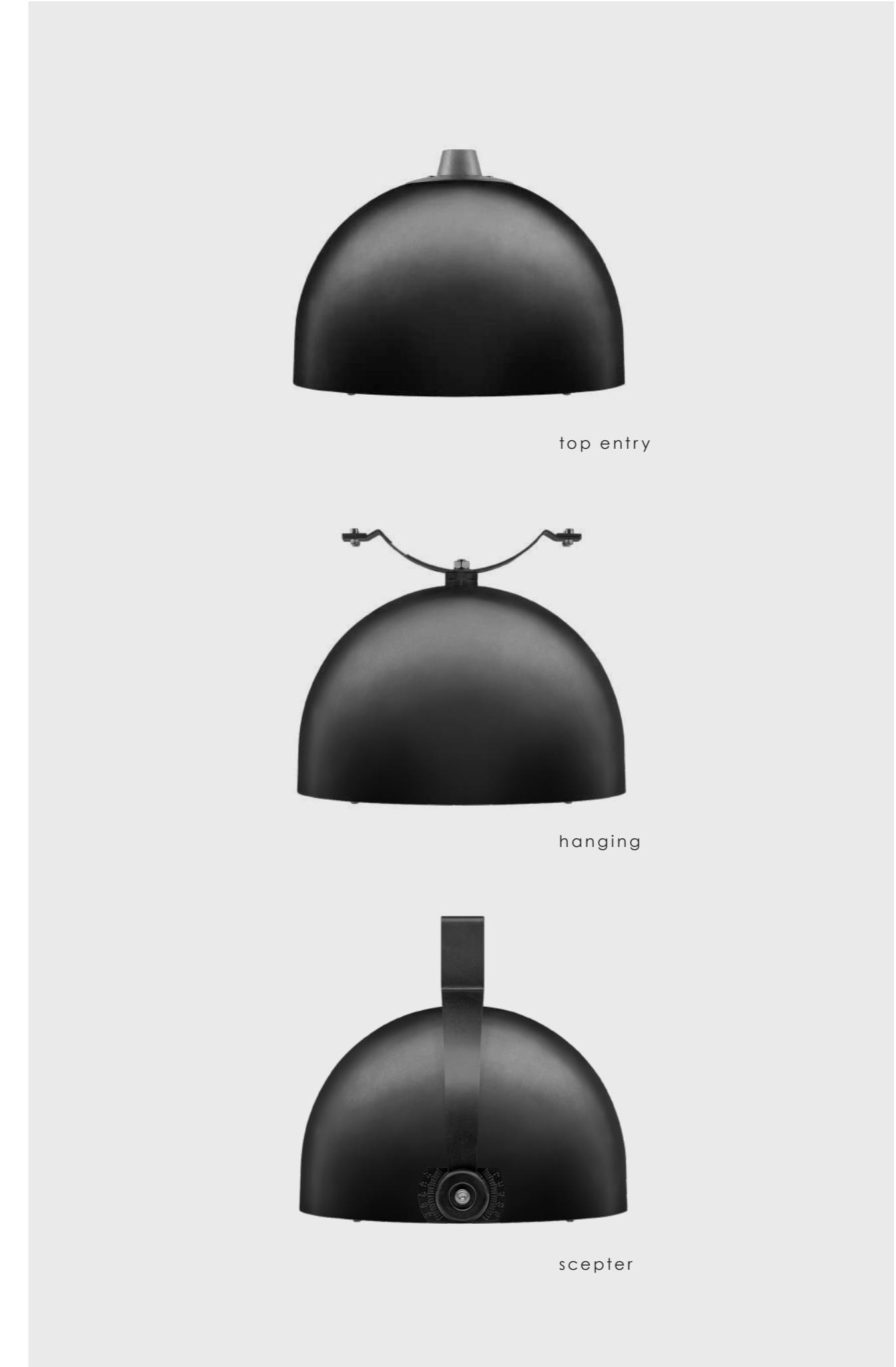


Yerevan | Armenia

# Blackbird

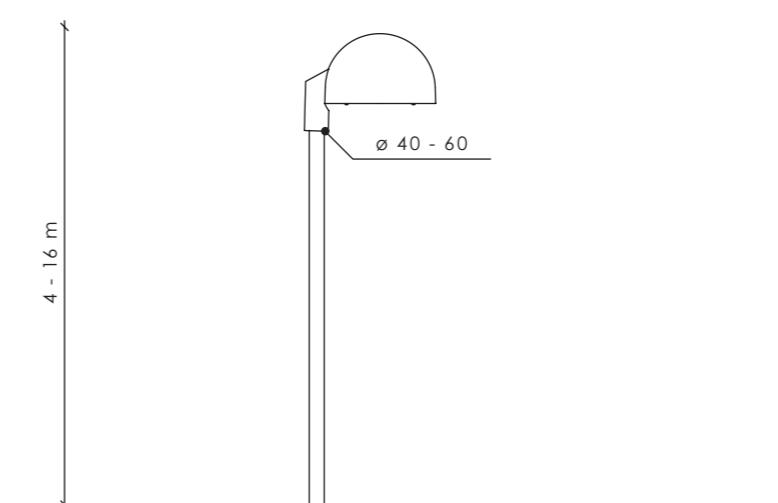
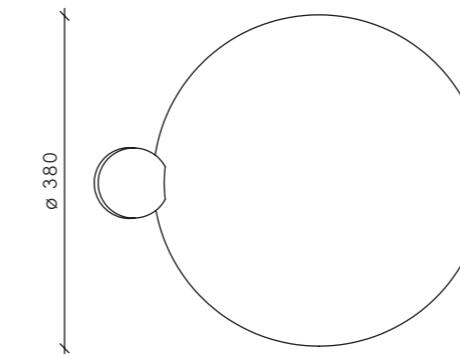
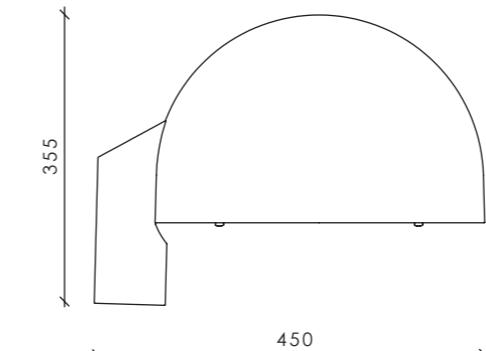


side-entry



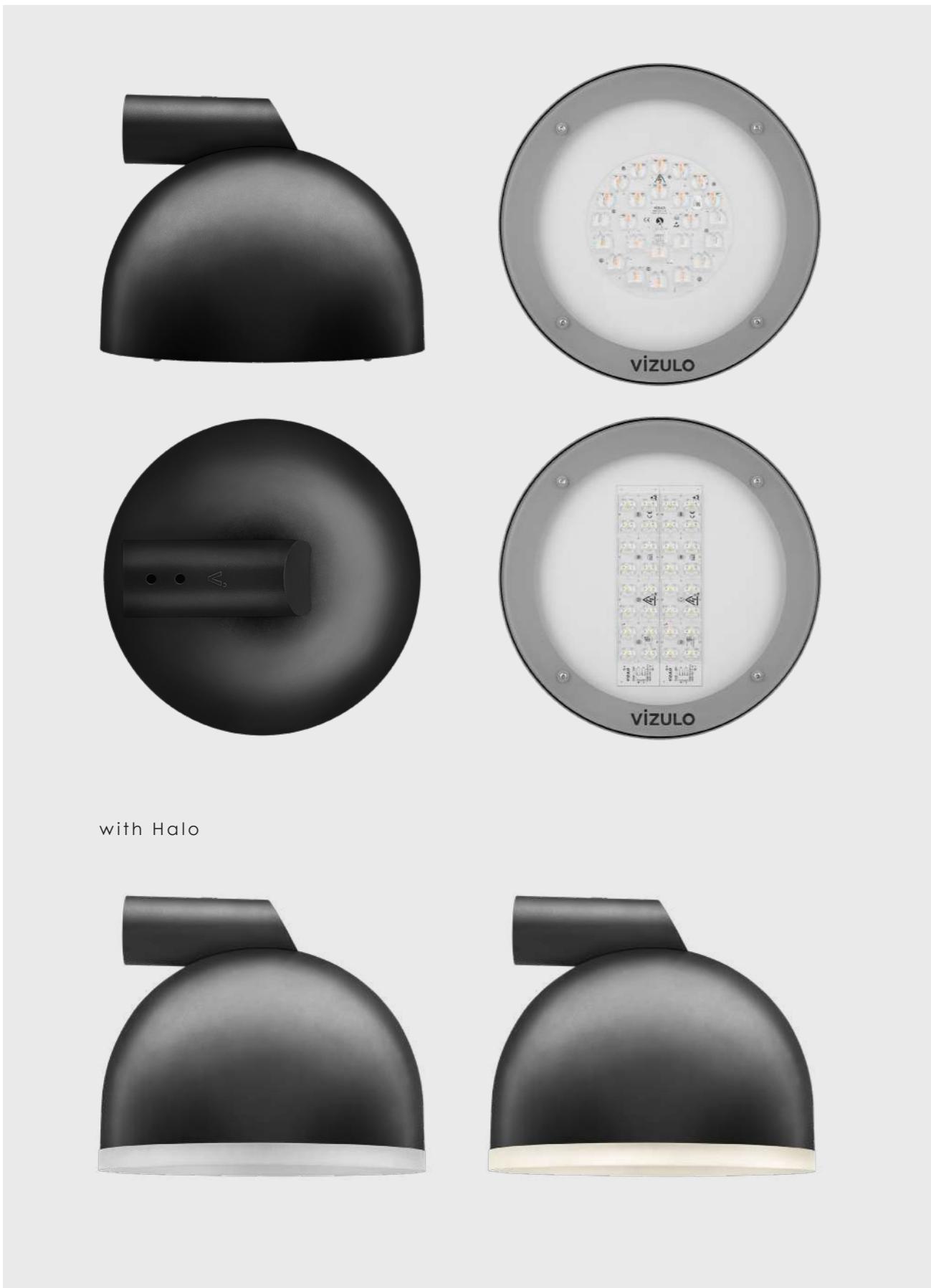
Street luminaires

# Blackbird post top

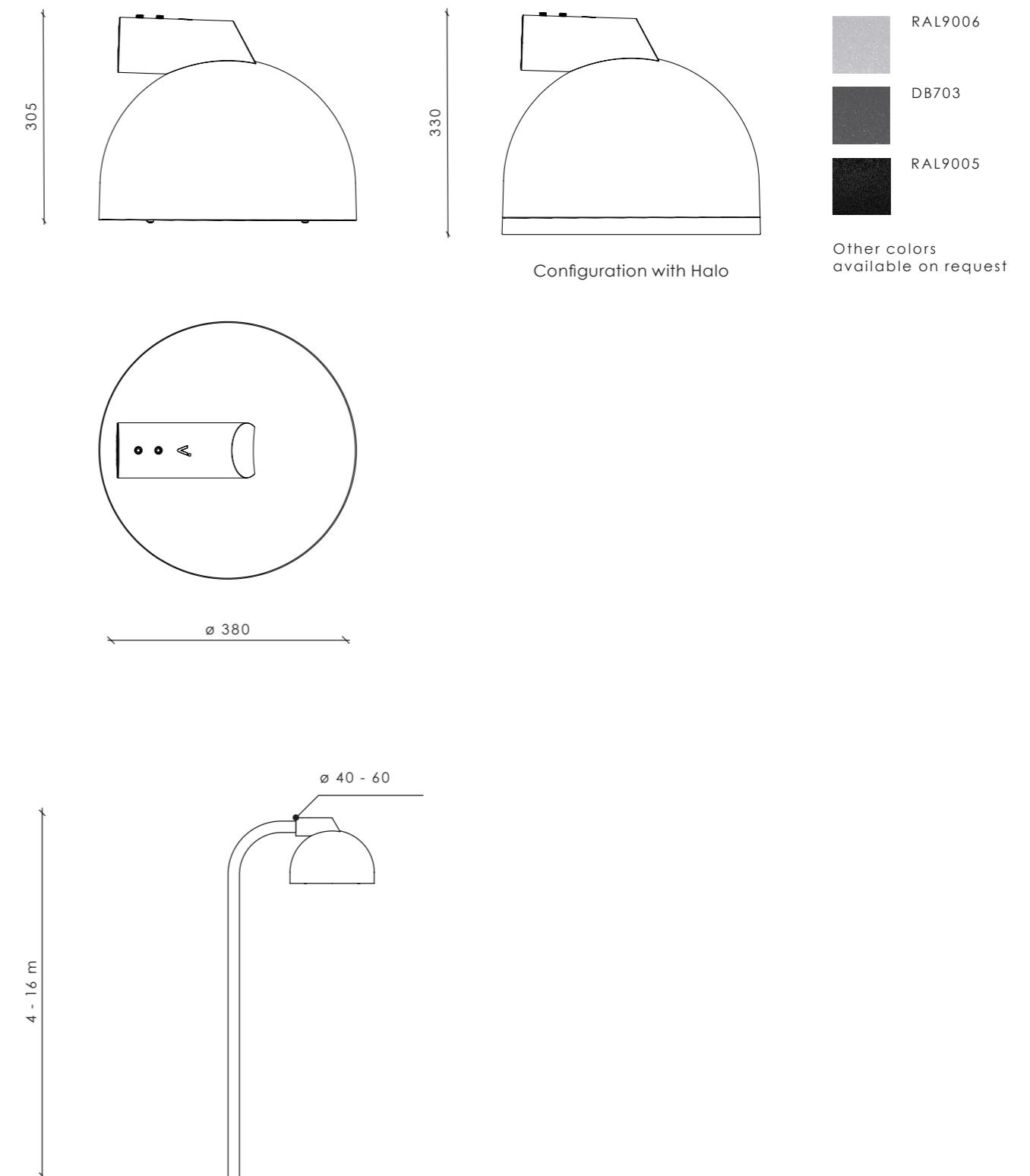


Other colors  
available on request

# Blackbird side-entry

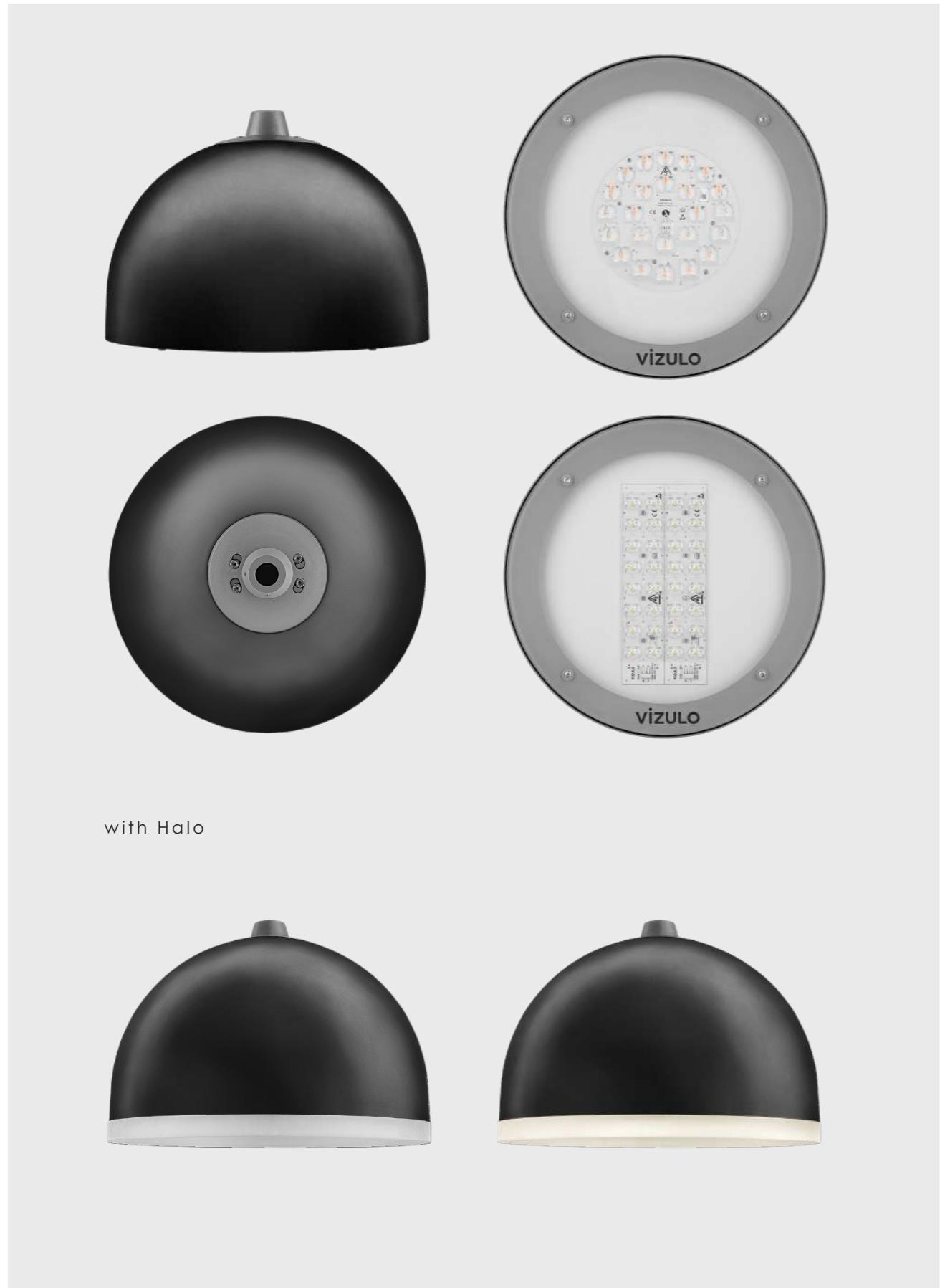


with Halo

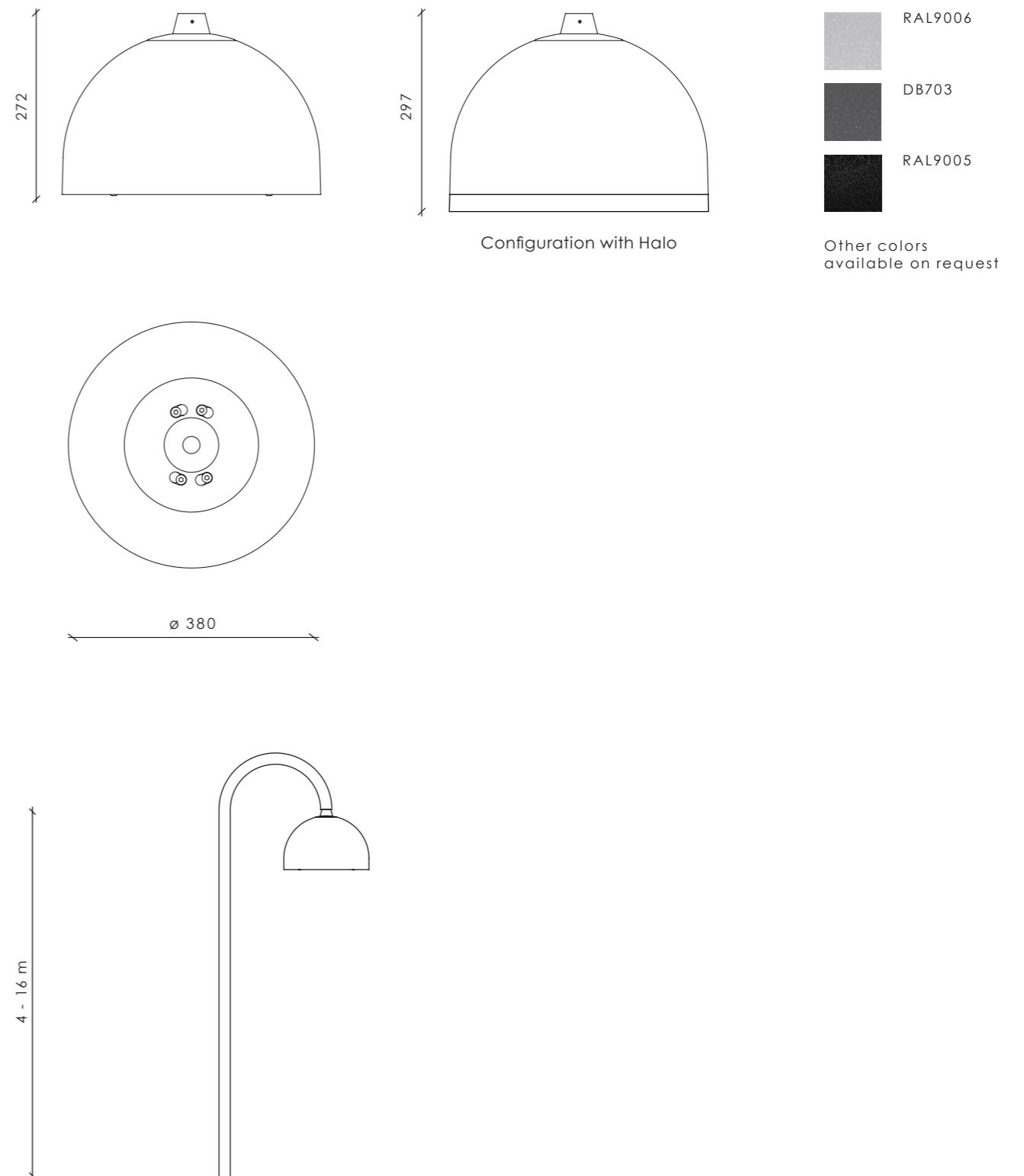


RAL9006  
DB703  
RAL9005  
Other colors available on request

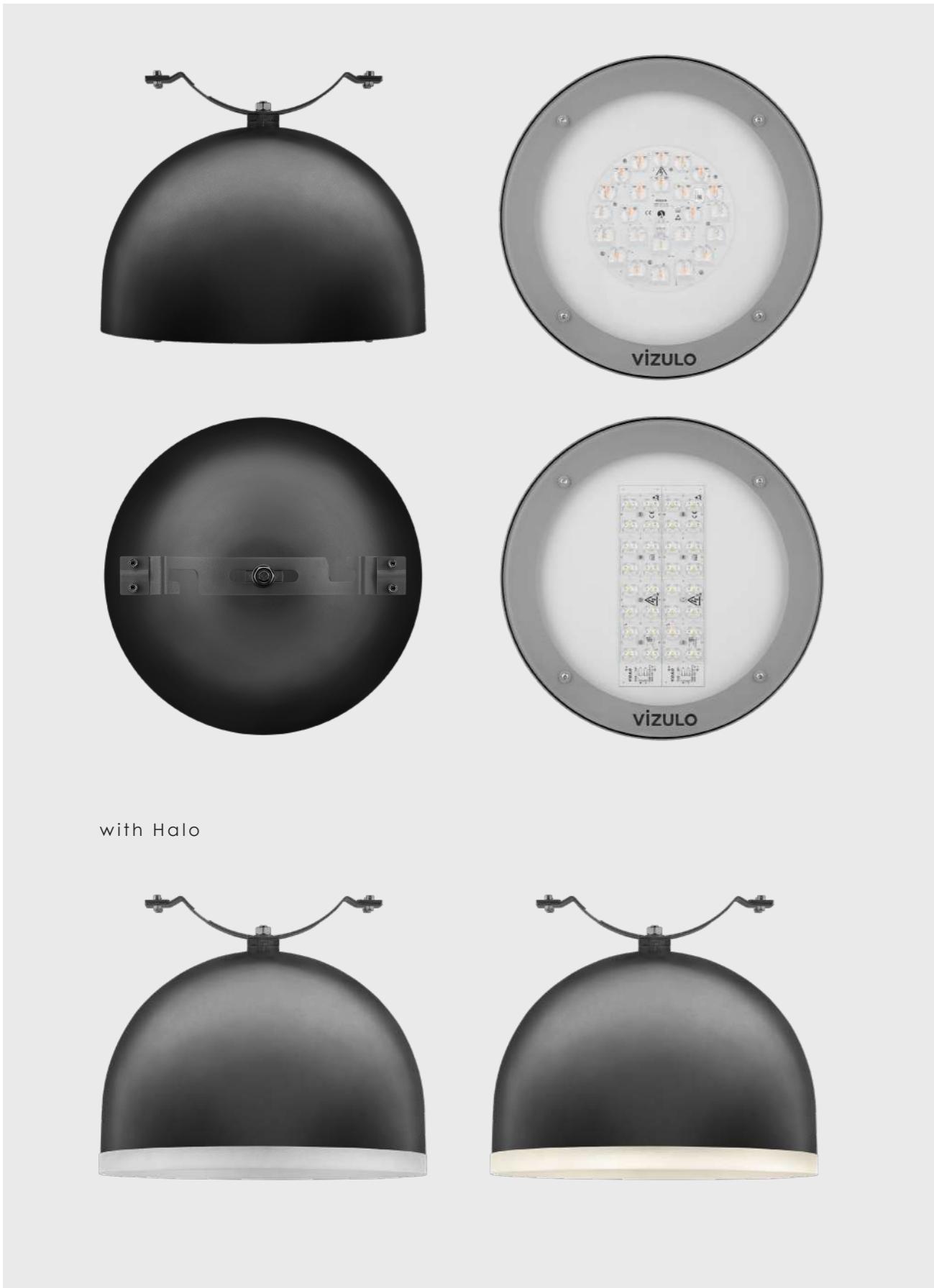
# Blackbird top entry



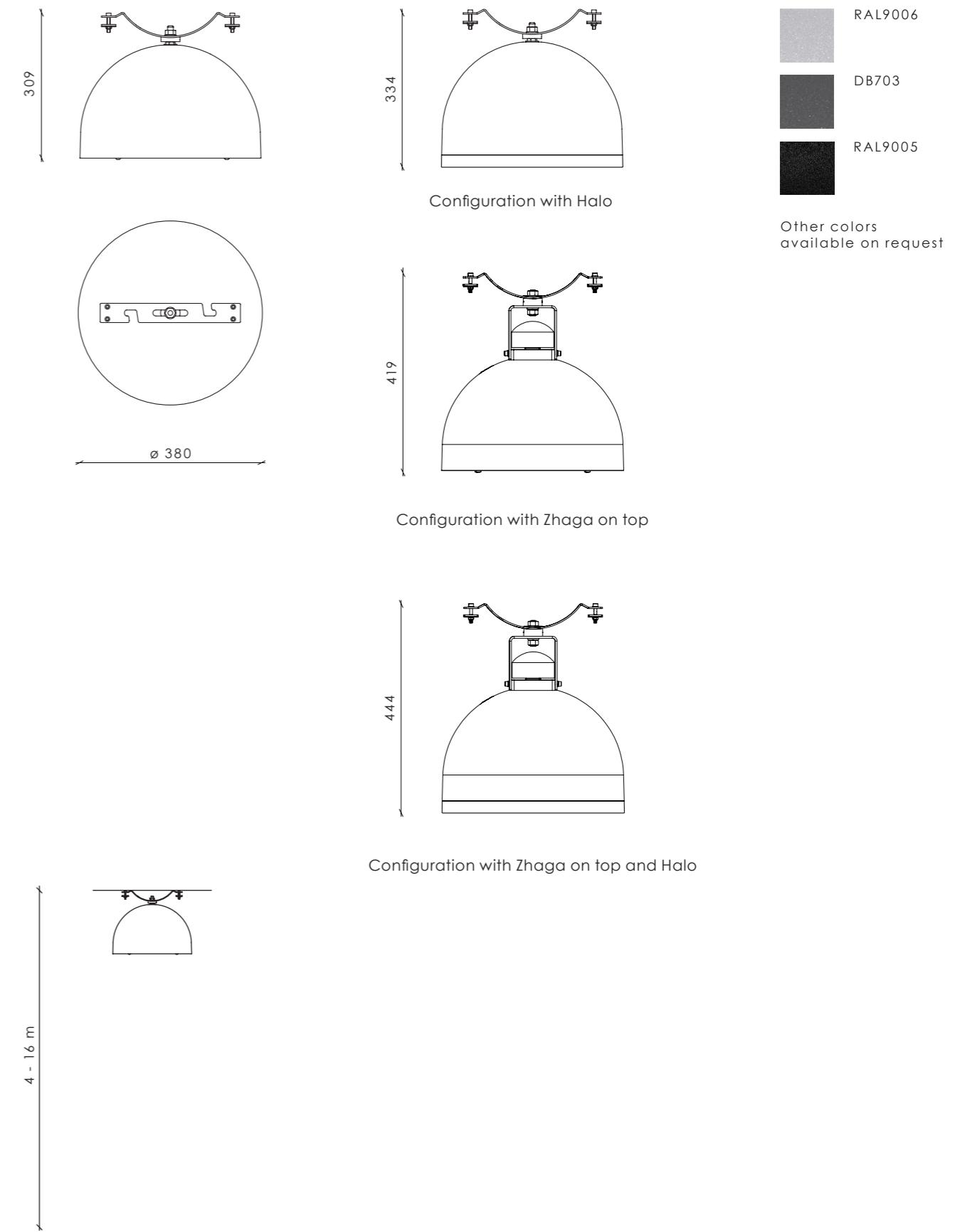
with Halo



# Blackbird hanging



with Halo



Max. wind load area,  $SC_d$ ,  $m^2$ : 0,09

Street luminaires

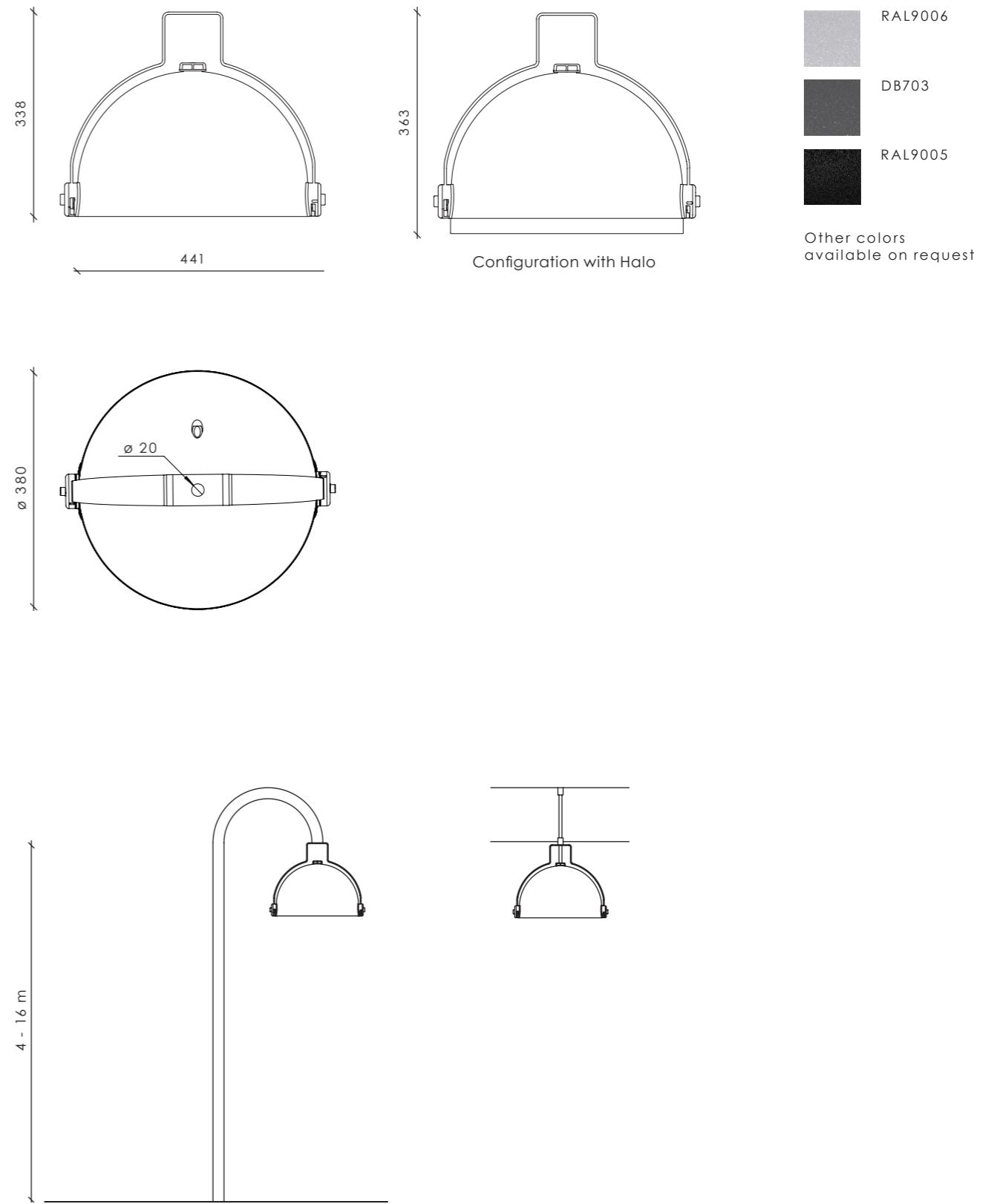


Other colors available on request

# Blackbird scepter



with Halo



## Technical information



V	220 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 100	Warranty 5 years
Im	441 - 15500 <sup>(1)</sup>	100 000 h (L98B10) at Ta = 25 °C
Im/W	88 - 160	100 000 h (L80B10) at Ta = 25 °C (ECO) <sup>(4)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6 kV, 10 kV (optional) <sup>(5)</sup>
		Spigot: Ø 40 - 60 mm - side entry / post top
		3/4" (SFS-ISO 228-1) - top entry
		Body: Die-cast aluminium
		Intelligent light control system: Radio frequency / Power line <sup>(6)</sup>
		Socket: Zhaga

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available (2700 - 6500 K);

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

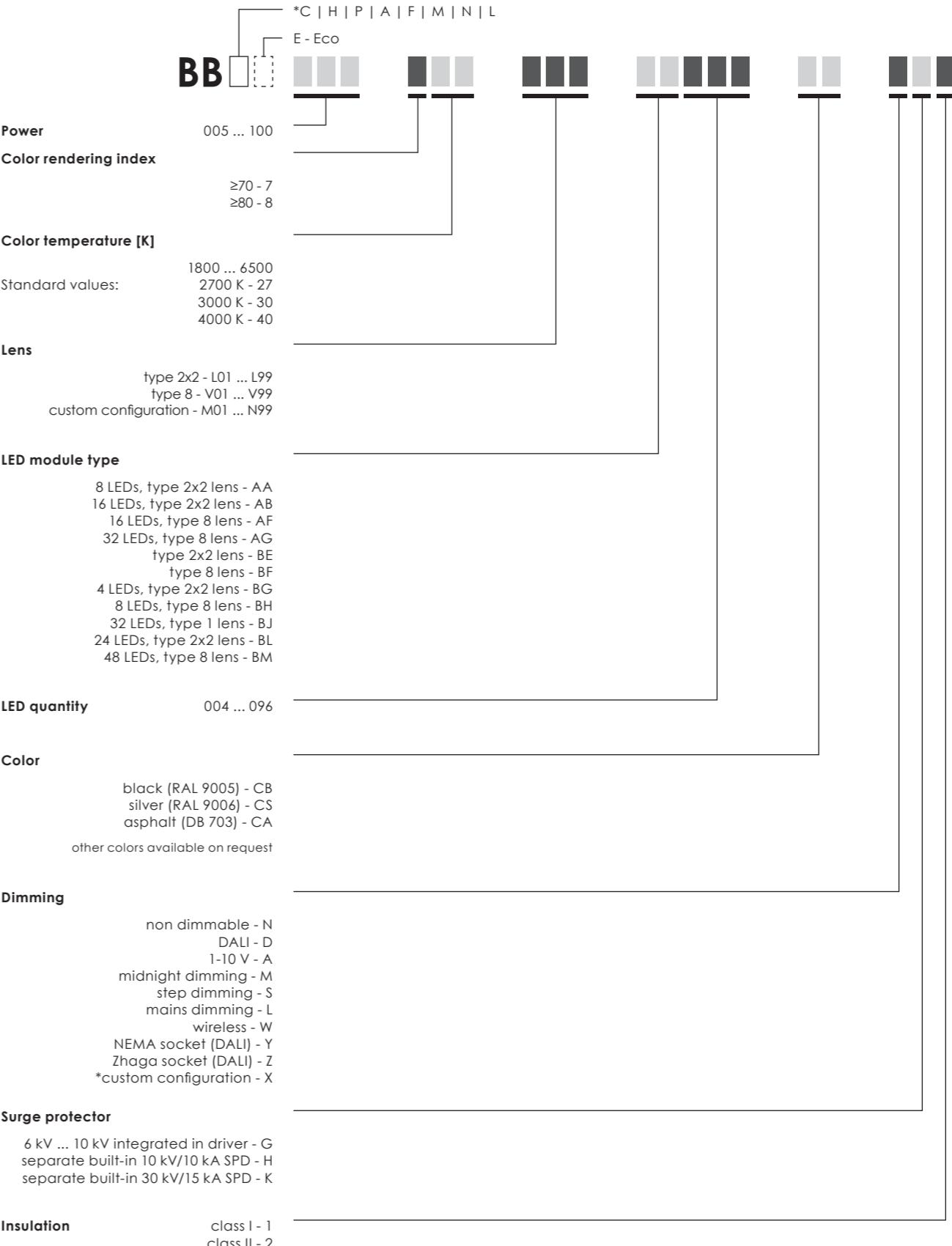
<sup>(5)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



EXAMPLE BBPE 050 730 L01 AB032 CB DG1

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

\*\* CUSTOM CONFIGURATION EXAMPLE:  
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			8			16		
<b>Nominal current, mA</b>	270	500	730	140	540	700	270	480	760
<b>Power, W</b>	5	8	11	5	15	19	15	25	39
<b>Luminous Flux, lm</b>	520	900	1300	560	2000	2500	2200	3530	5240
<b>Efficacy, lm/W</b>	104	113	118	110	133	132	147	141	134
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,90	0,94	0,83	0,93	0,98

<b>Number of LED's</b>	24			32			48		
<b>Nominal current, mA</b>	260	470	700	280	510	680	270	510	680
<b>Power, W</b>	20	35	52	28	50	75	40	75	100
<b>Luminous Flux, lm</b>	3000	5100	7200	4300	7300	10230	6100	11000	14000
<b>Efficacy, lm/W</b>	150	146	138	154	146	136	153	147	140
<b>Power factor, PF</b>	0,86	0,94	0,97	0,81	0,93	0,97	0,79	0,97	0,96

Luminaire efficacy	2700 K	5 - 100 W	441 - 12000 lm	88 - 134 lm/W
	3000 K	5 - 100 W	485 - 13200 lm	97 - 144 lm/W
	5000 K	5 - 100 W	520 - 14000 lm	104 - 154 lm/W
	5700 K	5 - 100 W	520 - 14000 lm	104 - 154 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			8			16		
<b>Nominal current, mA</b>	140	490	670	280	490	700	140	250	390
<b>Power, W</b>	5	14	19	15	26	38	15	25	39
<b>Luminous Flux, lm</b>	555	1730	2300	2100	3430	4640	2300	3750	5560
<b>Efficacy, lm/W</b>	111	124	121	140	132	122	153	150	143
<b>Power factor, PF</b>	0,69	0,89	0,94	0,83	0,94	0,98	0,83	0,93	0,98

<b>Number of LED's</b>	24			32			48		
<b>Nominal current, mA</b>	270	530	650	260	380	500	140	260	350
<b>Power, W</b>	42	80	100	50	75	100	40	75	100
<b>Luminous Flux, lm</b>	6050	10600	12400	7620	11000	13400	6410	11500	14500
<b>Efficacy, lm/W</b>	144	133	124	152	147	134	160	153	145
<b>Power factor, PF</b>	0,98	0,97	0,96	0,93	0,97	0,96	0,79	0,92	0,96

Luminaire efficacy	2700 K	5 - 100 W	520 - 13560 lm	104 - 150 lm/W
	3000 K	5 - 100 W	555 - 14500 lm	111 - 160 lm/W
	5000 K	5 - 100 W	555 - 14500 lm	111 - 160 lm/W
	5700 K	5 - 100 W	555 - 14500 lm	111 - 160 lm/W

**High density  
modules**

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

4000 K | CRI 70

<b>Number of LED's</b>	16			24			32		
<b>Nominal current, mA</b>	280	480	760	260	470	700	290	500	760
<b>Power, W</b>	15	25	39	20	35	52	29	50	75
<b>Luminous Flux, lm</b>	2200	3530	5240	3000	5100	7200	4450	7300	10300
<b>Efficacy, lm/W</b>	147	141	134	150	146	138	153	146	137
<b>Power factor, PF</b>	0,83	0,93	0,98	0,86	0,93	0,97	0,82	0,93	0,97

<b>Number of LED's</b>	48			96		
<b>Nominal current, mA</b>	270	510	680	270	320	350
<b>Power, W</b>	40	75	100	76	90	100
<b>Luminous Flux, lm</b>	6300	11000	14000	12100	14100	15500
<b>Efficacy, lm/W</b>	158	147	140	159	157	155
<b>Power factor, PF</b>	0,89	0,97	0,96	0,97	0,98	0,96

Luminaire efficacy	2700 K	15 - 100 W	1840 - 13210 lm	115 - 136 lm/W
	3000 K	15 - 100 W	2015 - 14530 lm	127 - 150 lm/W
	5000 K	15 - 100 W	2200 - 15500 lm	134 - 159 lm/W
	5700 K	15 - 100 W	2200 - 15500 lm	134 - 159 lm/W



Riga | Latvia

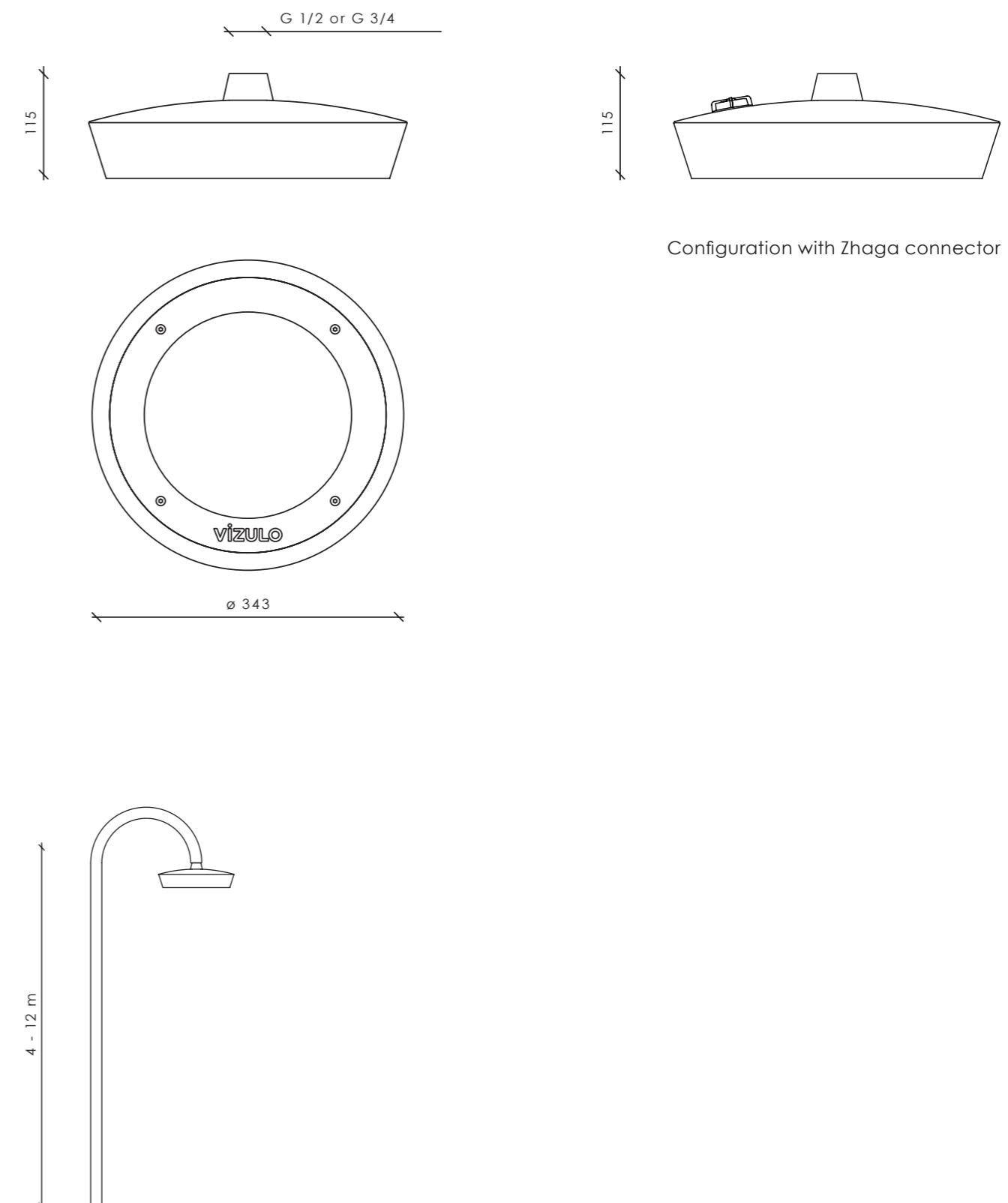


Jelgava | Latvia

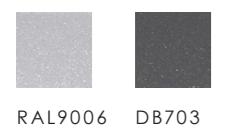
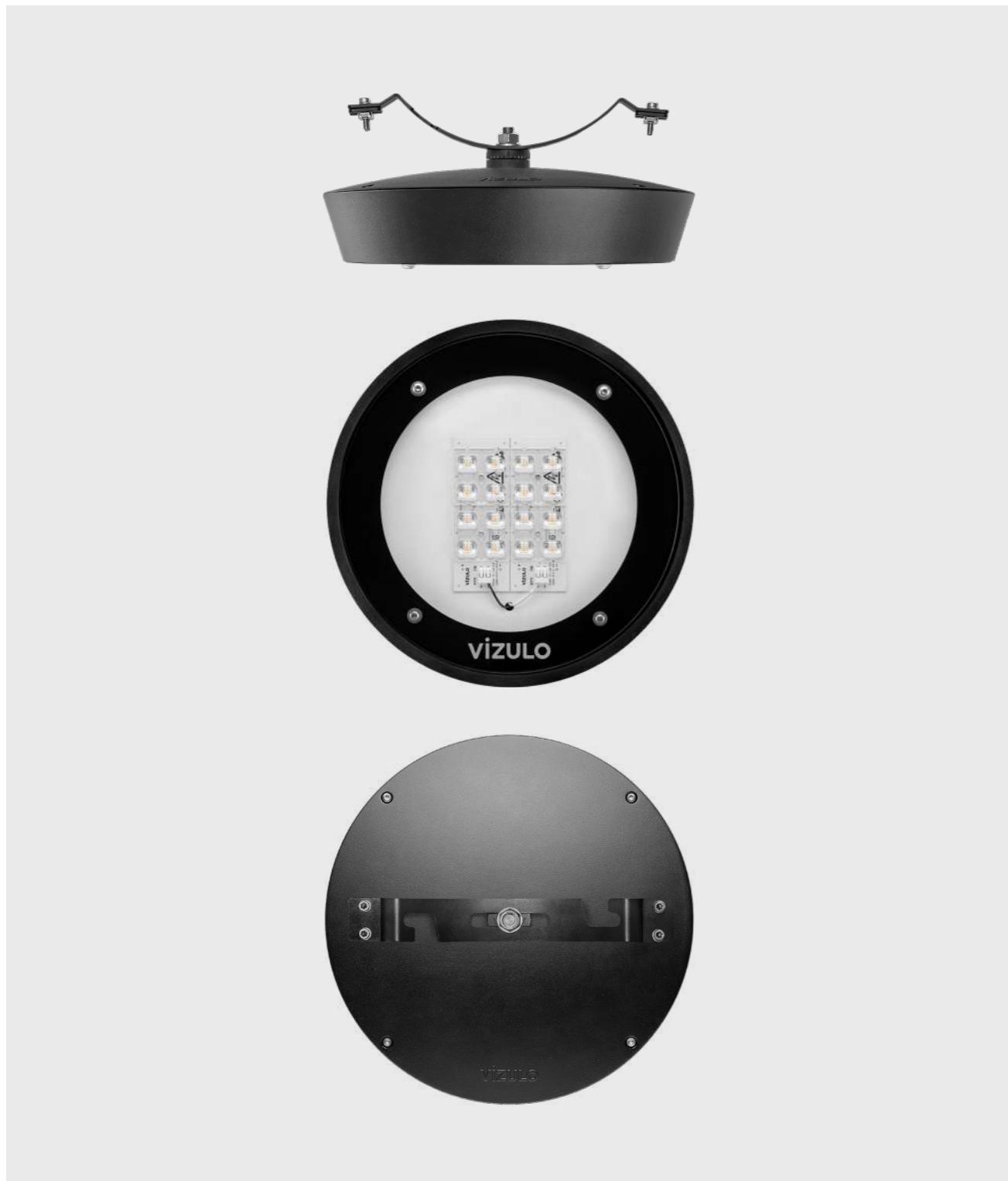
# Luscinia top entry



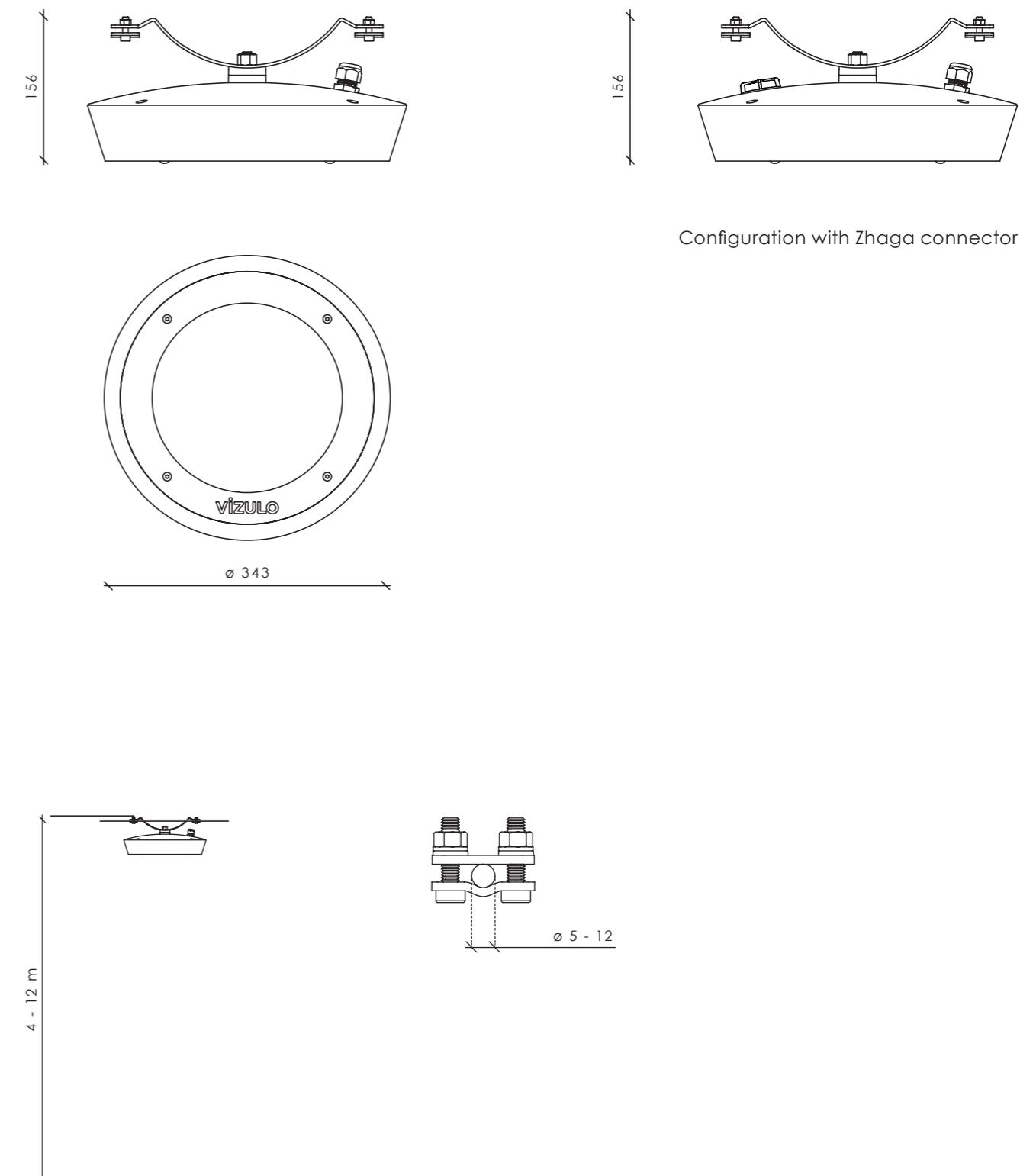
RAL9006 DB703 RAL9005 Other colors available on request



# Luscinia hanging



RAL9006 DB703 RAL9005 Other colors available on request



## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 75	Warranty 5 years
lm	476 - 11150 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C
lm/W	95 - 158	100 000 h (L80B10) at Ta = 25 °C (ECO) <sup>(4)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50 (5 - 50 W)	
	-40 to +35 (50 - 75 W)	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6 kV; 10 kV (optional) <sup>(5)</sup>
		Intelligent light control system: Radio frequency / Power line <sup>(6)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,09

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

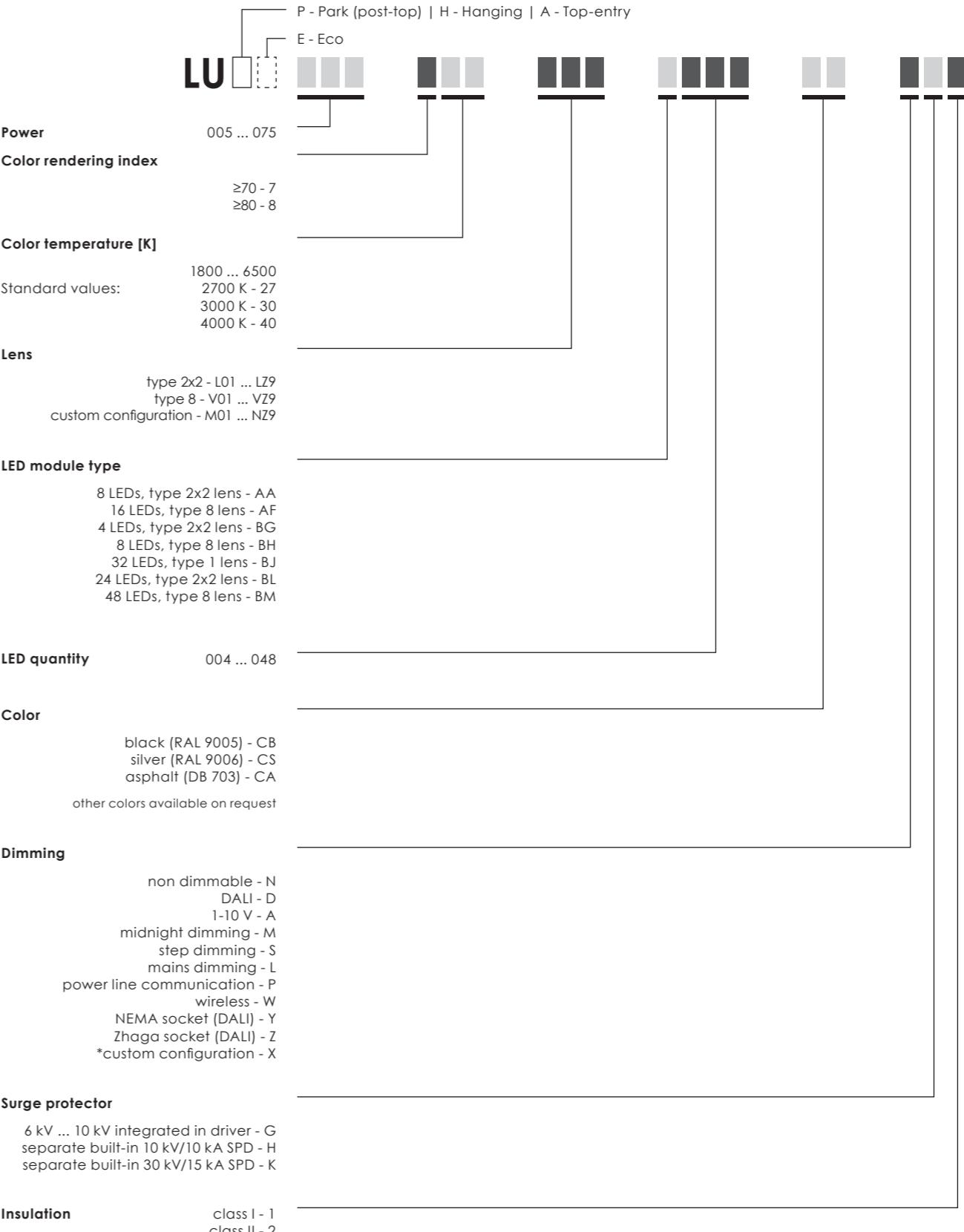
<sup>(5)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's	8	16	24
<b>Nominal current, mA</b>	140	540	700
<b>Power, W</b>	5	15	19
<b>Luminous Flux, lm</b>	555	1980	2480
<b>Efficacy, lm/W</b>	111	132	131
<b>Power factor, PF</b>	0,69	0,90	0,94

Luminaire efficacy	2700 K	5 - 75 W	476 - 6250 lm	95 - 130 lm/W
	3000 K	5 - 75 W	524 - 6873 lm	105 - 142 lm/W
	5000 K	5 - 75 W	555 - 7290 lm	111 - 150 lm/W
	5700 K	5 - 75 W	555 - 7290 lm	111 - 150 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's	8	16	24
<b>Nominal current, mA</b>	280	490	700
<b>Power, W</b>	15	26	38
<b>Luminous Flux, lm</b>	2120	3470	4710
<b>Efficacy, lm/W</b>	141	133	124
<b>Power factor, PF</b>	0,83	0,94	0,98

Luminaire efficacy	2700 K	15 - 75 W	1990 - 9610 lm	116 - 144 lm/W
	3000 K	15 - 75 W	2120 - 10300 lm	124 - 154 lm/W
	5000 K	15 - 75 W	2120 - 10300 lm	124 - 154 lm/W
	5700 K	15 - 75 W	2120 - 10300 lm	124 - 154 lm/W

**High density  
modules**

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

4000 K | CRI 70

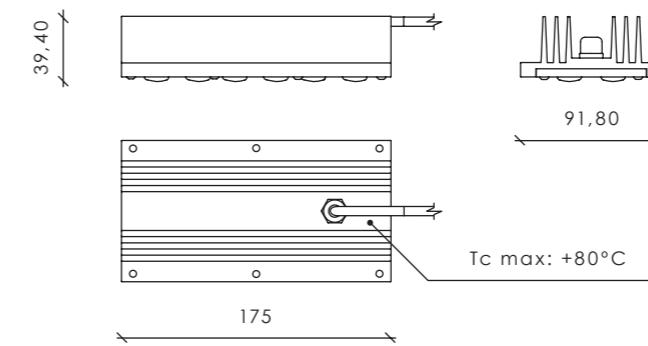
Number of LED's	8	16	32	48
<b>Nominal current, mA</b>	140	540	700	280
<b>Power, W</b>	5	15	19	25
<b>Luminous Flux, lm</b>	555	1980	2480	2150
<b>Efficacy, lm/W</b>	111	132	131	143
<b>Power factor, PF</b>	0,69	0,90	0,94	0,90

Luminaire efficacy	2700 K	5 - 75 W	476 - 9555 lm	95 - 135 lm/W
	3000 K	5 - 75 W	524 - 10510 lm	105 - 149 lm/W
	5000 K	5 - 75 W	555 - 11150 lm	111 - 158 lm/W
	5700 K	5 - 75 W	555 - 11150 lm	111 - 158 lm/W

# Woodpecker



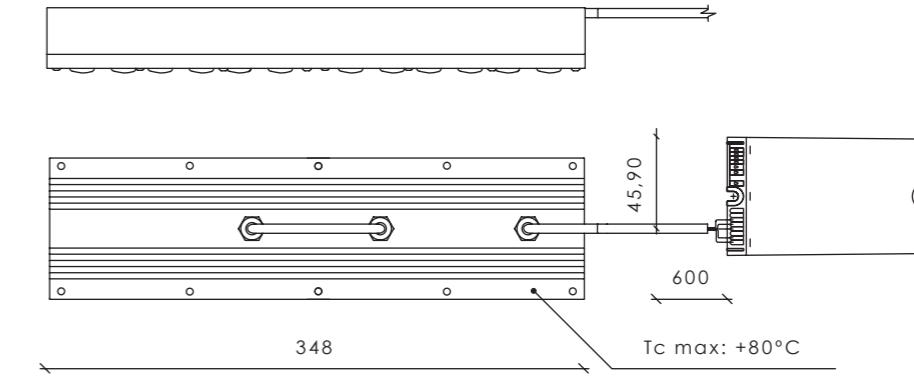
**Small**



RAL9005

Other colors  
available on request

**Large**



\*Max cable length 2m

## Technical information



V	220 - 240	DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	15 - 28 (small) 20 - 52 (large)	Warranty 5 years 100 000 h (L90B10) at Ta = 25 °C <sup>14</sup>
lm	1845 - 7500 <sup>1</sup>	
lm/W	119 - 155	Surge protection: 6 kV, 10 kV (optional) <sup>5</sup>
K	2700 / 3000 / 4000 <sup>2</sup>	Intelligent light control system:
°C	-40 to +50	Radio frequency / Power line <sup>16</sup>
CRI	>70 / >80 <sup>3</sup>	Console: Side-entry / Hanging / Post top Body: Extruded aluminium

<sup>1</sup> Lumen output indicated at CRI > 70

<sup>2</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>3</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>4</sup> This value is only informative and may change according to selected article

<sup>5</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>6</sup> Optional. Available only with DALI

<sup>7</sup> For LED module only

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.

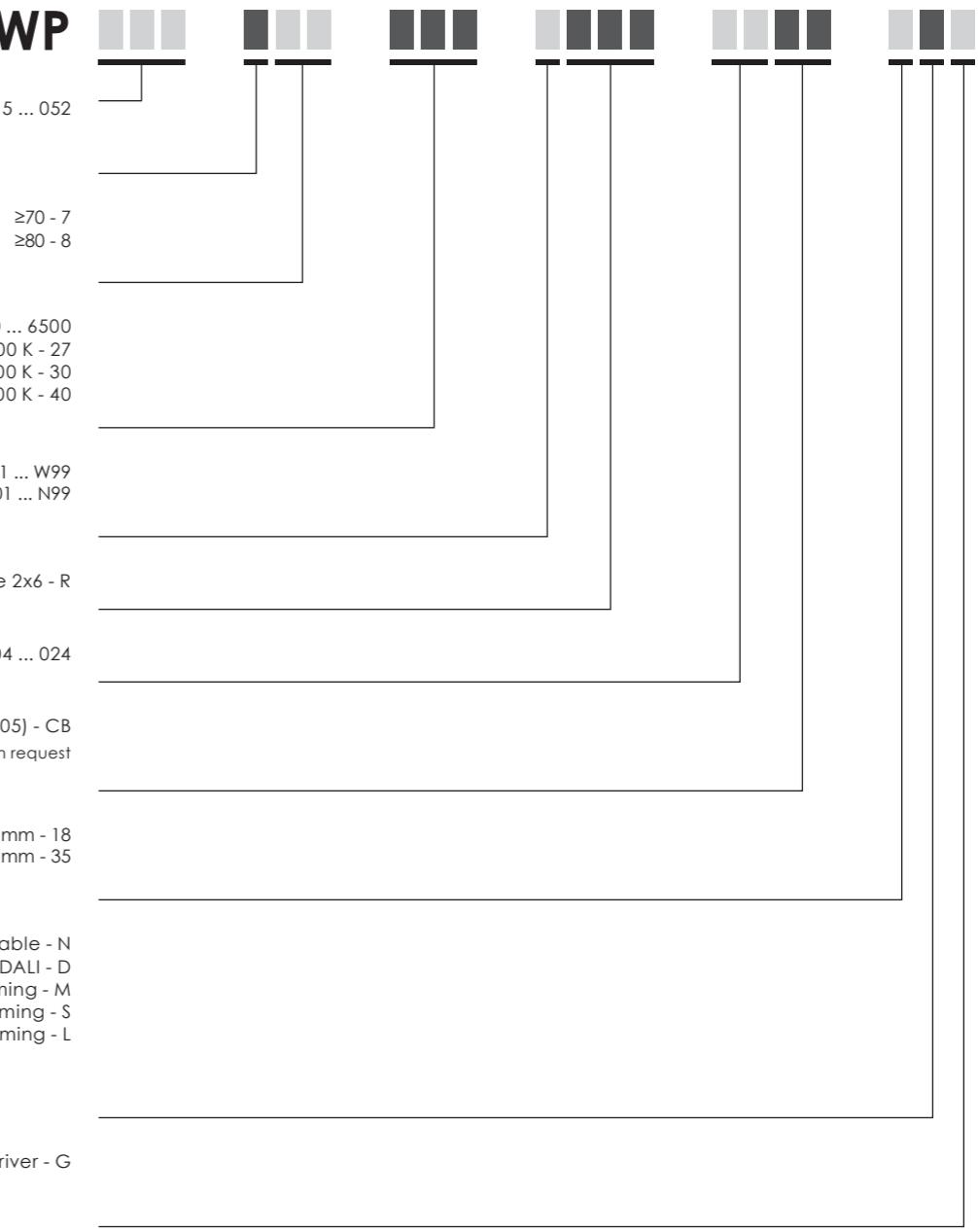
Check VIZULO members section for additional information

4000 K | CRI 70

	Small			Large		
<b>Number of LED's</b>	12			24		
<b>Nominal current, mA</b>	370	510	720	260	470	700
<b>Power, W</b>	15	20	28	20	35	52
<b>Luminous Flux, lm</b>	2150	2870	3890	3100	5300	7500
<b>Efficacy, lm/W</b>	143	144	139	155	151	144
<b>Power factor, PF</b>	0,90	0,95	0,95	0,86	0,94	0,97

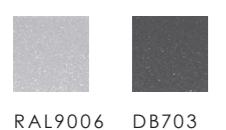
Luminaire efficacy	2700 K	15 - 52 W	1845 - 6430 lm	119 - 133 lm/W
	3000 K	15 - 52 W	2030 - 7100 lm	131 - 146 lm/W
	5000 K	15 - 52 W	2150 - 7500 lm	139 - 155 lm/W
	5700 K	15 - 52 W	2150 - 7500 lm	139 - 155 lm/W

## Model name principles

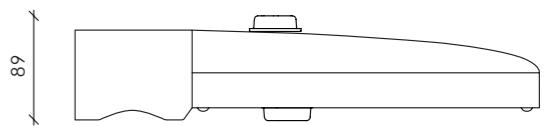
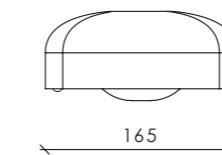
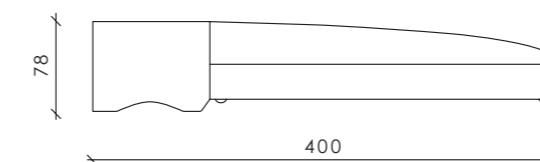


EXAMPLE: WP 015 730 W99 R024 CB18 NG2

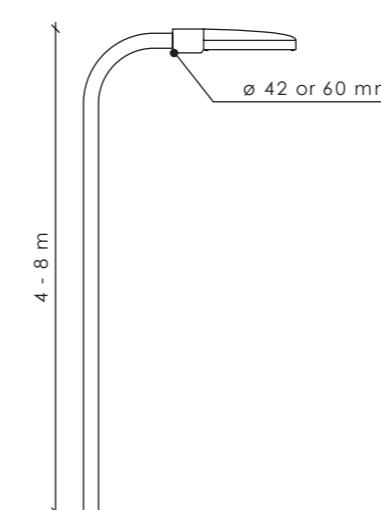
# Colibri



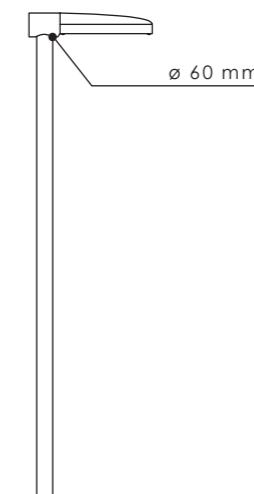
RAL9006 DB703 RAL9005 Other colors available on request



Configuration with 2 Zhaga connectors



side entry



post top

## Technical information



V	220 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Warranty 5 years
W	5 - 45	100 000 h (L80B10) at Ta = 25 °C
Im	415 - 5530 <sup>(1)</sup>	
Im/W	83 - 134	
K	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 4 kV (10 kV optional)
°C	-40 to +50 (5 - 35 W version)	Spigot: post top - ø 60 mm
	-40 to +35 (35 - 45 W version)	side entry - ø 42 or 60 mm
CRI	>70 / >80 <sup>(3)</sup>	Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,025

<sup>(1)</sup> Lumen output indicated at 4000 K, CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

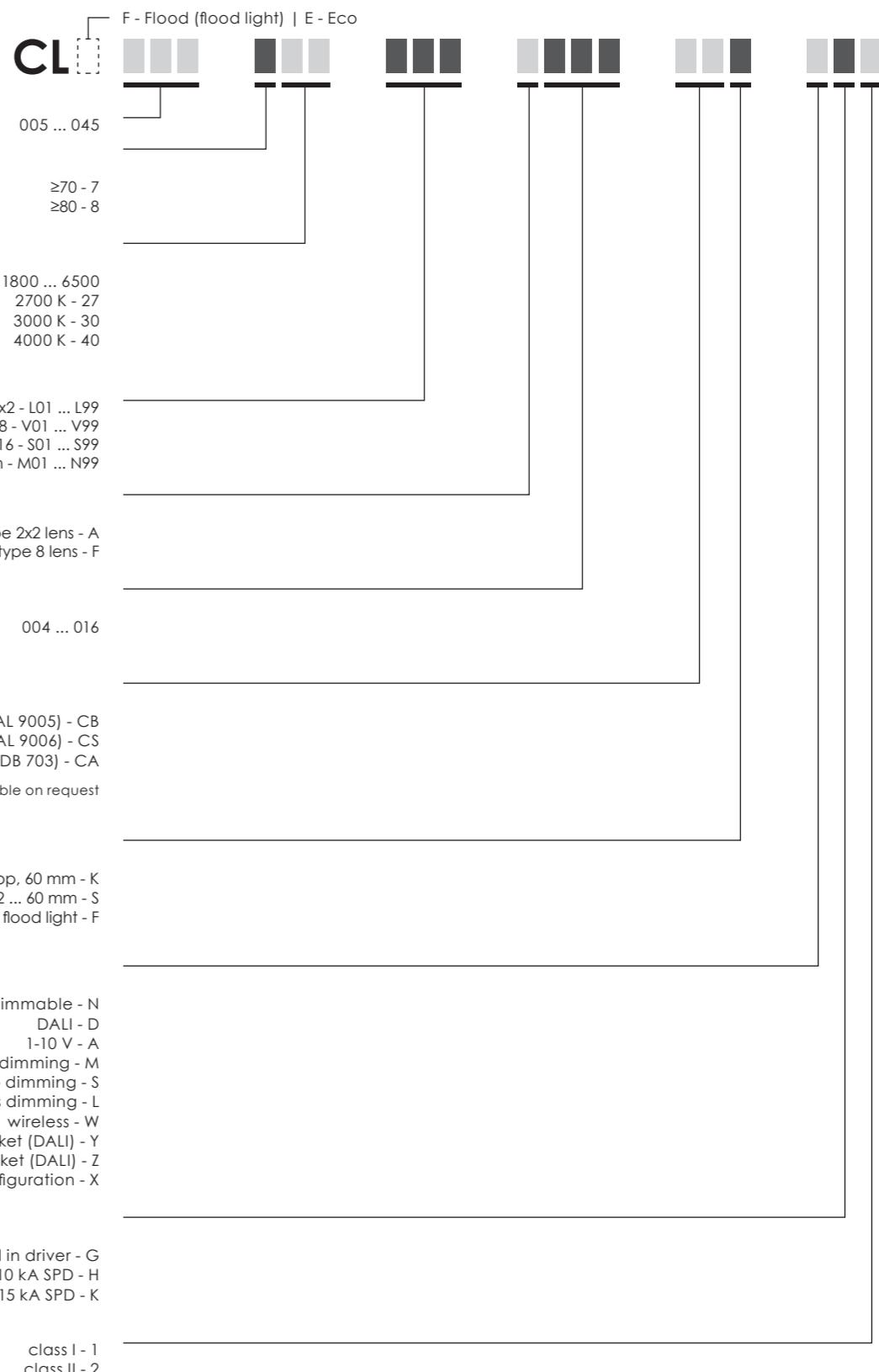
<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Non-printed glass

<sup>(5)</sup> Coming soon

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

## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			6			8		
<b>Nominal current, mA</b>	270	500	730	190	480	880	140	540	700
<b>Power, W</b>	5	8	11	5	10	18	5	15	19
<b>Luminous Flux, lm</b>	480	850	1200	510	1340	2260	543	1935	2420
<b>Efficacy, lm/W</b>	96	106	109	102	134	126	109	129	127
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,91	0,93	0,69	0,90	0,94

Luminaire efficacy	2700 K	5 - 19 W	415 - 2000 lm	83 - 111 lm/W
	3000 K	5 - 19 W	456 - 2200 lm	92 - 122 lm/W
	5000 K	5 - 19 W	480 - 2420 lm	96 - 134 lm/W
	5700 K	5 - 19 W	480 - 2420 lm	96 - 134 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			6			8		
<b>Nominal current, mA</b>	140	520	670	290	490	680	280	470	710
<b>Power, W</b>	5	15	19	12	20	28	15	25	38
<b>Luminous Flux, lm</b>	560	1900	2325	1560	2442	3210	1980	3100	4040
<b>Efficacy, lm/W</b>	112	127	122	130	122	115	132	124	106
<b>Power factor, PF</b>	0,69	0,90	0,94	0,78	0,89	0,95	0,90	0,97	0,98

Luminaire efficacy	2700 K	5 - 38 W	526 - 3790 lm	105 - 124 lm/W
	3000 K	5 - 38 W	548 - 3935 lm	110 - 128 lm/W
	5000 K	5 - 38 W	560 - 4040 lm	112 - 132 lm/W
	5700 K	5 - 38 W	560 - 4040 lm	112 - 132 lm/W

**High density  
modules**

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

4000 K | CRI 70

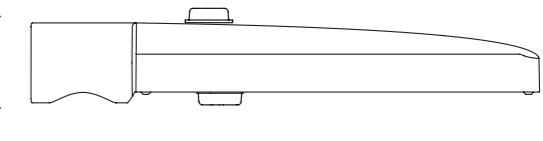
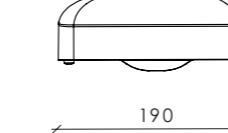
<b>Number of LED's</b>	8			16		
<b>Nominal current, mA</b>	140	540	700	280	590	890
<b>Power, W</b>	5	15	19	15	30	45
<b>Luminous Flux, lm</b>	543	1935	2420	2010	3900	5530
<b>Efficacy, lm/W</b>	109	129	127	134	130	123
<b>Power factor, PF</b>	0,69	0,90	0,94	0,83	0,96	0,96

Luminaire efficacy	2700 K	5 - 45 W	465 - 4740 lm	93 - 115 lm/W
	3000 K	5 - 45 W	512 - 5210 lm	103 - 127 lm/W
	5000 K	5 - 45 W	543 - 5530 lm	109 - 134 lm/W
	5700 K	5 - 45 W	543 - 5530 lm	109 - 134 lm/W

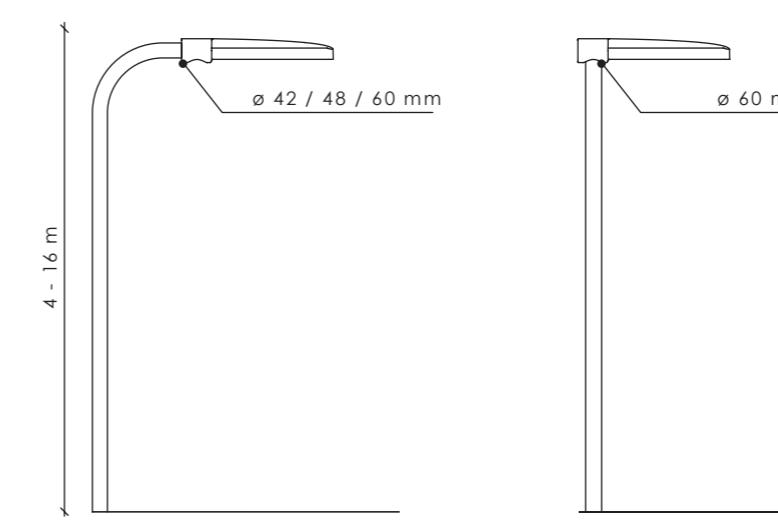
# Colibri midi



Other colors  
available on request



Configuration with 2 Zhaga connectors



side entry

post top

## Technical information



V	220 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Warranty 5 years
W	5 - 87	100 000 h (L80B10) at Ta = 25 °C
Im	446 - 13100 <sup>(1)</sup>	
Im/W	90 - 164	
K	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 4 kV (10 kV optional)
°C	-40 to +50 (5 - 70 W)	Spigot: post top - ø 60 mm
	-40 to +35 (70 - 87 W)	side entry - ø 42 / ø 48 / ø 60 mm
CRI	>70 / >80 <sup>(3)</sup>	Intelligent light control system: Radio frequency <sup>(4)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,036

<sup>(1)</sup> Lumen output indicated at 4000 K, CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

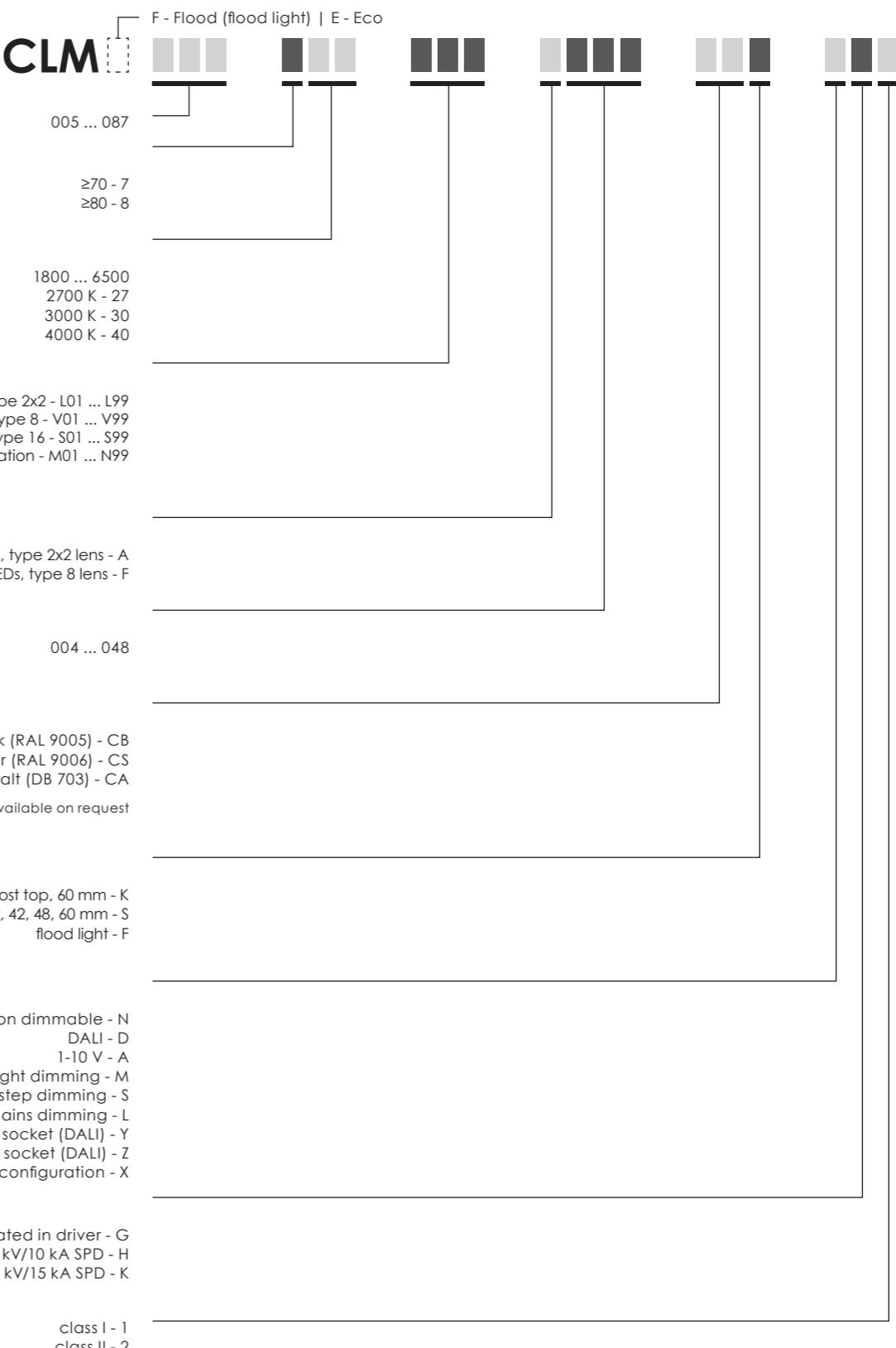
<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(5)</sup> Coming soon

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

## Model name principles



EXAMPLE CLM 020 730 L17 A008 CAK NG1

### \* CUSTOM CONFIGURATION EXAMPLE

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

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			12			16			24		
<b>Nominal current, mA</b>	140	540	700	280	500	660	280	500	760	260	470	700
<b>Power, W</b>	5	15	19	12	20	26	15	25	39	20	35	52
<b>Luminous Flux, lm</b>	520	1840	2300	1530	2590	3300	2160	3560	5300	3060	5240	7400
<b>Efficacy, lm/W</b>	104	123	121	128	130	127	144	142	136	153	150	142
<b>Power factor, PF</b>	0,69	0,90	0,94	0,85	0,95	0,97	0,90	0,97	0,98	0,86	0,97	0,97

Luminaire efficacy	2700 K	5 - 52 W	446 - 6350 lm	90 - 131 lm/W
	3000 K	5 - 52 W	490 - 7000 lm	98 - 144 lm/W
	5000 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W
	5700 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			12			16		
<b>Nominal current, mA</b>	280	470	700	280	450	700	280	490	710
<b>Power, W</b>	15	25	38	22	35	55	28	50	74
<b>Luminous Flux, lm</b>	1960	3120	4340	2980	4470	6300	4100	6460	8810
<b>Efficacy, lm/W</b>	131	125	114	135	128	115	146	129	119
<b>Power factor, PF</b>	0,90	0,97	0,98	0,87	0,97	0,98	0,95	0,93	0,97

Luminaire efficacy	2700 K	5 - 74 W	1833 - 8255 lm	107 - 137 lm/W
	3000 K	5 - 74 W	1960 - 8600 lm	114 - 142 lm/W
	5000 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W
	5700 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W

**High density  
modules**

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

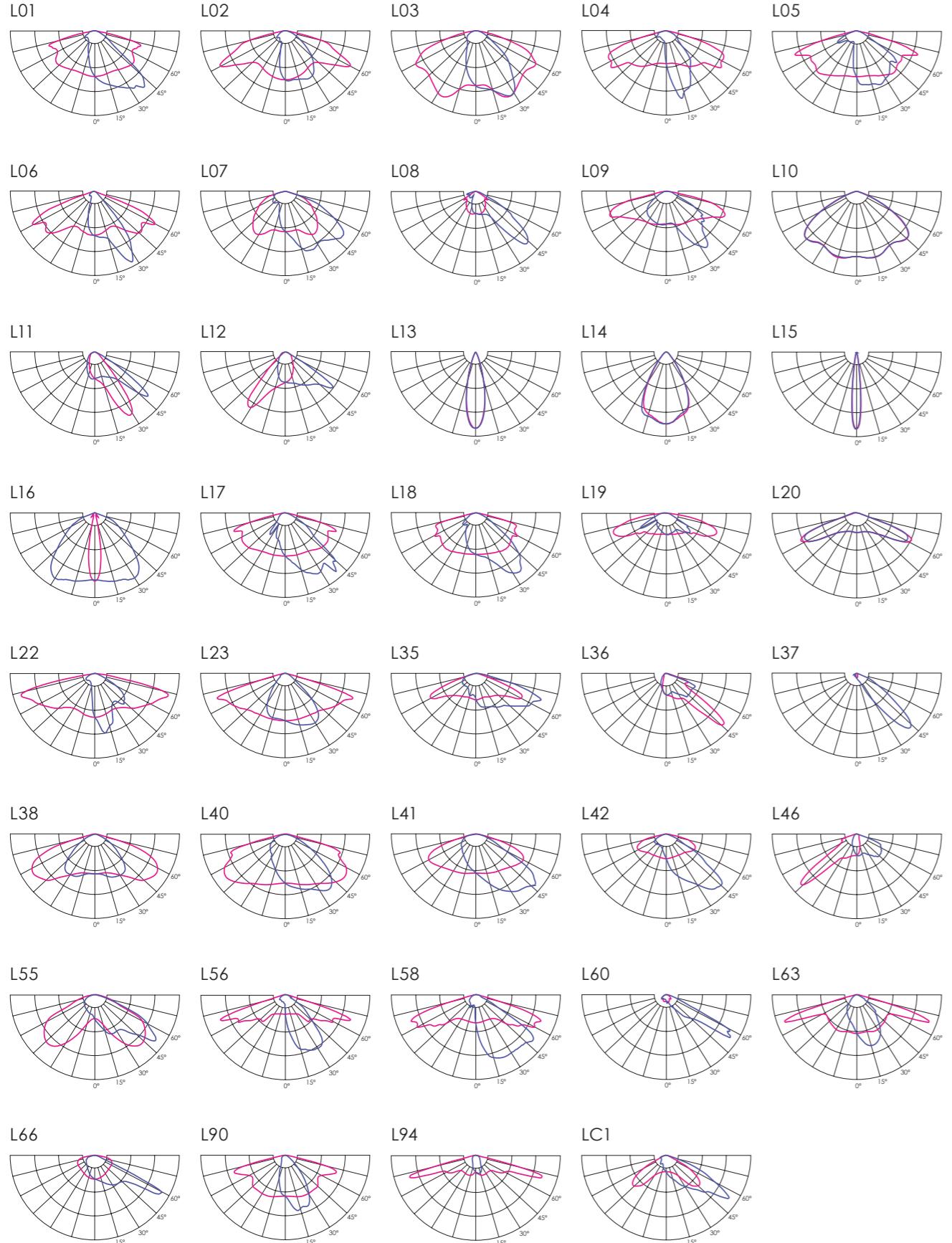
4000 K | CRI 70

<b>Number of LED's</b>	16			32			48		
<b>Nominal current, mA</b>	280	480	770	270	510	700	270	350	600
<b>Power, W</b>	15	25	39	27	50	68	39	50	87
<b>Luminous Flux, lm</b>	2010	3310	4920	4000	7111	9280	6400	8035	13100
<b>Efficacy, lm/W</b>	134	132	126	148	142	136	164	161	151
<b>Power factor, PF</b>	0,83	0,93	0,98	0,94	0,97	0,96	0,95	0,97	0,98

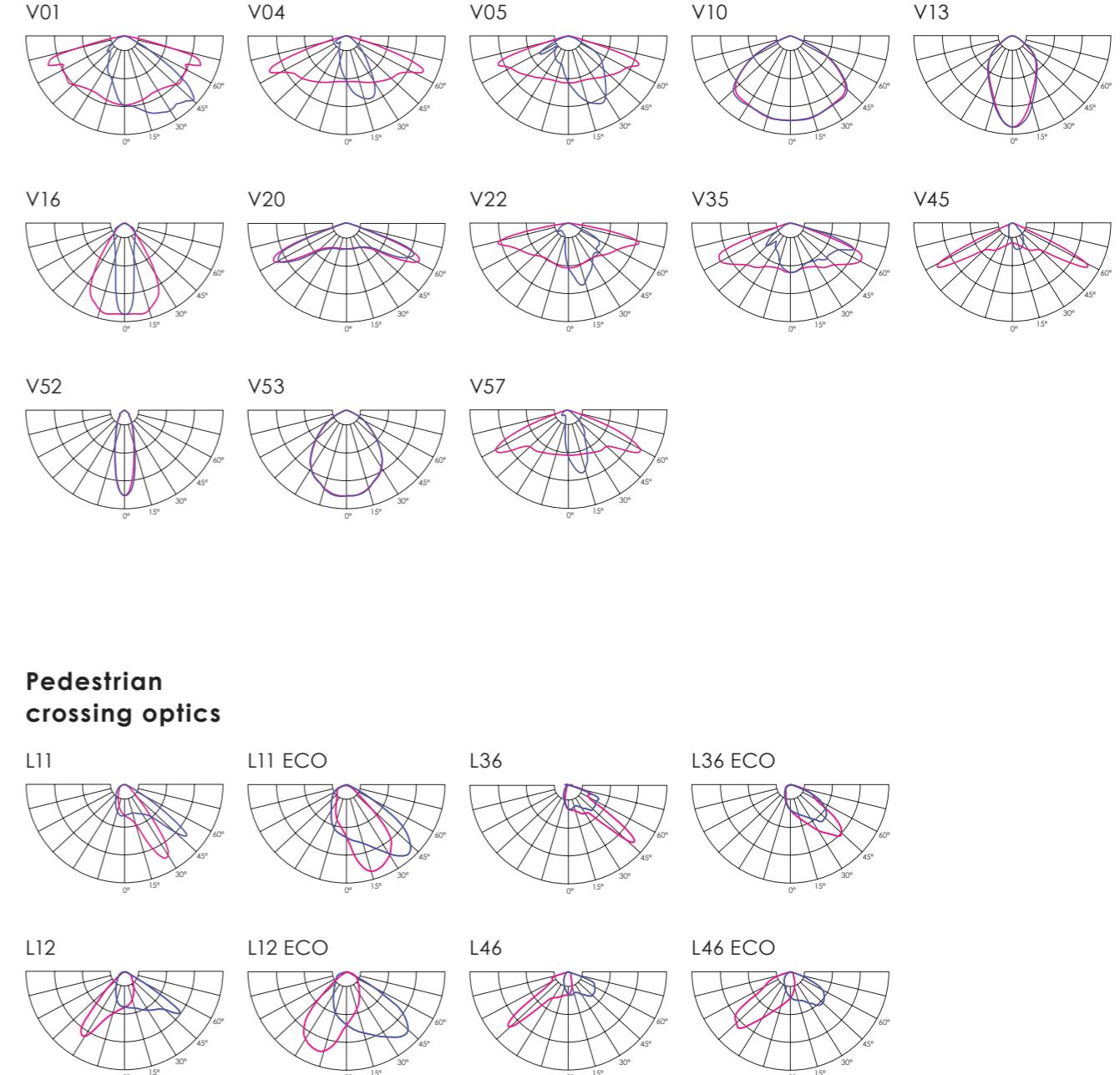
Luminaire efficacy	2700 K	15 - 87 W	1730 - 11210 lm	108 - 140 lm/W
	3000 K	15 - 87 W	1900 - 12320 lm	119 - 155 lm/W
	5000 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W
	5700 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W

# Optics street luminaires

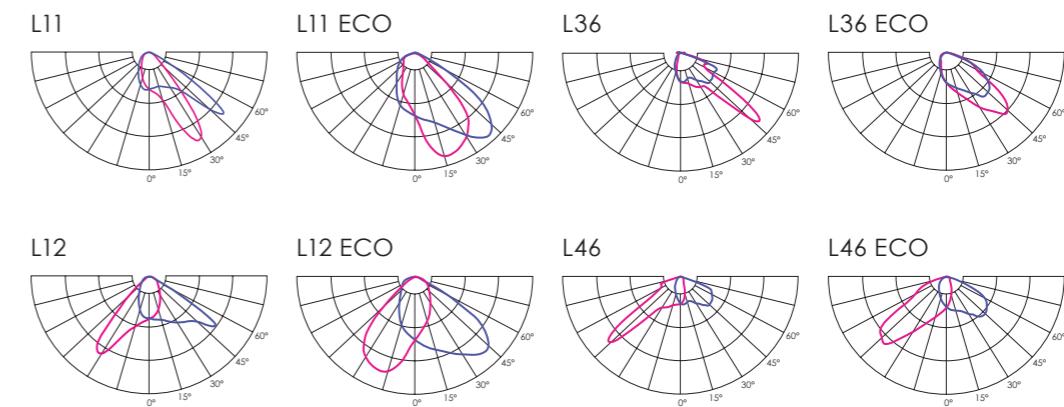
## Standard modules \*



## High density modules \*



## Pedestrian crossing optics



\* Optic distribution diagrams are **only for visual purposes**.  
Check VIZULO members section for precise information.

# Mustang

## Technical information



RAL9006 DB703

RAL9005

Other colors  
available on request

<b>V</b>	220 - 240	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	50 - 700	Warranty 5 years
<b>lm</b>	29535 - 103320 <sup>(1)</sup>	100 000 h (L90B10) at Ta = 25 °C <sup>(4)</sup>
<b>lm/W</b>	119 - 165	
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 6 kV (L-N) and 10 kV (L/N -PE without DALI connection) <sup>(5)</sup>
<b>°C</b>	-40 to +50	Intelligent light control system: Radio frequency / Power line <sup>(6)</sup>
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Console: Side-entry / Hanging / Post top
		Body: Die-cast aluminium

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

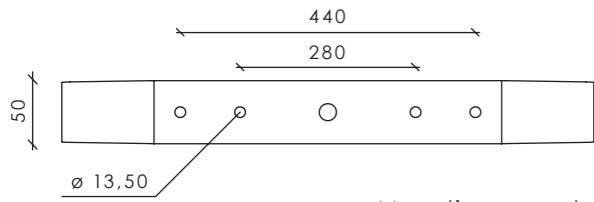
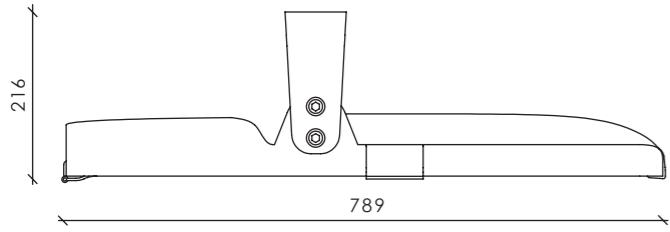
<sup>(7)</sup> Housing

<sup>(8)</sup> Glass cover

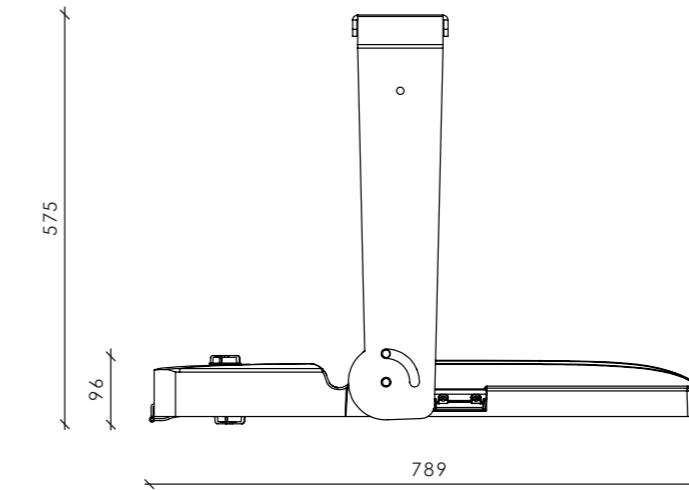
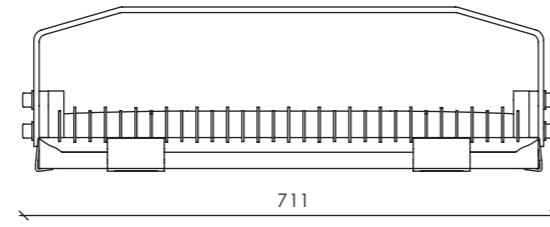
\*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models and will reach 100 000 h L90/B10. 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

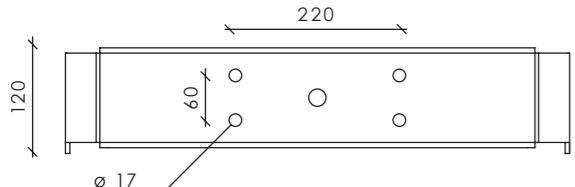
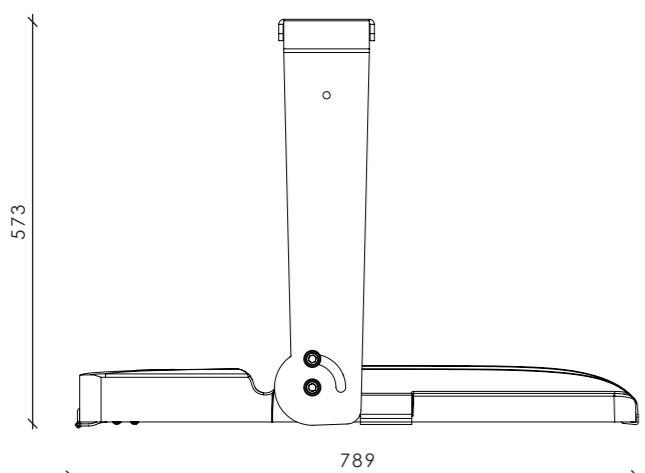
## Dimensions



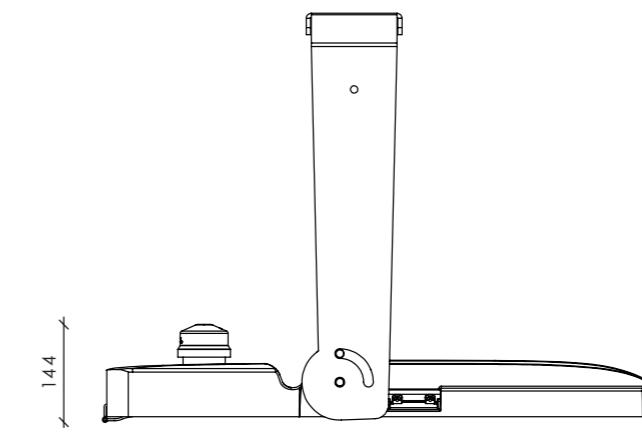
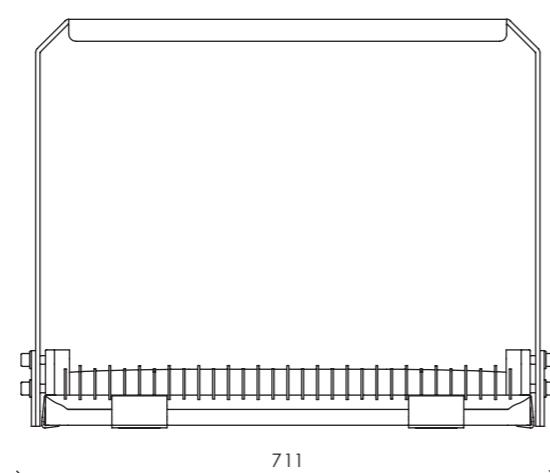
Mounting console



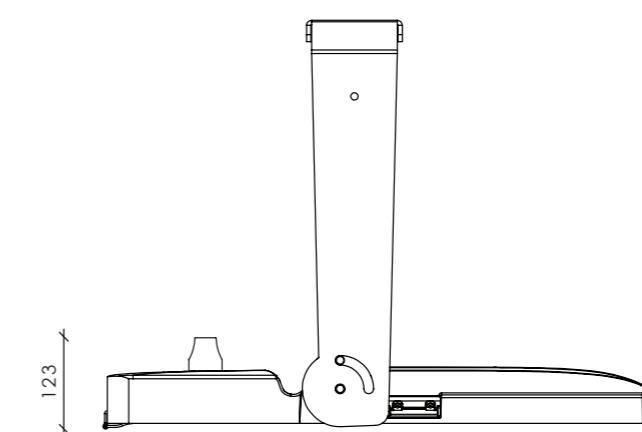
Dimensions with 2 Zhaga connectors



Mounting console



Dimensions with RF antenna



Dimensions with NEMA

Standard  
modules

4000 K | CRI 70

<b>Number of LED's</b>	352		
<b>Nominal current, mA</b>	160    480    670		
<b>Power, W</b>	279    500    700		
<b>Luminous Flux, lm</b>	45900    77900    103320		
<b>Efficacy, lm/W</b>	165    156    148		
<b>Power factor, PF</b>	0,89    0,96    0,98		
 Luminaire efficacy			
2700 K	279 - 700 W	39330 - 88530 lm	127 - 141 lm/W
3000 K	279 - 700 W	43260 - 97400 lm	139 - 155 lm/W
5000 K	279 - 700 W	45900 - 103320 lm	148 - 165 lm/W
5700 K	279 - 700 W	45900 - 103320 lm	148 - 165 lm/W

ECO

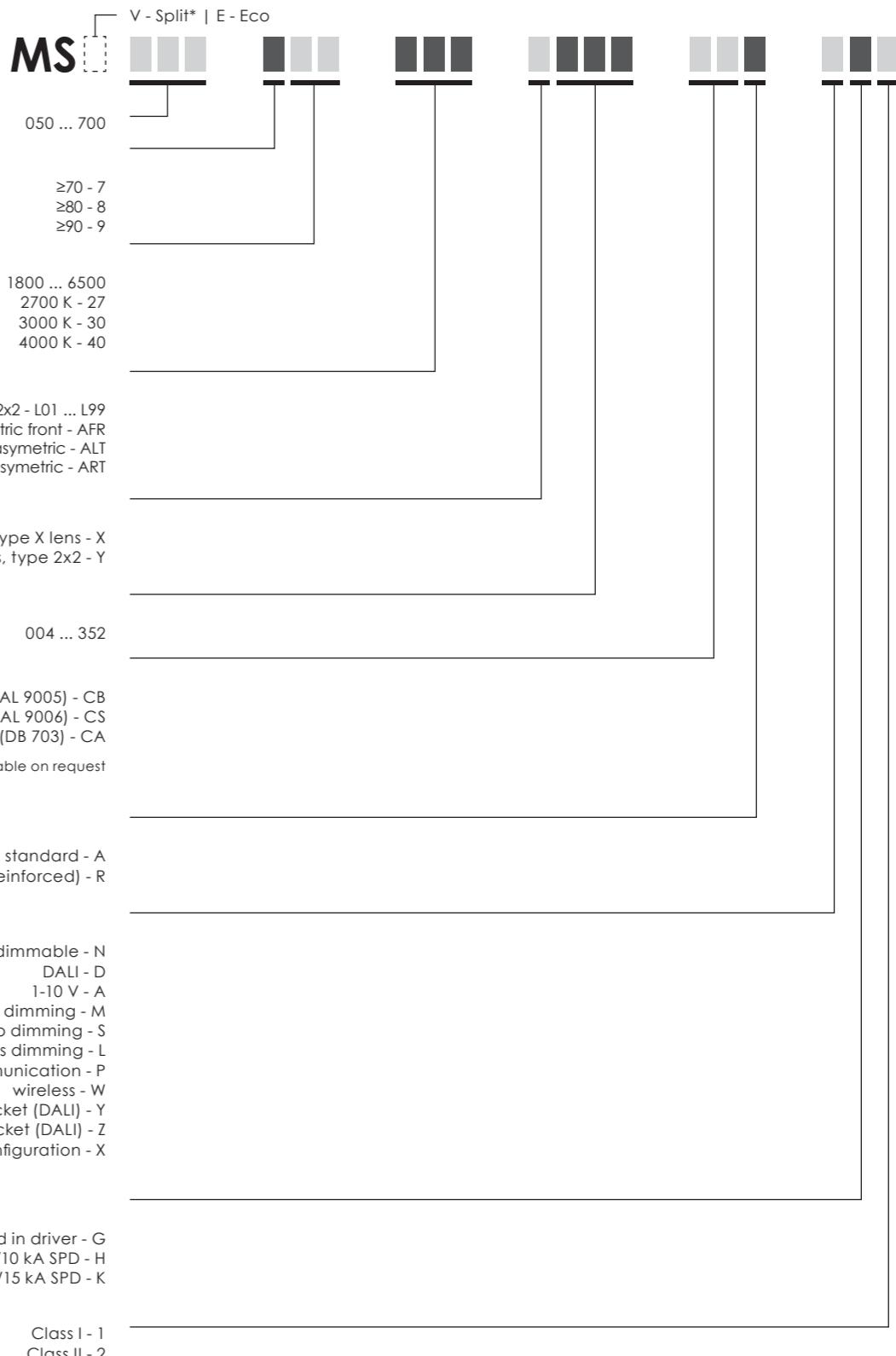
4000 K | CRI 70

<b>Number of LED's</b>	132	176	
<b>Nominal current, mA</b>	270    490    710	270    460    630	
<b>Power, W</b>	215    400    600	286    500    700	
<b>Luminous Flux, lm</b>	31520    60600    75000	41800    65900    84230	
<b>Efficacy, lm/W</b>	147    152    125	146    132    120	
<b>Power factor, PF</b>	0,89    0,97    0,98	0,89    0,96    0,98	
 Luminaire efficacy			
2700 K	215 - 700 W	29535 - 78930 lm	119 - 139 lm/W
3000 K	215 - 700 W	30730 - 82125 lm	125 - 142 lm/W
5000 K	215 - 700 W	31520 - 84230 lm	125 - 146 lm/W
5700 K	215 - 700 W	31520 - 84230 lm	125 - 146 lm/W

\* Data for L01 optic.

Check VIZULO members section for additional information

**Model name  
principles**

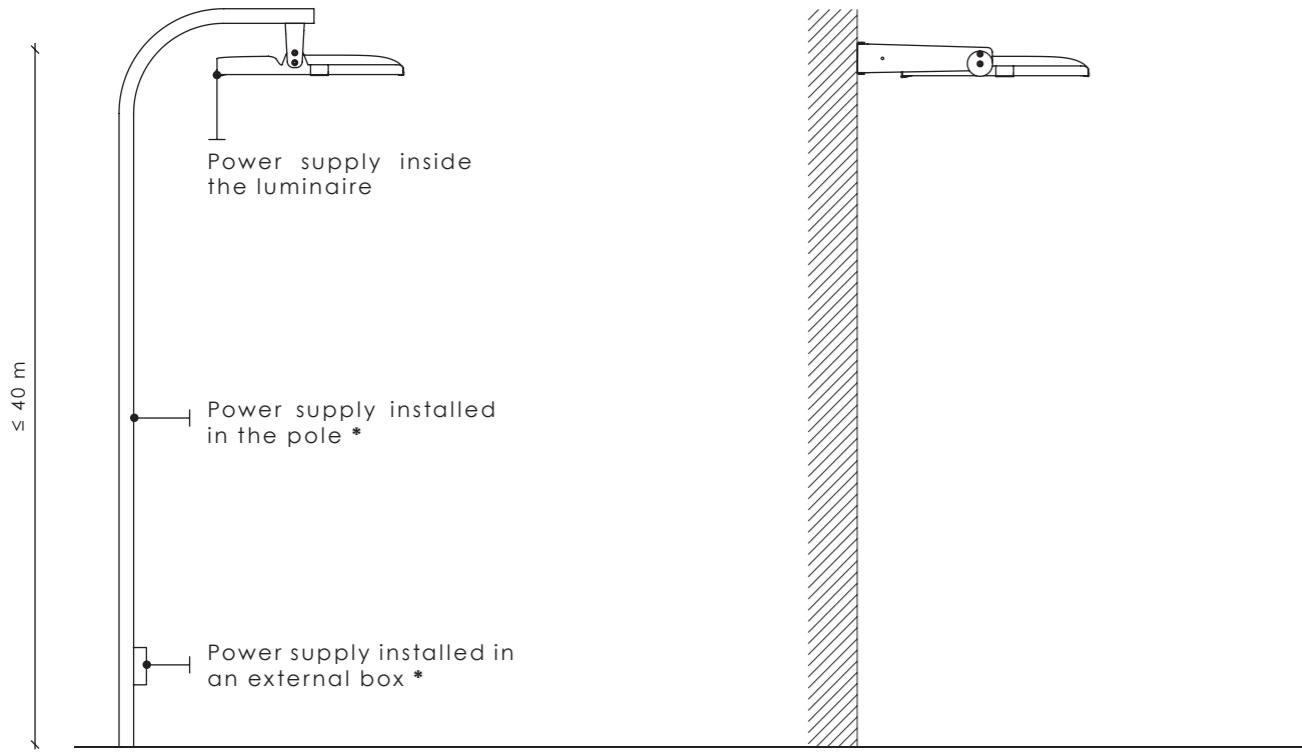


EXAMPLE MS 700 730 L01 Y352 SA DG1

\* External driver

\*\* CUSTOM CONFIGURATION EXAMPLE:  
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.

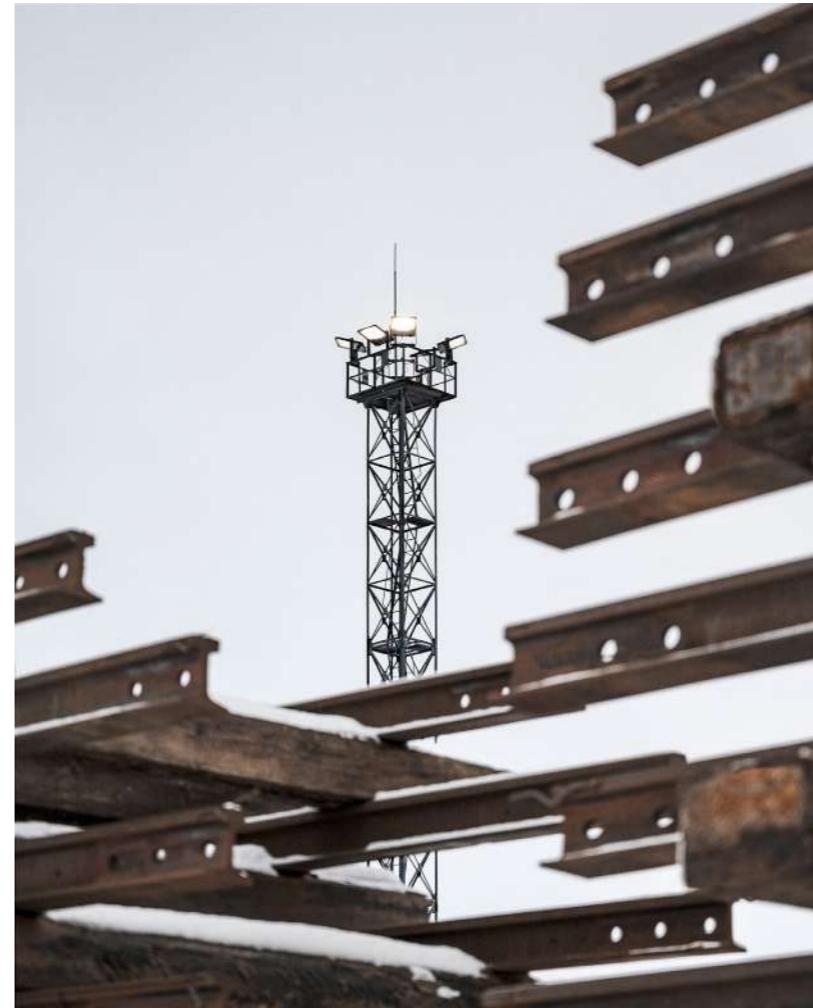
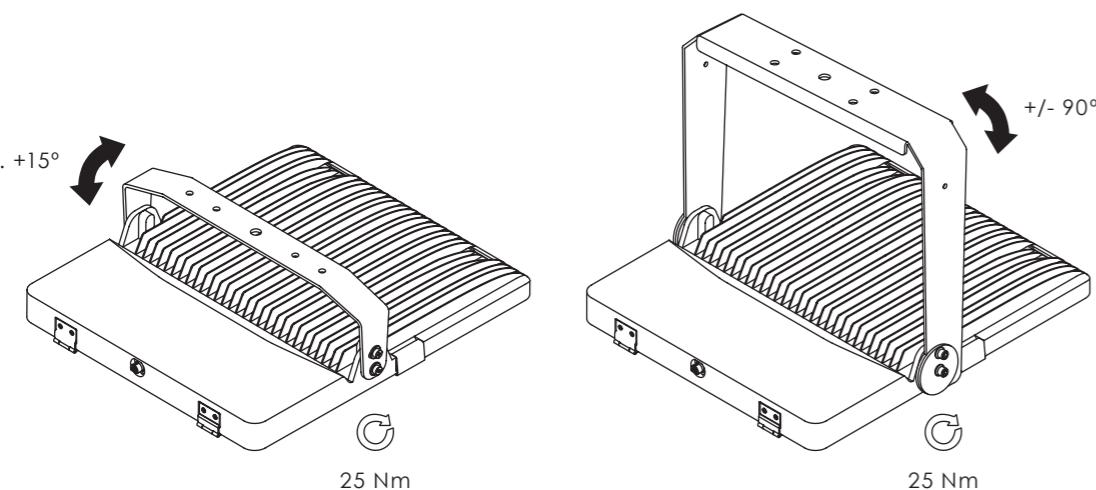
# Console



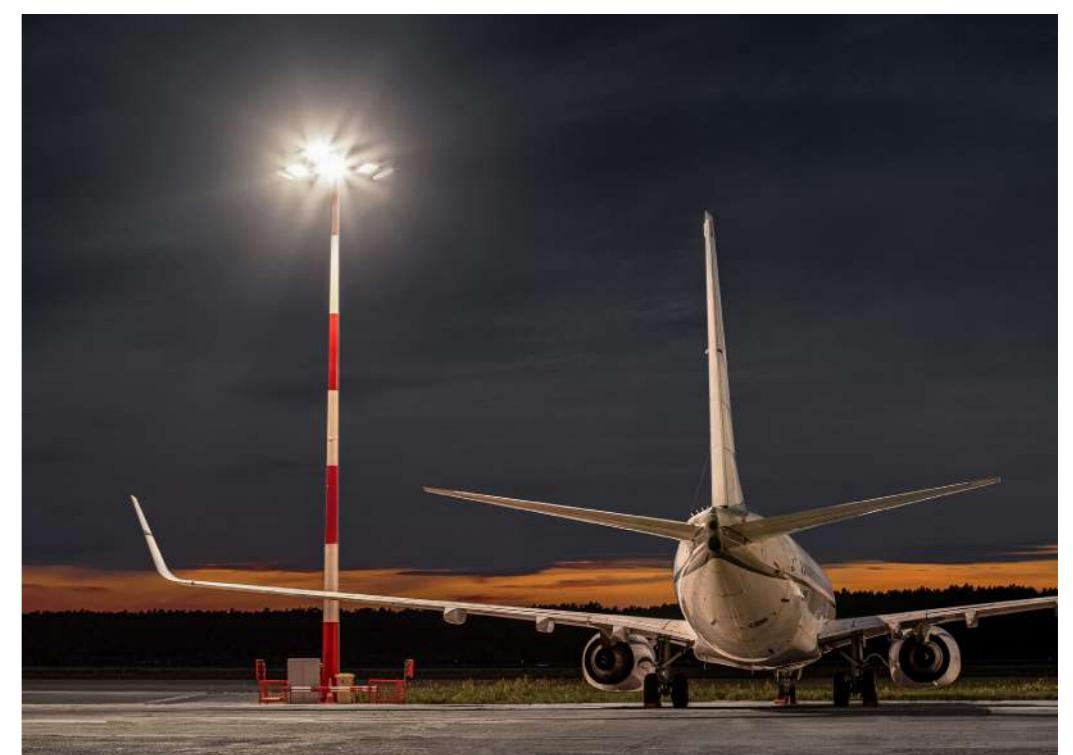
Max. cable length between drivers and luminaire/LED modules: **50 m**

Min. conductor cross section area:  
**1.5 mm<sup>2</sup>**

\* Luminaire to driver cable must be ordered from the accessories list



Kundzinsala | Latvia



Riga International Airport | Latvia

# Eagle



1 head



3 heads

4 heads

# Eagle 1 head



RAL9006   DB703   RAL9005  
Other colors available on request



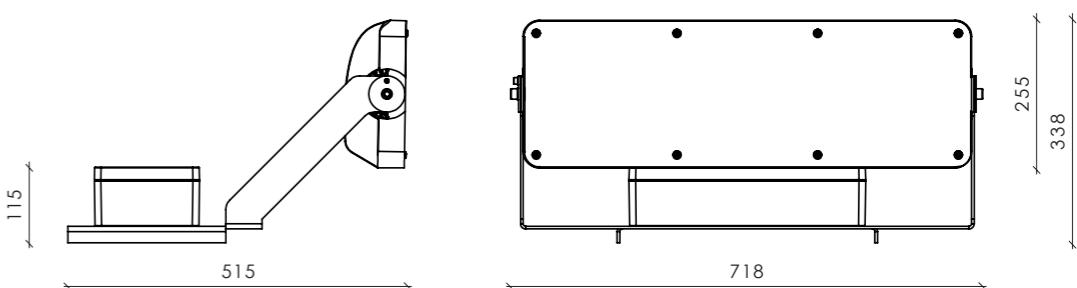
## Technical information

1 head  
120 / 144 LED



<b>V</b>	220 - 240	1 - 10 V; DALI; DMX
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	110 - 520 (120 LED version) 240 - 520 (144 LED version)	Warranty 5 years
		50 000 h (L90B10) at Ta = 25 °C
<b>lm</b>	39 320 - 65 725 <sup>(1)</sup>	
<b>lm/W</b>	106 - 137	Flicker: IEEE 1789 Flicker Recommended Practice
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Compliant
<b>°C</b>	-40 to +50	Surge protection: 10 kV
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Console: Floodlight
		Body: Die-cast aluminium
		Neto weight: Luminaire - 15,8 kg
		Driver box - 6,6 kg (120 LED version)
		Driver box - 3,5 kg (144 LED version)

## Dimensions



<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

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

## ECO

\* Data for L01 optic.

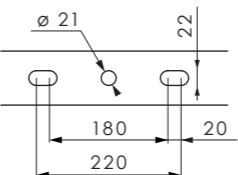
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's	120		144		
<b>Nominal current, mA</b>	470	600	680	400	510
<b>Power, W</b>	350	450	520	350	450
<b>Luminous Flux, lm</b>	46500	53550	62910	48100	58820
<b>Efficacy, lm/W</b>	133	119	121	137	131
<b>Power factor, PF</b>	0,96	0,97	0,98	0,91	0,94

Luminaire efficacy	2700 K	350 - 520 W	39320 - 55605 lm	106 - 116 lm/W
	3000 K	350 - 520 W	42900 - 60670 lm	116 - 127 lm/W
	5000 K	350 - 520 W	46500 - 65725 lm	119 - 137 lm/W
	5700 K	350 - 520 W	46500 - 65725 lm	119 - 137 lm/W

## Mounting bracket



## Wind load

$$SCx = 0.23 \text{ m}^2$$

Maximal wind load with driver box depending to the angle relative to the ground

	0°	15°	30°	45°	60°	75°	90°
<b>SCx, m<sup>2</sup></b>	0,06	0,1	0,13	0,16	0,18	0,19	0,19

# Eagle 2 heads



RAL9006 DB703 RAL9005  
Other colors available on request



## Technical information

2 head  
240 / 288 LED



<b>V</b>	220 - 240 (400 V on request)	1 - 10 V; DALI; DMX
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	220 - 1040 (240 LED version)	Warranty 5 years
	480 - 1040 (288 LED version)	50 000 h (L90B10) at Ta = 25 °C
<b>lm</b>	78 640 - 131 450 <sup>(1)</sup>	
<b>lm/W</b>	106 - 137	Flicker: IEEE 1789 Flicker Recommended Practice
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Compliant
<b>°C</b>	-40 to +50	Surge protection: 10 kV
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Console: Floodlight
		Body: Die-cast aluminium
		Neto weight: Luminaire - 24,3 kg
		Driver box - 7,4 kg (240 LED version)
		Driver box - 5,6 kg (288 LED version)

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

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

## ECO

4000 K | CRI 70

Number of LED's	240	288
Nominal current, mA	470	600
Power, W	700	900
Luminous Flux, lm	93000	107100
Efficacy, lm/W	133	119
Power factor, PF	0,96	0,97

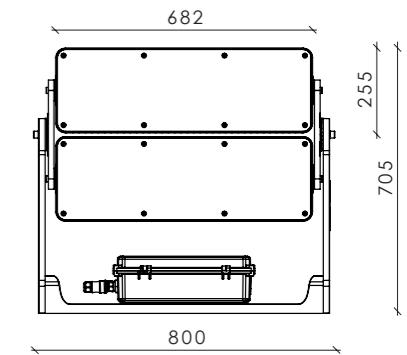
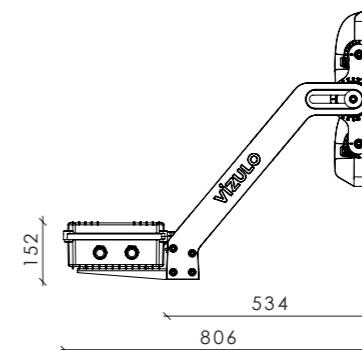
Luminaire efficacy	2700 K	700 - 1040 W	78640 - 111210 lm	106 - 116 lm/W
	3000 K	700 - 1040 W	85800 - 121340 lm	116 - 127 lm/W
	5000 K	700 - 1040 W	93000 - 131450 lm	119 - 137 lm/W
	5700 K	700 - 1040 W	93000 - 131450 lm	119 - 137 lm/W

\* Data for L01 optic.

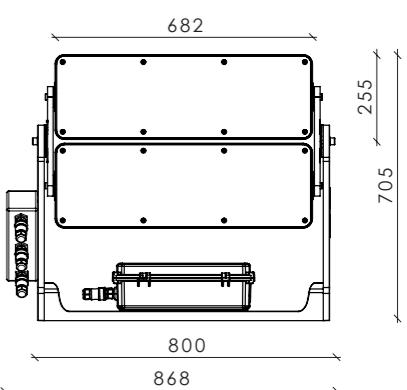
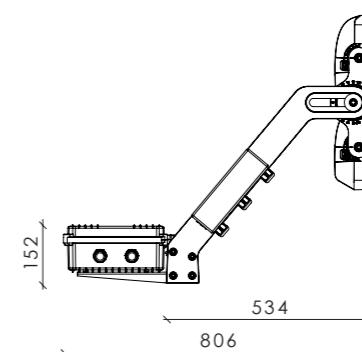
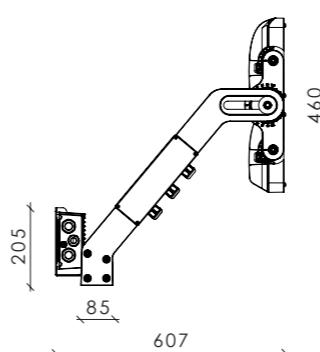
Check VIZULO members section for additional information

## Dimensions

### Basic

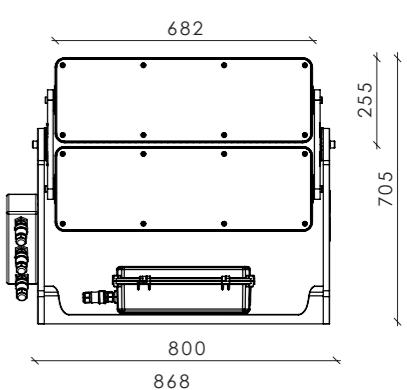
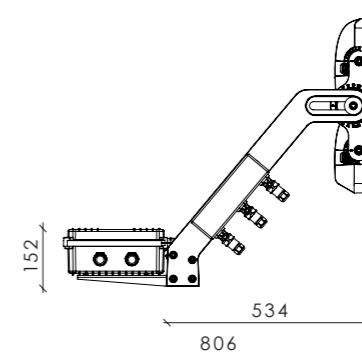
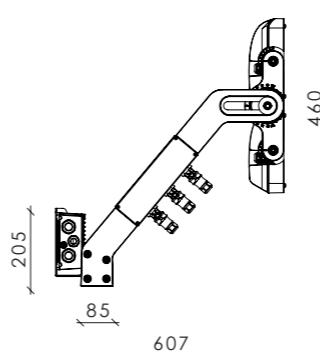


### Standard



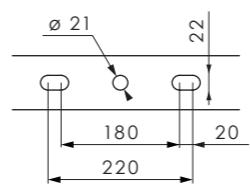
Dimensions with DELTA driver

### Premium



Dimensions with DELTA driver

### Mounting bracket



### Wind load

$SCx = 0.23 \text{ m}^2$

Maximal wind load with driver box depending to the angle relative to the ground

0°	15°	30°	45°	60°	75°	90°
0,14	0,21	0,27	0,32	0,36	0,38	0,38

# Eagle 3 heads



RAL9006   DB703   RAL9005  
Other colors available on request



## Technical information

3 head  
360 / 432 LED



V	220 - 240 (400 V on request)	1 - 10 V; DALI; DMX
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	330 - 1560 (360 LED version)	Warranty 5 years
	720 - 1560 (432 LED version)	50 000 h (L90B10) at Ta = 25 °C
lm	117 960 - 197 175 <sup>(1)</sup>	
lm/W	106 - 137	Flicker: IEEE 1789 Flicker Recommended Practice
K	2700 / 3000 / 4000 <sup>(2)</sup>	Compliant
°C	-40 to +50	Surge protection: 10 kV
CRI	>70 / >80 <sup>(3)</sup>	Console: Floodlight
		Body: Die-cast aluminium
		Neto weight: Luminaire - 33,1 kg
		Driver box - 8,1 kg (360 LED version)
		Driver box - 5,6 kg (432 LED version)

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

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

## ECO

4000 K | CRI 70

Number of LED's	360	432
Nominal current, mA	470	600
Power, W	1050	1350
Luminous Flux, lm	139500	160650
Efficacy, lm/W	133	119
Power factor, PF	0,96	0,97

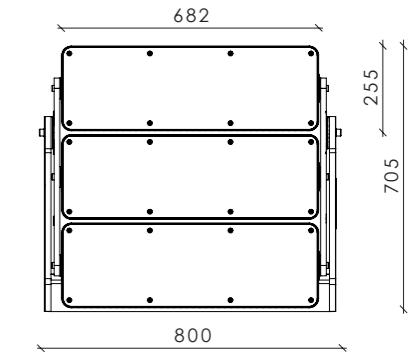
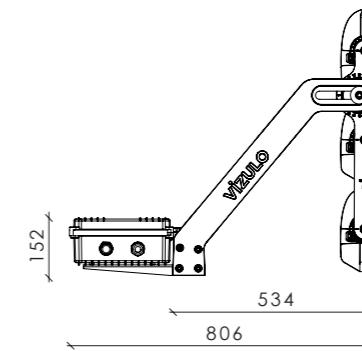
Luminaire efficacy	2700 K	350 - 520 W	117960 - 166815 lm	106 - 116 lm/W
	3000 K	350 - 520 W	128700 - 182010 lm	116 - 127 lm/W
	5000 K	350 - 520 W	139500 - 197175 lm	119 - 137 lm/W
	5700 K	350 - 520 W	139500 - 197175 lm	119 - 137 lm/W

\* Data for L01 optic.

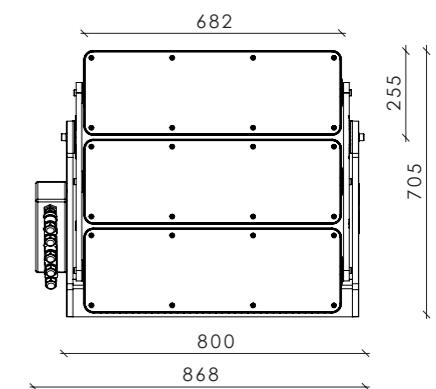
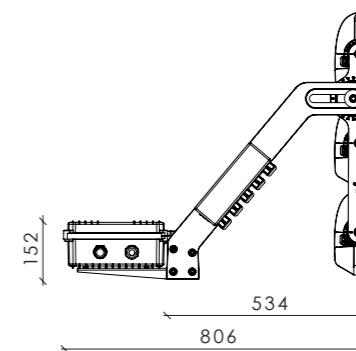
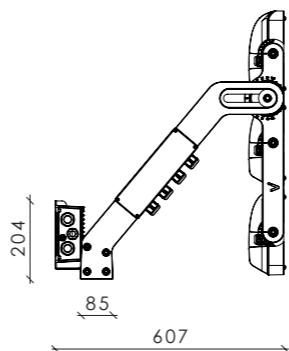
Check VIZULO members section for additional information

## Dimensions

### Basic

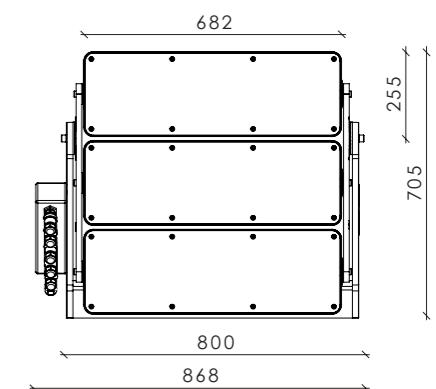
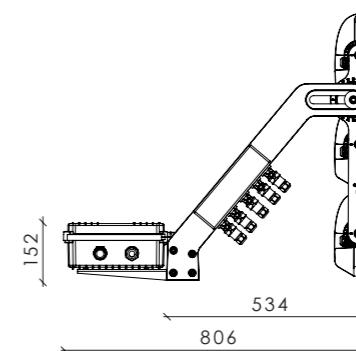
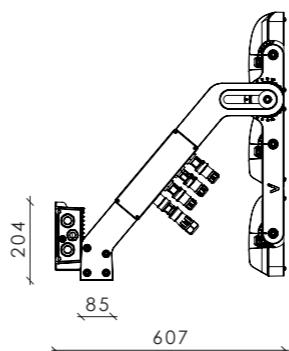


### Standard



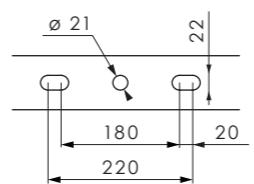
Dimensions with DELTA driver

### Premium



Dimensions with DELTA driver

### Mounting bracket



### Wind load

$SCx = 0.23 \text{ m}^2$

Maximal wind load with driver box depending to the angle relative to the ground

	0°	15°	30°	45°	60°	75°	90°
$SCx, \text{m}^2$	0,19	0,28	0,37	0,45	0,5	0,52	0,53

# Eagle 4 heads



RAL9006 DB703 RAL9005  
Other colors available on request



## Technical information

4 head  
480 / 576 LED



<b>V</b>	220 - 240 (400 V on request)	1 - 10 V; DALI; DMX
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	440 - 2400 (480 LED version)	Warranty 5 years
	960 - 2400 (576 LED version)	50 000 h (L90B10) at Ta = 25 °C
<b>lm</b>	157 280 - 262 900 <sup>(1)</sup>	
<b>lm/W</b>	106 - 137	Flicker: IEEE 1789 Flicker Recommended Practice
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Compliant
<b>°C</b>	-40 to +50	Surge protection: 10 kV
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Console: Floodlight
		Body: Die-cast aluminium
		Neto weight: Luminaire - 41,7 kg
		Driver box - 9,2 kg (480 LED version)
		Driver box - 11,2 kg (576 LED version)

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

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

## ECO

4000 K | CRI 70

Number of LED's	480	576
Nominal current, mA	470 600 680	400 510 580
Power, W	1400 1800 2080	1400 1800 2080
Luminous Flux, lm	186000 214200 251640	192400 235280 262900
Efficacy, lm/W	133 119 121	137 131 126
Power factor, PF	0,96 0,97 0,98	0,91 0,94 0,96

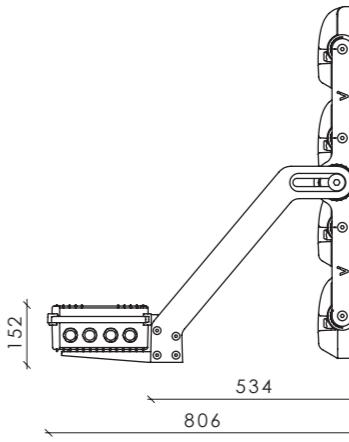
Luminaire efficacy	2700 K 350 - 520 W	157280 - 222420 lm	106 - 116 lm/W
	3000 K 350 - 520 W	171600 - 242680 lm	116 - 127 lm/W
	5000 K 350 - 520 W	186000 - 262900 lm	119 - 137 lm/W
	5700 K 350 - 520 W	186000 - 262900 lm	119 - 137 lm/W

\* Data for L01 optic.

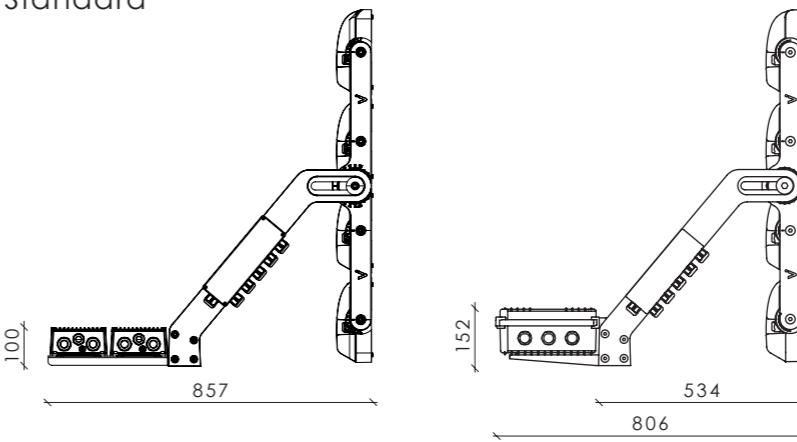
Check VIZULO members section for additional information

## Dimensions

### Basic

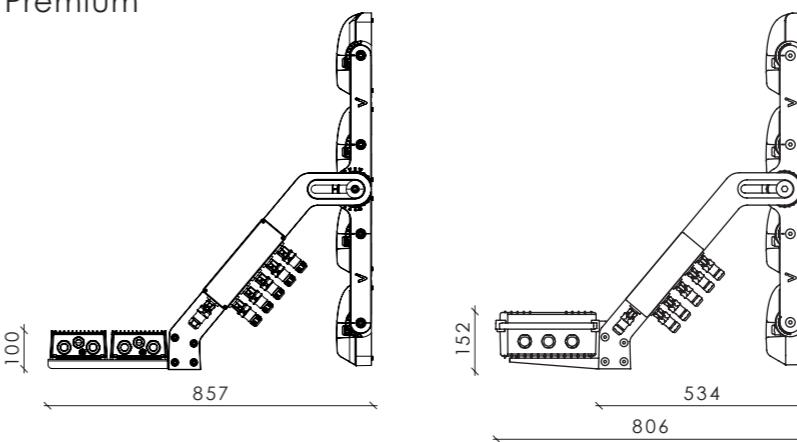


### Standard



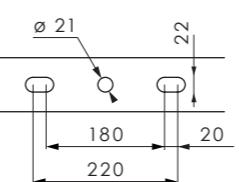
Dimensions with DELTA driver

### Premium



Dimensions with DELTA driver

### Mounting bracket



### Wind load

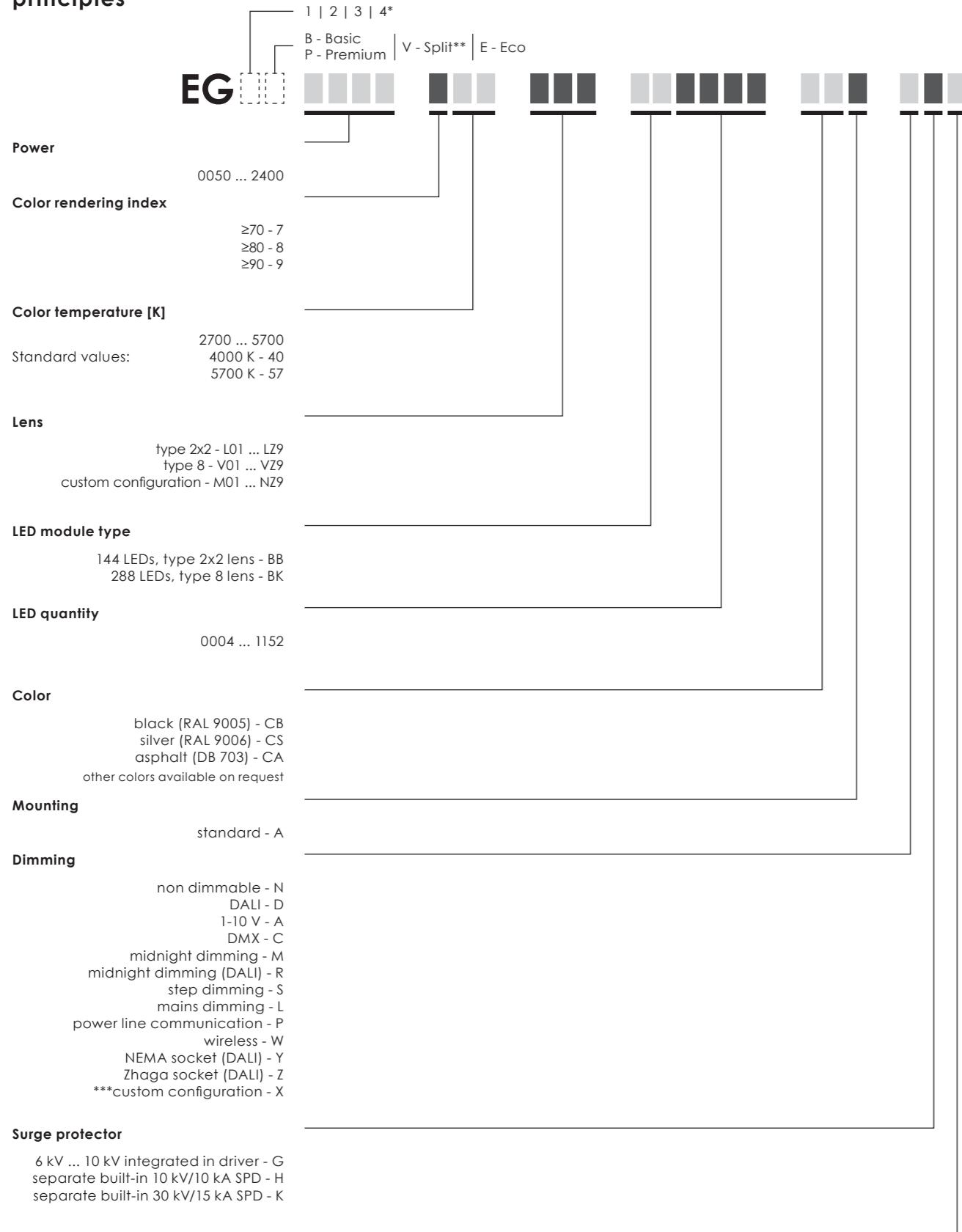
$SCx = 0.23 \text{ m}^2$

Maximal wind load with driver box depending to the angle relative to the ground

	0°	15°	30°	45°	60°	75°	90°
$SCx, \text{m}^2$	0,23	0,36	0,48	0,58	0,64	0,68	0,69

# Installation possibilities

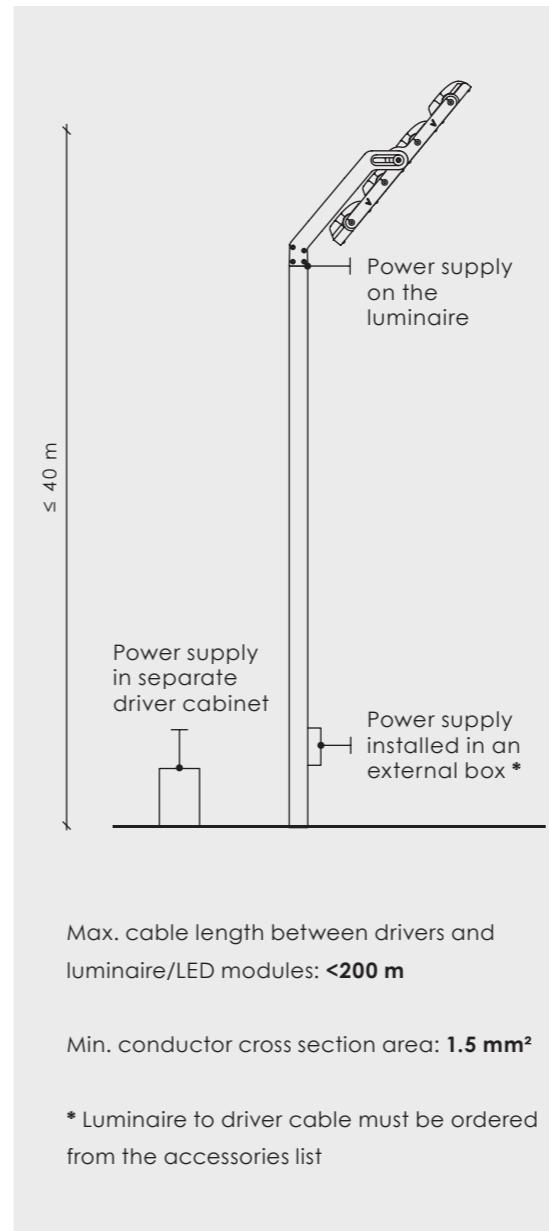
## Model name principles



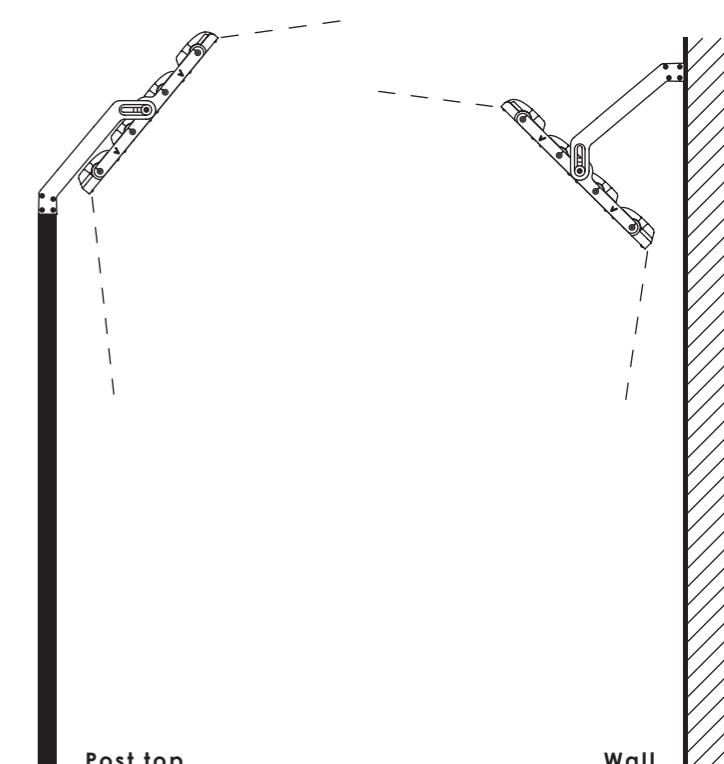
EXAMPLE EG4E 2080 740 L87 BB0576 CSA DG1

\* Head count  
\*\* External driver

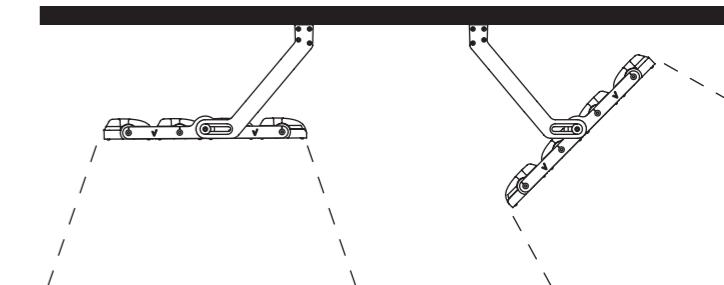
\*\*\* CUSTOM CONFIGURATION EXAMPLE:  
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.



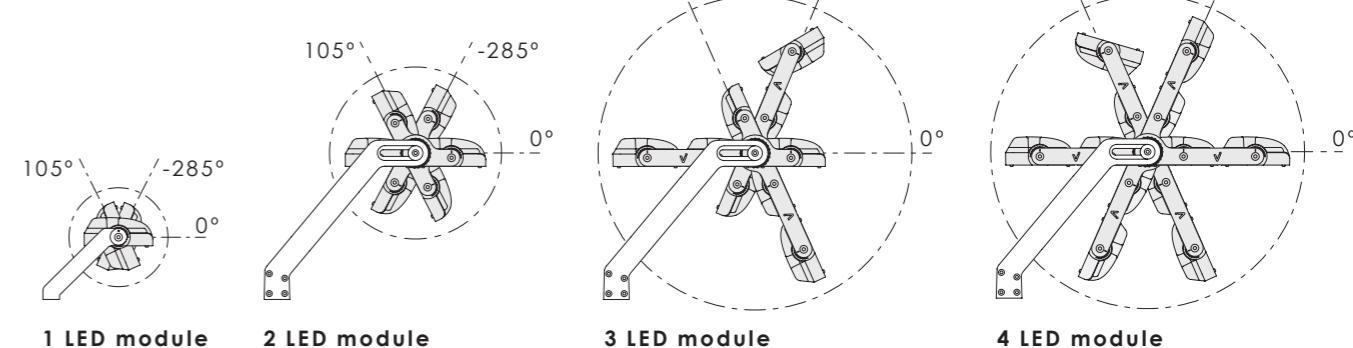
## Mounting options



## Surface



## Rotation options

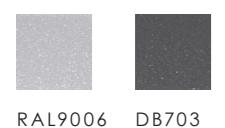




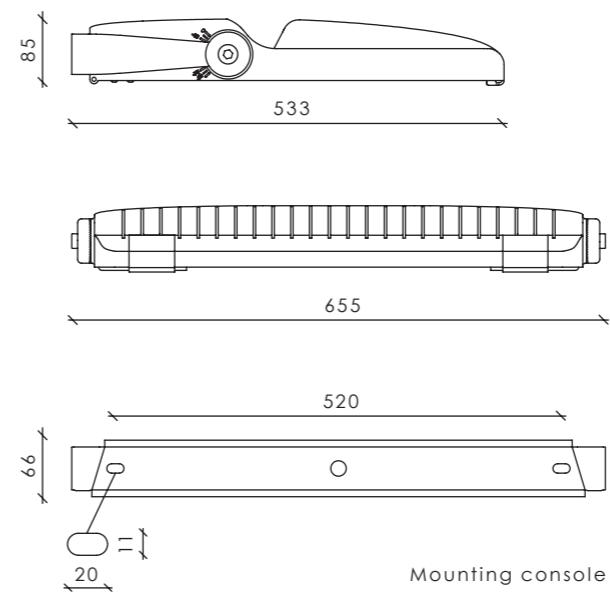
Stade Mathieu Bodmer, Evreux | France



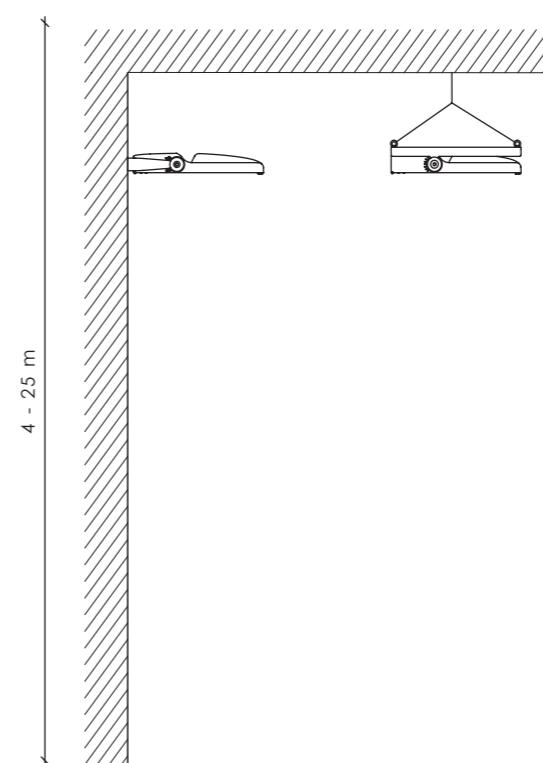
Beynes | France



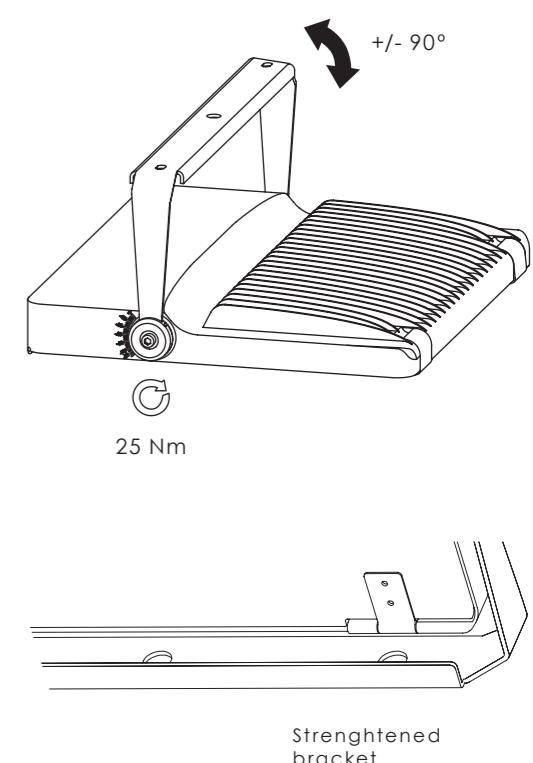
RAL9006 DB703 RAL9005  
Other colors available on request



Mounting console



4 - 25 m



Strenghtened bracket

## Technical information



V	220 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	85 - 380	Warranty 5 years
lm	11640 - 55455 <sup>(1)</sup>	>100 000 h (L95B10) at Ta = 25 °C
lm/W	112 - 172	100 000 h (L80B10C10) <sup>(4)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50 (85 - 340 W version)	
	-40 to +45 (340 - 380 W version)	
CRI	>70 / >80 <sup>(3)</sup>	Surge protection: 3 kV; 6 kV; 10 kV (optional) 10 kV (L/N -PE without DALI connection) <sup>(5)</sup>
		<i>Intelligent light control system:</i> Radio frequency / Power line <sup>(6)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,047

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available (2700 - 6500 K);

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

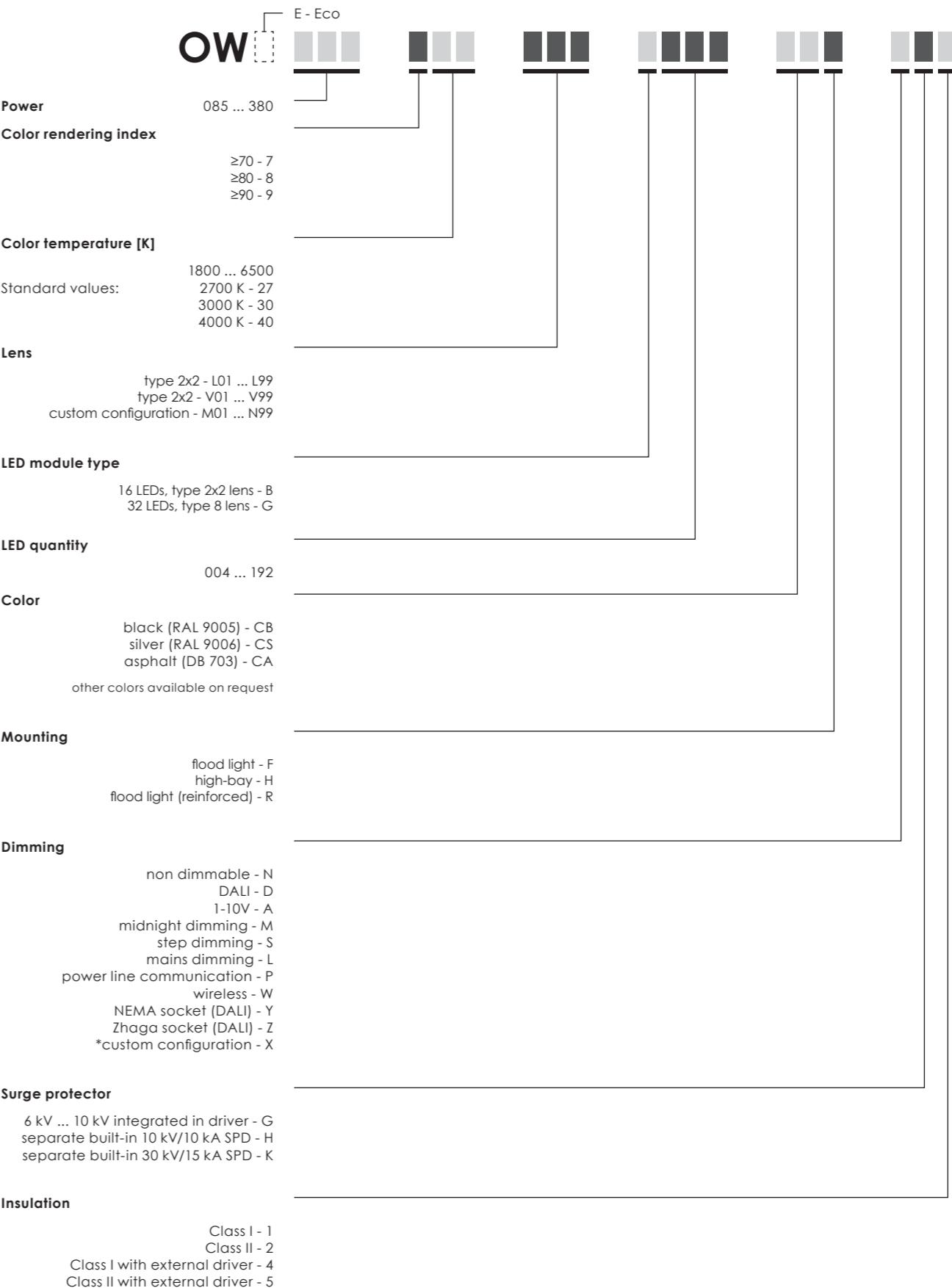
<sup>(5)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

Standard  
modules

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	80			96			112		
<b>Nominal current, mA</b>	350	540	780	300	520	720	250	500	700
<b>Power, W</b>	85	130	190	85	150	211	90	180	242
<b>Luminous Flux, lm</b>	12800	18630	25500	14600	24225	32250	14650	27550	34800
<b>Efficacy, lm/W</b>	151	143	134	172	162	153	163	153	144
<b>Power factor, PF</b>	0,92	0,97	0,98	0,92	0,97	0,99	0,95	0,98	0,98
<b>Number of LED's</b>	128			144			160		
<b>Nominal current, mA</b>	270	520	740	260	510	780	270	580	790
<b>Power, W</b>	104	200	288	116	220	340	127	280	380
<b>Luminous Flux, lm</b>	15430	28100	38200	18675	33510	48050	21180	42920	55190
<b>Efficacy, lm/W</b>	148	141	133	161	152	141	167	153	145
<b>Power factor, PF</b>	0,87	0,96	0,98	0,86	0,96	0,98	0,96	0,97	0,98
Luminaire efficacy	2700 K	85 - 380 W	11640 - 47280 lm	112 - 147 lm/W					
	3000 K	85 - 380 W	11640 - 52030 lm	124 - 162 lm/W					
	5000 K	85 - 380 W	12800 - 55190 lm	131 - 172 lm/W					
	5700 K	85 - 380 W	12800 - 55190 lm	131 - 172 lm/W					



Courchevel | France

ECO

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

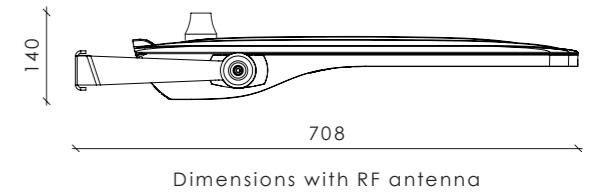
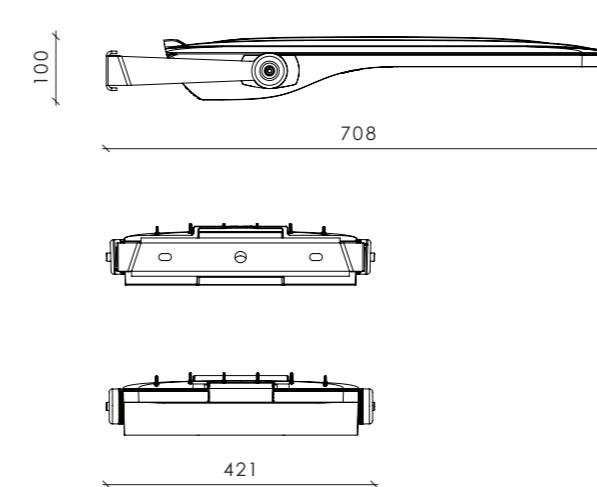
<b>Number of LED's</b>	48			64			80			96		
<b>Nominal current, mA</b>	300	500	690	280	500	680	280	460	670	270	430	630
<b>Power, W</b>	85	150	211	107	200	280	130	230	340	156	250	380
<b>Luminous Flux, lm</b>	12805	20275	26200	17545	28655	36500	21440	33440	44355	24950	36500	50015
<b>Efficacy, lm/W</b>	151	135	124	164	143	130	165	145	130	160	146	132
<b>Power factor, PF</b>	0,92	0,97	0,99	0,97	0,96	0,98	0,97	0,96	0,98	0,90	0,96	0,98
<b>Number of LED's</b>	112			128			144			160		
<b>Nominal current, mA</b>	350	490	540	350	440	490	350	400	440	340	360	395
<b>Power, W</b>	240	340	380	270	340	380	300	340	380	320	340	380
<b>Luminous Flux, lm</b>	35900	47150	51280	40420	48240	52335	44240	49000	53530	48490	50915	55455
<b>Efficacy, lm/W</b>	150	139	135	150	142	138	147	144	141	152	150	146
<b>Power factor, PF</b>	0,93	0,97	0,97	0,97	0,98	0,98	0,98	0,98	0,98	0,98	0,98	0,98



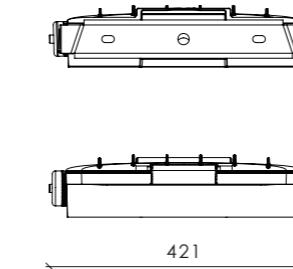
Blovice | Czechia

Luminaire efficacy	2700 K	85 - 380 W	12000 - 51950 lm	116 - 155 lm/W
	3000 K	85 - 380 W	12500 - 55455 lm	121 - 161 lm/W
	5000 K	85 - 380 W	12805 - 55455 lm	124 - 165 lm/W
	5700 K	85 - 380 W	12805 - 55455 lm	124 - 165 lm/W

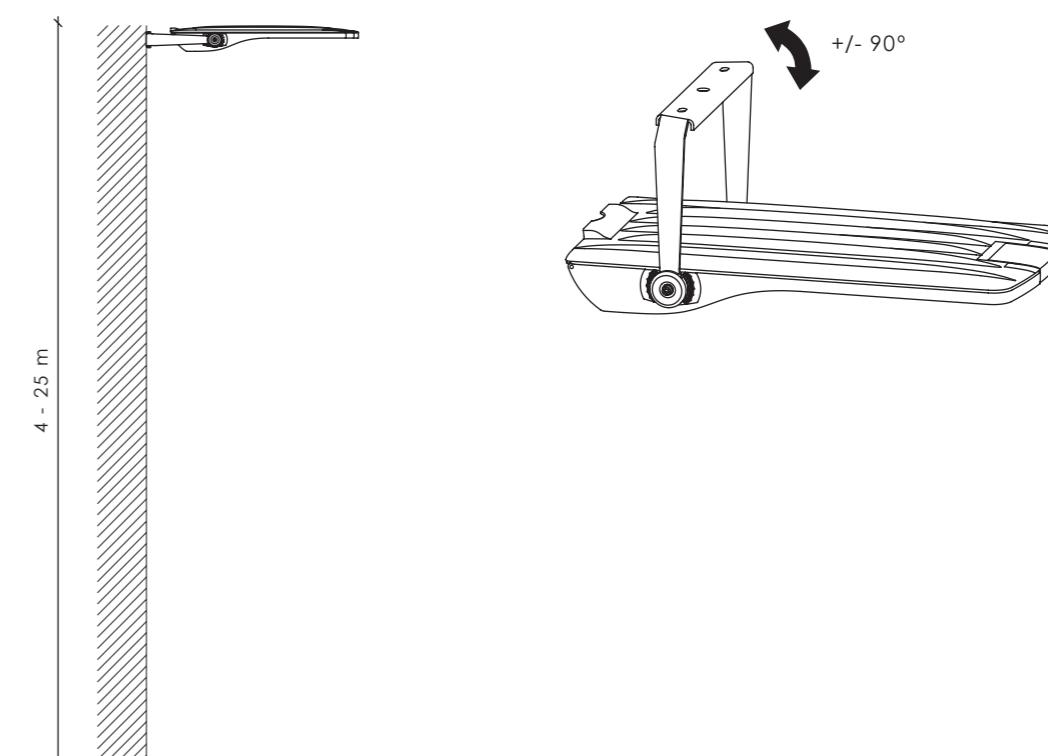
# Stork floodlight



Dimensions with RF antenna

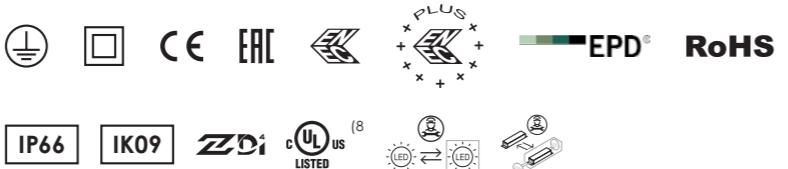


Dimensions with 2 Zhaga connectors



Other colors  
available on request

## Technical information



V	220 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 280	Warranty 5 years
lm	555 - 41000 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
lm/W	110 - 161	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50 (up to 240 W)	
	-40 to +35 (240 - 280 W)	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
		Intelligent light control system: Radio frequency / Power line <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,047

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available (2700 - 6500 K);

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

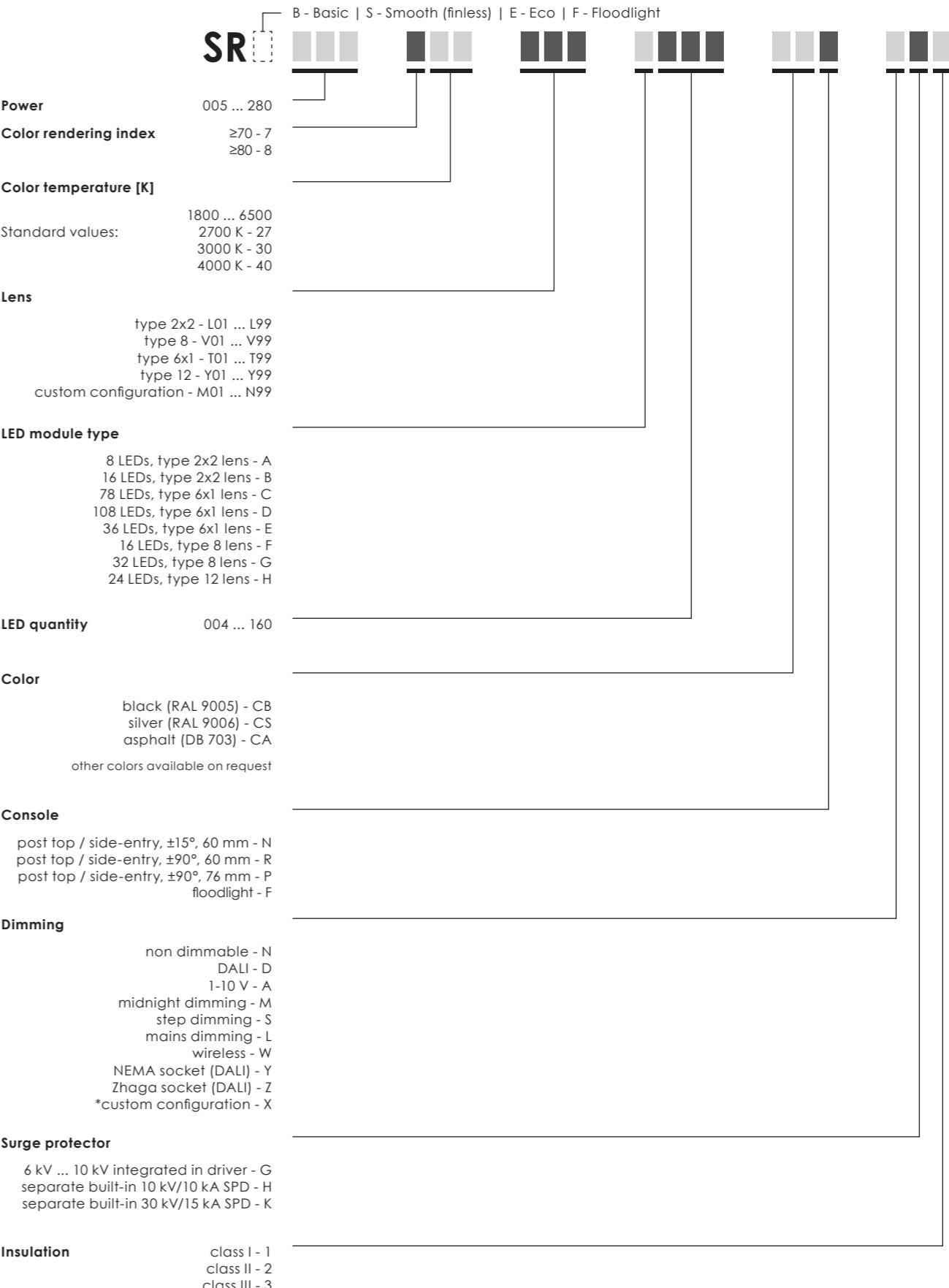
<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> 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 will reach 100 000 h L90/B10. 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

## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

## Standard modules

\* Data for L01 optic.

Check VIZULO members section for additional information

ECO

\* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	16		32		48				
<b>Nominal current, mA</b>	280	500	760	280	500	750	270	500	690
<b>Power, W</b>	15	26	39	28	50	75	40	75	102
<b>Luminous Flux, lm</b>	2180	3600	5300	4500	7550	10650	6360	11000	14800
<b>Efficacy, lm/W</b>	145	138	136	161	151	142	159	147	145
<b>Power factor, PF</b>	0,83	0,94	0,98	0,81	0,93	0,97	0,89	0,93	0,96

<b>Number of LED's</b>	64			80		
<b>Nominal current, mA</b>	250	500	700	250	500	780
<b>Power, W</b>	50	98	137	60	120	190
<b>Luminous Flux, lm</b>	8000	15000	19800	9650	18200	26600
<b>Efficacy, lm/W</b>	160	153	145	161	152	140
<b>Power factor, PF</b>	0,84	0,96	0,98	0,86	0,96	0,98

Luminaire efficacy	2700 K	15 - 190 W	1850 - 23000 lm	117 - 140 lm/W
	3000 K	15 - 190 W	2000 - 25000 lm	128 - 152 lm/W
	5000 K	15 - 190 W	2180 - 26600 lm	136 - 161 lm/W
	5700 K	15 - 190 W	2180 - 26600 lm	136 - 161 lm/W

## High density modules

\* Data for Y01 optic

Check VIZUQ members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8		16		24		32					
<b>Nominal current, mA</b>	220	470	700	280	490	700	270	500	700	250	500	700
<b>Power, W</b>	12	25	38	28	50	74	40	75	110	50	100	144
<b>Luminous Flux, lm</b>	1670	3300	4600	4100	6700	9100	6000	9700	13500	7500	13300	17500
<b>Efficacy, lm/W</b>	139	132	121	146	134	123	150	129	123	150	133	122
<b>Power factor, PF</b>	0,78	0,93	0,98	0,81	0,93	0,97	0,89	0,97	0,97	0,84	0,96	0,98

<b>Number of LED's</b>	48			64			80		
<b>Nominal current, mA</b>	270	500	700	270	500	680	270	500	560
<b>Power, W</b>	78	150	211	107	200	280	130	250	280
<b>Luminous Flux, lm</b>	12000	20000	25500	15700	25300	32100	19400	32700	35600
<b>Efficacy, lm/W</b>	154	133	121	147	127	115	149	131	127
<b>Power factor, PF</b>	0,97	0,97	0,99	0,95	0,96	0,98	0,88	0,97	0,97

Luminaire efficacy	2700 K	12 - 280 W	1560 - 33300 lm	108 - 142 lm/W
	3000 K	12 - 280 W	1620 - 34600 lm	112 - 148 lm/W
	5000 K	12 - 280 W	1670 - 35600 lm	115 - 154 lm/W
	5700 K	12 - 280 W	1670 - 35600 lm	115 - 154 lm/W

4000 K | CRI 70

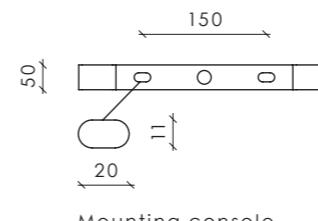
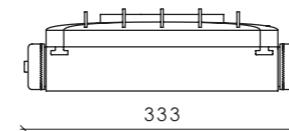
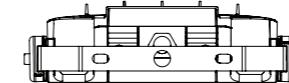
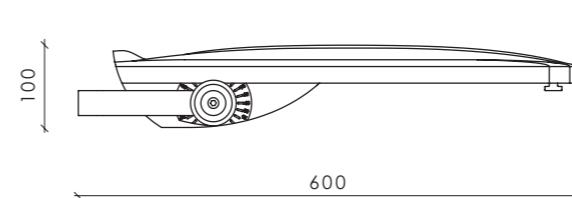
<b>Number of LED's</b>	96			128			160		
<b>Nominal current, mA</b>	260	500	710	260	500	720	260	500	610
<b>Power, W</b>	75			102	195	280	120	200	280
<b>Luminous Flux, lm</b>	11600	21000	28000	16000	29000	39300	19000	30500	41000
<b>Efficacy, lm/W</b>	155			157	149	140	158	153	146
<b>Power factor, PF</b>	0,90	0,97	0,98	0,85	0,96	0,98	0,86	0,96	0,98

Luminaire efficacy	2700 K	28 - 280 W	3600 - 35000 lm	116 - 138 lm/W
	3000 K	28 - 280 W	3900 - 39000 lm	129 - 152 lm/W
	5000 K	28 - 280 W	4300 - 41000 lm	137 - 161 lm/W
	5700 K	28 - 280 W	4300 - 41000 lm	137 - 161 lm/W

# Stork little brother floodlight



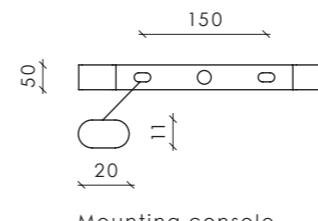
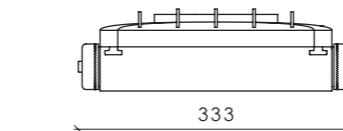
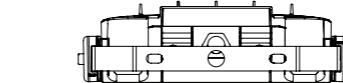
RAL9006 DB703 RAL9005 Other colors available on request



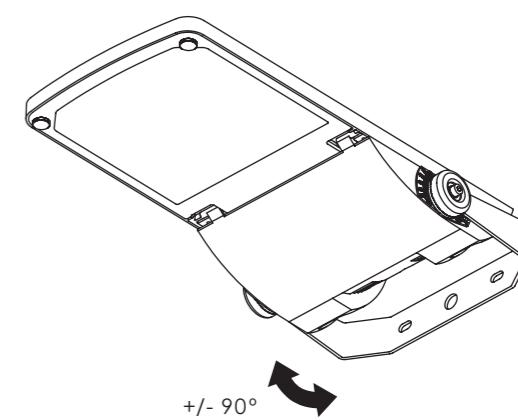
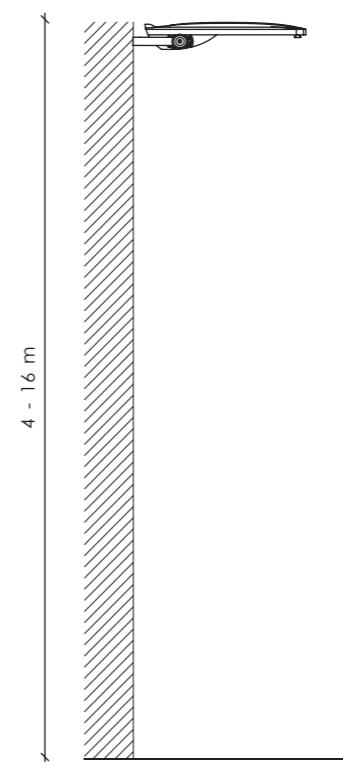
Mounting console



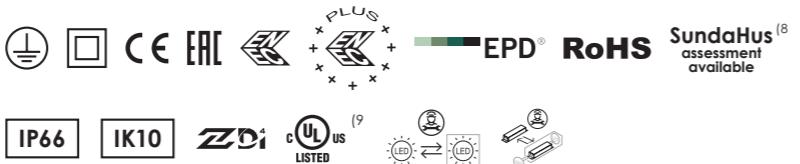
Dimensions with RF antenna



Dimensions with 2 Zhaga connectors



## Technical information



V	200 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 178	Warranty 5 years
lm	487 - 26000 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
lm/W	98 - 161	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
		Intelligent light control system: Radio frequency / Power line <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,04

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available (2700 - 6500 K);

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

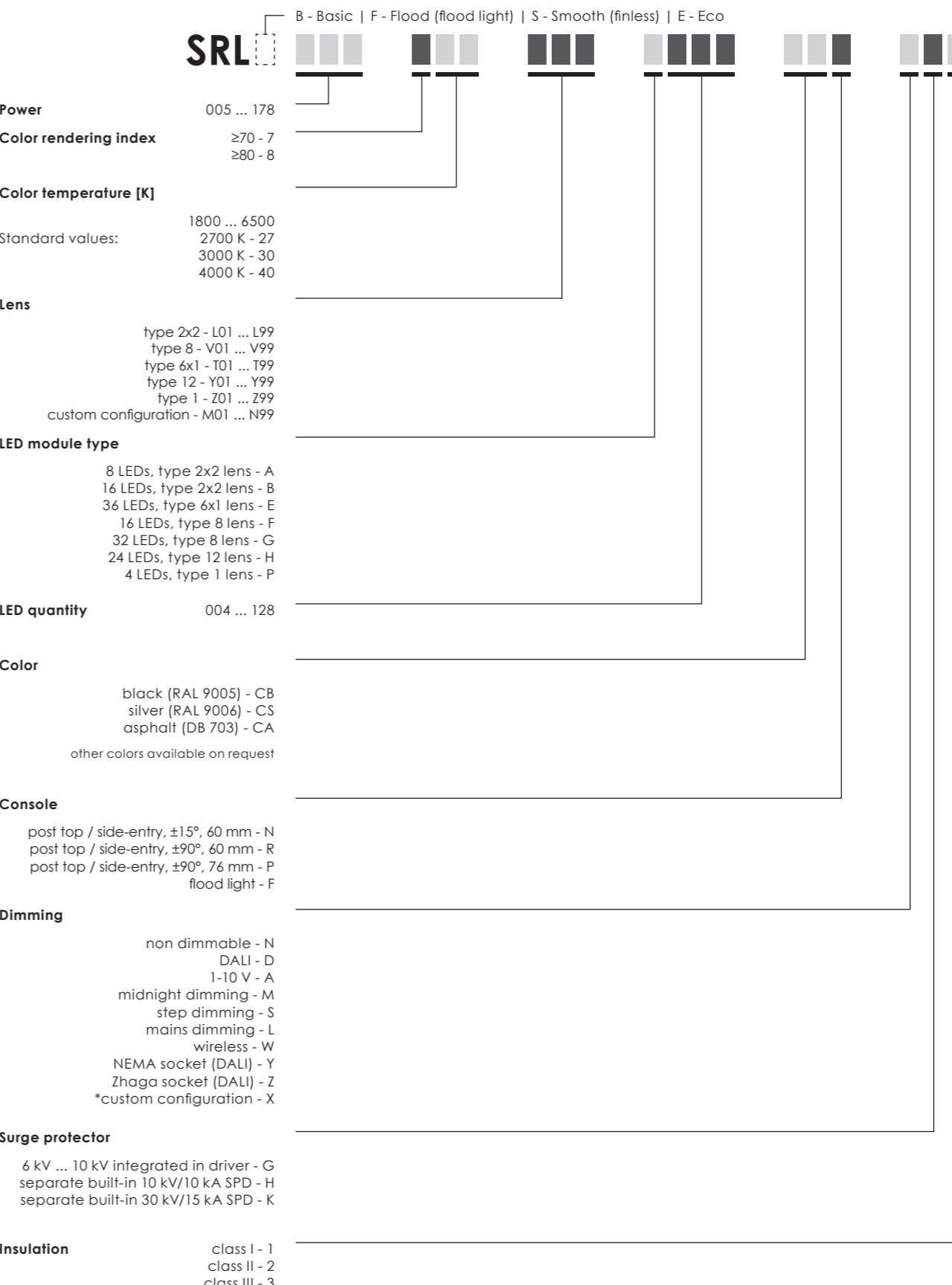
<sup>(8)</sup> Check SundaHus web page for product assessment results

<sup>(9)</sup> 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 will reach 100 000 h L90/B10. 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

## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			16			32		
<b>Nominal current, mA</b>	140	500	700	280	500	760	280	500	750
<b>Power, W</b>	5	14	19	15	26	39	28	50	75
<b>Luminous Flux, lm</b>	570	1900	2540	2180	3600	5300	4500	7550	10650
<b>Efficacy, lm/W</b>	114	136	134	145	138	136	161	151	142
<b>Power factor, PF</b>	0,69	0,89	0,94	0,83	0,94	0,98	0,81	0,93	0,97

<b>Number of LED's</b>	48			64		
<b>Nominal current, mA</b>	270	500	690	250	500	700
<b>Power, W</b>	40	75	102	50	98	137
<b>Luminous Flux, lm</b>	6360	11000	14800	8000	15000	19800
<b>Efficacy, lm/W</b>	159	147	145	160	153	145
<b>Power factor, PF</b>	0,89	0,93	0,96	0,84	0,96	0,98

Luminaire efficacy	2700 K	5 - 137 W	487 - 17000 lm	98 - 140 lm/W
	3000 K	5 - 137 W	540 - 18500 lm	108 - 152 lm/W
	5000 K	5 - 137 W	570 - 19800 lm	114 - 161 lm/W
	5700 K	5 - 137 W	570 - 19800 lm	114 - 161 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			16			24			32		
<b>Nominal current, mA</b>	280	490	700	280	490	700	270	500	700	250	500	700
<b>Power, W</b>	15	26	38	28	50	74	40	75	110	50	100	144
<b>Luminous Flux, lm</b>	2100	3400	4730	4100	6700	9100	6000	9700	13500	7500	13300	17500
<b>Efficacy, lm/W</b>	140	131	124	146	134	123	150	129	123	150	133	122
<b>Power factor, PF</b>	0,83	0,94	0,98	0,81	0,93	0,97	0,89	0,97	0,97	0,84	0,96	0,98

<b>Number of LED's</b>	36			48			64		
<b>Nominal current, mA</b>	270	500	700	270	500	680	270	390	460
<b>Power, W</b>	60	110	160	78	150	178	107	150	178
<b>Luminous Flux, lm</b>	9500	15500	20000	11000	19500	22000	16500	21600	25000
<b>Efficacy, lm/W</b>	158	141	125	141	130	124	154	144	140
<b>Power factor, PF</b>	0,95	0,95	0,98	0,93	0,97	0,99	0,97	0,97	0,98

Luminaire efficacy	2700 K	15 - 178 W	1960 - 23100 lm	115 - 148 lm/W
	3000 K	15 - 178 W	2040 - 24600 lm	121 - 154 lm/W
	5000 K	15 - 178 W	2100 - 25000 lm	122 - 158 lm/W
	5700 K	15 - 178 W	2100 - 25000 lm	122 - 158 lm/W

**High density  
modules**

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

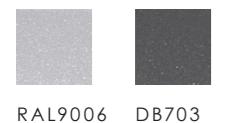
4000 K | CRI 70

<b>Number of LED's</b>	24			32			48			64		
<b>Nominal current, mA</b>	270	500	780	280	500	750	270	500	690	250	500	700
<b>Power, W</b>	21	38	59	28	50	75	40	75	102	50	98	137
<b>Luminous Flux, lm</b>	3100	5500	8000	4300	7400	10110	6300	11200	14500	7600	14000	18850
<b>Efficacy, lm/W</b>	148	145	136	154	148	135	158	149	142	152	143	138
<b>Power factor, PF</b>	0,87	0,95	0,98	0,81	0,93	0,97	0,89	0,92	0,96	0,84	0,96	0,98

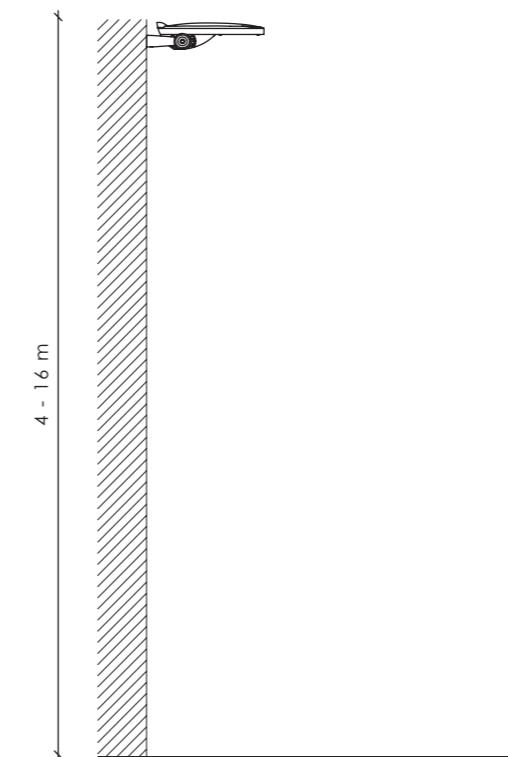
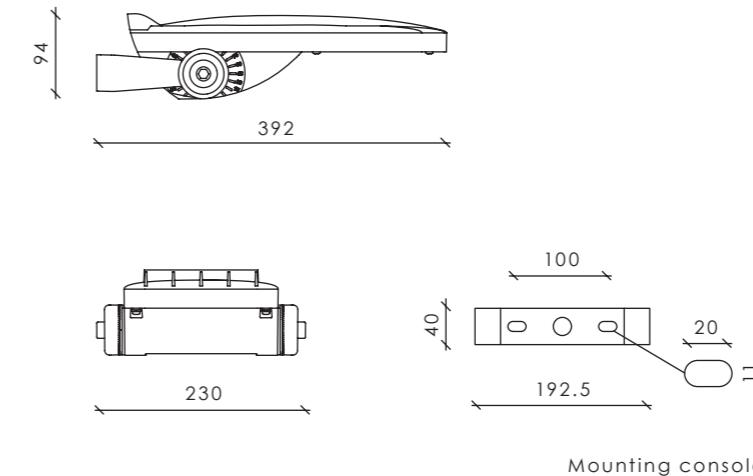
<b>Number of LED's</b>	80			96			128		
<b>Nominal current, mA</b>	270	500	710	270	500	740	270	370	480
<b>Power, W</b>	64	120	170	76	120	178	102	140	178
<b>Luminous Flux, lm</b>	10000	17800	24000	12000	17700	25000	16000	21000	26000
<b>Efficacy, lm/W</b>	156	148	141	158	148	140	157	150	146
<b>Power factor, PF</b>	0,87	0,96	0,98	0,90	0,96	0,98	0,85	0,97	0,98

Luminaire efficacy	2700 K	21 - 178 W	2700 - 10000 lm	119 - 138 lm/W
	3000 K	21 - 178 W	2970 - 11000 lm	129 - 152 lm/W
	5000 K	21 - 178 W	3100 - 26000 lm	136 - 158 lm/W
	5700 K	21 - 178 W	3100 - 26000 lm	136 - 158 lm/W

# Stork little sister floodlight



RAL9006 DB703 RAL9005  
Other colors available on request



## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 80	Warranty 5 years
lm	430 - 10500 <sup>(1)</sup>	100 000 h (L90B10C10) <sup>(4)</sup>
lm/W	86 - 150	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6; 10 kV (optional) <sup>(6)</sup>
		Intelligent light control system: Radio frequency / Power line <sup>(7)</sup>
		Socket: Zhaga / NEMA (configurations with Zhaga socket up to 65 W)
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,033

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

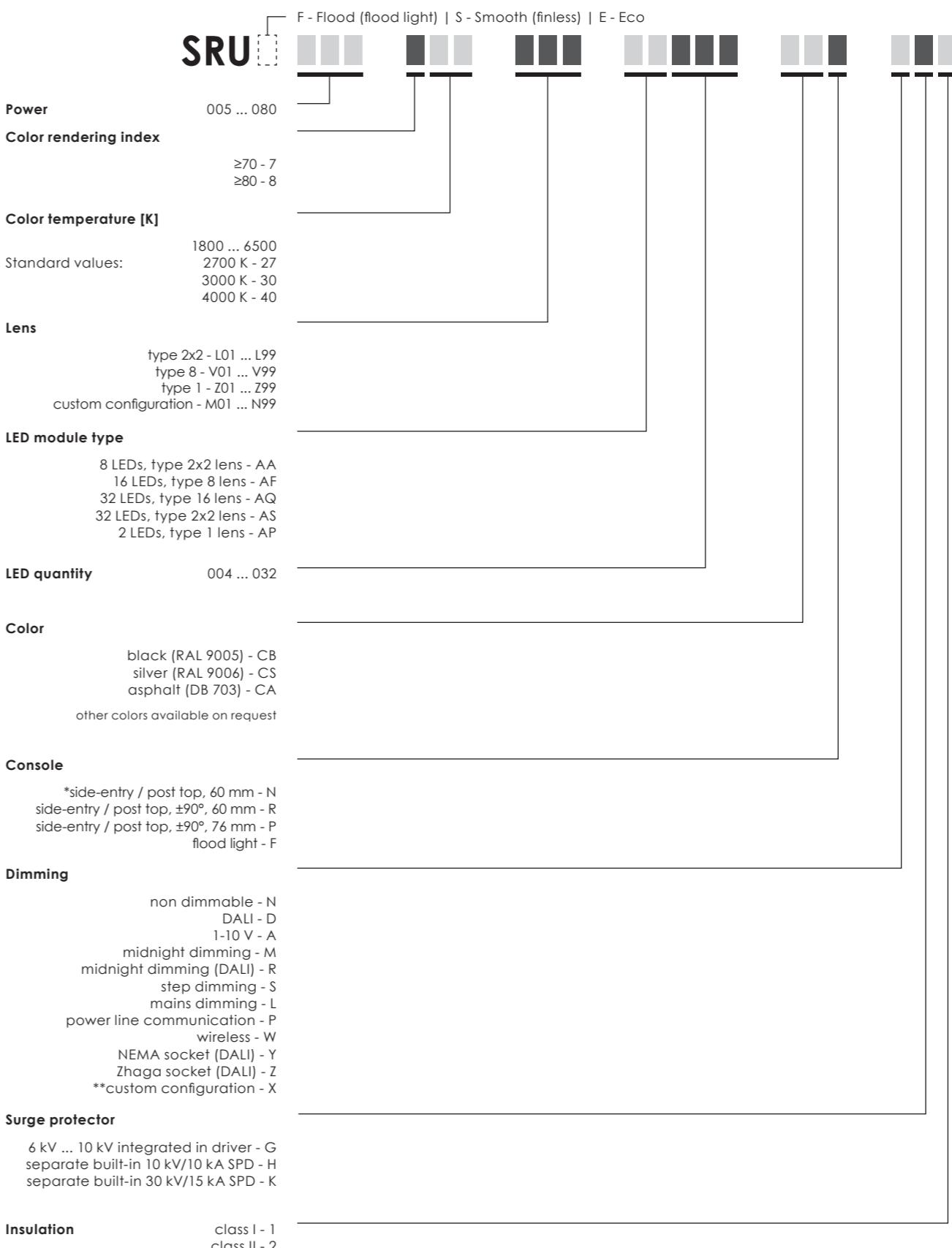
<sup>(6)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



\*Console regulation range - side entry: +15° ... -25° | post top: +40° ... -5°

\*\* CUSTOM CONFIGURATION EXAMPLE:  
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4	8	16
<b>Nominal current, mA</b>	270	500	730
<b>Power, W</b>	5	8	11
<b>Luminous Flux, lm</b>	500	890	1250
<b>Efficacy, lm/W</b>	100	111	114
<b>Power factor, PF</b>	0,83	0,89	0,93

Luminaire efficacy	2700 K	5 - 39 W	430 - 4400 lm	86 - 119 lm/W
	3000 K	5 - 39 W	470 - 4800 lm	94 - 130 lm/W
	5000 K	5 - 39 W	500 - 5300 lm	100 - 143 lm/W
	5700 K	5 - 39 W	500 - 5300 lm	100 - 143 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4	8	12	16
<b>Nominal current, mA</b>	140	490	670	280
<b>Power, W</b>	5	14	19	26
<b>Luminous Flux, lm</b>	550	1600	2200	2200
<b>Efficacy, lm/W</b>	110	114	116	147
<b>Power factor, PF</b>	0,69	0,89	0,94	0,90

Luminaire efficacy	2700 K	5 - 74 W	500 - 9000 lm	100 - 143 lm/W
	3000 K	5 - 74 W	540 - 9300 lm	108 - 146 lm/W
	5000 K	5 - 74 W	550 - 9600 lm	110 - 150 lm/W
	5700 K	5 - 74 W	550 - 9600 lm	110 - 150 lm/W

**High density  
modules**

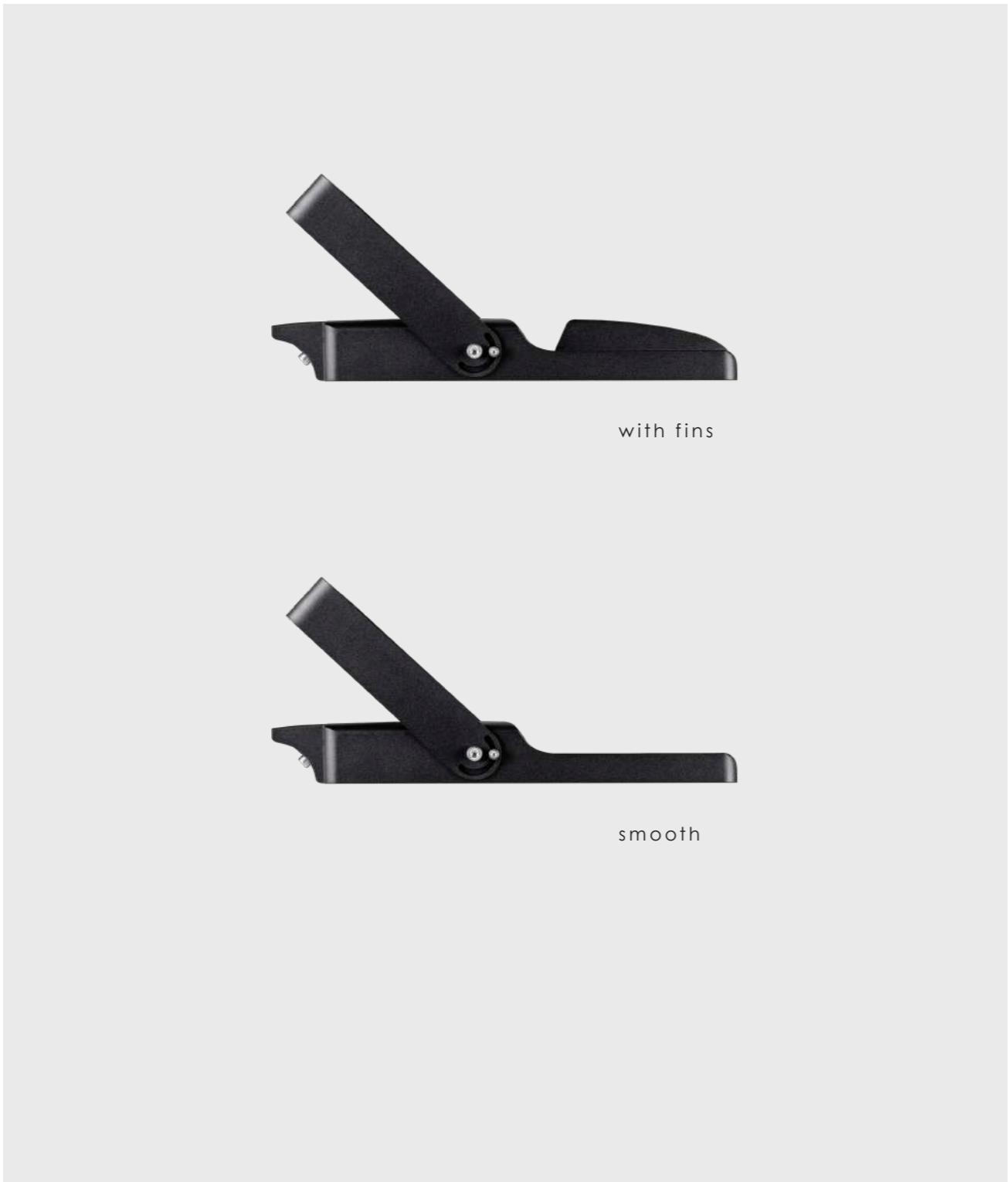
\* Data for V01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	16	32
<b>Nominal current, mA</b>	280	490
<b>Power, W</b>	15	25
<b>Luminous Flux, lm</b>	2150	3500
<b>Efficacy, lm/W</b>	143	140
<b>Power factor, PF</b>	0,90	0,97

Luminaire efficacy	2700 K	15 - 80 W	1820 - 8900 lm	113 - 127 lm/W
	3000 K	15 - 80 W	2000 - 9900 lm	126 - 141 lm/W
	5000 K	15 - 80 W	2150 - 10500 lm	131 - 148 lm/W
	5700 K	15 - 80 W	2150 - 10500 lm	131 - 148 lm/W

# Mini martin floodlight



with fins

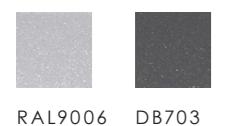
smooth



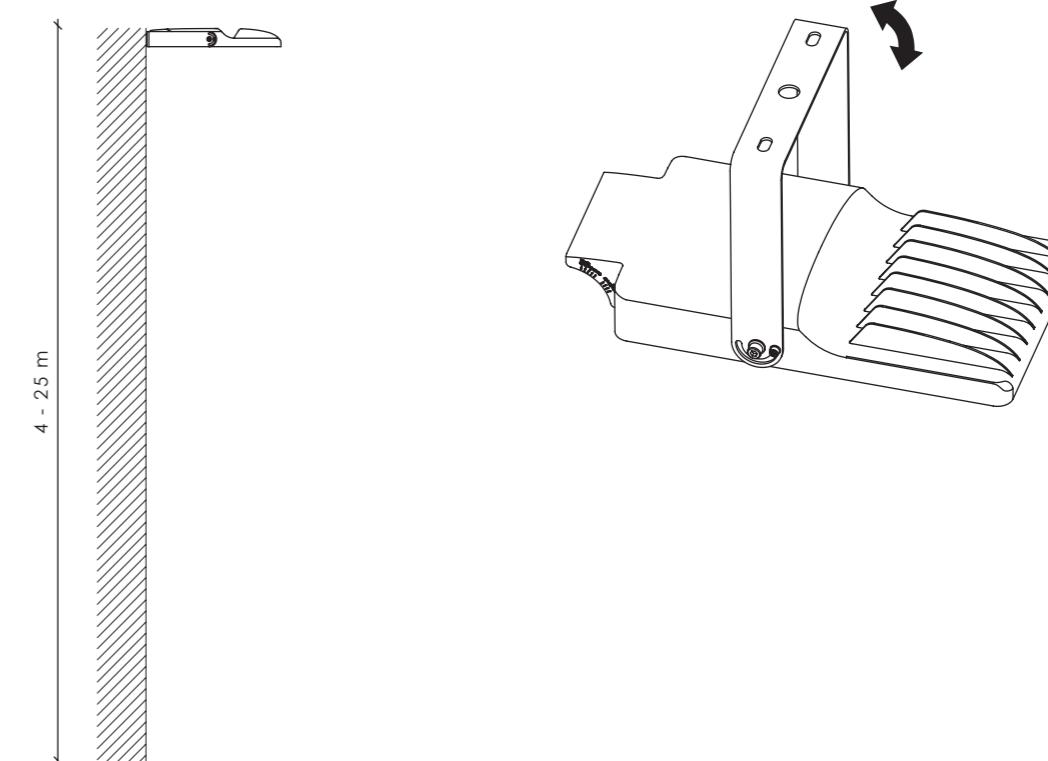
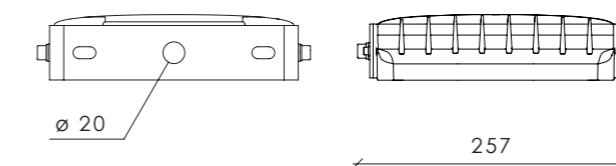
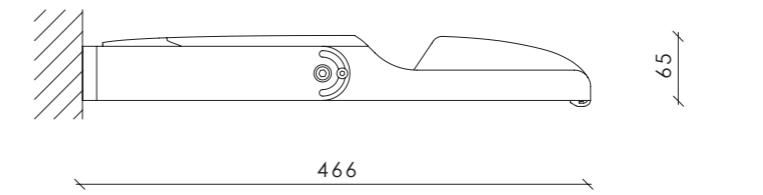
tool-less

smooth

# Mini martin floodlight with fins



RAL9006 DB703 RAL9005 Other colors available on request



## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 110	Warranty 5 years
lm	446 - 16000 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
lm/W	90 - 160	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
		Intelligent light control system: Radio frequency <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,036

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> Check SundaHus web page for product assessment results

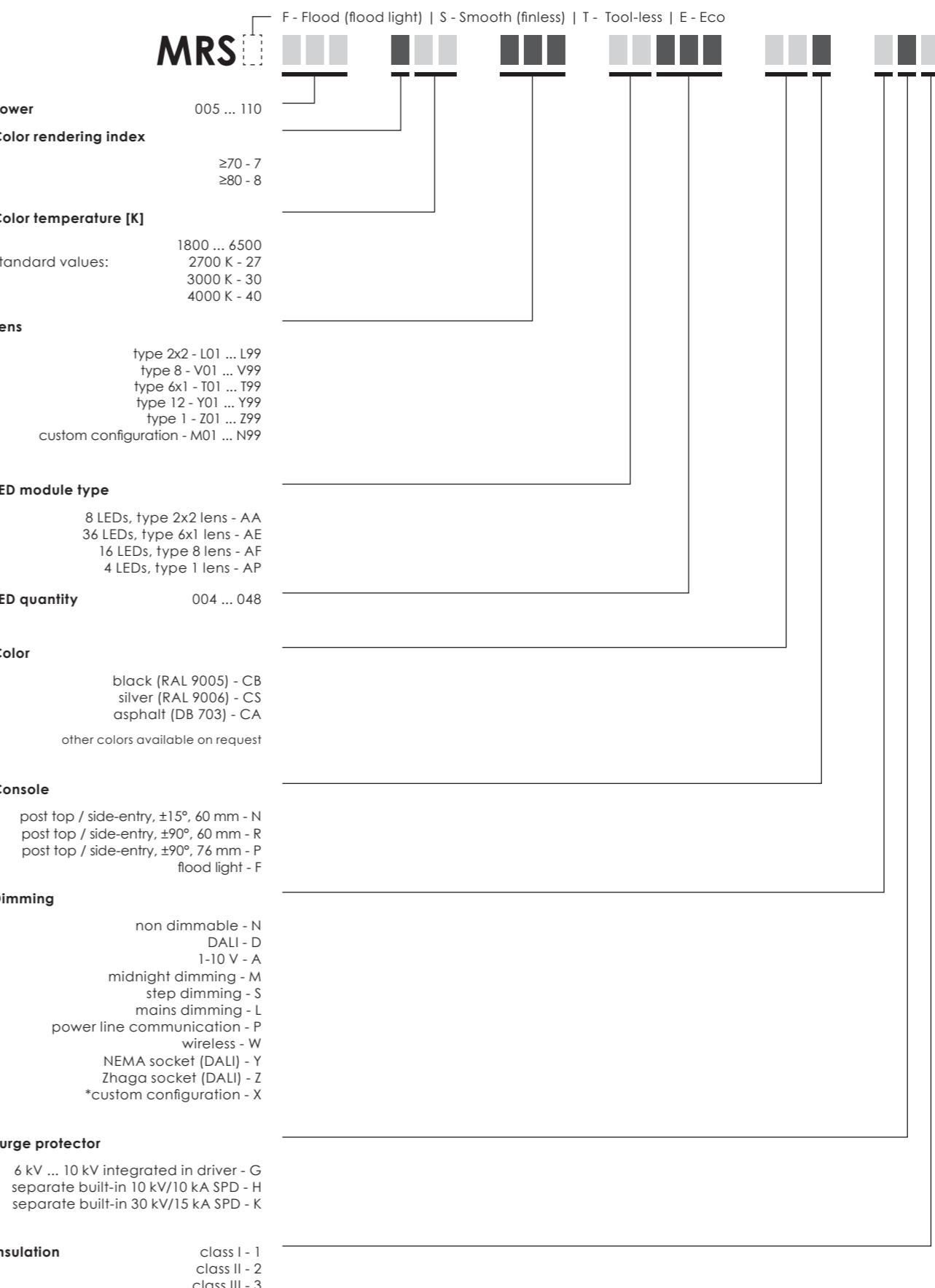
<sup>(9)</sup> IK09 - screw version with tempered unprinted glass

<sup>(10)</sup> 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 will reach 100 000 h L90/B10. 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

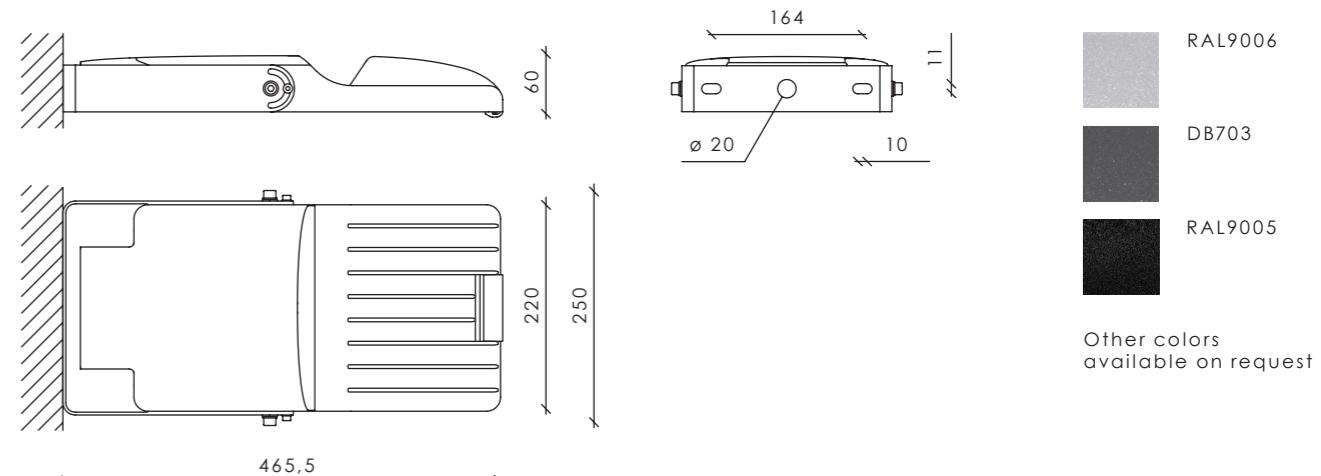
## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

# Mini martin floodlight tool-less



## Technical information

<b>V</b>	198 - 264
<b>Hz</b>	50 - 60
<b>W</b>	5 - 110
<b>lm</b>	446 - 16000 <sup>(1)</sup>
<b>lm/W</b>	90 - 160
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>
<b>°C</b>	-40 to +50
<b>CRI</b>	>70 / >80 <sup>(3)</sup>

1 - 10 V; DALI; Midnight dimming	
Chromaticity tolerance (initial MacAdam): 5	
Warranty 5 years	
100 000 h (L80B10C10) <sup>(4)</sup>	
100 000 h (L95B10C10) <sup>(5)</sup>	
Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>	
Intelligent light control system:	Radio frequency <sup>(7)</sup>
Socket:	Zhaga / NEMA
Body:	Die-cast aluminium
Max. wind load area, SCd, m <sup>2</sup> :	0,036

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> Check SundaHus web page for product assessment results

<sup>(9)</sup> IK09 - screw version with tempered unprinted glass

<sup>(10)</sup> 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 will reach 100 000 h L90/B10. 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

<b>Number of LED's</b>	4			8			12		
<b>Nominal current, mA</b>	270	500	730	140	540	700	280	500	670
<b>Power, W</b>	5	8	11	5	15	19	12	20	26
<b>Luminous Flux, lm</b>	520	920	1300	560	2000	2500	1650	2800	3550
<b>Efficacy, lm/W</b>	104	115	118	112	133	132	138	140	137
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,90	0,94	0,85	0,95	0,97

<b>Number of LED's</b>	16			24		
<b>Nominal current, mA</b>	280	500	680	260	470	700
<b>Power, W</b>	15	25	35	20	35	52
<b>Luminous Flux, lm</b>	2150	3630	5000	3060	5300	7300
<b>Efficacy, lm/W</b>	143	145	143	153	151	140
<b>Power factor, PF</b>	0,90	0,97	0,97	0,86	0,94	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

<b>Number of LED's</b>	16			32			48		
<b>Nominal current, mA</b>	280	480	760	290	500	760	270	500	750
<b>Power, W</b>	15	25	39	29	50	75	40	75	110
<b>Luminous Flux, lm</b>	2150	3540	5300	4600	7600	10600	6400	11200	16000
<b>Efficacy, lm/W</b>	143	142	136	159	152	141	160	149	145
<b>Power factor, PF</b>	0,83	0,93	0,98	0,82	0,93	0,97	0,98	0,97	0,97

Luminaire efficacy	2700 K	15 - 110 W	1850 - 13600 lm	115 - 137 lm/W
	3000 K	15 - 110 W	2000 - 15000 lm	126 - 150 lm/W
	5000 K	15 - 110 W	2150 - 16000 lm	136 - 160 lm/W
	5700 K	15 - 110 W	2150 - 16000 lm	136 - 160 lm/W

**ECO**

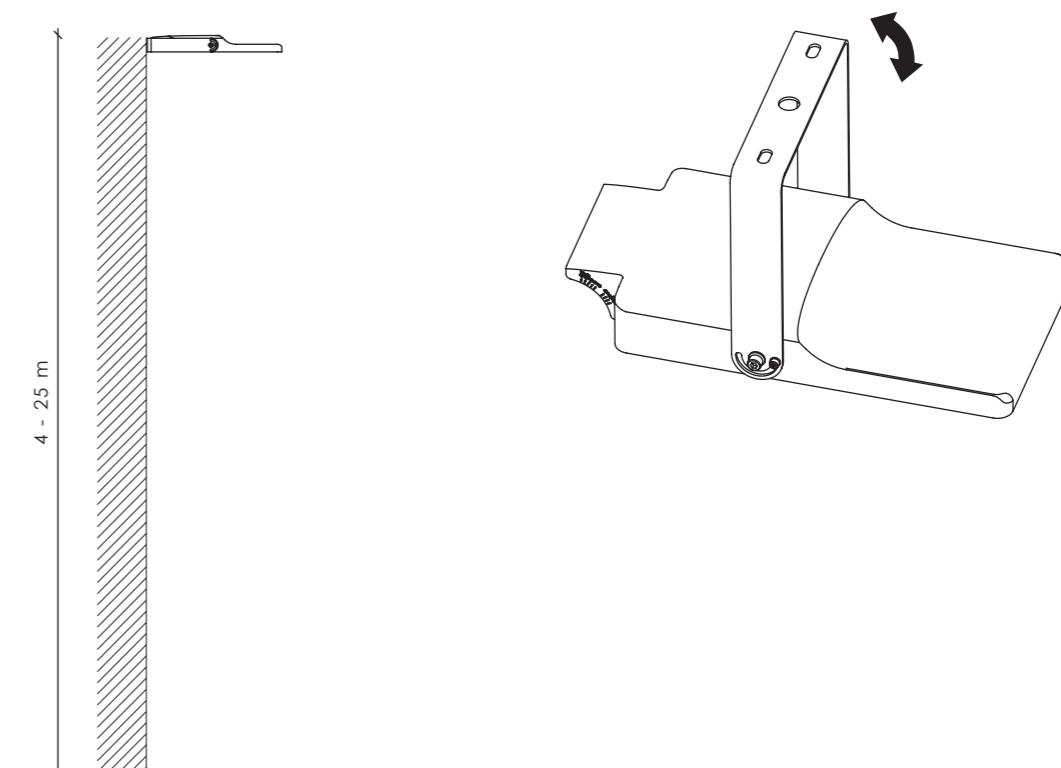
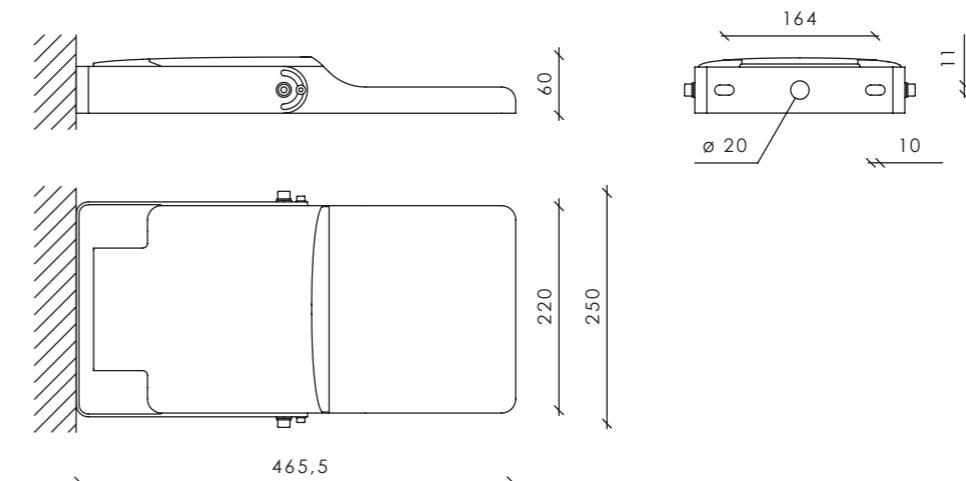
\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

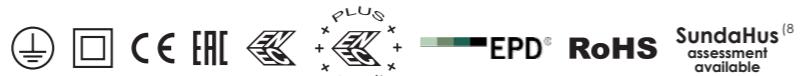
<b>Number of LED's</b>	8			16			24		
<b>Nominal current, mA</b>	280	470	700	280	490	710	270	470	710
<b>Power, W</b>	15	25	38	28	50	75	40	70	110
<b>Luminous Flux, lm</b>	2100	3400	4700	4200	6800	9300	6200	9700	13500
<b>Efficacy, lm/W</b>	140	136	124	150	136	124	155	139	123
<b>Power factor, PF</b>	0,90	0,97	0,98	0,95	0,93	0,97	0,95	0,97	0,97

Luminaire efficacy	2700 K	15 - 110 W	1975 - 12600 lm	116 - 144 lm/W
	3000 K	15 - 110 W	2100 - 13500 lm	123 - 154 lm/W
	5000 K	15 - 110 W	2100 - 13500 lm	123 - 155 lm/W
	5700 K	15 - 110 W	2100 - 13500 lm	123 - 155 lm/W

# Mini martin floodlight smooth



## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 75	Warranty 5 years
lm	446 - 11200 <sup>(1)</sup>	100 000 h (L80B10C10) <sup>(4)</sup>
lm/W	90 - 160	100 000 h (L95B10C10) <sup>(5)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>
		Intelligent light control system: Radio frequency <sup>(7)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,036

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> Check SundaHus web page for product assessment results

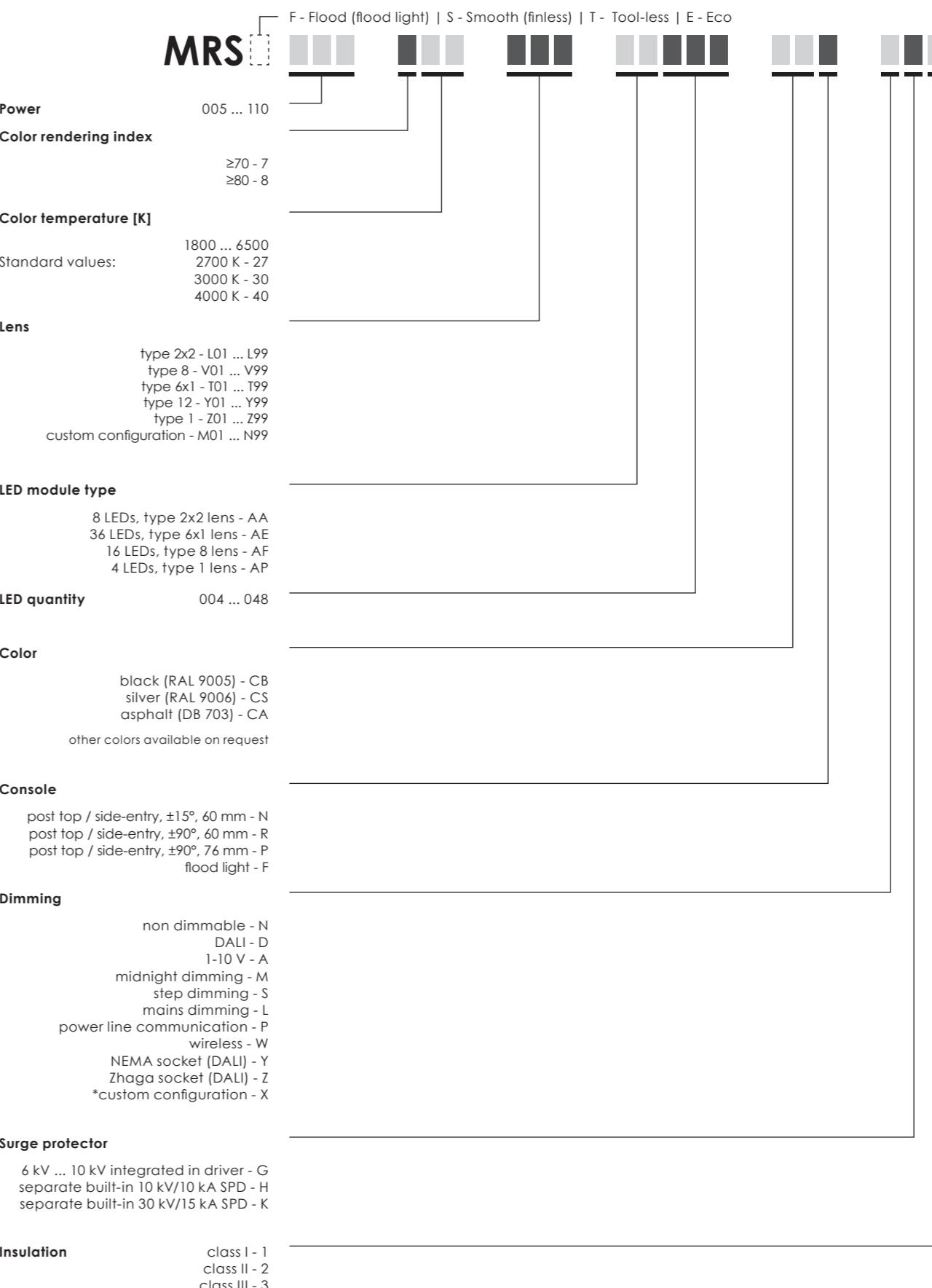
<sup>(9)</sup> IK09 - screw version with tempered unprinted glass

<sup>(10)</sup> 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 will reach 100 000 h L90/B10. 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

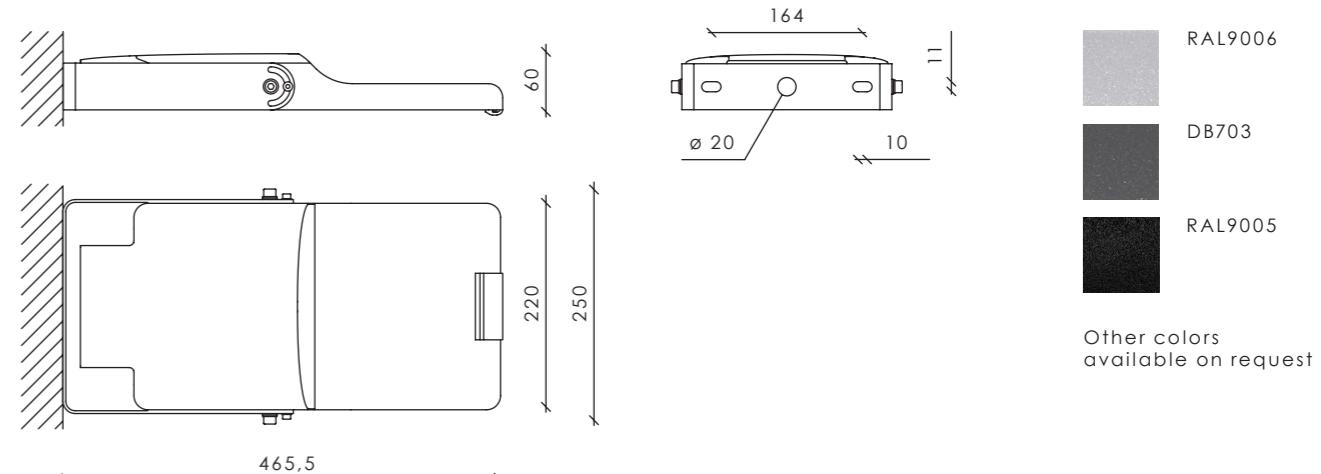
## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

# Mini martin floodlight tool-less smooth



## Technical information

<b>V</b>	198 - 264
<b>Hz</b>	50 - 60
<b>W</b>	5 - 75
<b>lm</b>	446 - 11200 <sup>(1)</sup>
<b>lm/W</b>	90 - 160
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>
<b>°C</b>	-40 to +50
<b>CRI</b>	>70 / >80 <sup>(3)</sup>

1 - 10 V; DALI; Midnight dimming	
Chromaticity tolerance (initial MacAdam): 5	
Warranty 5 years	
100 000 h (L80B10C10) <sup>(4)</sup>	
100 000 h (L95B10C10) <sup>(5)</sup>	
Surge protection: 3; 6; 10 kV (optional) <sup>(6)</sup>	
Intelligent light control system:	Radio frequency <sup>(7)</sup>
Socket:	Zhaga / NEMA
Body:	Die-cast aluminium
Max. wind load area, SCd, m <sup>2</sup> :	0,036

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Standard / High Density at Ta = 25 °C, this value is only informative and may change according to selected article

<sup>(6)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(7)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(8)</sup> Check SundaHus web page for product assessment results

<sup>(9)</sup> IK09 - screw version with tempered unprinted glass

<sup>(10)</sup> 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 will reach 100 000 h L90/B10. 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
<b>Nominal current, mA</b>	270	500	730
<b>Power, W</b>	5	8	11
<b>Luminous Flux, lm</b>	520	920	1300
<b>Efficacy, lm/W</b>	104	115	118
<b>Power factor, PF</b>	0,83	0,89	0,93
	0,69	0,90	0,94
	0,85	0,95	0,97

Number of LED's	16	24
<b>Nominal current, mA</b>	280	500
<b>Power, W</b>	15	25
<b>Luminous Flux, lm</b>	2150	3630
<b>Efficacy, lm/W</b>	143	145
<b>Power factor, PF</b>	0,90	0,97
	0,97	0,97
	0,86	0,94
	0,97	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
<b>Nominal current, mA</b>	280	480	760
<b>Power, W</b>	15	25	39
<b>Luminous Flux, lm</b>	2150	3540	5300
<b>Efficacy, lm/W</b>	143	142	136
<b>Power factor, PF</b>	0,83	0,93	0,98
	0,82	0,93	0,97
	0,98	0,97	0,98
	0,97	0,98	0,97

Luminaire efficacy	2700 K	15 - 75 W	1850 - 9600 lm	115 - 137 lm/W
	3000 K	15 - 75 W	2000 - 10500 lm	126 - 150 lm/W
	5000 K	15 - 75 W	2150 - 11200 lm	136 - 160 lm/W
	5700 K	15 - 75 W	2150 - 11200 lm	136 - 160 lm/W

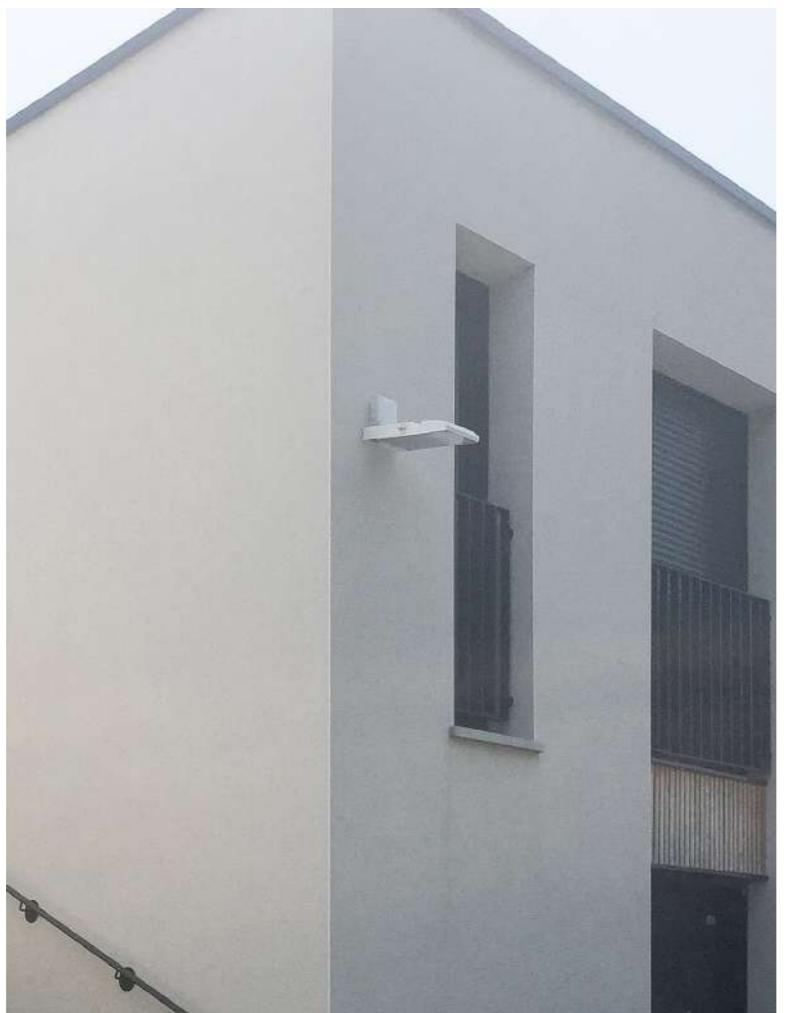
**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

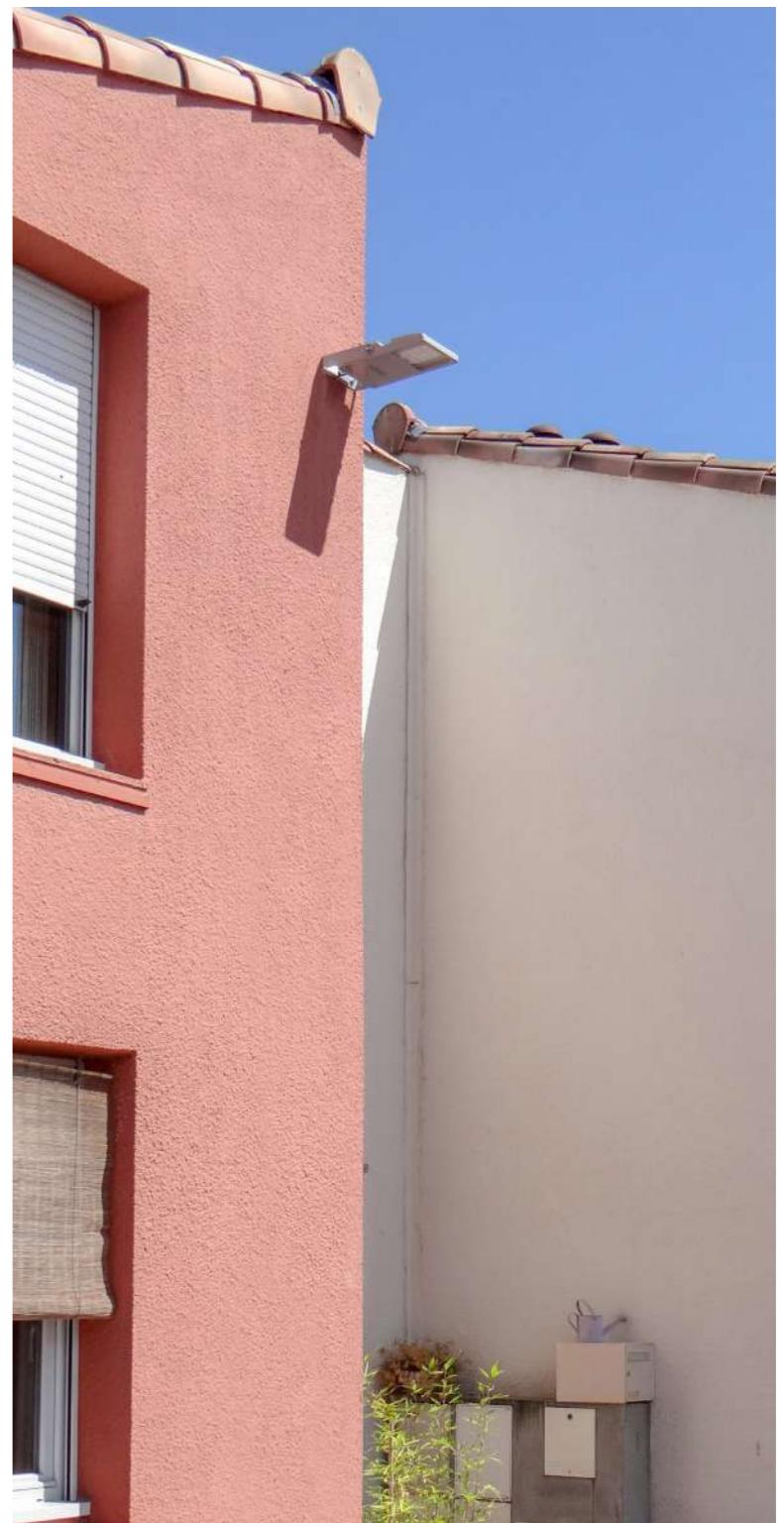
4000 K | CRI 70

Number of LED's	8	16	24
<b>Nominal current, mA</b>	280	470	700
<b>Power, W</b>	15	25	38
<b>Luminous Flux, lm</b>	2100	3400	4700
<b>Efficacy, lm/W</b>	140	136	124
<b>Power factor, PF</b>	0,90	0,97	0,98
	0,95	0,93	0,97
	0,95	0,95	0,97

Luminaire efficacy	2700 K	15 - 75 W	1975 - 9600 lm	116 - 144 lm/W
	3000 K	15 - 75 W	2100 - 10300 lm	124 - 154 lm/W
	5000 K	15 - 75 W	2100 - 10300 lm	124 - 155 lm/W
	5700 K	15 - 75 W	2100 - 10300 lm	124 - 155 lm/W



Bois-Guillaume | France

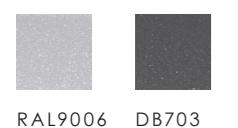


Lunel | France

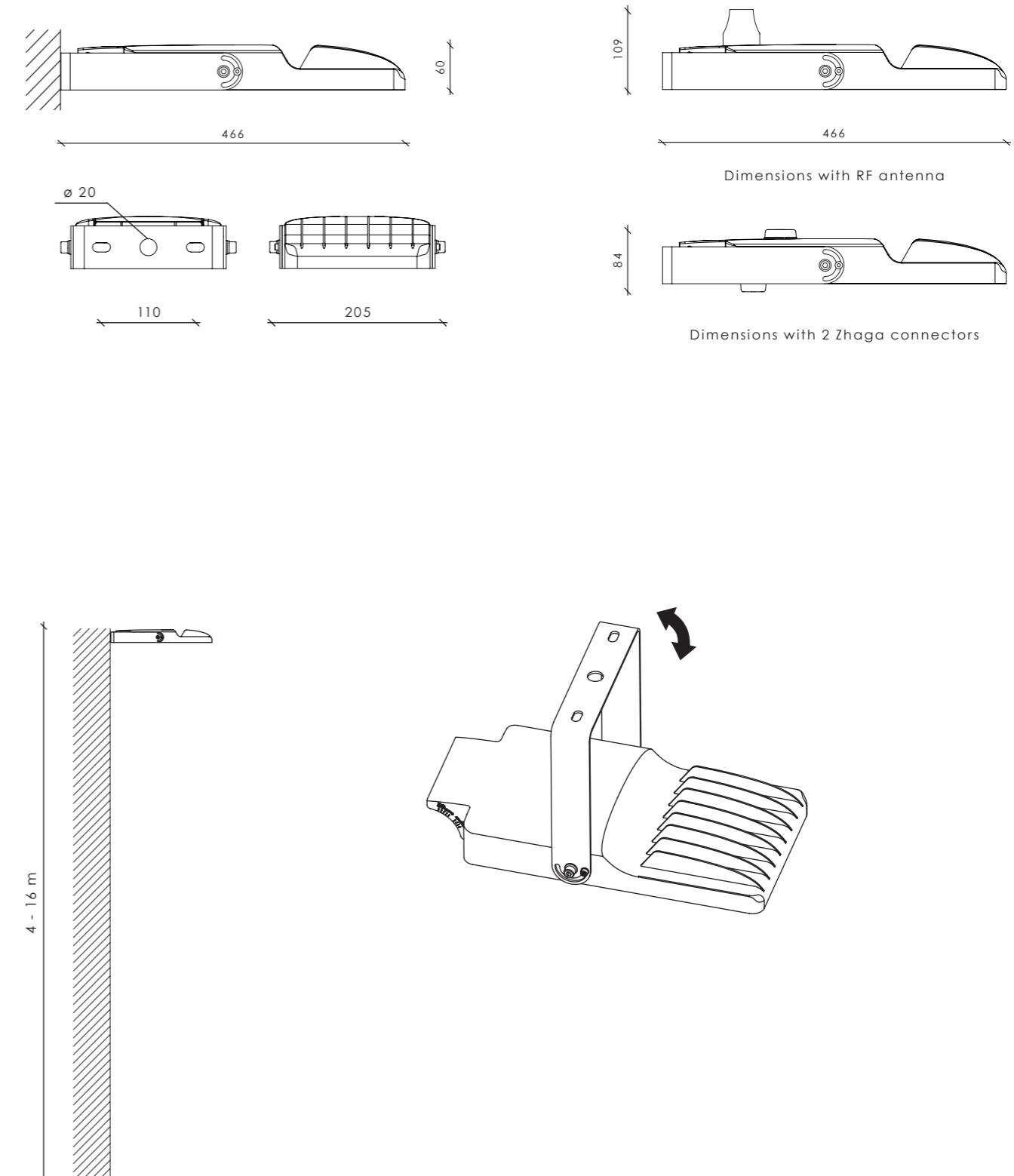
# Micro martin floodlight



# Micro martin floodlight with fins



RAL9006 DB703 RAL9005 Other colors available on request



## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 75	Warranty 5 years
lm	446 - 10400 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C
lm/W	90 - 160	100 000 h (L80B10C10) <sup>(4)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6 kV / separate built-in 10 kV
		Intelligent light control system: Radio frequency <sup>(5)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,037

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(6)</sup> Check SundaHus web page for product assessment results

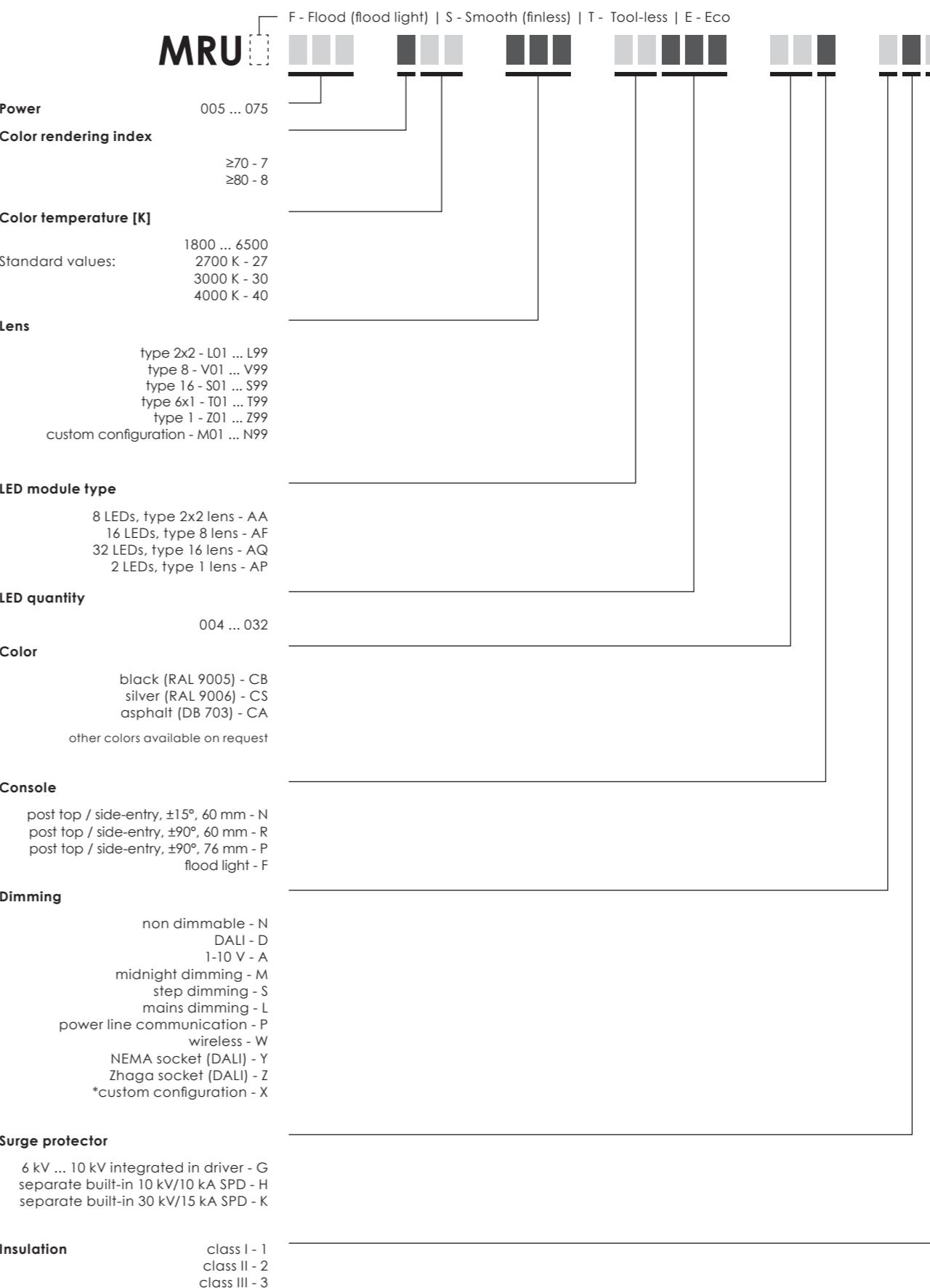
<sup>(7)</sup> IK09 - screw version with tempered unprinted glass

<sup>(8)</sup> 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 will reach 100 000 h L90/B10. 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

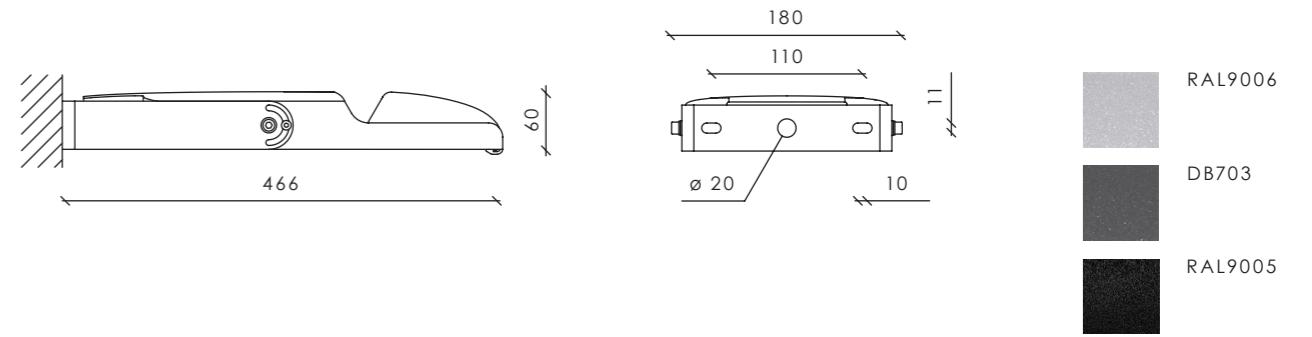
## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

# Micro martin floodlight tool-less



Other colors  
available on request

## Technical information

<b>V</b>	198 - 264	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 75	Warranty 5 years
<b>lm</b>	446 - 10400 <sup>①</sup>	100 000 h (L95B10) at Ta = 25 °C
<b>lm/W</b>	90 - 160	100 000 h (L80B10C10) <sup>④</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>②</sup>	Surge protection: 6 kV / separate built-in 10 kV
<b>°C</b>	-40 to +50	Spigot: Floodlight
<b>CRI</b>	>70 / >80 <sup>③</sup>	Intelligent light control system: Radio frequency <sup>⑤</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,037

<sup>①</sup> Lumen output indicated at CRI > 70

<sup>②</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>③</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>④</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>⑤</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>⑥</sup> Check SundaHus web page for product assessment results

<sup>⑦</sup> IK09 - screw version with tempered unprinted glass

<sup>⑧</sup> 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 will reach 100 000 h L90/B10. 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

RAL9006

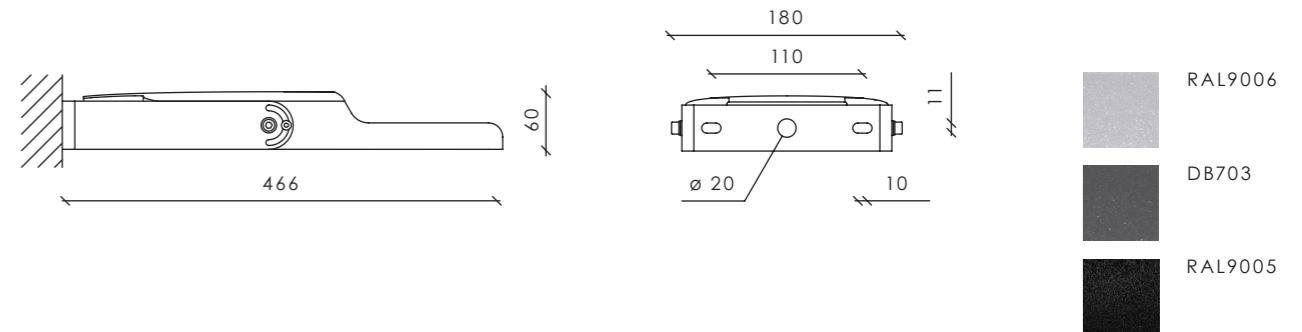
DB703

RAL9005

Other colors  
available on request



# Micro martin floodlight smooth



Other colors  
available on request

## Technical information

<b>V</b>	198 - 264	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 75	Warranty 5 years
<b>lm</b>	446 - 10400 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C
<b>lm/W</b>	90 - 160	100 000 h (L80B10C10) <sup>(2)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 6 kV / separate built-in 10 kV
<b>°C</b>	-40 to +50	Spigot: Floodlight
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Intelligent light control system: Radio frequency <sup>(5)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,037

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(6)</sup> Check SundaHus web page for product assessment results

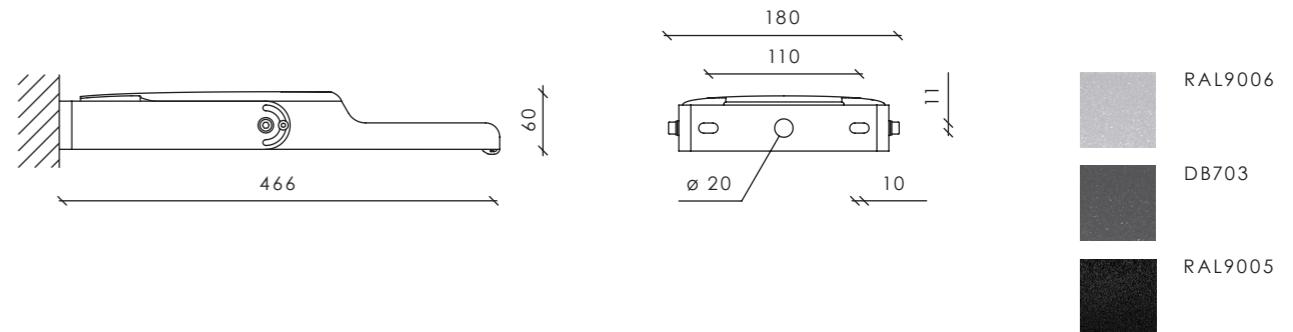
<sup>(7)</sup> IK09 - screw version with tempered unprinted glass

<sup>(8)</sup> 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 will reach 100 000 h L90/B10. 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

# Micro martin floodlight tool-less smooth



Other colors  
available on request

## Technical information

<b>V</b>	198 - 264	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 75	Warranty 5 years
<b>lm</b>	446 - 10400 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C
<b>lm/W</b>	90 - 160	100 000 h (L80B10C10) <sup>(2)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 6 kV / separate built-in 10 kV
<b>°C</b>	-40 to +50	Spigot: Floodlight
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Intelligent light control system: Radio frequency <sup>(5)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,037

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request

Amber option available

<sup>(3)</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(6)</sup> Check SundaHus web page for product assessment results

<sup>(7)</sup> IK09 - screw version with tempered unprinted glass

<sup>(8)</sup> 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 will reach 100 000 h L90/B10. 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

<b>Number of LED's</b>	4			8			12			16		
<b>Nominal current, mA</b>	270	500	730	140	540	700	280	500	670	280	500	760
<b>Power, W</b>	5	8	11	5	15	19	12	20	26	15	25	39
<b>Luminous Flux, lm</b>	520	920	1300	560	2000	2500	1650	2800	3550	2180	3630	5400
<b>Efficacy, lm/W</b>	104	115	118	112	133	132	138	140	137	145	145	138
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,90	0,94	0,85	0,95	0,97	0,90	0,97	0,98

Luminaire efficacy	2700 K	5 - 52 W	446 - 4600 lm	90 - 127 lm/W
	3000 K	5 - 52 W	490 - 5100 lm	98 - 137 lm/W
	5000 K	5 - 52 W	520 - 5400 lm	104 - 145 lm/W
	5700 K	5 - 52 W	520 - 5400 lm	104 - 145 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			8			12			16		
<b>Nominal current, mA</b>	140	490	670	280	470	700	280	490	720	280	490	720
<b>Power, W</b>	5	14	19	15	25	38	28	50	75	28	50	75
<b>Luminous Flux, lm</b>	560	1720	2250	2100	3400	4700	4200	6800	9300	4200	6800	9300
<b>Efficacy, lm/W</b>	112	123	118	140	136	124	150	136	124	150	136	124
<b>Power factor, PF</b>	0,69	0,89	0,94	0,90	0,97	0,98	0,95	0,95	0,97	0,98	0,95	0,97

Luminaire efficacy	2700 K	5 - 75 W	523 - 8700 lm	105 - 141 lm/W
	3000 K	5 - 75 W	560 - 9000 lm	112 - 148 lm/W
	5000 K	5 - 75 W	560 - 9300 lm	112 - 151 lm/W
	5700 K	5 - 75 W	560 - 9300 lm	112 - 151 lm/W

**High density  
modules**

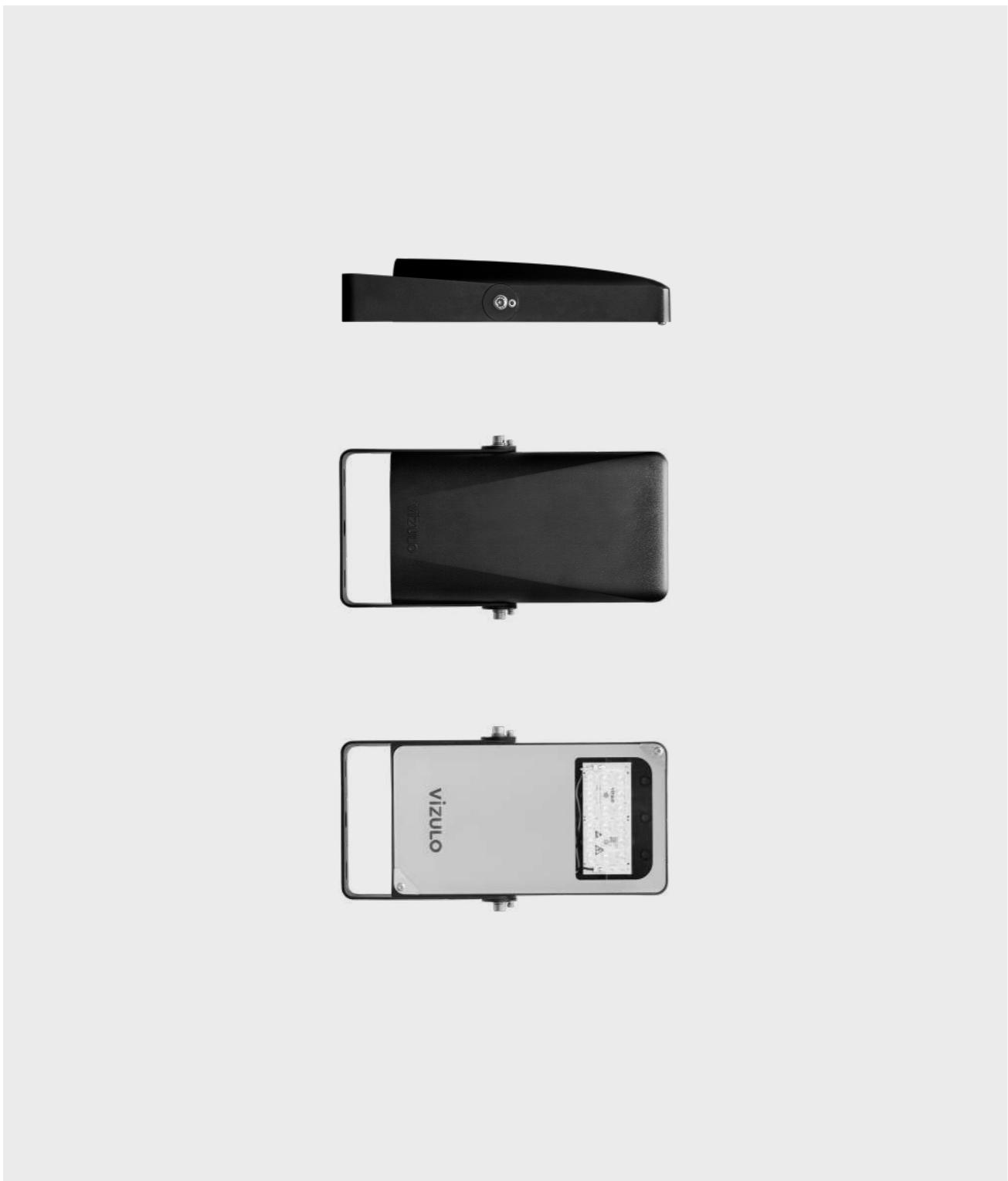
\* Data for V01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

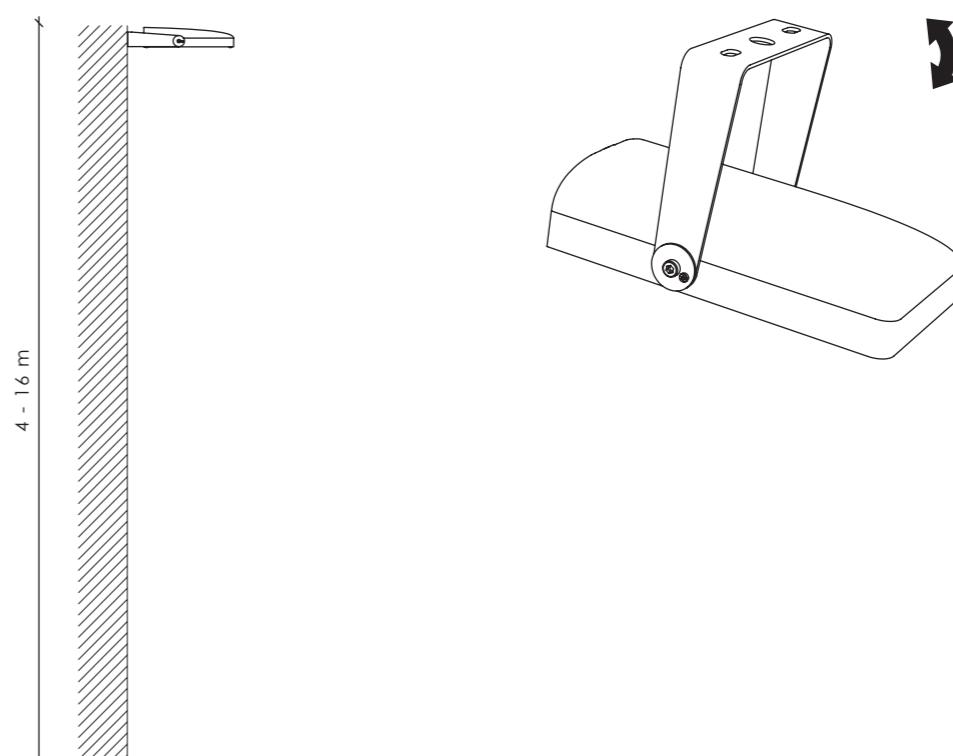
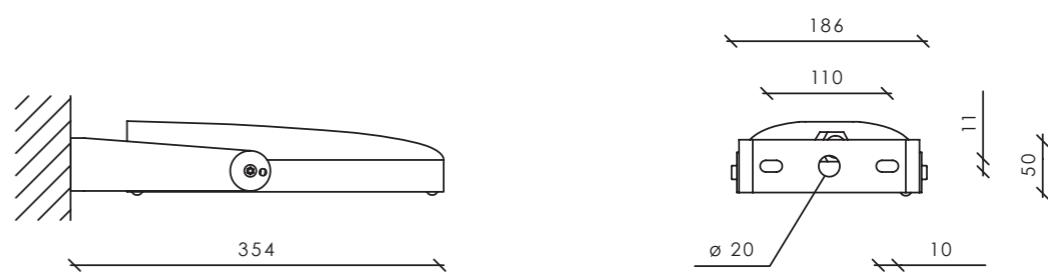
<b>Number of LED's</b>	16			32		
<b>Nominal current, mA</b>	280	480	760	290	500	760
<b>Power, W</b>	15	25	39	29	50	75
<b>Luminous Flux, lm</b>	2150	3540	5300	4600	7600	10400
<b>Efficacy, lm/W</b>	143	142	136	159	152	139
<b>Power factor, PF</b>	0,83	0,93	0,98	0,82	0,93	0,97

Luminaire efficacy	2700 K	15 - 75 W	1850 - 8900 lm	115 - 137 lm/W
	3000 K	15 - 75 W	2000 - 9800 lm	126 - 150 lm/W
	5000 K	15 - 75 W	2150 - 10400 lm	136 - 160 lm/W
	5700 K	15 - 75 W	2150 - 10400 lm	136 - 160 lm/W

# Colibri floodlight



RAL9006 DB703 RAL9005  
Other colors  
available on request



## Technical information



V	220 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Warranty 5 years
W	5 - 45	100 000 h (L80B10) at Ta = 25 °C
Im	415 - 5530 <sup>(1)</sup>	
Im/W	83 - 134	
K	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 4 kV (10 kV optional)
°C	-40 to +50 (5 - 35 W version)	Spigot: Floodlight
	-40 to +35 (35 - 45 W version)	Socket: Zhaga / NEMA
CRI	>70 / >80 <sup>(3)</sup>	Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,025

<sup>(1)</sup> Lumen output indicated at 4000 K, CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

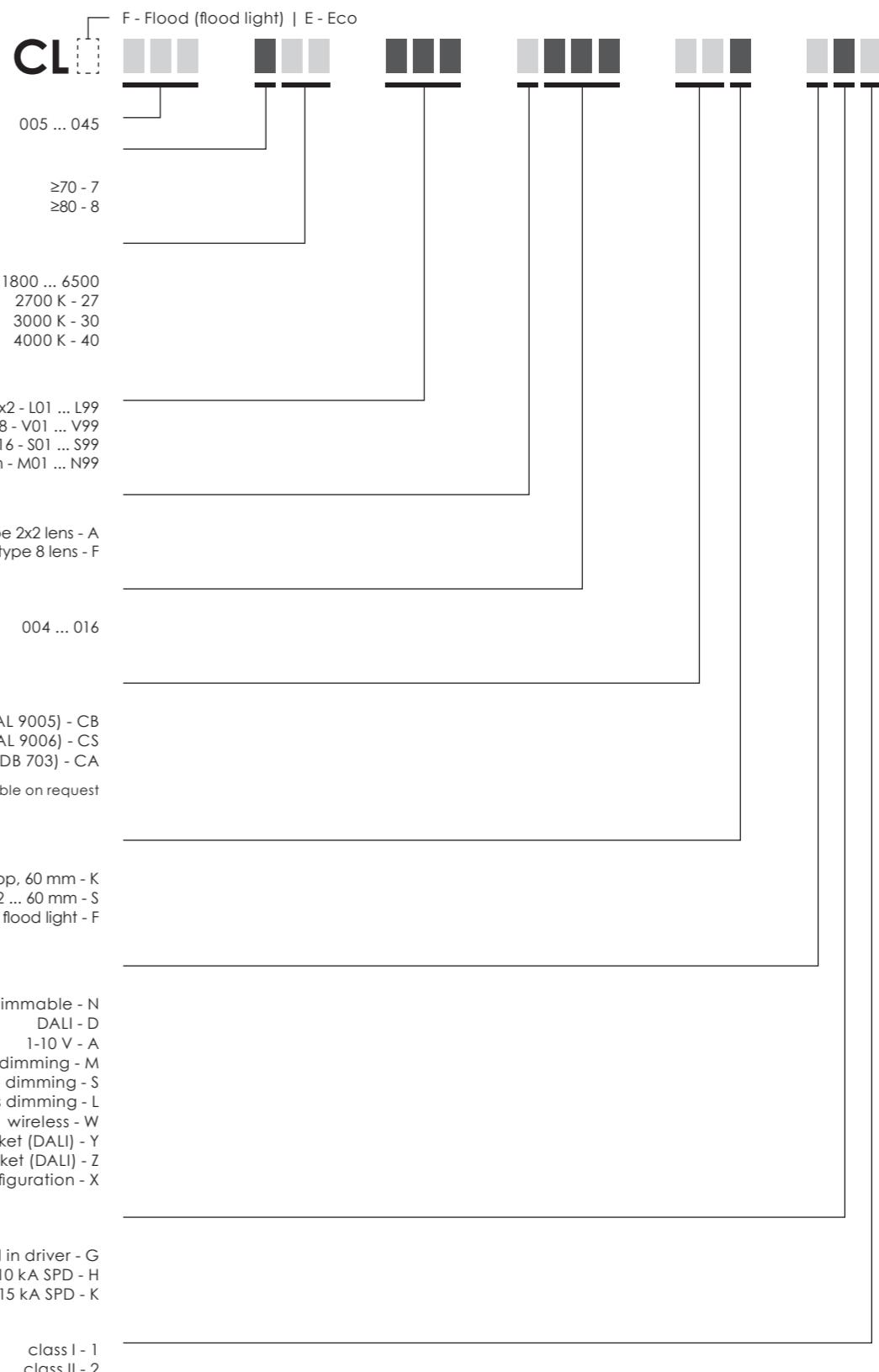
<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Non-printed glass

<sup>(5)</sup> Coming soon

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

## Model name principles



EXAMPLE CLF 040 730 L01 A008 CSK MG1

### \* CUSTOM CONFIGURATION EXAMPLE

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

**Standard  
modules**

\* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			6			8		
<b>Nominal current, mA</b>	270	500	730	190	480	880	140	540	700
<b>Power, W</b>	5	8	11	5	10	18	5	15	19
<b>Luminous Flux, lm</b>	480	850	1200	510	1340	2260	543	1935	2420
<b>Efficacy, lm/W</b>	96	106	109	102	134	126	109	129	127
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,91	0,93	0,69	0,90	0,94

Luminaire efficacy	2700 K	5 - 19 W	415 - 2000 lm	83 - 111 lm/W
	3000 K	5 - 19 W	456 - 2200 lm	92 - 122 lm/W
	5000 K	5 - 19 W	480 - 2420 lm	96 - 134 lm/W
	5700 K	5 - 19 W	480 - 2420 lm	96 - 134 lm/W

**ECO**

\* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	4			6			8		
<b>Nominal current, mA</b>	140	520	670	290	490	680	280	470	710
<b>Power, W</b>	5	15	19	12	20	28	15	25	38
<b>Luminous Flux, lm</b>	560	1900	2325	1560	2442	3210	1980	3100	4040
<b>Efficacy, lm/W</b>	112	127	122	130	122	115	132	124	106
<b>Power factor, PF</b>	0,69	0,90	0,94	0,78	0,89	0,95	0,90	0,97	0,98

Luminaire efficacy	2700 K	5 - 38 W	526 - 3790 lm	105 - 124 lm/W
	3000 K	5 - 38 W	548 - 3935 lm	110 - 128 lm/W
	5000 K	5 - 38 W	560 - 4040 lm	112 - 132 lm/W
	5700 K	5 - 38 W	560 - 4040 lm	112 - 132 lm/W

**High density  
modules**

\* Data for V01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

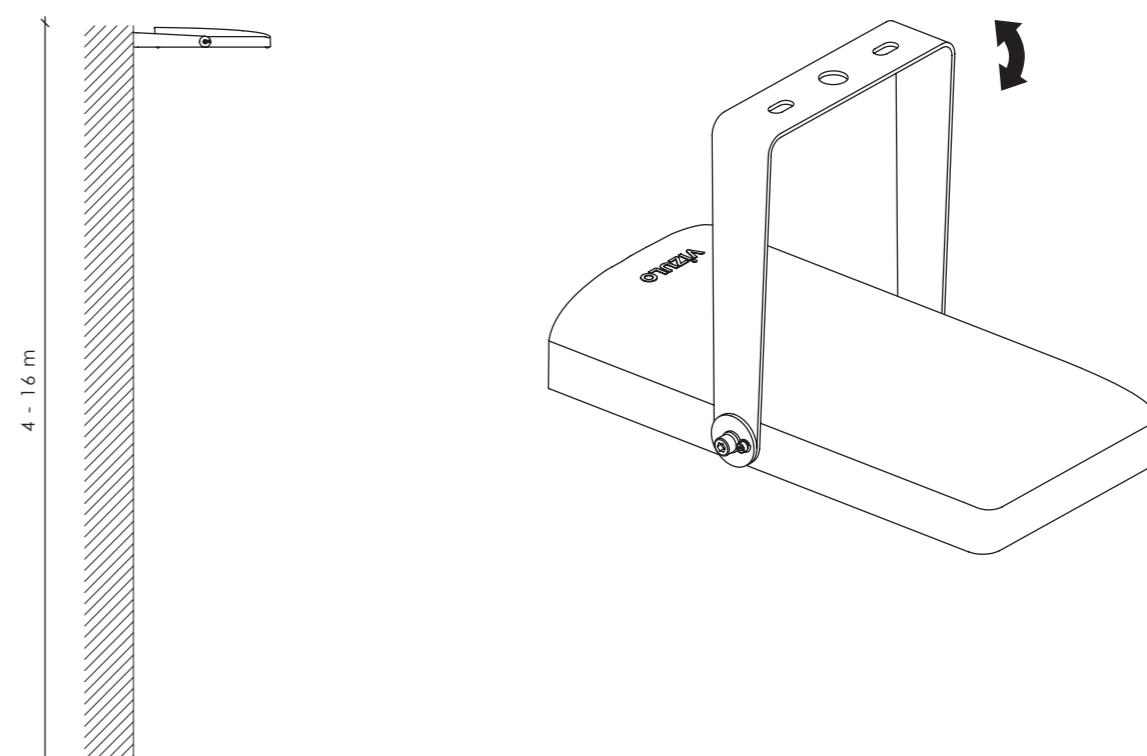
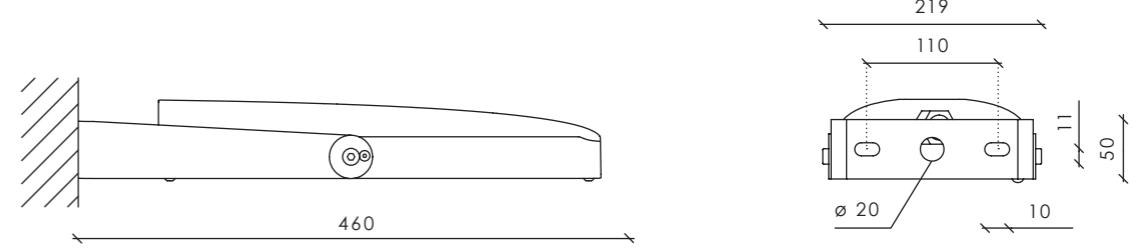
<b>Number of LED's</b>	8			16		
<b>Nominal current, mA</b>	140	540	700	280	590	890
<b>Power, W</b>	5	15	19	15	30	45
<b>Luminous Flux, lm</b>	543	1935	2420	2010	3900	5530
<b>Efficacy, lm/W</b>	109	129	127	134	130	123
<b>Power factor, PF</b>	0,69	0,90	0,94	0,83	0,96	0,96

Luminaire efficacy	2700 K	5 - 45 W	465 - 4740 lm	93 - 115 lm/W
	3000 K	5 - 45 W	512 - 5210 lm	103 - 127 lm/W
	5000 K	5 - 45 W	543 - 5530 lm	109 - 134 lm/W
	5700 K	5 - 45 W	543 - 5530 lm	109 - 134 lm/W

# Colibri midi floodlight



  
RAL9006 DB703 RAL9005  
Other colors available on request



## Technical information



V	220 - 240	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Warranty 5 years
W	5 - 87	100 000 h (L80B10) at Ta = 25 °C
Im	446 - 13100 <sup>(1)</sup>	
Im/W	90 - 164	
K	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 4 kV (10 kV optional)
°C	-40 to +50 (5 - 70 W version)	Spigot: Floodlight
	-40 to +35 (70 - 87 W version)	Intelligent light control system: Radio frequency <sup>(4)</sup>
CRI	>70 / >80 <sup>(3)</sup>	Zhaga / NEMA
		Socket: Die-cast aluminium
		Body:
		Max. wind load area, SCd, m <sup>2</sup> : 0,036

<sup>(1)</sup> Lumen output indicated at 4000 K, CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

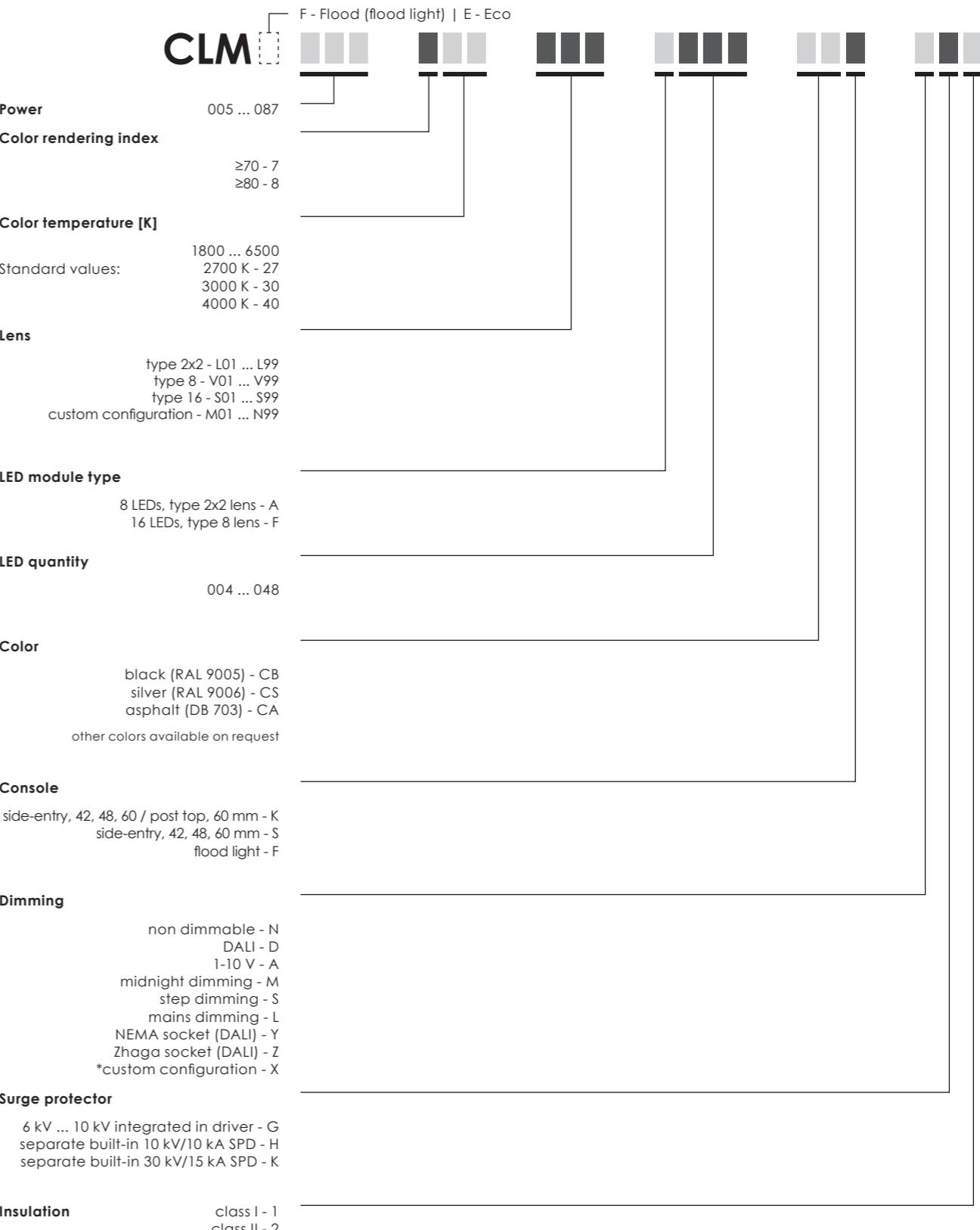
<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Optional. Available only with DALI ; 1 - 10 V

<sup>(5)</sup> Coming soon

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

## Model name principles



EXAMPLE CLM 020 730 L17 A008 CAK NG1

### \* CUSTOM CONFIGURATION EXAMPLE

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

**Standard  
modules**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			12			16			24		
<b>Nominal current, mA</b>	140	540	700	280	500	660	280	500	760	260	470	700
<b>Power, W</b>	5	15	19	12	20	26	15	25	39	20	35	52
<b>Luminous Flux, lm</b>	520	1840	2300	1530	2590	3300	2160	3560	5300	3060	5240	7400
<b>Efficacy, lm/W</b>	104	123	121	128	130	127	144	142	136	153	150	142
<b>Power factor, PF</b>	0,69	0,90	0,94	0,85	0,95	0,97	0,90	0,97	0,98	0,86	0,97	0,97

Luminaire efficacy	2700 K	5 - 52 W	446 - 6350 lm	90 - 131 lm/W
	3000 K	5 - 52 W	490 - 7000 lm	98 - 144 lm/W
	5000 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W
	5700 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			12			16		
<b>Nominal current, mA</b>	280	470	700	280	450	700	280	490	710
<b>Power, W</b>	15	25	38	22	35	55	28	50	74
<b>Luminous Flux, lm</b>	1960	3120	4340	2980	4470	6300	4100	6460	8810
<b>Efficacy, lm/W</b>	131	125	114	135	128	115	146	129	119
<b>Power factor, PF</b>	0,90	0,97	0,98	0,87	0,97	0,98	0,95	0,93	0,97

Luminaire efficacy	2700 K	5 - 74 W	1833 - 8255 lm	107 - 137 lm/W
	3000 K	5 - 74 W	1960 - 8600 lm	114 - 142 lm/W
	5000 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W
	5700 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W

**High density  
modules**

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

4000 K | CRI 70

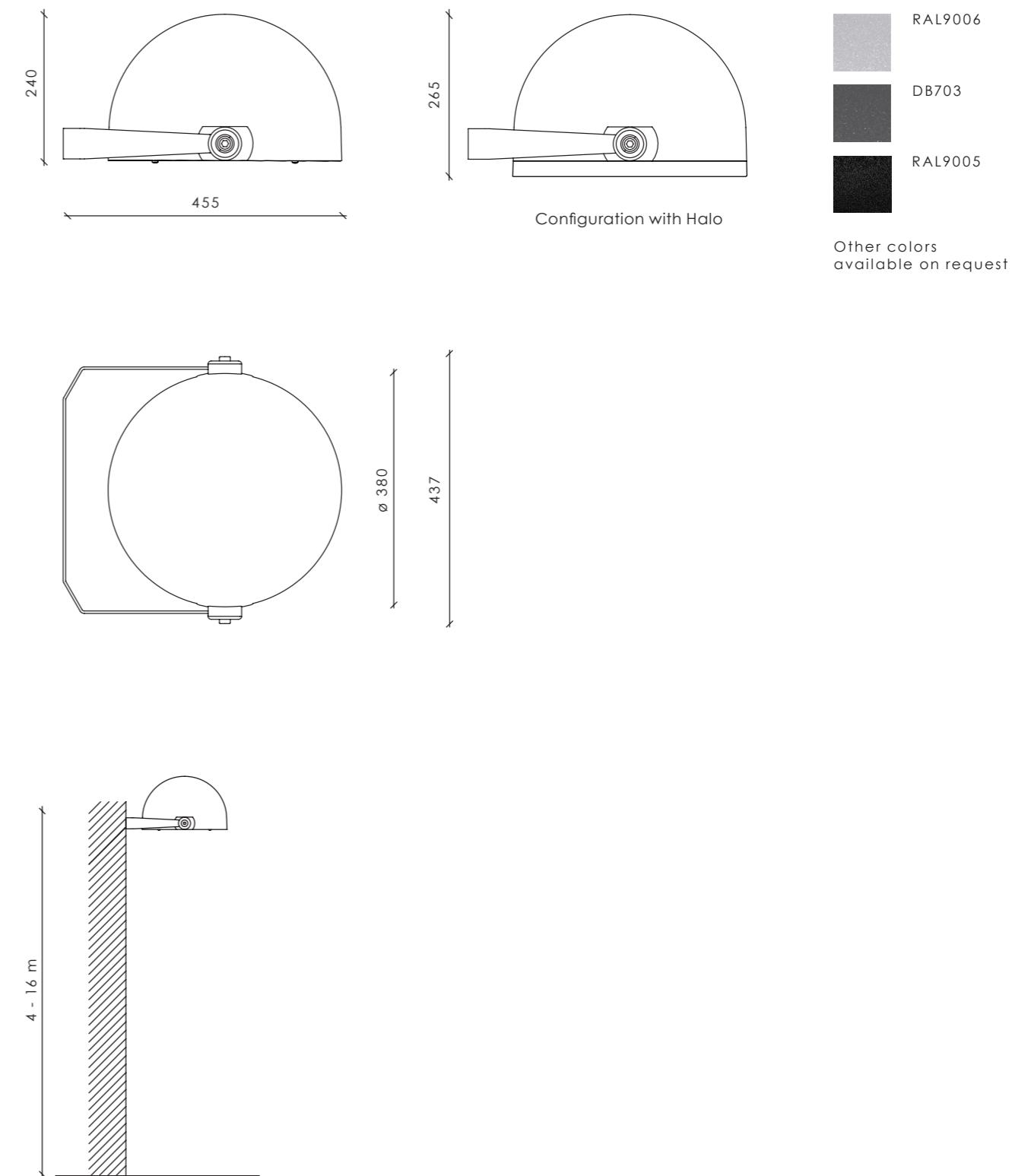
<b>Number of LED's</b>	16			32			48		
<b>Nominal current, mA</b>	280	480	770	270	510	700	270	350	600
<b>Power, W</b>	15	25	39	27	50	68	39	50	87
<b>Luminous Flux, lm</b>	2010	3310	4920	4000	7111	9280	6400	8035	13100
<b>Efficacy, lm/W</b>	134	132	126	148	142	136	164	161	151
<b>Power factor, PF</b>	0,83	0,93	0,98	0,94	0,97	0,96	0,95	0,97	0,98

Luminaire efficacy	2700 K	15 - 87 W	1730 - 11210 lm	108 - 140 lm/W
	3000 K	15 - 87 W	1900 - 12320 lm	119 - 155 lm/W
	5000 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W
	5700 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W

# Blackbird floodlight



with Halo



## Technical information



<b>V</b>	220 - 240	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 100	Warranty 5 years
<b>Im</b>	441 - 15500 <sup>(1)</sup>	100 000 h (L98B10) at Ta = 25 °C
<b>Im/W</b>	88 - 160	100 000 h (L80B10) at Ta = 25 °C (ECO) <sup>(4)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	
<b>°C</b>	-40 to +50	
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6 kV, 10 kV (optional) <sup>(5)</sup>
		Body: Die-cast aluminium
		Intelligent light control system: Radio frequency / Power line <sup>(6)</sup>
		Socket: Zhaga

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available (2700 - 6500 K);

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

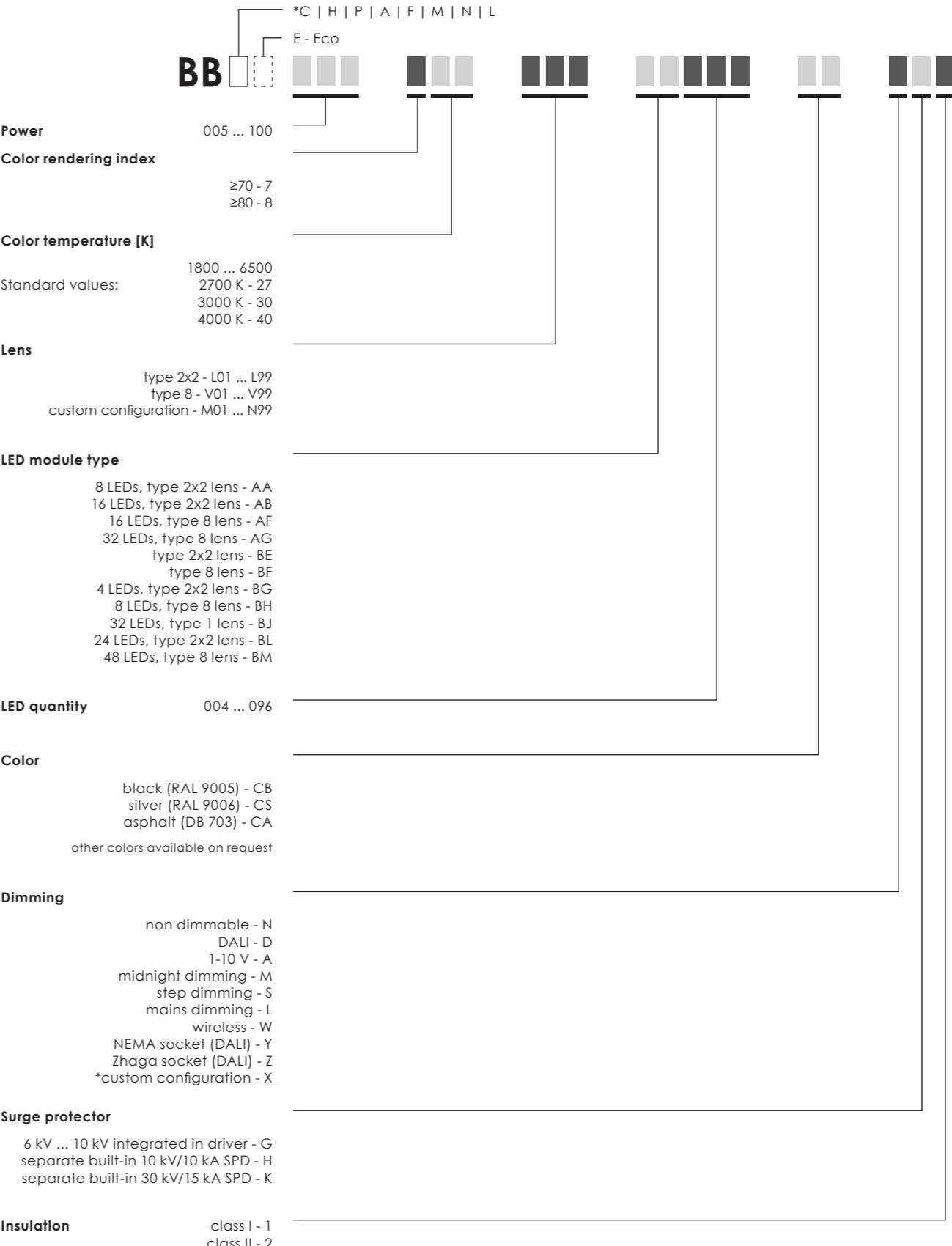
<sup>(5)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



EXAMPLE BBM 050 730 L01 AB032 CB DG1

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

\*\* CUSTOM CONFIGURATION EXAMPLE:  
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.

**Standard  
modules**

\* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's	4			8			16		
<b>Nominal current, mA</b>	270	500	730	140	540	700	270	480	760
<b>Power, W</b>	5	8	11	5	15	19	15	25	39
<b>Luminous Flux, lm</b>	520	900	1300	560	2000	2500	2200	3530	5240
<b>Efficacy, lm/W</b>	104	113	118	110	133	132	147	141	134
<b>Power factor, PF</b>	0,83	0,89	0,93	0,69	0,90	0,94	0,83	0,93	0,98

Number of LED's	24			32			48		
<b>Nominal current, mA</b>	260	470	700	280	510	680	270	510	680
<b>Power, W</b>	20	35	52	28	50	75	40	75	100
<b>Luminous Flux, lm</b>	3000	5100	7200	4300	7300	10230	6100	11000	14000
<b>Efficacy, lm/W</b>	150	146	138	154	146	136	153	147	140
<b>Power factor, PF</b>	0,86	0,94	0,97	0,81	0,93	0,97	0,79	0,97	0,96

Luminaire efficacy	2700 K	5 - 100 W	441 - 12000 lm	88 - 134 lm/W
	3000 K	5 - 100 W	485 - 13200 lm	97 - 144 lm/W
	5000 K	5 - 100 W	520 - 14000 lm	104 - 154 lm/W
	5700 K	5 - 100 W	520 - 14000 lm	104 - 154 lm/W

**ECO**

\* Data for L01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's	4			8			16		
<b>Nominal current, mA</b>	140	490	670	280	490	700	140	250	390
<b>Power, W</b>	5	14	19	15	26	38	15	25	39
<b>Luminous Flux, lm</b>	555	1730	2300	2100	3430	4640	2300	3750	5560
<b>Efficacy, lm/W</b>	111	124	121	140	132	122	153	150	143
<b>Power factor, PF</b>	0,69	0,89	0,94	0,83	0,94	0,98	0,83	0,93	0,98

Number of LED's	24			32			48		
<b>Nominal current, mA</b>	270	530	650	260	380	500	140	260	350
<b>Power, W</b>	42	80	100	50	75	100	40	75	100
<b>Luminous Flux, lm</b>	6050	10600	12400	7620	11000	13400	6410	11500	14500
<b>Efficacy, lm/W</b>	144	133	124	152	147	134	160	153	145
<b>Power factor, PF</b>	0,98	0,97	0,96	0,93	0,97	0,96	0,79	0,92	0,96

Luminaire efficacy	2700 K	5 - 100 W	520 - 13560 lm	104 - 150 lm/W
	3000 K	5 - 100 W	555 - 14500 lm	111 - 160 lm/W
	5000 K	5 - 100 W	555 - 14500 lm	111 - 160 lm/W
	5700 K	5 - 100 W	555 - 14500 lm	111 - 160 lm/W

**High density  
modules**

\* Data for V01 optic.

Check VIZULO members section for additional information

4000 K | CRI 70

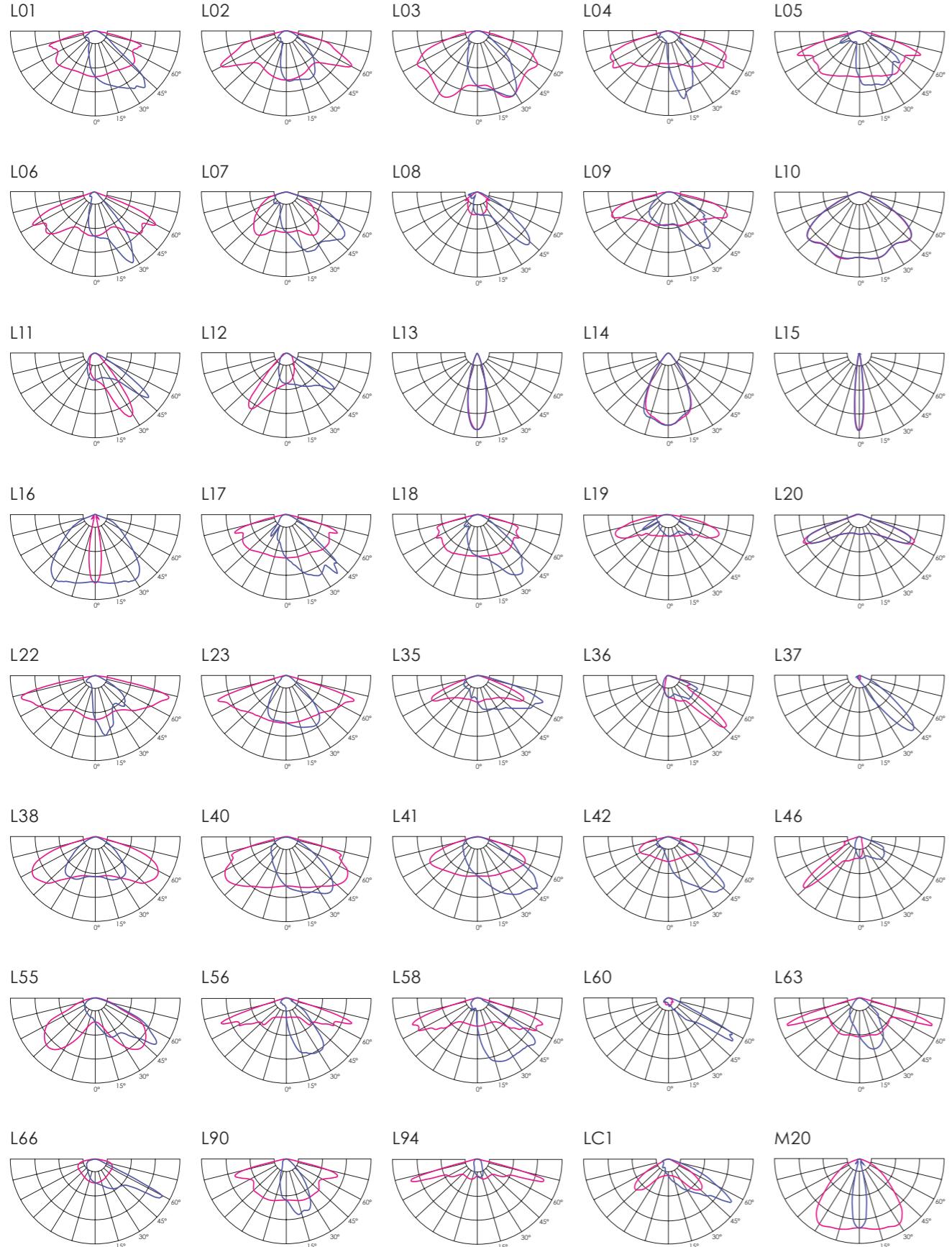
Number of LED's	16			24			32		
<b>Nominal current, mA</b>	280	480	760	260	470	700	290	500	760
<b>Power, W</b>	15	25	39	20	35	52	29	50	75
<b>Luminous Flux, lm</b>	2200	3530	5240	3000	5100	7200	4450	7300	10300
<b>Efficacy, lm/W</b>	147	141	134	150	146	138	153	146	137
<b>Power factor, PF</b>	0,83	0,93	0,98	0,86	0,93	0,97	0,82	0,93	0,97

Number of LED's	48			96		
<b>Nominal current, mA</b>	270	510	680	270	320	350
<b>Power, W</b>	40	75	100	76	90	100
<b>Luminous Flux, lm</b>	6300	11000	14000	12100	14100	15500
<b>Efficacy, lm/W</b>	158	147	140	159	157	155
<b>Power factor, PF</b>	0,89	0,97	0,96	0,97	0,98	0,96

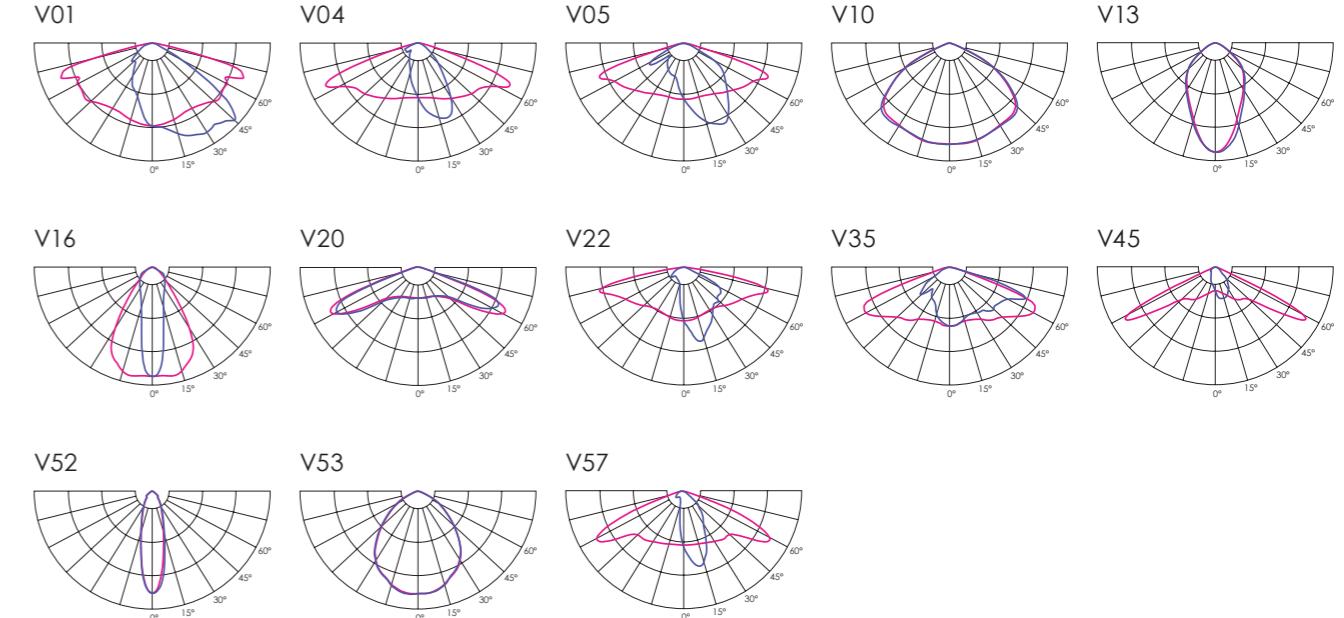
Luminaire efficacy	2700 K	15 - 100 W	1840 - 13210 lm	115 - 136 lm/W
	3000 K	15 - 100 W	2015 - 14530 lm	127 - 150 lm/W
	5000 K	15 - 100 W	2200 - 15500 lm	134 - 159 lm/W
	5700 K	15 - 100 W	2200 - 15500 lm	134 - 159 lm/W

# Optics floodlight luminaires

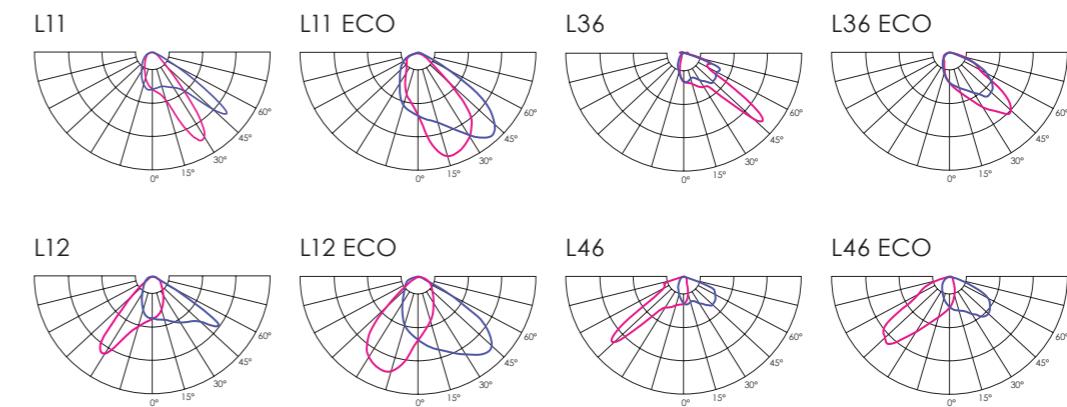
## Standard modules \*



## High density modules \*

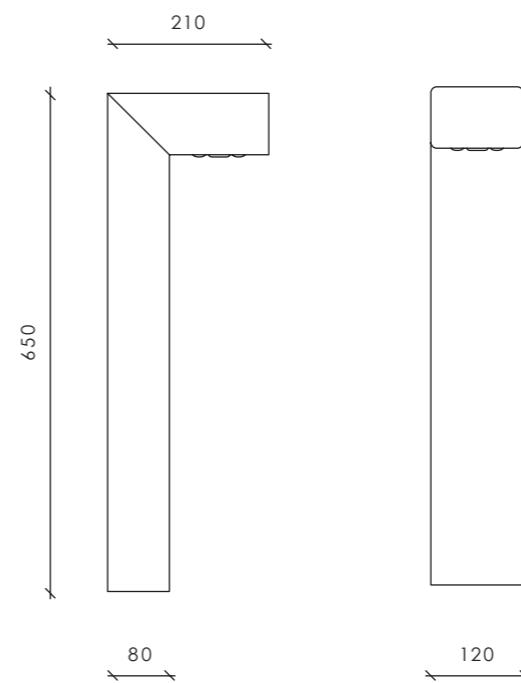
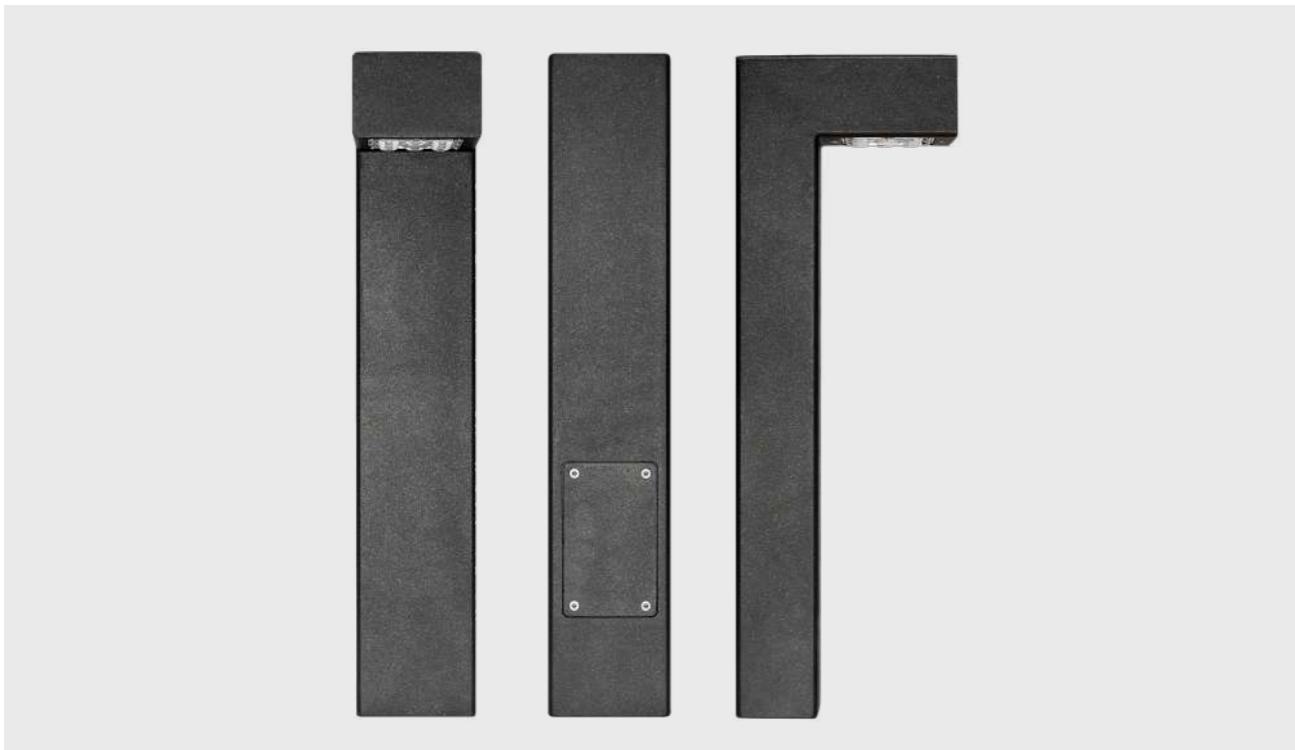


## Pedestrian crossing optics



\* Optic distribution diagrams are **only for visual purposes**.  
Check VIZULO members section for precise information.

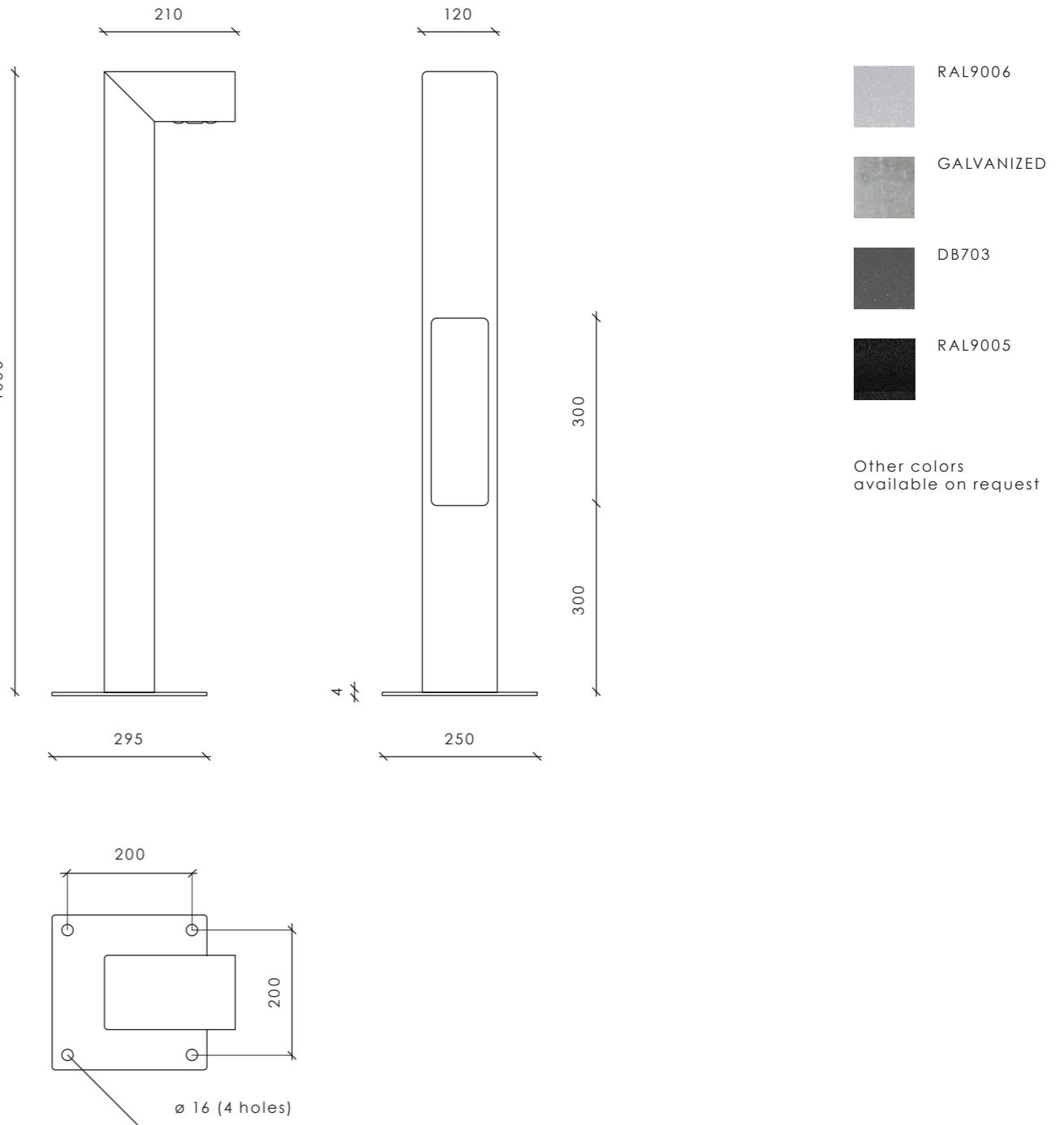
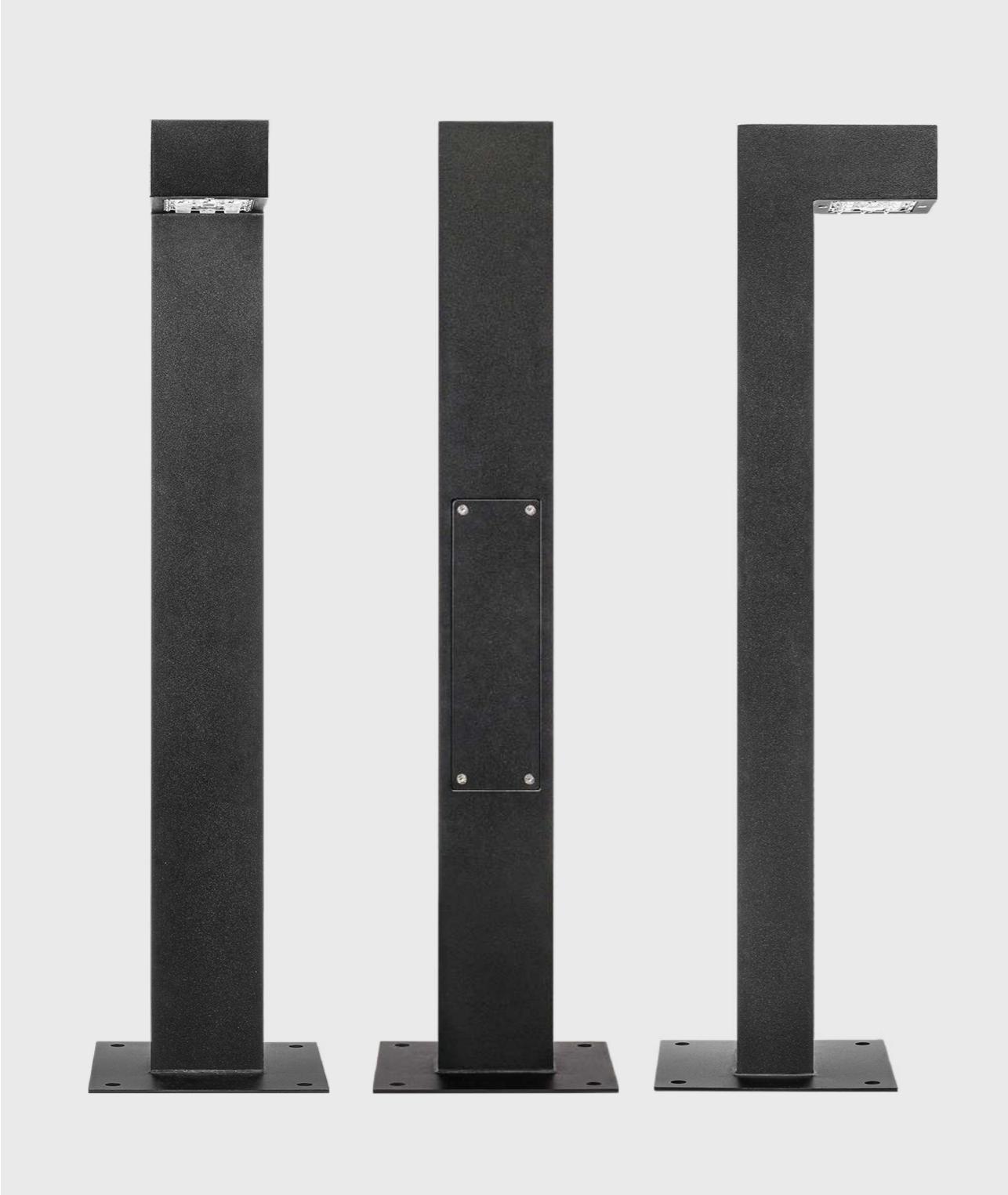
# Heron 65cm



Other colors  
available on request



# Heron 100cm



## Technical information



V	220 - 240	DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	8 - 26	Warranty 5 years
lm	913 - 3350 <sup>(1)</sup>	100 000 h (L80B10) at Ta = 25 °C <sup>(4)</sup>
lm/W	106 - 135	
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +35	Surge protection: 4 kV; 10 kV (optional) <sup>(5)</sup>
CRI	>70 / >80 <sup>(3)</sup>	Body: Aluminium Neto weight: 7,9 - 15,0 kg <sup>(6)</sup> 2,4 - 4,8 kg <sup>(7)</sup>

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(6)</sup> Galvanized (steel) version

<sup>(7)</sup> Black RAL 9005 (aluminum) version

\*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 will reach 100 000 h L90/B10. 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

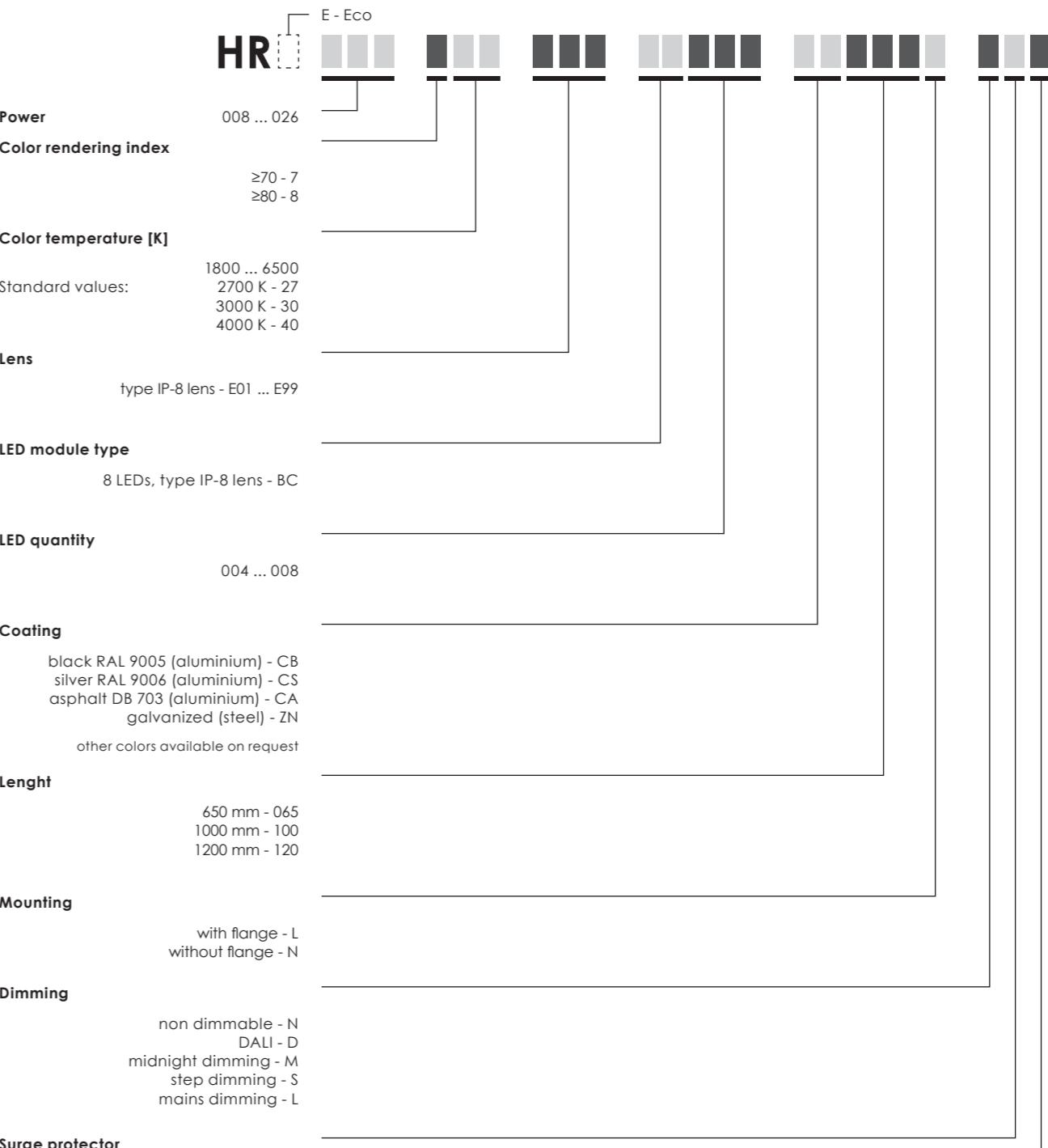
## ECO

4000 K | CRI 70

Number of LED's	4	8
Nominal current, mA	270	520
Power, W	8	15
Luminous Flux, lm	990	1780
Efficacy, lm/W	124	119
Power factor, PF	0,84	0,90

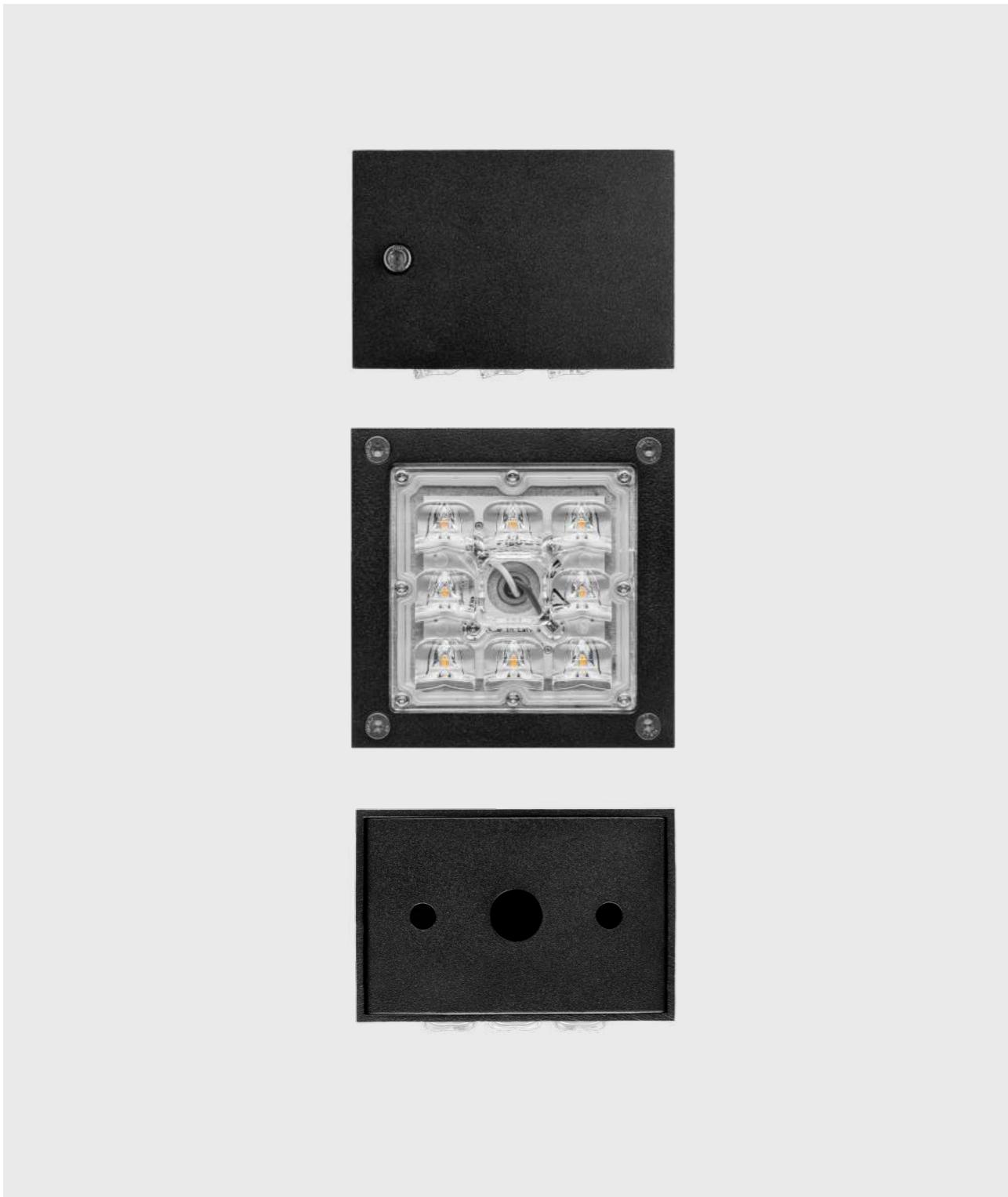
Luminaire efficacy	2700 K	8 - 26 W	913 - 3090 lm	106 - 125 lm/W
	3000 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W
	5000 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W
	5700 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W

## Model name principles

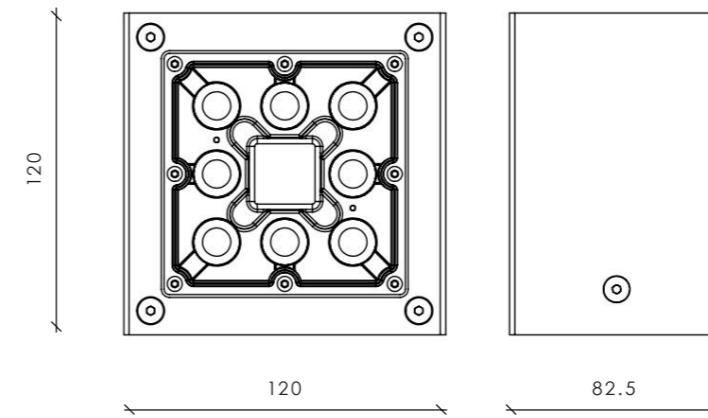


EXAMPLE HRE 008 730 E93 BC004 CB100L NG2

# Robin



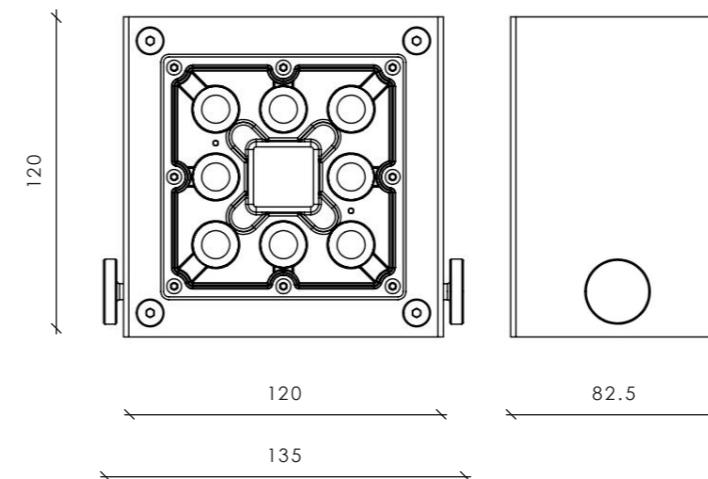
Standard version



RAL9005

Other colors  
available on request

Hand screw version



## Technical information



V	220 - 240	DALI / Non dimmable
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	6 - 28	Warranty 5 years
lm	913 - 3350 <sup>(1)</sup>	50 000 h (L80B10) at Ta = 25 °C <sup>(4)</sup>
lm/W	106 - 135	
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	Surge protection: 2 kV
CRI	>70 / >80 <sup>(3)</sup>	Body: Aluminium
		Neto weight: 1,1 kg
		Max. wind load area, SCd, m <sup>2</sup> : 0,012

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

\*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 will reach 100 000 h L90/B10. 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

ECO

\* Data for L01 optic.

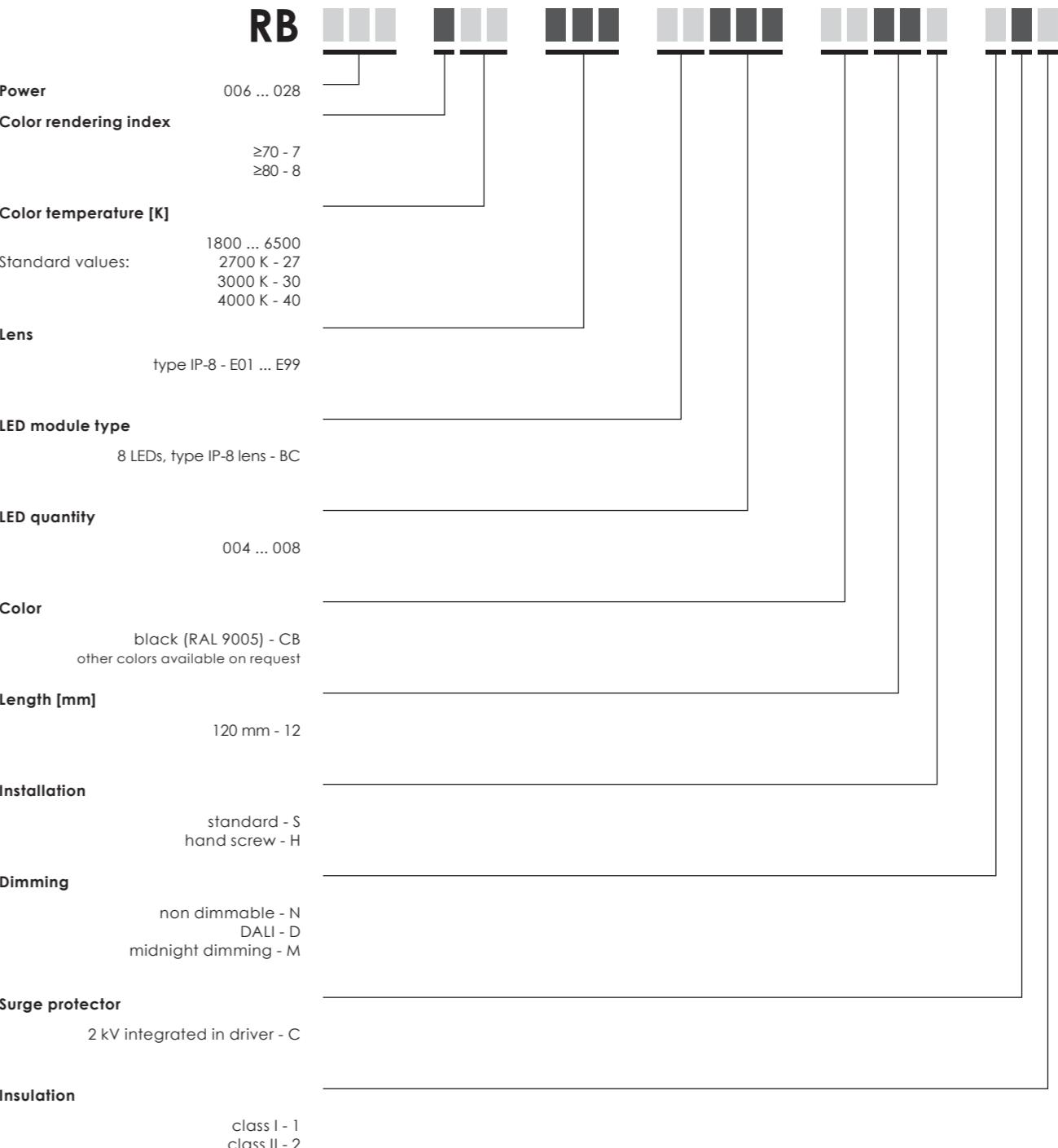
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's	4	8
Nominal current, mA	270	520
Power, W	8	15
Luminous Flux, lm	990	1780
Efficacy, lm/W	124	119
Power factor, PF	0,84	0,90

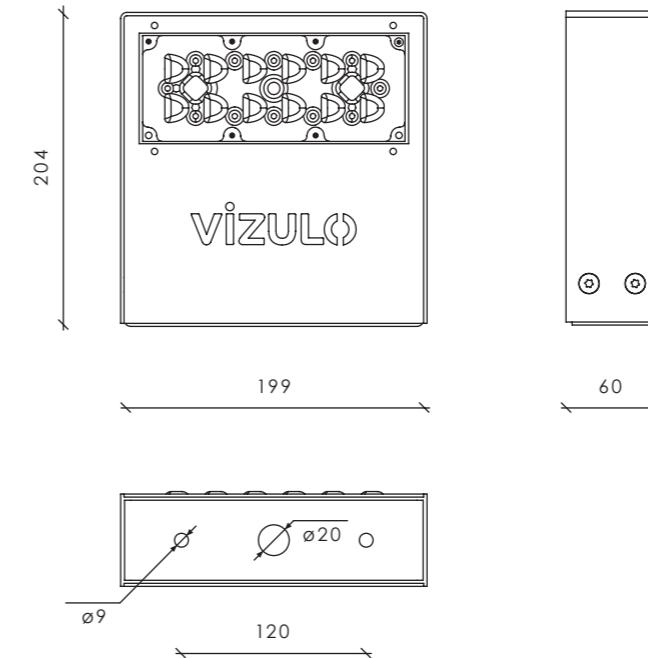
Luminaire efficacy	2700 K	8 - 26 W	913 - 3090 lm	106 - 125 lm/W
	3000 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W
	5000 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W
	5700 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W

## Model name principles



EXAMPLE RB 008 730 E93 BC004 CB12S NC1

# Rook



Other colors  
available on request

## Technical information



V	220 - 240	DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	15 - 28	Warranty 5 years
lm	1845 - 3890 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C <sup>(4)</sup>
lm/W	119 - 143	
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50	Surge protection: 6 kV
CRI	>70 / >80 <sup>(3)</sup>	Body: Aluminium
		Neto weight: 3,3 kg
		Max. wind load area, SCd, m <sup>2</sup> : 0,015

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L90/B10\*

<sup>(5)</sup> 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 will reach 100 000 h L90/B10. 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

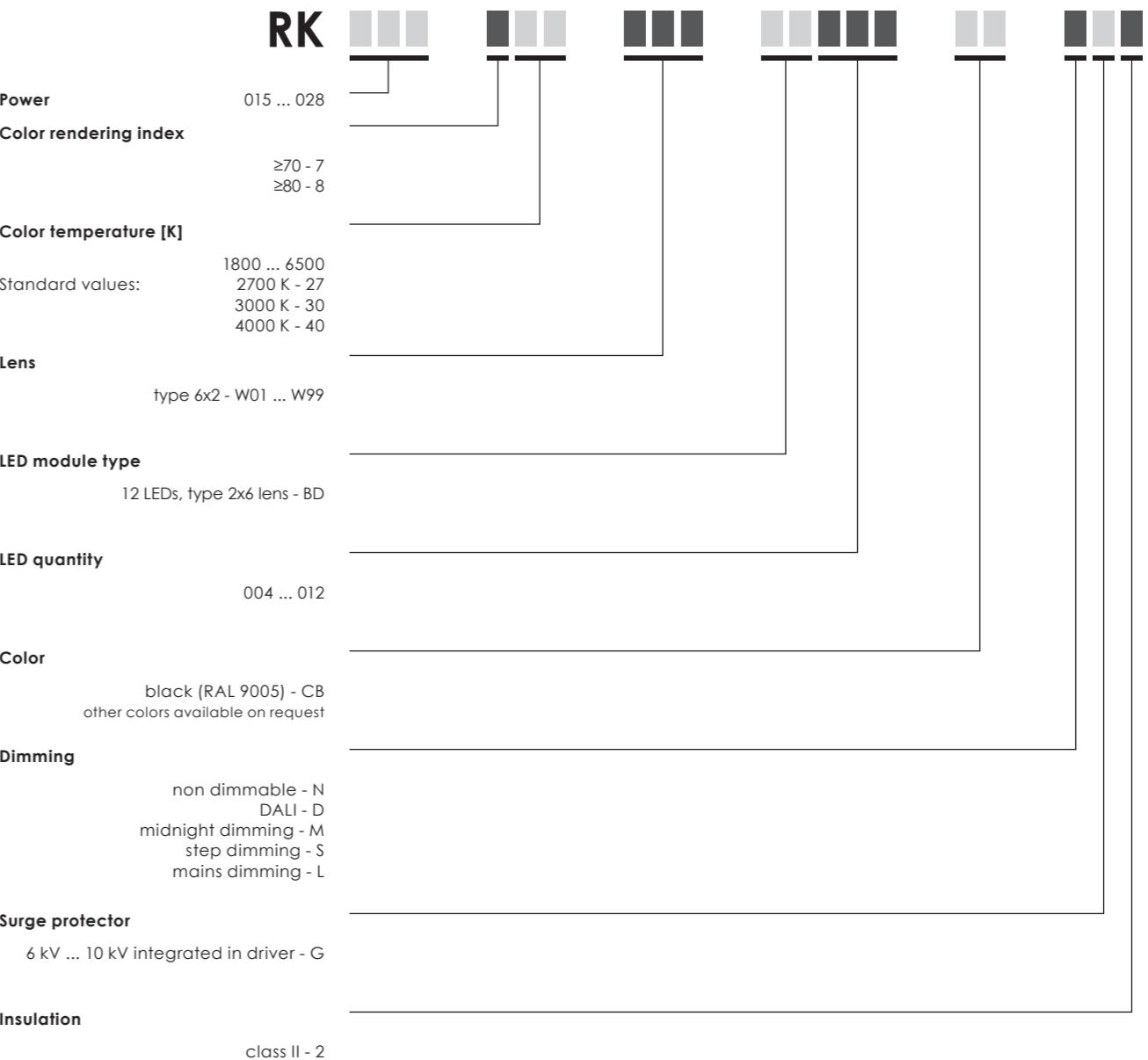
## Standard modules

4000 K | CRI 70

<b>Number of LED's</b>	12		
<b>Nominal current, mA</b>	370	510	720
<b>Power, W</b>	15	20	28
<b>Luminous Flux, lm</b>	2150	2870	3890
<b>Efficacy, lm/W</b>	143	144	139
<b>Power factor, PF</b>	0,90	0,95	0,95

Luminaire efficacy	2700 K	15 - 28 W	1845 - 3330 lm	119 - 123 lm/W
	3000 K	15 - 28 W	2030 - 3660 lm	131 - 135 lm/W
	5000 K	15 - 28 W	2150 - 3890 lm	139 - 143 lm/W
	5700 K	15 - 28 W	2150 - 3890 lm	139 - 143 lm/W

## Model name principles

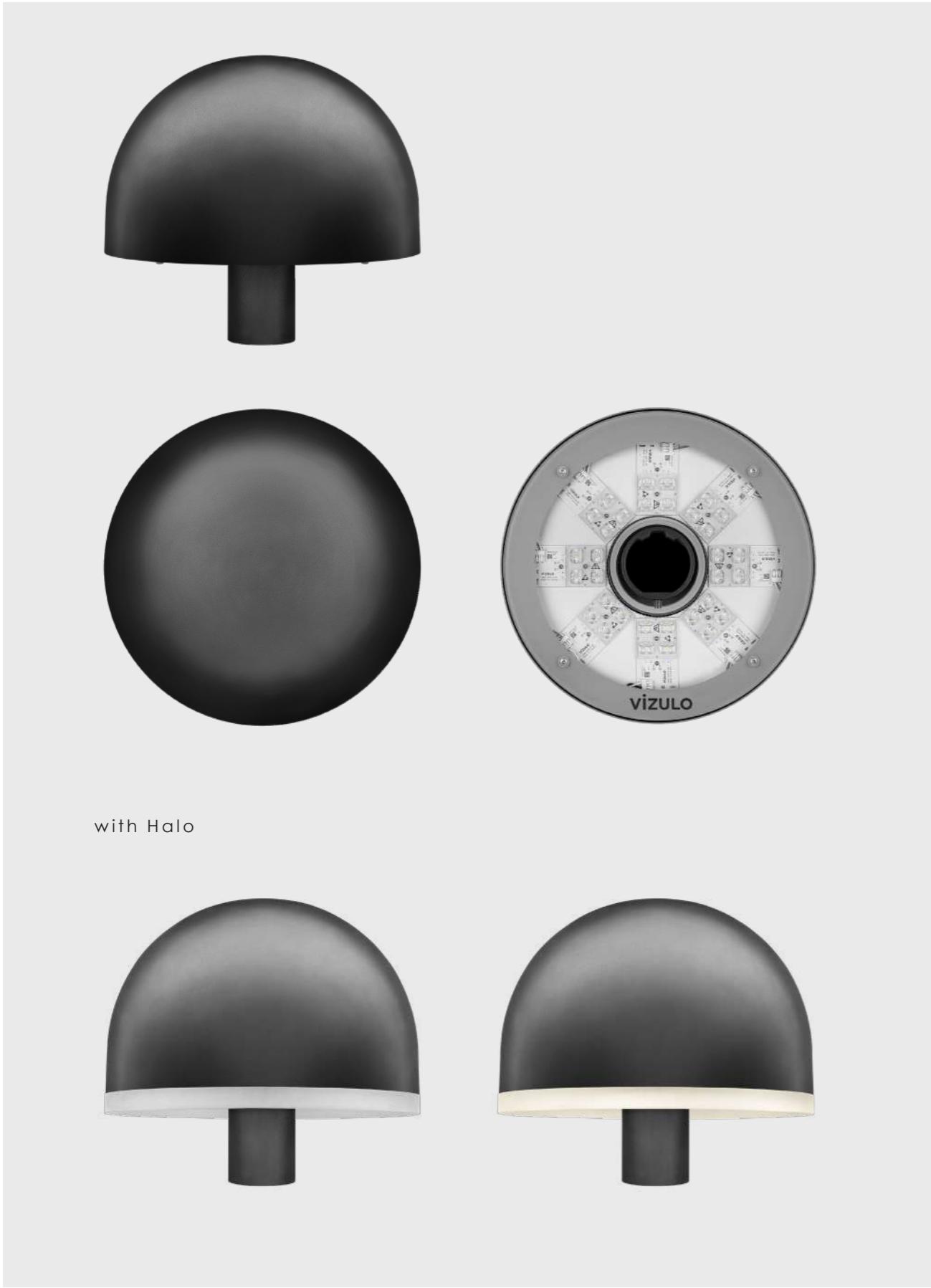


**EXAMPLE** RK 012 730 W53 BD012 CB NG2

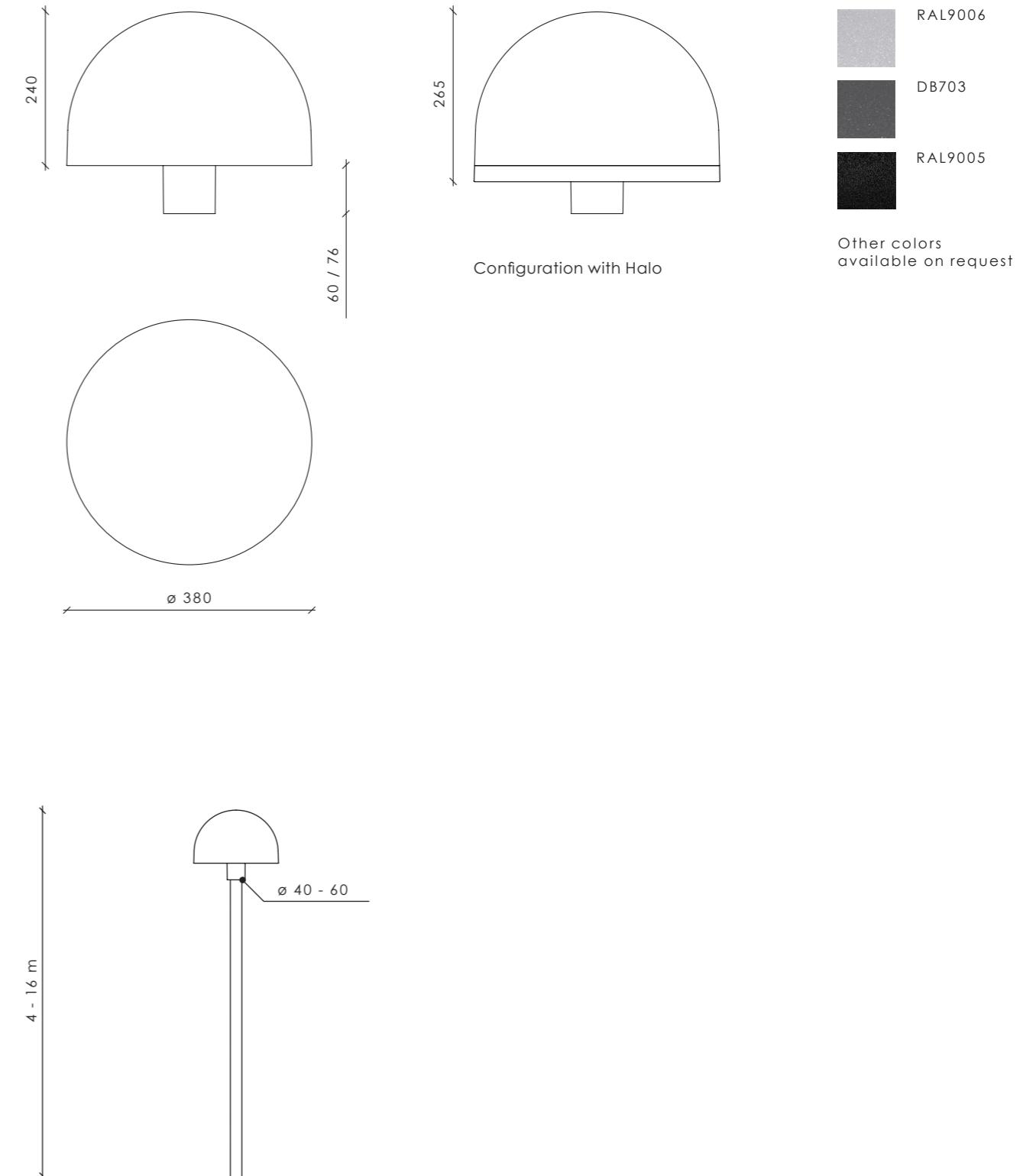
\* Data for L01 optic.

Check VIZULO members section for additional information

# Blackbird mushroom



with Halo



## Technical information



<b>V</b>	220 - 240	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 100	Warranty 5 years
<b>Im</b>	480 - 14700 <sup>(1)</sup>	100 000 h (L98B10) at Ta = 25 °C
<b>Im/W</b>	96 - 158	100 000 h (L80B10) at Ta = 25 °C (ECO) <sup>(4)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	
<b>°C</b>	-40 to +50	
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6 kV, 10 kV (optional) <sup>(5)</sup>
		Body: Die-cast aluminium
		Intelligent light control system: Radio frequency / Power line <sup>(6)</sup>
		Socket: Zhaga

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available (2700 - 6500 K);

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

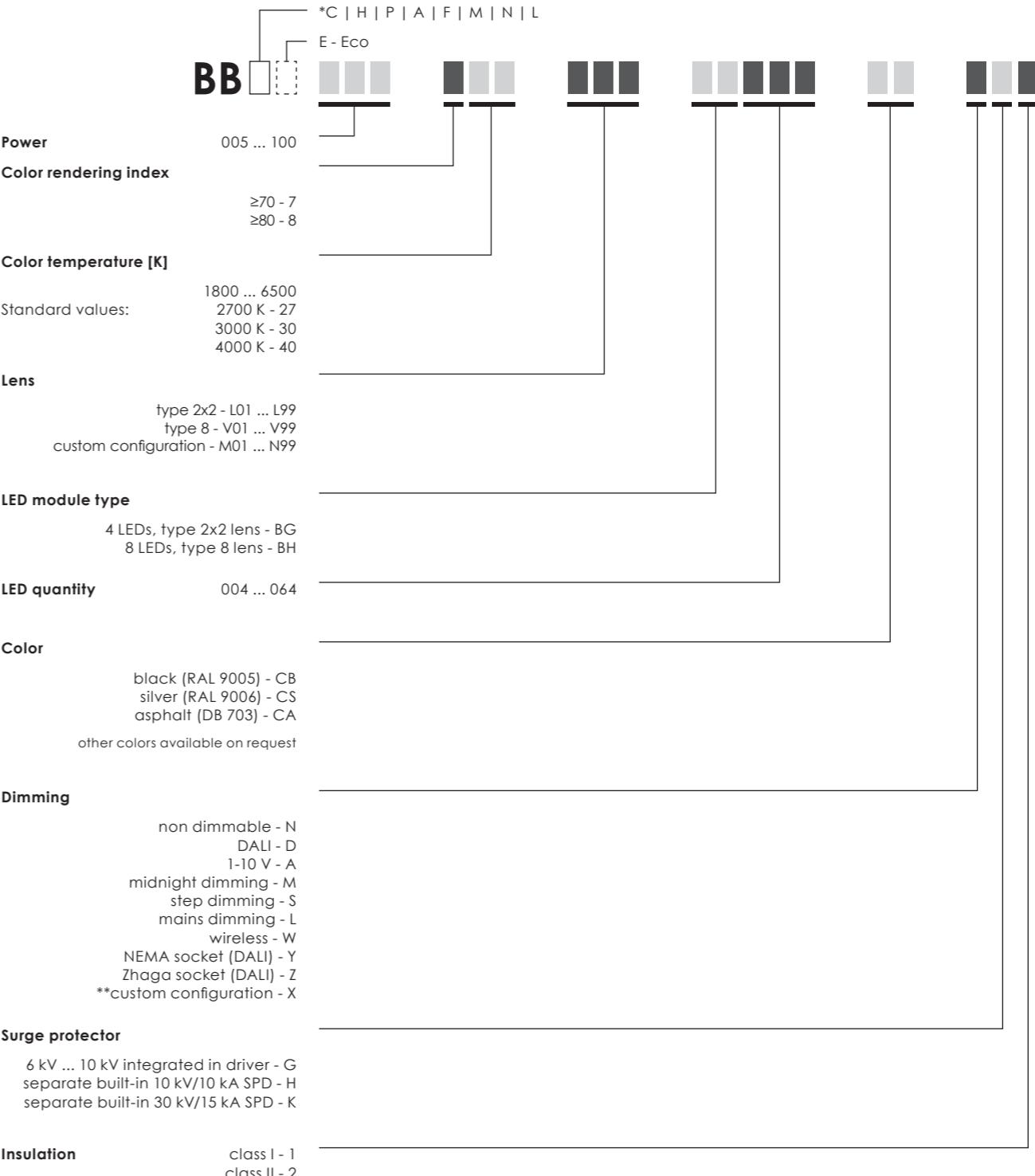
<sup>(5)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



EXAMPLE BBM 050 730 L01 BG032 CB DG1

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

\*\* CUSTOM CONFIGURATION EXAMPLE:  
NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.  
Custom configuration information is available in order confirmation.

**Standard  
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			32		
<b>Nominal current, mA</b>	150	550	710	150	500	780	260	480	710	350	500	760
<b>Power, W</b>	5	15	19	15	25	39	20	35	52	35	50	75
<b>Luminous Flux, lm</b>	560	2000	2500	2180	3600	5400	3000	5100	7200	5400	7400	10400
<b>Efficacy, lm/W</b>	112	133	132	145	144	138	150	149	140	154	148	139
<b>Power factor, PF</b>	0,69	0,90	0,94	0,83	0,93	0,95	0,86	0,94	0,97	0,86	0,93	0,97

Luminaire efficacy	2700 K	5 - 75 W	480 - 8900 lm	96 - 132 lm/W
	3000 K	5 - 75 W	530 - 9800 lm	106 - 146 lm/W
	5000 K	5 - 75 W	560 - 10400 lm	112 - 154 lm/W
	5700 K	5 - 75 W	560 - 10400 lm	112 - 154 lm/W

**ECO**

\* Data for L01 optic.  
Check VIZULO members section for additional information

4000 K | CRI 70

<b>Number of LED's</b>	8			16			24			32		
<b>Nominal current, mA</b>	280	470	700	280	490	720	270	490	650	260	380	500
<b>Power, W</b>	15	25	38	28	50	75	40	75	100	50	75	100
<b>Luminous Flux, lm</b>	2130	3400	4600	4200	6800	9100	6050	10100	12400	7620	10700	13400
<b>Efficacy, lm/W</b>	142	136	121	150	136	121	151	135	124	152	143	134
<b>Power factor, PF</b>	0,90	0,93	0,98	0,95	0,93	0,97	0,89	0,97	0,96	0,93	0,97	0,96

Luminaire efficacy	2700 K	5 - 100 W	1990 - 12400 lm	110 - 141 lm/W
	3000 K	5 - 100 W	2100 - 12900 lm	115 - 146 lm/W
	5000 K	5 - 100 W	2130 - 13400 lm	121 - 152 lm/W
	5700 K	5 - 100 W	2130 - 13400 lm	121 - 152 lm/W

**High density  
modules**

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

4000 K | CRI 70

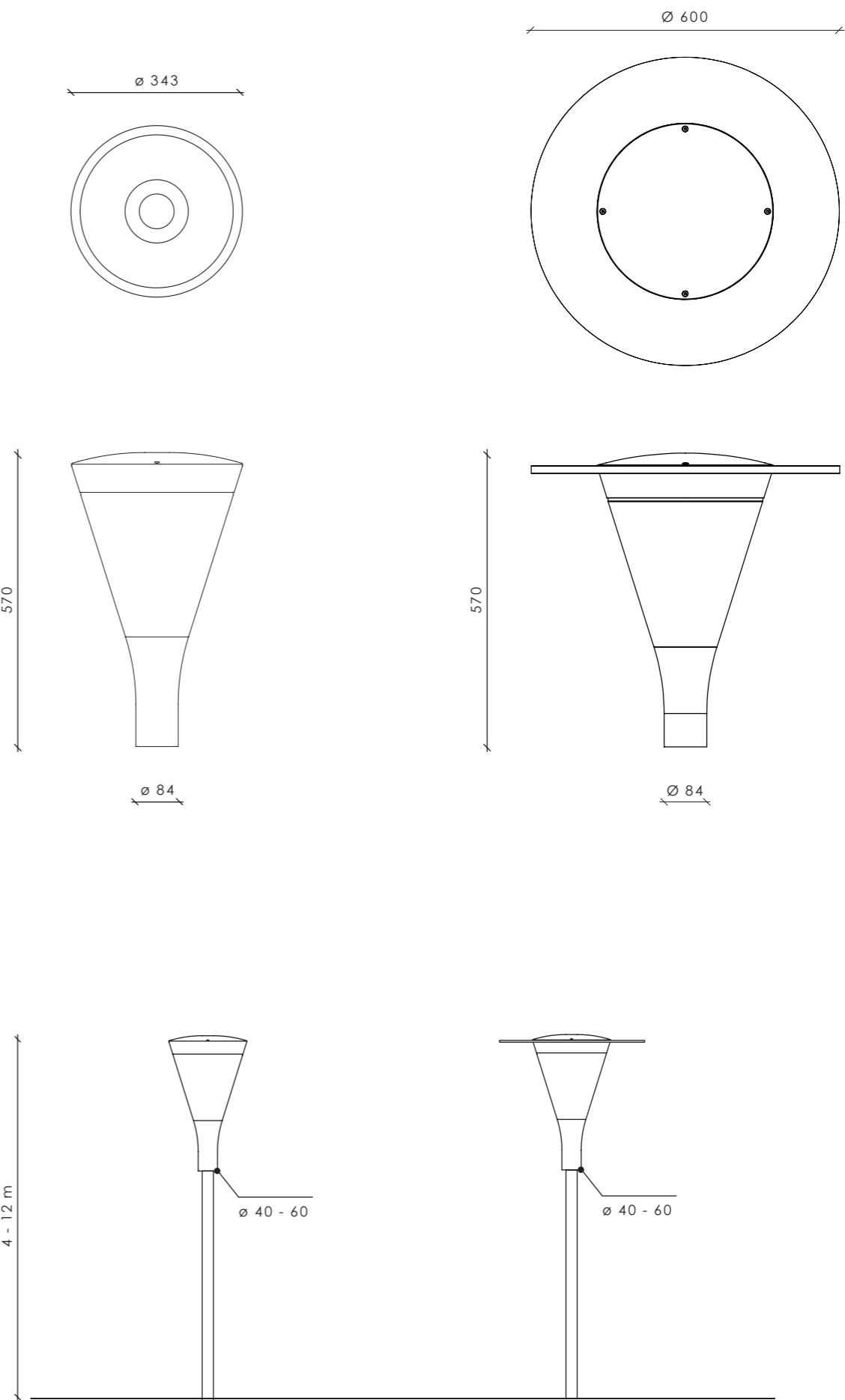
<b>Number of LED's</b>	16			32			48			64		
<b>Nominal current, mA</b>	150	500	780	350	500	760	280	510	680	250	390	520
<b>Power, W</b>	15	25	39	35	50	75	40	75	100	50	75	100
<b>Luminous Flux, lm</b>	2180	3600	5400	5400	7400	10400	6300	11000	14000	7800	11400	14700
<b>Efficacy, lm/W</b>	145	144	138	154	148	139	158	147	140	156	152	147
<b>Power factor, PF</b>	0,83	0,93	0,95	0,86	0,93	0,97	0,89	0,97	0,96	0,84	0,92	0,96

Luminaire efficacy	2700 K	15 - 100 W	1830 - 12600 lm	115 - 134 lm/W
	3000 K	15 - 100 W	2020 - 13900 lm	127 - 148 lm/W
	5000 K	15 - 100 W	2180 - 14700 lm	138 - 158 lm/W
	5700 K	15 - 100 W	2180 - 14700 lm	138 - 158 lm/W

# Luscinia post top



RAL9006   DB703   RAL9005  
Other colors available on request



## Technical information



V	198 - 264	1 - 10 V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 75	Warranty 5 years
lm	490 - 11400 <sup>(1)</sup>	100 000 h (L95B10) at Ta = 25 °C
lm/W	98 - 161	100 000 h (L80B10) at Ta = 25 °C (ECO) <sup>(4)</sup>
K	2700 / 3000 / 4000 <sup>(2)</sup>	
°C	-40 to +50 (5 - 50 W)	
	-40 to +35 (50 - 75 W)	
CRI	>70 / >80 <sup>(3)</sup>	
		Surge protection: 6 kV; 10 kV (optional) <sup>(5)</sup>
		Spigot: Ø 40 - 60 mm
		Intelligent light control system: Radio frequency / Power line <sup>(6)</sup>
		Socket: Zhaga / NEMA
		Body: Die-cast aluminium
		Max. wind load area, SCd, m <sup>2</sup> : 0,12

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> 10 kV (L-N; L/N-PE) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

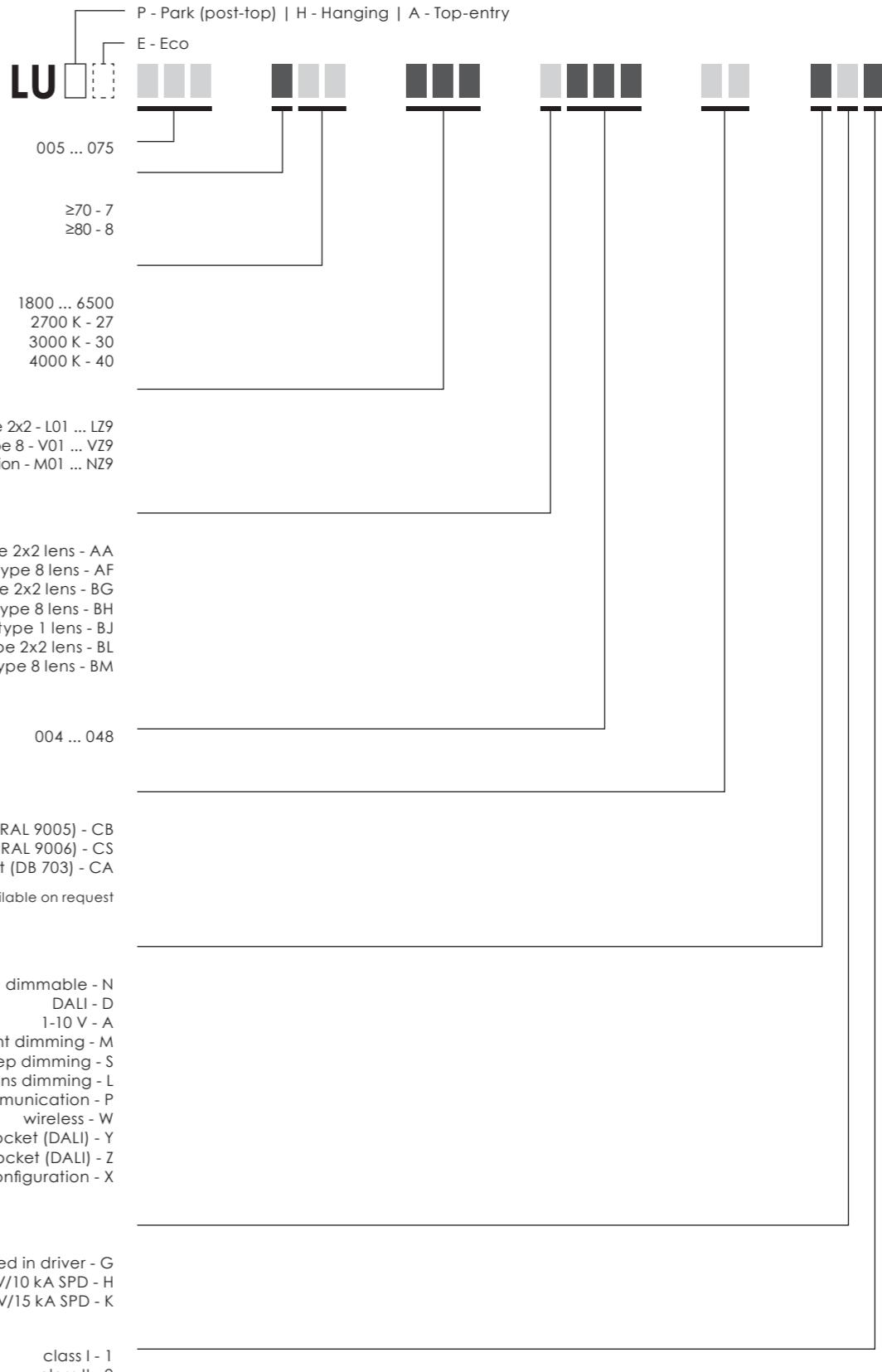
<sup>(7)</sup> Safety class II

<sup>(8)</sup> Check SundaHus web page for product assessment results

\*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 will reach 100 000 h L90/B10. 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

## Model name principles



### \* CUSTOM CONFIGURATION EXAMPLE

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

**Standard  
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>	140	540	700
<b>Power, W</b>	5	15	19
<b>Luminous Flux, lm</b>	570	2140	2690
<b>Efficacy, lm/W</b>	114	143	142
<b>Power factor, PF</b>	0,69	0,90	0,94
	0,83	0,93	0,98
	0,86	0,94	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

**ECO**

\* 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>	280	490	700
<b>Power, W</b>	15	26	38
<b>Luminous Flux, lm</b>	2160	3555	4800
<b>Efficacy, lm/W</b>	144	137	126
<b>Power factor, PF</b>	0,90	0,97	0,98
	0,95	0,93	0,97
	0,89	0,95	0,97

Luminaire efficacy	2700 K	15 - 75 W	2040 - 9830 lm	118 - 147 lm/W
	3000 K	15 - 75 W	2160 - 10500 lm	126 - 157 lm/W
	5000 K	15 - 75 W	2160 - 10500 lm	126 - 157 lm/W
	5700 K	15 - 75 W	2160 - 10500 lm	126 - 157 lm/W

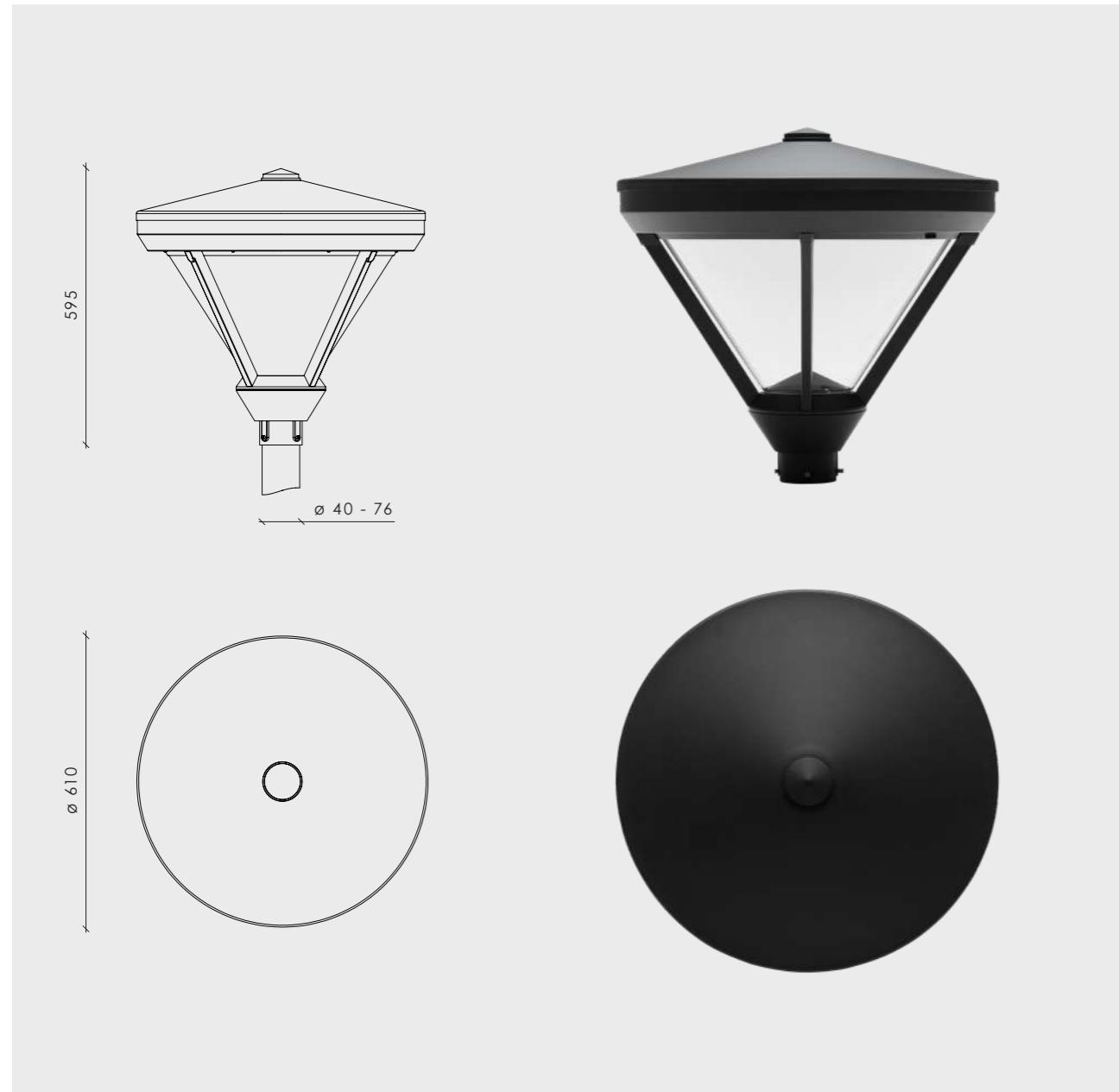
**High density  
modules**

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

4000 K | CRI 70

<b>Number of LED's</b>	8	16	32	48
<b>Nominal current, mA</b>	140	540	700	280
<b>Power, W</b>	5	15	19	15
<b>Luminous Flux, lm</b>	570	2140	2690	2360
<b>Efficacy, lm/W</b>	114	143	142	157
<b>Power factor, PF</b>	0,69	0,90	0,94	0,83
	0,83	0,93	0,98	0,81
	0,93	0,98	0,97	0,89
	0,97	0,95	0,95	0,97

Luminaire efficacy	2700 K	5 - 75 W	490 - 9770 lm	98 - 139 lm/W
	3000 K	5 - 75 W	540 - 10740 lm	108 - 153 lm/W
	5000 K	5 - 75 W	570 - 11400 lm	114 - 161 lm/W
	5700 K	5 - 75 W	570 - 11400 lm	114 - 161 lm/W



<b>V</b>	220 - 240	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 100	Warranty 5 years
<b>lm</b>	426 - 12235 <sup>①</sup>	> 70 000 h (L90B10) at Ta = 25 °C <sup>④</sup>
<b>lm/W</b>	85 - 137	
<b>K</b>	2700 / 3000 / 4000 <sup>②</sup>	Surge protection: 6 kV (L-N) and 10 kV (L/N -PE without DALI connection) <sup>⑤</sup>
<b>°C</b>	-40 to +40	Intelligent light control system: Radio frequency / Power line <sup>⑥</sup>
<b>CRI</b>	>70 / >80 <sup>③</sup>	Neto weight: 8,80 - 8,90 kg
		Max. wind load area, SCd, m <sup>2</sup> : 0,19

<sup>①</sup> Lumen output indicated at CRI > 70

<sup>②</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available;

Amber option available

<sup>③</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>④</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>⑤</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>⑥</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

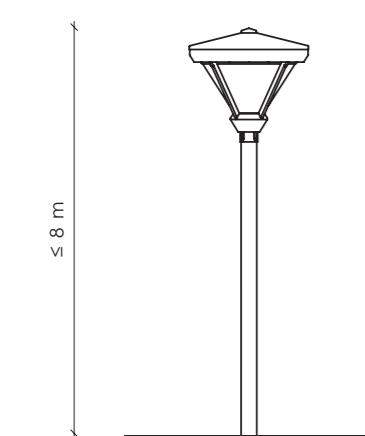
\* Data for L01 optic.

Check VIZULO members section for additional information

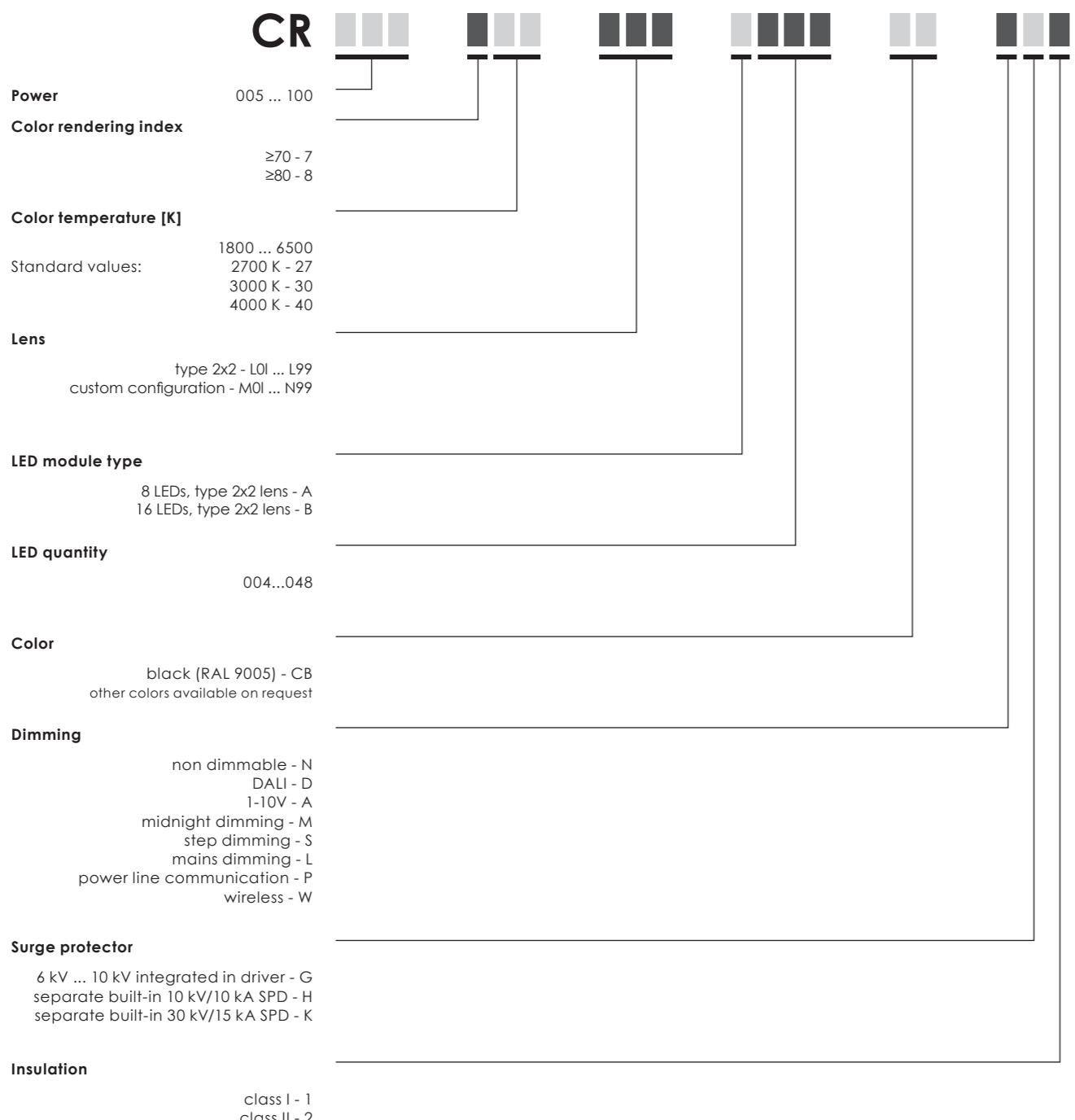
4000 K | CRI 70

Number of LED's	8	16	32	48
Nominal current, mA	140	540	660	280
Power, W	5	15	18	25
Luminous Flux, lm	500	1770	2111	480
Efficacy, lm/W	100	118	117	122
Power factor, PF	0,69	0,90	0,93	0,90
Luminaire efficacy	2700 K	5 - 100 W	426 - 10480 lm	85 - 117 lm/W
	3000 K	5 - 100 W	470 - 11535 lm	94 - 129 lm/W
	5000 K	5 - 100 W	500 - 12235 lm	100 - 137 lm/W
	5700 K	5 - 100 W	500 - 12235 lm	100 - 137 lm/W

Luminaire efficacy	2700 K	5 - 100 W	426 - 10480 lm	85 - 117 lm/W
	3000 K	5 - 100 W	470 - 11535 lm	94 - 129 lm/W
	5000 K	5 - 100 W	500 - 12235 lm	100 - 137 lm/W
	5700 K	5 - 100 W	500 - 12235 lm	100 - 137 lm/W



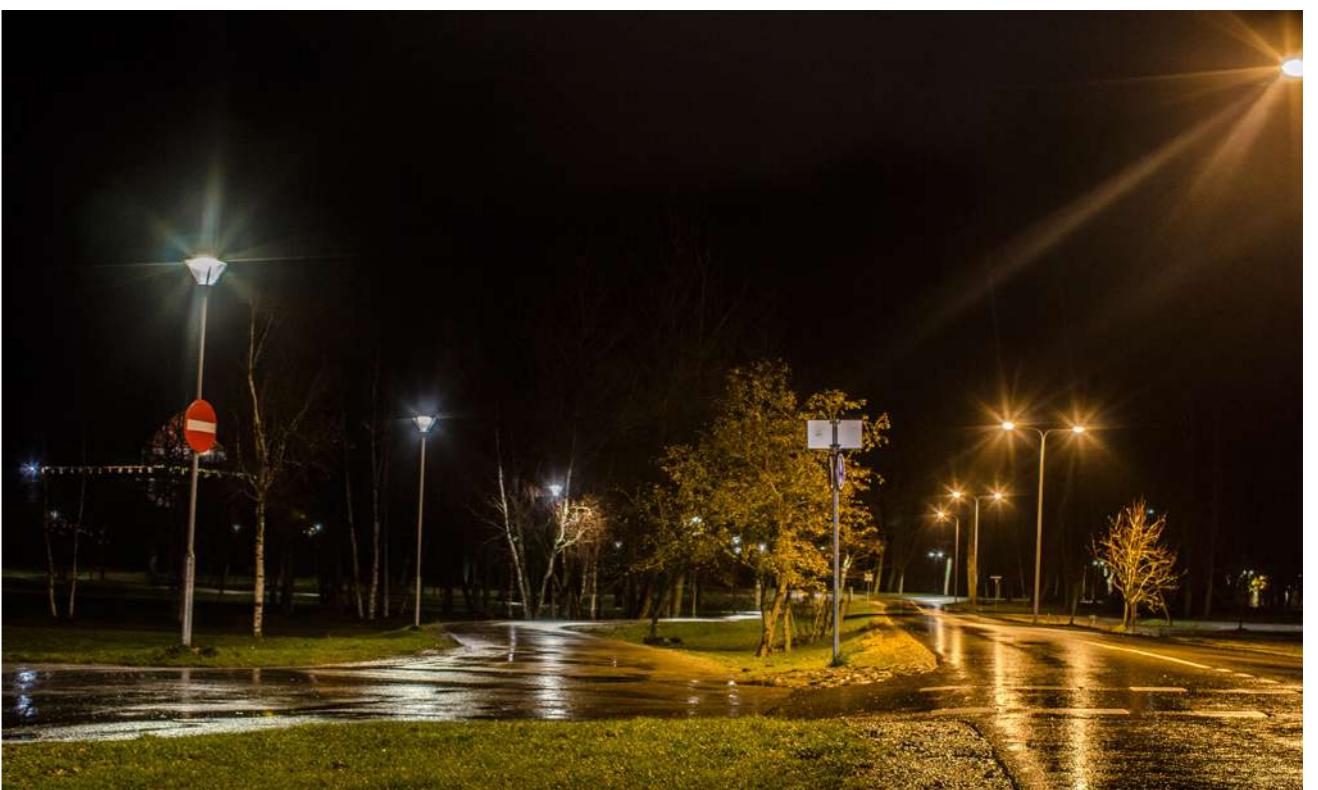
**Model name  
principles**



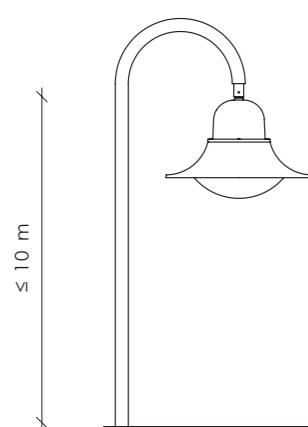
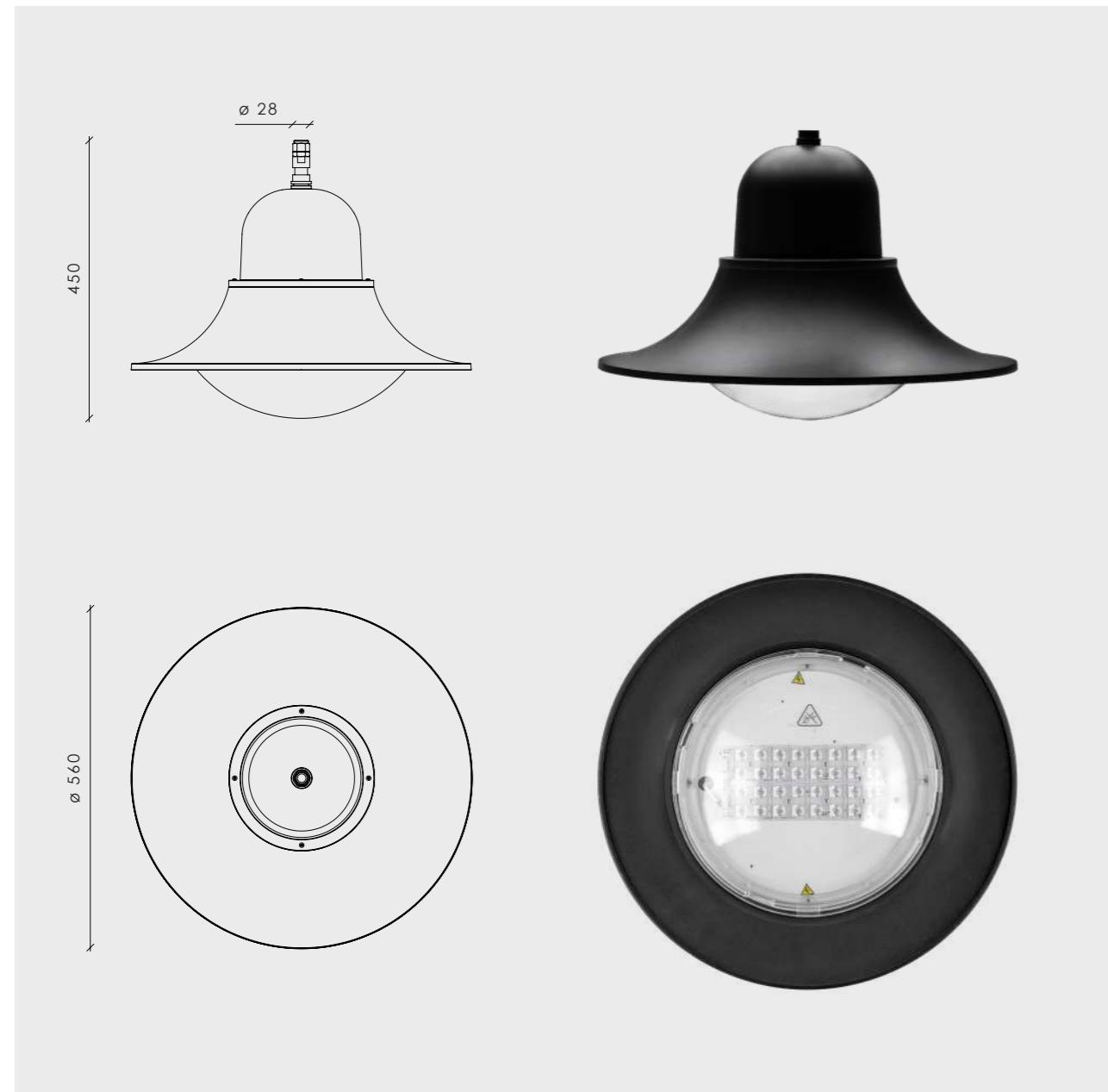
EXAMPLE CR 010 830 M92 A008 CB NG1



Haapsalu | Estonia



Kuressaare | Estonia



<b>V</b>	220 - 240	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 82	Warranty 5 years
<b>lm</b>	490 - 12125 <sup>(1)</sup>	> 70 000 h (L90B10) at Ta = 25 °C <sup>(4)</sup>
<b>lm/W</b>	98 - 161	Surge protection: 6 kV (L-N) and 10 kV (L/N -PE without DALI connection) <sup>(5)</sup>
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Intelligent light control system:
<b>°C</b>	-40 to +40	Neto weight: 5,52 - 5,62 kg
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Max. wind load area, SCd, m <sup>2</sup> : 0,12

<sup>(1)</sup> Lumen output indicated at CRI > 70<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available;

Amber option available

<sup>(3)</sup> Luminaires with color rendering index (CRI): Ra > 90 on request<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*<sup>(5)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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.

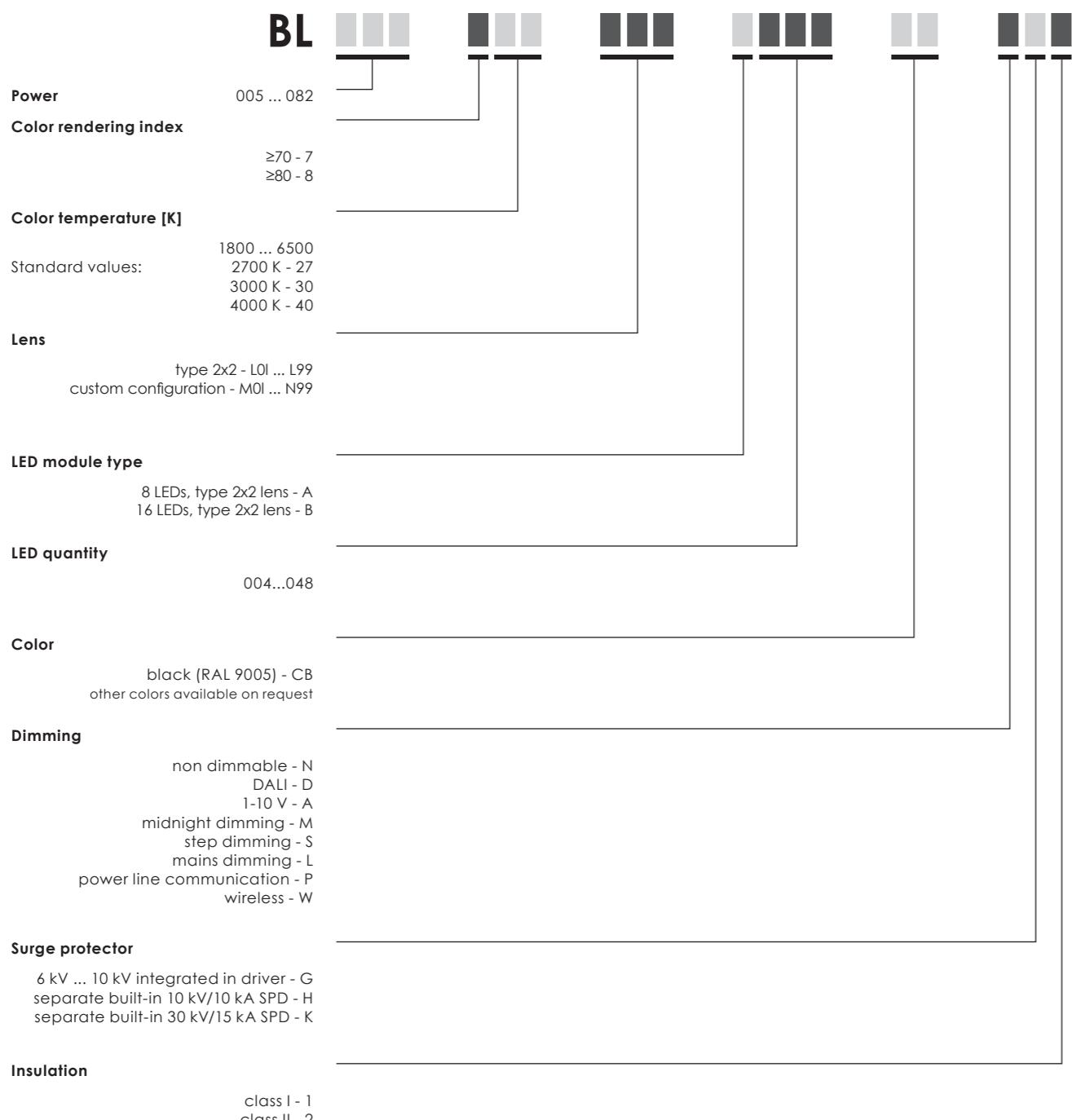
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's	8	16	32	48
Nominal current, mA	140	540	660	280
Power, W	5	15	18	480
Luminous Flux, lm	570	2030	2412	690
Efficacy, lm/W	114	135	134	147
Power factor, PF	0,69	0,90	0,93	0,90

Luminaire efficacy	2700 K	5 - 82 W	490 - 10400 lm	98 - 138 lm/W
	3000 K	5 - 82 W	536 - 11430 lm	107 - 152 lm/W
	5000 K	5 - 82 W	570 - 12125 lm	114 - 161 lm/W
	5700 K	5 - 82 W	570 - 12125 lm	114 - 161 lm/W

**Model name  
principles**



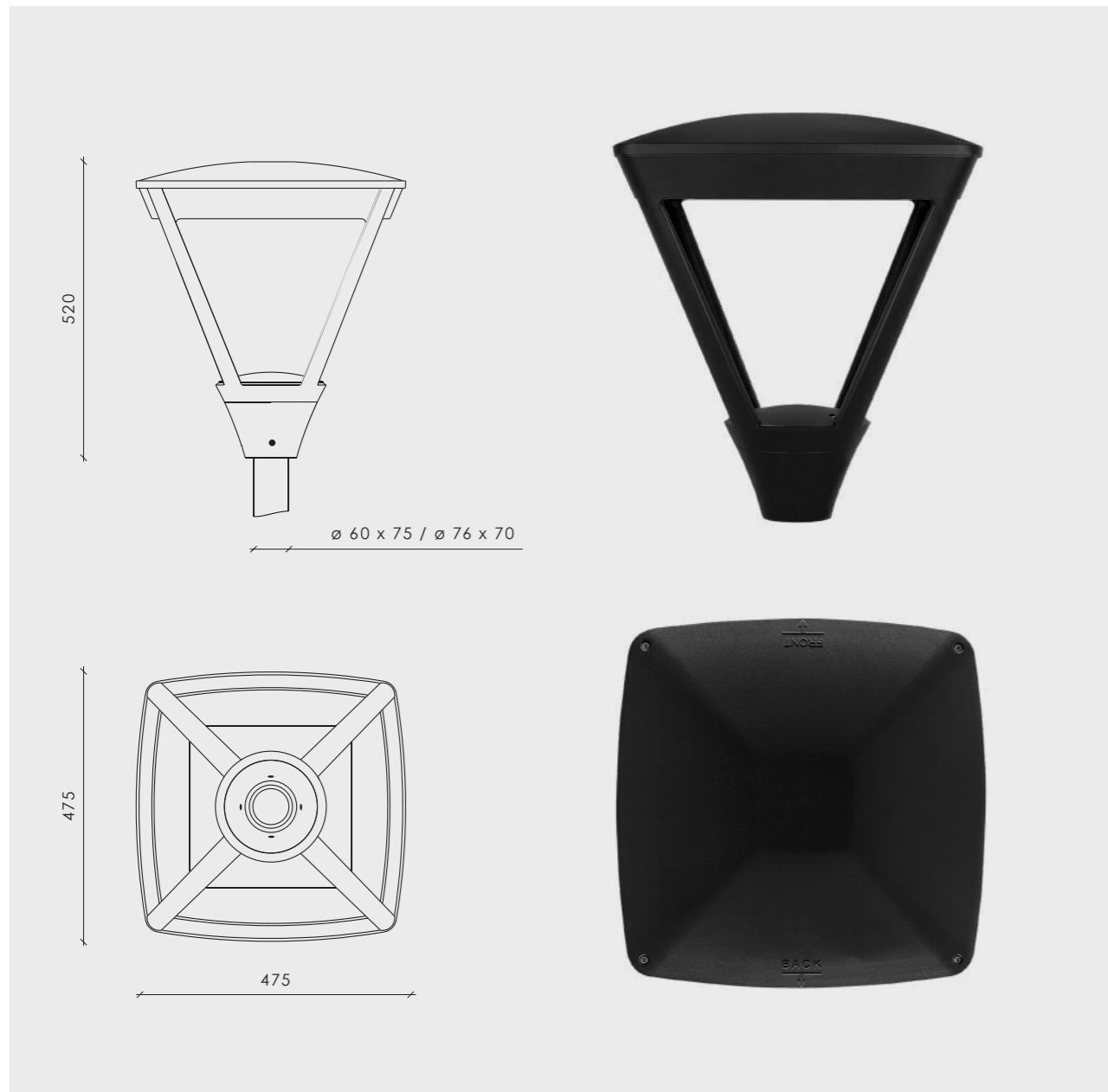
**EXAMPLE** BL 013 730 L01 B016 CB DG1



Riga | Latvia



Kuressaare | Estonia



<b>V</b>	220 - 240
<b>Hz</b>	50 - 60
<b>W</b>	5 - 100
<b>lm</b>	398 - 12475 <sup>(1)</sup>
<b>lm/W</b>	77 - 131
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>
<b>°C</b>	-40 to +40
<b>CRI</b>	>70 / >80 <sup>(3)</sup>

1 - 10 V; DALI; Midnight dimming
Chromaticity tolerance (initial MacAdam): 5
Warranty 5 years
> 70 000 h (L90B10) at Ta = 25 °C <sup>(4)</sup>
Surge protection: 6 kV (L-N) and 10 kV (L/N-PE without DALI connection) <sup>(5)</sup>
Intelligent light control system: Radio frequency / Power line <sup>(6)</sup>
Socket: Zhaga / NEMA
Neto weight: 10,10 kg
Max. wind load area, SCd, m <sup>2</sup> : 0,10

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Amber option available

<sup>(3)</sup> Luminaires with color rendering index (CRI): Ra > 90 on request

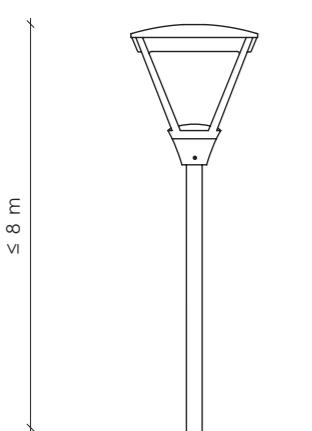
<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

4000 K | CRI 70

<b>Number of LED's</b>	8		16		32		
<b>Nominal current, mA</b>	140	540	670	280	480	730	280
<b>Power, W</b>	5	15	19	15	25	37	28
<b>Luminous Flux, lm</b>	463	1680	2110	1800	2960	4200	3610
<b>Efficacy, lm/W</b>	93	112	111	120	118	114	129
<b>Power factor, PF</b>	0,69	0,90	0,93	0,83	0,93	0,97	0,81

<b>Number of LED's</b>	48		64				
<b>Nominal current, mA</b>	270	480	680	250	360	520	
<b>Power, W</b>	40	70	100	50	70	100	
<b>Luminous Flux, lm</b>	5145	8545	11670	6570	9040	12475	
<b>Efficacy, lm/W</b>	129	122	117	131	129	125	
<b>Power factor, PF</b>	0,89	0,95	0,97	0,97	0,98	0,99	

<b>Luminaire efficacy</b>	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

4000 K | CRI 70

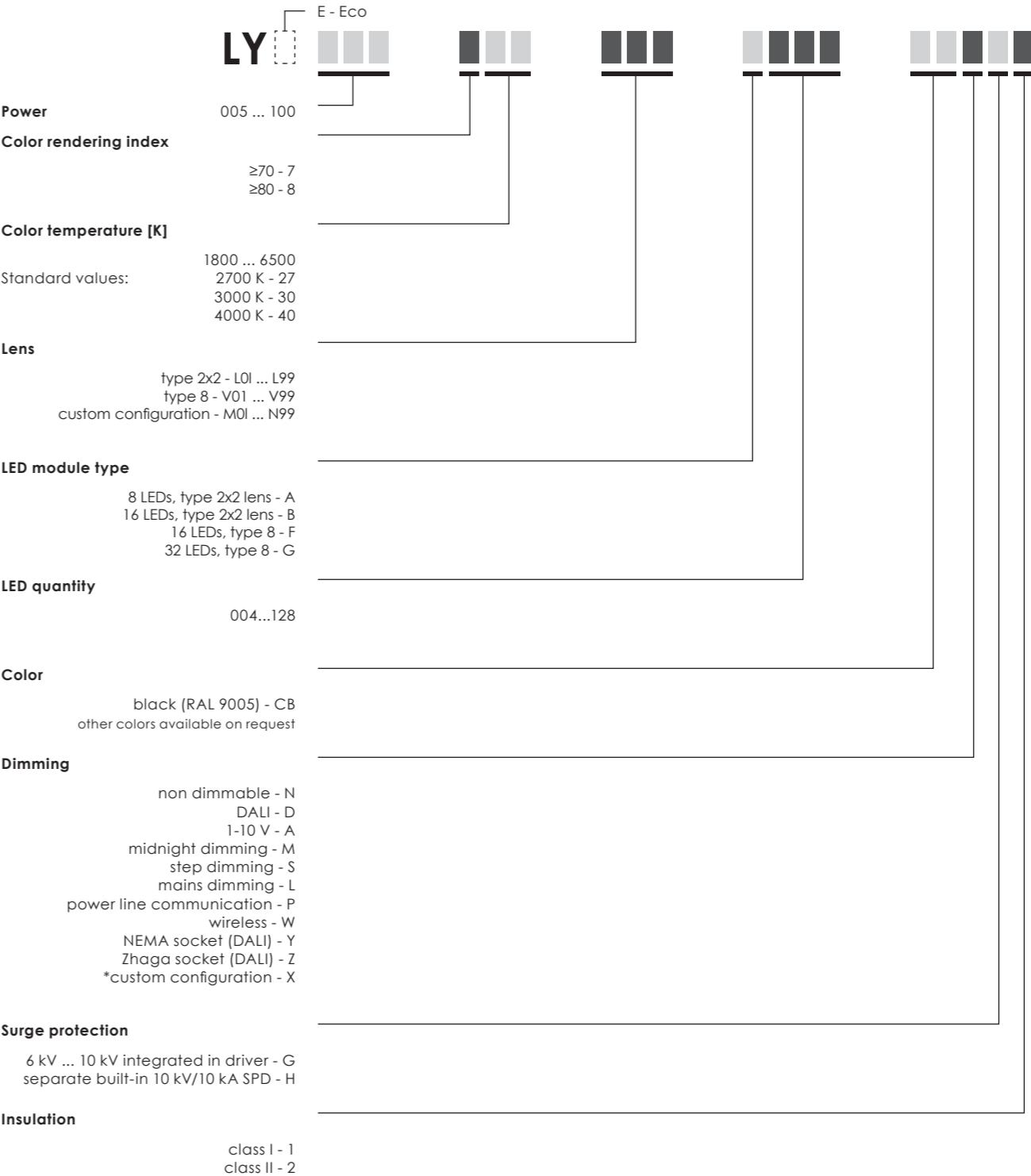
<b>Number of LED's</b>	16		32		64		
<b>Nominal current, mA</b>	280	480	770	280	510	770	250
<b>Power, W</b>	15	25	39	28	50	75	50
<b>Luminous Flux, lm</b>	1810	3000	4420	3610	6140	8650	6570
<b>Efficacy, lm/W</b>	121	120	113	129	123	115	131
<b>Power factor, PF</b>	0,83	0,93	0,98	0,81	0,93	0,97	0,97

<b>Luminaire efficacy</b>	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			

\* Data for L01 optic.

Check VIZULO members section for additional information

**Model name  
principles**



**EXAMPLE** LY 014 830 L01 A016 CHNG1

\* CUSTOM CONFIGURATION EXAMPLE

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

# Orris basic

## Technical information



<b>V</b>	220 - 240	1 - 10 V; DALI; Midnight dimming
<b>Hz</b>	50 - 60	Chromaticity tolerance (initial MacAdam): 5
<b>W</b>	5 - 75	Warranty 5 years
<b>lm</b>	400 - 8920 <sup>(1)</sup>	100 000 h (L90B10) at Ta = 25 °C <sup>(4)</sup>
<b>lm/W</b>	80 - 128	
<b>K</b>	2700 / 3000 / 4000 <sup>(2)</sup>	Surge protection: 6 kV (L-N) and 10 kV (L/N-PE without DALI connection) <sup>(5)</sup>
<b>°C</b>	-40 to +50 (5 - 50 W) -40 to +40 (50 - 75 W)	Intelligent light control system: Radio frequency / Power line <sup>(6)</sup>
<b>CRI</b>	>70 / >80 <sup>(3)</sup>	Socket: Zhaga
		Neto weight: 7,51 - 7,59 kg
		Max. wind load area, SCd, m <sup>2</sup> : 0,09

<sup>(1)</sup> Lumen output indicated at CRI > 70

<sup>(2)</sup> 1800 / 2200 / 5000 / 5700 / 6500 K available on request;

Tunable white option available;

Amber option available

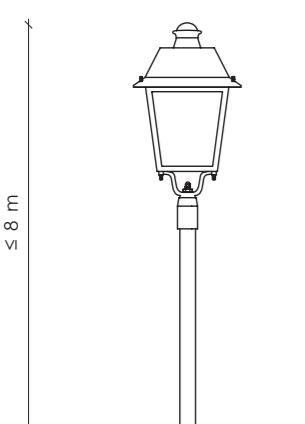
<sup>(3)</sup> Luminaries with color rendering index (CRI): Ra > 90 on request

<sup>(4)</sup> Average lifetime value for ECO model at Ta = 25 °C is 100 000 h L80/B10\*

<sup>(5)</sup> 10 kV ( L-N; L/N-PE ) surge protection device available on request

<sup>(6)</sup> Optional. Available only with DALI ; 1 - 10 V

\*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 will reach 100 000 h L90/B10. 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

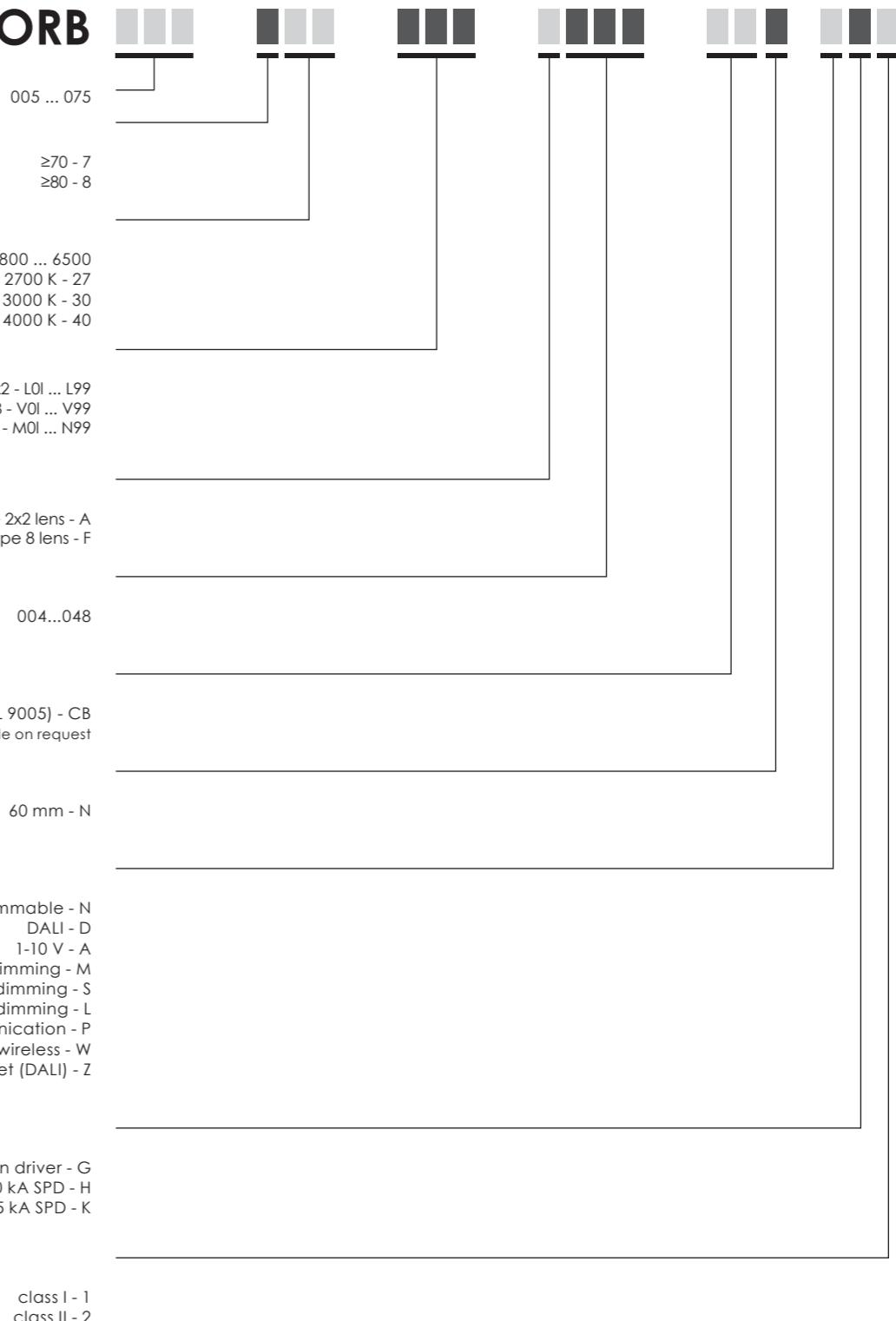
4000 K | CRI 70

<b>Number of LED's</b>	8	16	24
<b>Nominal current, mA</b>	140	540	670
<b>Power, W</b>	5	15	19
<b>Luminous Flux, lm</b>	463	1680	2110
<b>Efficacy, lm/W</b>	93	112	111
<b>Power factor, PF</b>	0,69	0,90	0,93
Luminaire efficacy	2700 K 5 - 52 W	400 - 5270 lm	80 - 109 lm/W
	3000 K 5 - 52 W	437 - 5800 lm	88 - 120 lm/W
	5000 K 5 - 52 W	463 - 6145 lm	93 - 128 lm/W
	5700 K 5 - 52 W	463 - 6145 lm	93 - 128 lm/W

\* Data for L01 optic.

Check VIZULO members section for additional information

**Model name  
principles**



High density  
modules

4000 K | CRI 70

<b>Number of LED's</b>	16	32	48
<b>Nominal current, mA</b>	280	480	770
<b>Power, W</b>	15	25	39
<b>Luminous Flux, lm</b>	1920	3155	4680
<b>Efficacy, lm/W</b>	128	126	120
<b>Power factor, PF</b>	0,83	0,93	0,98

Luminaire efficacy	2700 K 5 - 75 W	1550 - 7640 lm	97 - 110 lm/W
	3000 K 5 - 75 W	1700 - 8400 lm	106 - 120 lm/W
	5000 K 5 - 75 W	1920 - 8920 lm	117 - 128 lm/W
	5700 K 5 - 75 W	1920 - 8920 lm	117 - 128 lm/W

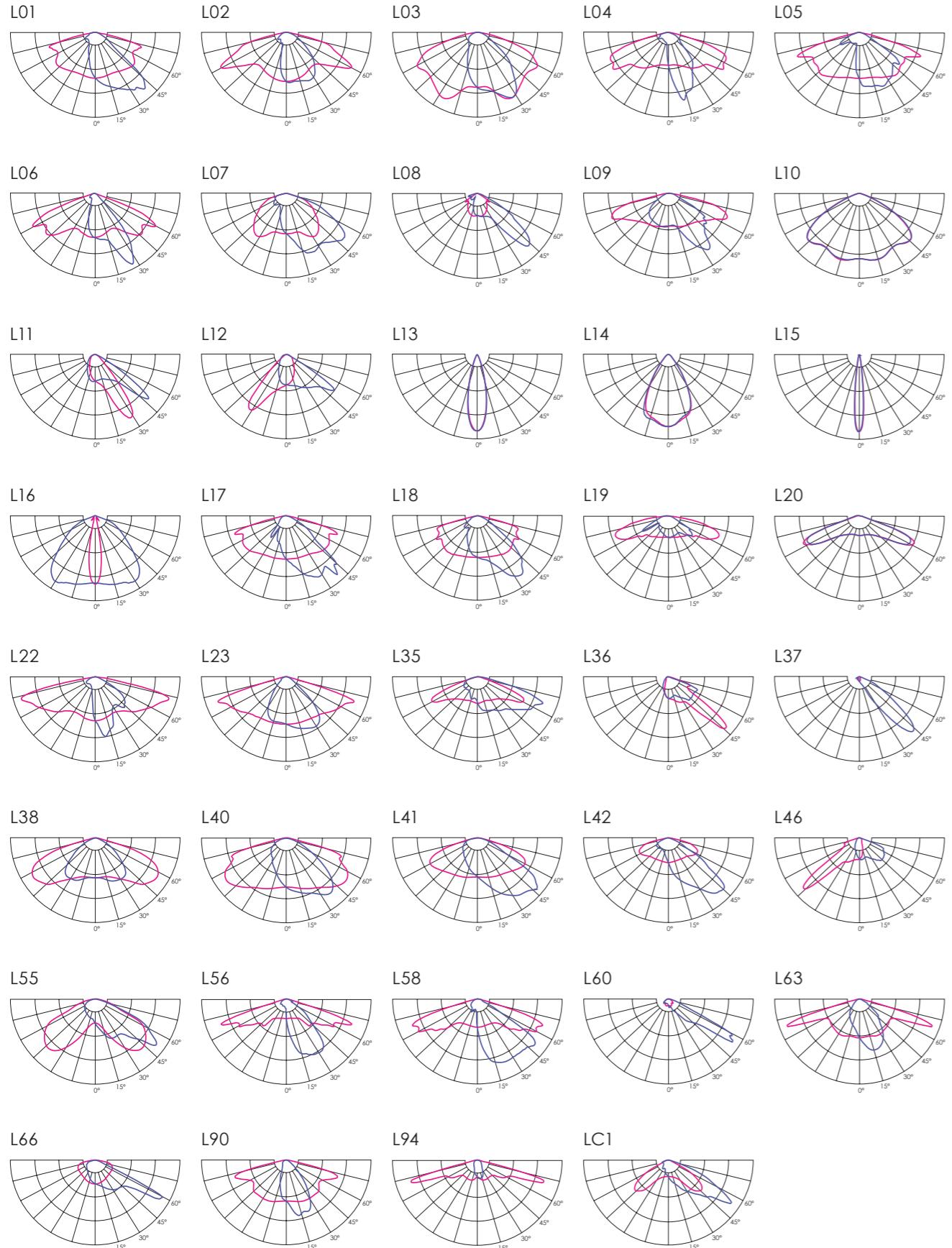
\* Data for V01 optic.

Check VIZULO members section for additional information

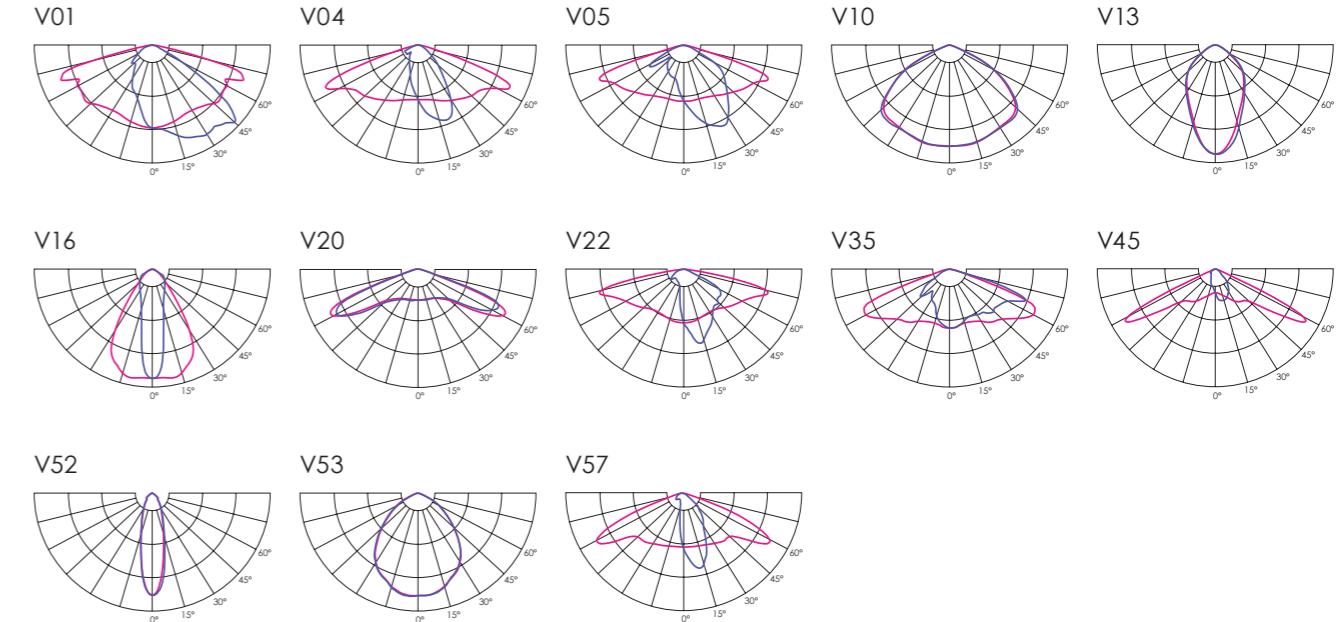
EXAMPLE ORB 032 730 L35 A016 CBN MG1

# Optics floodlight luminaires

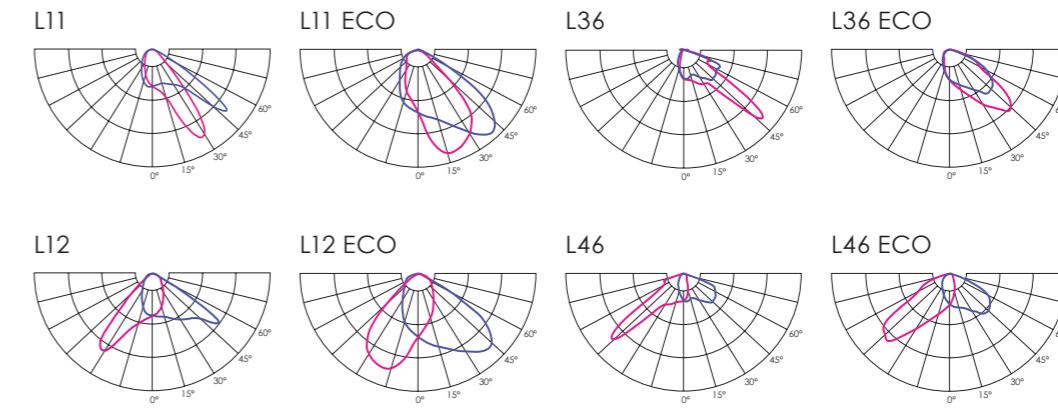
## Standard modules \*



## High density modules \*



## Pedestrian crossing optics



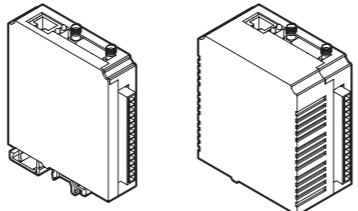
\* Optic distribution diagrams are **only for visual purposes**.  
Check VIZULO members section for precise information.

# Accessories

## Citintelly Segment controller

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

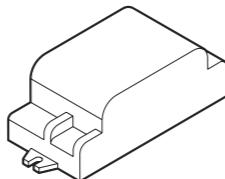
Art. 70010004



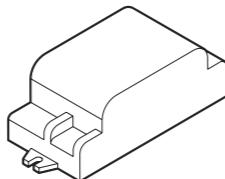
## Citintelly Luminaire controller

Luminaire Controller is wireless mesh-networking device that uses 868 MHz for communication with Segment Controller and other Luminaire Controllers. It is delivered in various configurations to meet the needs of your applications.

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



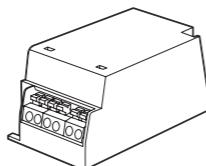
Art. 70010002 /  
LC2M-12-05-R Luminaire  
Controller - 1 relay



## Citintelly Surge Protection device

Surge Protection device offers protection against lighting surges;  
Voltage Protection level up (L-N) ≤ 1,5 kV  
Voltage Protection level up (L/N-PE) ≤ 2,0 kV  
 $U_{oo} = 10 \text{ kV}$   
 $I_{max} = 10 \text{ kA}$   
 $I_{nom} = 5 \text{ kA}$

Art. 70020001



## Radio Frequency Antenna

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

Art. 70000108



## NEMA Socket

2213362-3, 5 pin NEMA socket 105°C wires  
2213362-4, 7 pin NEMA socket 105°C wires

Art. 70000362



Art. 70000333



## Dummy Link for NEMA Socket

Art. 70000113



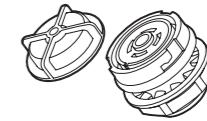
## Zhaga socket no cap

Art. 70000612



## Zhaga socket with cap

Art. 70000613



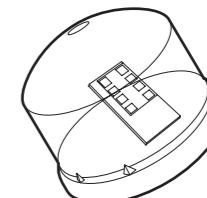
## MSLC205RG Luminaire controller + radar, Zhaga, 80mm

Art. 70010027

Compatible with:  
Stork, Stork little brother, Micro martin, Micro martin smooth, Micro martin tool-less, Micro martin tool-less | smooth, Blackbird side-entry, Blackbird post top, Blackbird hanging, Stork flood, Stork little brother flood, Micro martin flood

## MSLC205RGL Luminaire controller, Zhaga, 80mm

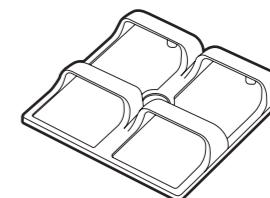
Art. 70010029



## Backlight cutter | black Backlight cutter | white

Art. 70000661

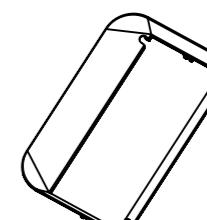
Art. 70000662



## Internal light reflector

Compatible with Colibri

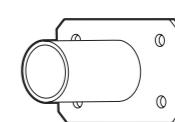
Art. 70083002



## Wall mounting bracket

Spigot size 40 - 60 mm

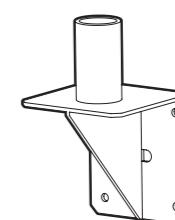
Art. 70044001



## Wall mounting bracket

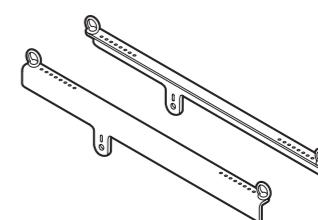
Vertical

Art. 70044004



## High Bay Suspension brackets

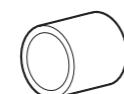
Art. 70000101



**Console adapter**

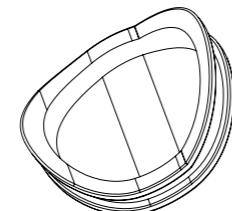
40 mm to 30 mm

Art. 70055002

**Cover for bottom console opening**

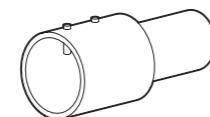
Compatible with Colibri, Colibri Midi

Art. 70083001

**Console adapter**

Spigot size 60 - 76 mm

Art. 70044002

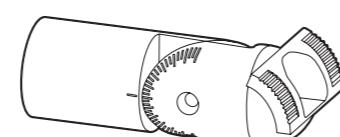
**Console**

Art. 70054001

**Adjustable Console ±90°**

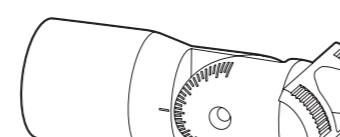
40 mm to 60 mm - Mini Martin / Micro Martin

Art. 70055005

**Adjustable Console ±90°**

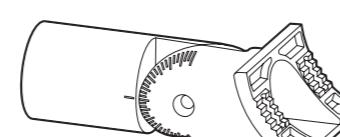
60 mm to 76 mm - Mini Martin / Micro Martin

Art. 70055006

**Adjustable Console ±90°**

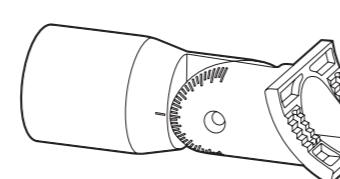
60 mm - Mini Martin / Micro Martin

Art. 70044012

**Adjustable Console ±90°**

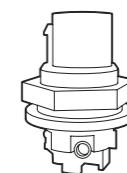
76 mm - Mini Martin / Micro Martin

Art. 70044013

**Device connector**

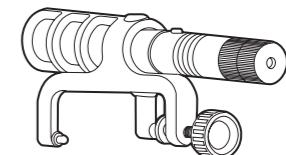
Device connectors, standard M25, RST20i5, 5 pole,  
male, screw connection  
250/400 V, 20 A

Art. 70000315

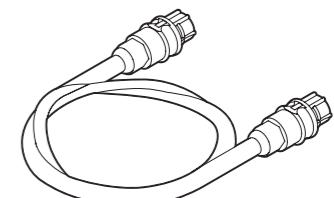
**Laser pointer with bracket**

Compatible with Eagle

Art. 70000714

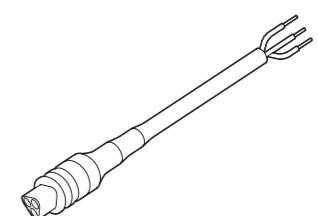
**Pre-installed cable sets  
For external power supply**

0,5 m long cable.....	Art. 70000436
5 m long cable.....	Art. 70000437
6 m long cable.....	Art. 70000438
8 m long cable.....	Art. 70000439
10 m long cable.....	Art. 70000440
12 m long cable.....	Art. 70000441
18 m long cable.....	Art. 70000442
20 m long cable.....	Art. 70000443
22 m long cable.....	Art. 70000444
25 m long cable.....	Art. 70000445

**Connection cable**

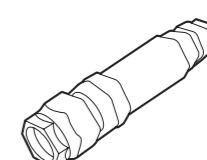
Male - free end, length 1 m, RST20i3, 3 pole, 250V,  
16 A, cable type H05VV, cross section 1,5 mm<sup>2</sup>

Art. 70000363

**Connector**

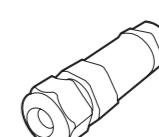
IP66 rated connector offers easy installation of  
the street luminaires.  
3 wire cable connector

Art. 70000313

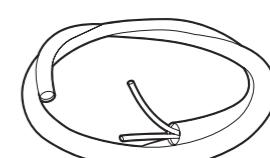
**Connector**

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

Art. 70000304

**Pre-installed cable sets**

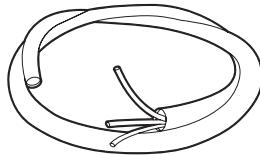
For internal power supply: 2 x 1,5mm - 0,5m long cable.....	Art. 70000418
2 x 1,5mm - 5m long cable.....	Art. 70000342
2 x 1,5mm - 6m long cable.....	Art. 70000337
2 x 1,5mm - 8m long cable.....	Art. 70000344
2 x 1,5mm - 10m long cable.....	Art. 70000338
2 x 1,5mm - 12m long cable.....	Art. 70000345
2 x 1,5mm - 18m long cable.....	Art. 70000419



## **Pre-installed cable sets**

For internal power supply:

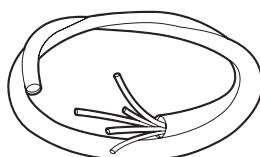
3 x 1,5 mm - 0,5 m long cable.....	Art. 70000319
3 x 1,5 mm - 5 m long cable.....	Art. 70000320
3 x 1,5 mm - 6 m long cable.....	Art. 70000321
3 x 1,5 mm - 8 m long cable.....	Art. 70000322
3 x 1,5 mm - 10 m long cable.....	Art. 70000323
3 x 1,5 mm - 12 m long cable.....	Art. 70000324
3 x 1,5 mm - 18 m long cable.....	Art. 70000325
3 x 1,5 mm - 20 m long cable.....	Art. 70000425
3 x 1,5 mm - 22 m long cable.....	Art. 70000426
3 x 1,5 mm - 25 m long cable.....	Art. 70000427
3 x 1,5 mm - 32 m long cable.....	Art. 70000430
3 x 1,5 mm - 42 m long cable.....	Art. 70000431
3 x 1,5 mm - 50 m long cable.....	Art. 70000432



## **Pre-installed cable sets**

For internal power supply:

5 x 1,5 mm - 0,5 m long cable.....	Art. 70000305
5 x 1,5 mm - 5 m long cable.....	Art. 70000316
5 x 1,5 mm - 6 m long cable.....	Art. 70000317
5 x 1,5 mm - 8 m long cable.....	Art. 70000318
5 x 1,5 mm - 10 m long cable.....	Art. 70000306
5 x 1,5 mm - 12 m long cable.....	Art. 70000307
5 x 1,5 mm - 18 m long cable.....	Art. 70000308
5 x 1,5 mm - 20 m long cable.....	Art. 70000428
5 x 1,5 mm - 22 m long cable.....	Art. 70000429
5 x 1,5 mm - 25 m long cable.....	Art. 70000429
5 x 1,5 mm - 32 m long cable.....	Art. 70000433
5 x 1,5 mm - 42 m long cable.....	Art. 70000434
5 x 1,5 mm - 50 m long cable.....	Art. 70000435



# Notes

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