

The background of the entire page is a dark gray surface covered with a dense, abstract pattern of white, thin, intersecting lines forming a complex network of small triangles and polygons, resembling a wireframe or a crystal lattice.

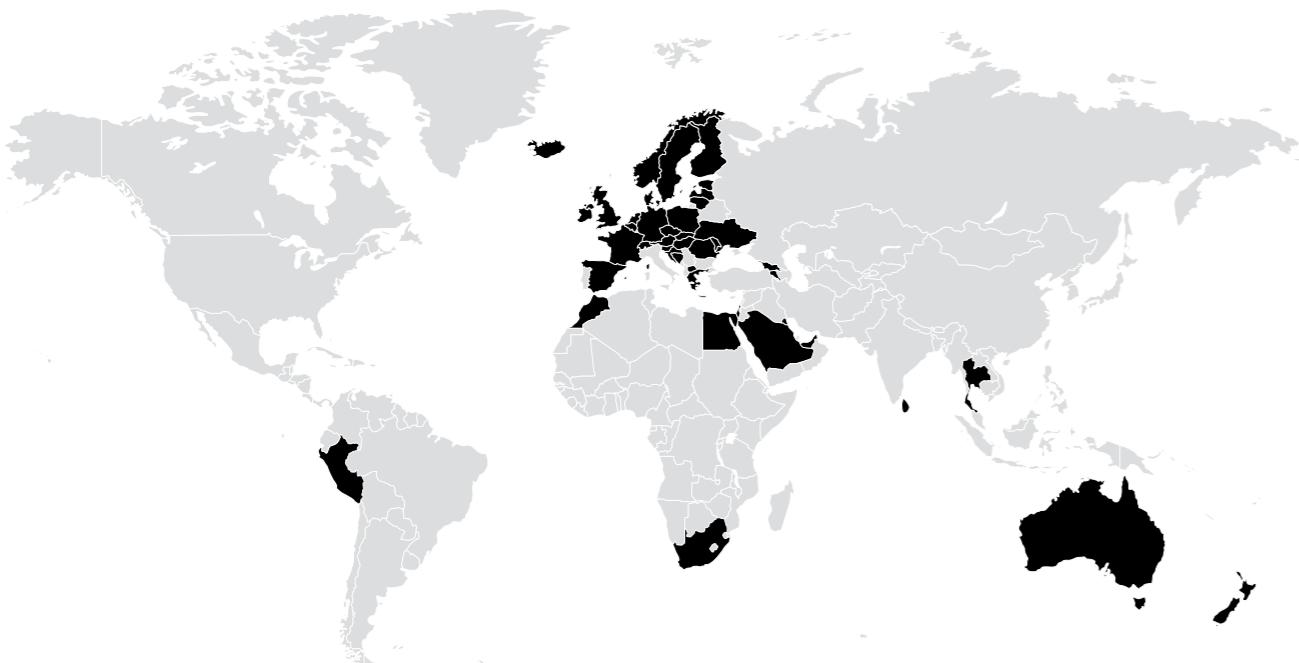
vizULO

Exterior
2020

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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.

Certificates



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 m² 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

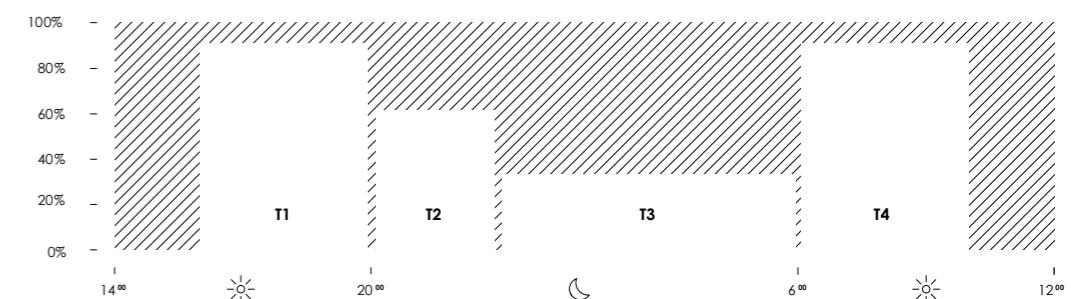
Analog signal interface with no feedback from driver. The maximum level is still 100%, but the minimum level for DC0-10V is 5.7% in case the dimming signal is given at 0.57V. In case the dimmer is giving lower than 0.57V, the LED driver will cut off the output current resulting in no light output in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

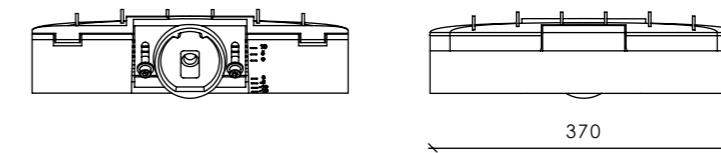
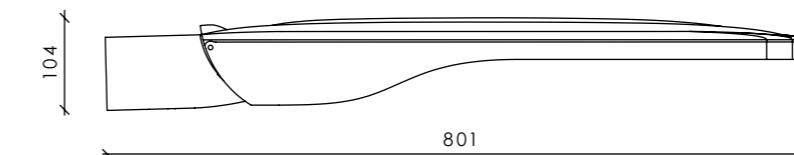
1 - 10 V

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.

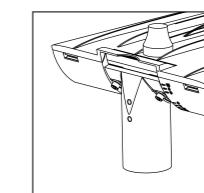
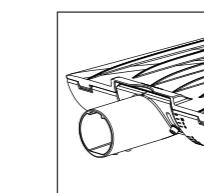
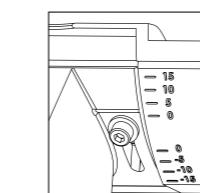
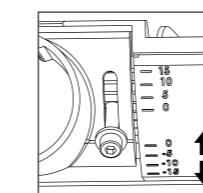
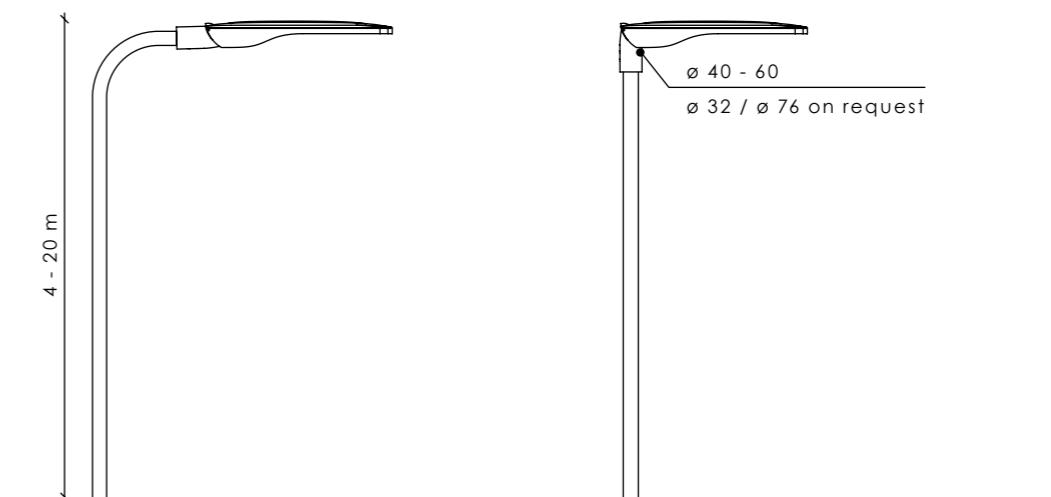
Midnight dimming

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.





Other colors
available on request



Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Radio frequency / Power line ⁽⁴⁾
W	18 - 280	3; 6; 10 kV (optional) ⁽⁵⁾
Im	2300 - 34660	Warranty 5 years
Im/W	124 - 142	100 000h (L80B10C10) ⁽⁶⁾
K	3000 / 4000 ⁽¹⁾	100 000 h (L95B10C10) ⁽⁷⁾
°C	-40 to +50 ⁽²⁾	
CRI	>70 / >80 ⁽³⁾	

Body:	Die-cast aluminum
Spigot:	ø 40-60, with accessories ø 32; ø 76
Neto weight:	12 - 13,40 kg
Max.wind load area, SCd, m2:	0,047

⁽¹⁾ 5000; 5700 K available on request

⁽²⁾ 240 - 280 W at Ta = -40°C... +35°C

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

⁽⁴⁾ Optional. Available only with DALI ; 1 - 10 V

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

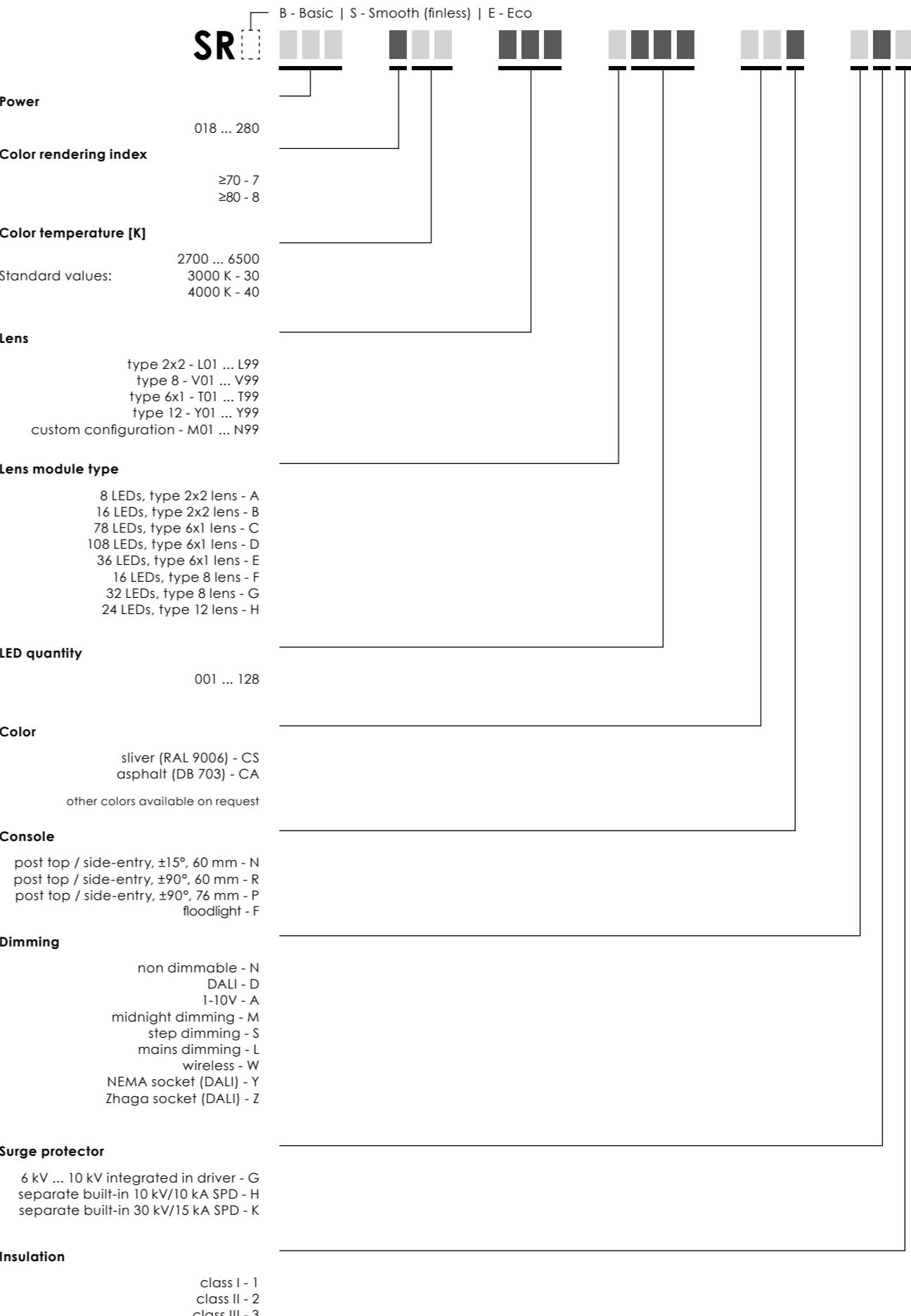
⁽⁶⁾ Average lifetime value for ECO model at Ta = 25°C is 100 000h L80/B10*

*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 000h 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.

⁽⁷⁾ Standard / High Power / High Density at Ta=25°C, this value is only informative and may change according to selected article

⁽⁸⁾ Coming soon

Model name principles



EXAMPLE SR 250 730 V01 G128 CSN DG1

4000K

	16			32			48			64		
Number of LED's	350	500	720	350	520	700	350	520	700	350	500	710
Nominal current, mA	350	500	720	350	520	700	350	520	700	350	500	710
Power, W	18	27	37	37	51	68	53	76	102	69	97	137
Luminous Flux, lm	2300	3430	4570	5025	6780	8710	7380	10200	13170	9700	13200	17800
Efficacy, lm/W	128	127	124	136	133	128	139	134	129	141	136	130
Power factor, PF	0,90	0,95	0,97	0,95	0,97	0,97	0,96	0,98	0,96	0,93	0,96	0,98

Luminaire efficacy

3000 K	18 - 137 W	2100 - 17200 lm	120 - 136 lm/W
4000 K	18 - 137 W	2300 - 17800 lm	124 - 141 lm/W
5000 K	18 - 137 W	2220 - 17800 lm	124 - 141 lm/W

High density modules

4000K

	32			64			80		
Number of LED's	350	520	700	350	500	710	350	520	700
Nominal current, mA	350	520	700	350	500	710	350	520	700
Power, W	37	51	68	69	97	137	83	123	168
Luminous Flux, lm	5025	6780	8710	9700	13200	17800	11800	16830	21880
Efficacy, lm/W	136	133	128	141	136	130	142	137	130
Power factor, PF	0,95	0,97	0,97	0,93	0,96	0,98	0,95	0,97	0,98

Luminaire efficacy

3000 K	84 - 200 W	11560 - 25500 lm	124 - 138 lm/W
4000 K	84 - 200 W	11900 - 26180 lm	128 - 142 lm/W
5000 K	84 - 200 W	11900 - 26180 lm	128 - 142 lm/W

Luminaire efficacy

3000 K	84 - 200 W	11560 - 25500 lm	124 - 138 lm/W
4000 K	84 - 200 W	11900 - 26180 lm	128 - 142 lm/W
5000 K	84 - 200 W	11900 - 26180 lm	128 - 142 lm/W

High power modules

Only with optic 01 / 02 / 03

* Preliminary data

4000K

	78			84			108		
Number of LED's	350	520	700	350	500	700	450	520	620
Nominal current, mA	350	520	700	350	500	700	450	520	620
Power, W	84	120	160	90	128	180	146	170	200
Luminous Flux, lm	11900	16400	20840	12790	17550	23000	19890	22820	26180
Efficacy, lm/W	142	137	130	142	137	128	136	134	131
Power factor, PF	0,95	0,97	0,98	0,96	0,97	0,97	0,94	0,98	0,96

Luminaire efficacy

3000 K	18 - 137 W	2100 - 17200 lm	120 - 136 lm/W
4000 K	18 - 137 W	2300 - 17800 lm	124 - 141 lm/W
5000 K	18 - 137 W	2220 - 17800 lm	124 - 141 lm/W

ECO

4000K

	16			32			48		
Number of LED's	350	500	700	350	500	700	350	500	700
Nominal current, mA	350	500	700	350	500	700	350	500	700
Power, W	37	52	75	71	101	147	103	149	168
Luminous Flux, lm	5161	6873	9064	10400	13650	17900	15200	20200	21689
Efficacy, lm/W	139	132	121	146	135	122	148	136	129
Power factor, PF	0,85	0,9	0,91	0,94	0,97	0,98	0,97	0,98	0,99

Luminaire efficacy

3000 K	18 - 137 W	2100 - 17200 lm	120 - 136 lm/W
4000 K	18 - 137 W	2300 - 17800 lm	124 - 141 lm/W
5000 K	18 - 137 W	2220 - 17800 lm	124 - 141 lm/W

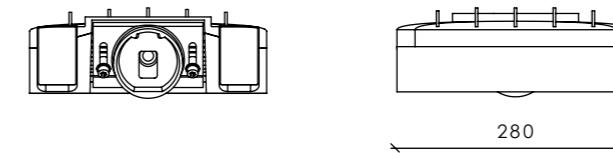
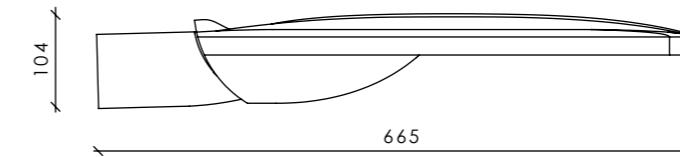


Carnikava | Latvia

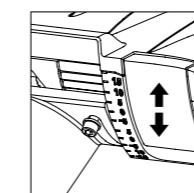
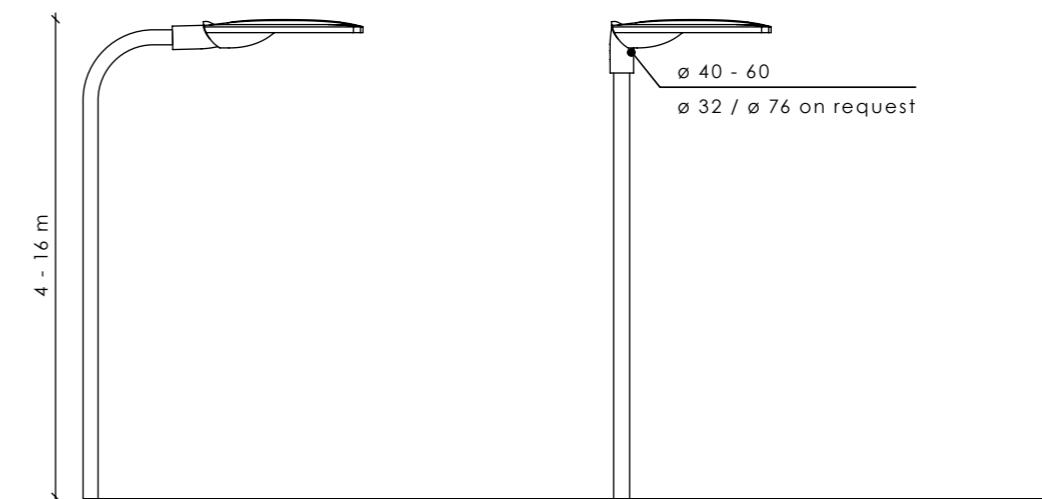


Budapest | Hungary

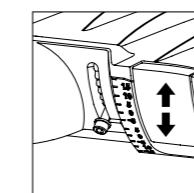
Stork little brother



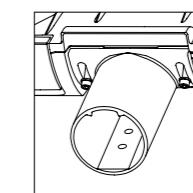
Other colors
available on request



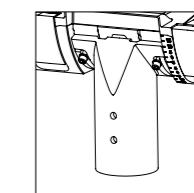
≤ -5 ... 20



≤ -20 ... 5



Horizontal entry



Vertical entry

V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Radio frequency / Power line ⁽³⁾
W	18 - 178	3; 6; 10 kW (optional) ⁽⁴⁾
	18 - 200 ⁽⁷⁾	Warranty 5 years
Im	2300 - 23450	100 000h (L80B10C10) ⁽⁵⁾
Im/W	124 - 142	100 000 h (L95B10C10) ⁽⁶⁾
K	3000 / 4000 ⁽¹⁾	
°C	-40 to +50	
CRI	>70 / >80 ⁽²⁾	
		Body: Die-cast aluminum
		Spigot: ø 40-60, with accessories ø 32; ø 76
		Neto weight: 5,96 - 7,03 kg
		Max.wind load area, SCd, m2: 0,04

¹ 5000; 5700 K available on request.

¹² Luminaries with color rendering index (CRI): Ra >90 on request

³ Optional. Available only with PAH : 1 - 10 V.

¹⁴ 10 kV (I-N; I/N-PE) surge protection device available on request.

⁵ Average lifetime value for ECO model at T_g = 25°C is 100,000 h L80/B10*

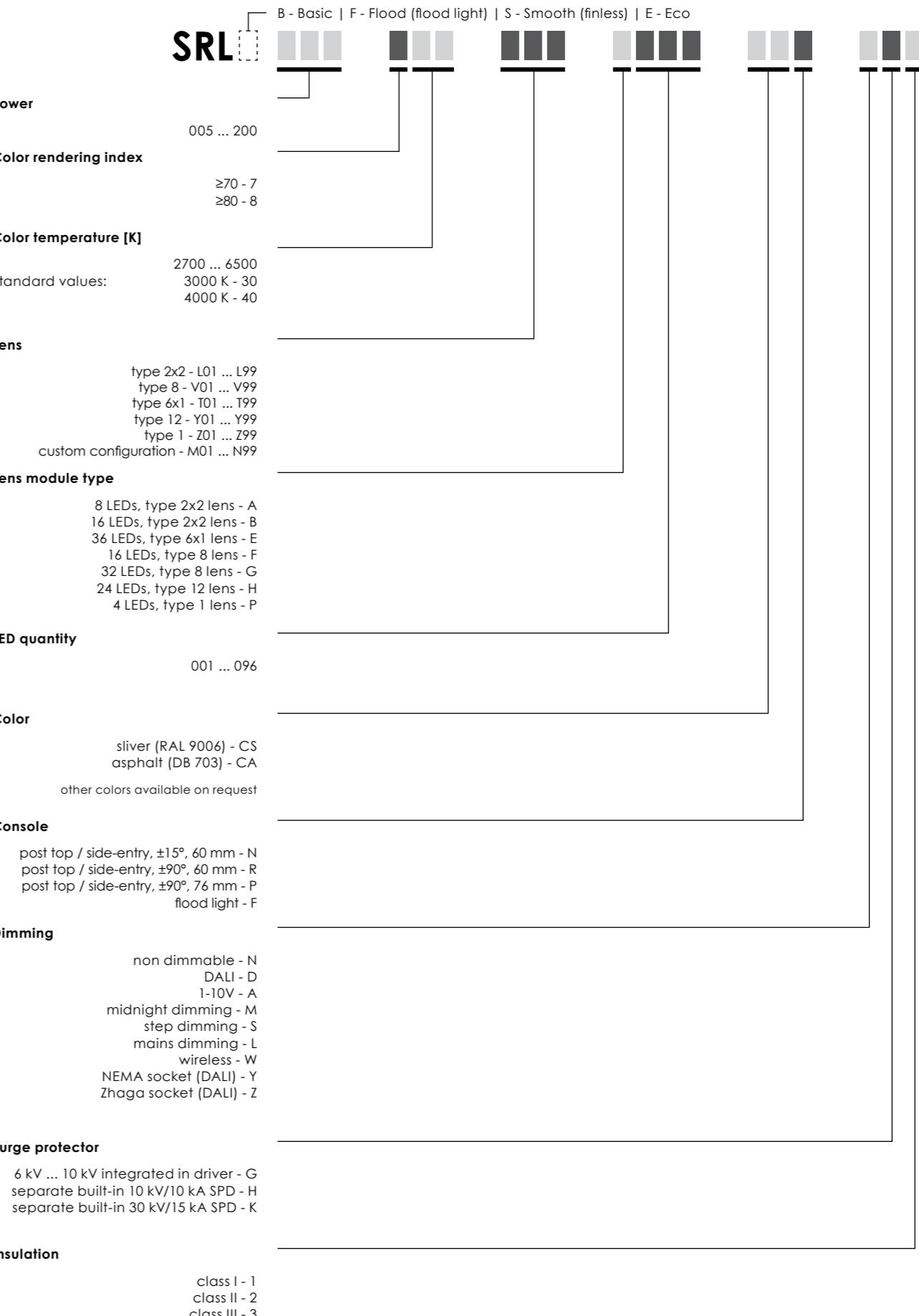
*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models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

¹⁶ Standard / High Power / High Density at Tg=25°C, this value is only informative and may change according to selected article.

17 Configuration not in production

Configuration

Model name principles



Standard
modules

ECO

4000K

	16			32			48			64		
Number of LED's	350	500	700	350	500	700	350	500	700	350	500	700
Nominal current, mA	350	500	700	350	500	700	350	500	700	350	500	700
Power, W	18	27	37	37	48	68	53	76	102	69	97	137
Luminous Flux, lm	2110	3139	4151	4535	5814	7911	6707	9284	11942	8841	11775	16355
Efficacy, lm/W	117	116	112	122	121	116	126	122	118	128	121	119
Power factor, PF	0,91	0,95	0,97	0,95	0,97	0,97	0,96	0,98	0,96	0,94	0,96	0,98

Luminaire efficacy	3000 K	18 - 137 W	2110 - 16355 lm	117 - 119 lm/W
	4000 K	18 - 137 W	2183 - 16919 lm	121 - 123 lm/W
	5000 K	18 - 137 W	2256 - 17483 lm	125 - 128 lm/W

4000K

	16			32			48		
Number of LED's	350	500	700	350	500	700	350	500	700
Nominal current, mA	350	500	700	350	500	700	350	500	700
Power, W	37	52	75	71	101	147	102	149	178
Luminous Flux, lm	5200	6850	9000	10400	13650	17900	14980	20210	22500
Efficacy, lm/W	141	132	120	146	135	122	147	135	126
Power factor, PF	0,85	0,9	0,91	0,94	0,97	0,98	0,97	0,98	0,98

High density
modules

Only with optic 01 / 04 / 05 / 10 / 20 / 22 / 35

4000K

	32			64			80		
Number of LED's	350	500	700	350	500	700	350	500	750
Nominal current, mA	350	500	700	350	500	700	350	500	750
Power, W	37	48	68	69	97	137	89	123	178
Luminous Flux, lm	4867	6184	8691	9513	12799	17297	12002	16003	22300
Efficacy, lm/W	132	129	128	138	132	126	135	130	125
Power factor, PF	0,95	0,97	0,97	0,94	0,096	0,98	0,95	0,97	0,98

Luminaire efficacy	3000 K	37 - 178 W	4725 - 21580 lm	120 - 128 lm/W
	4000 K	37 - 178 W	4888 - 22300 lm	124 - 132 lm/W
	5000 K	37 - 178 W	5051 - 23000 lm	129 - 137 lm/W



Gothenburg | Sweden

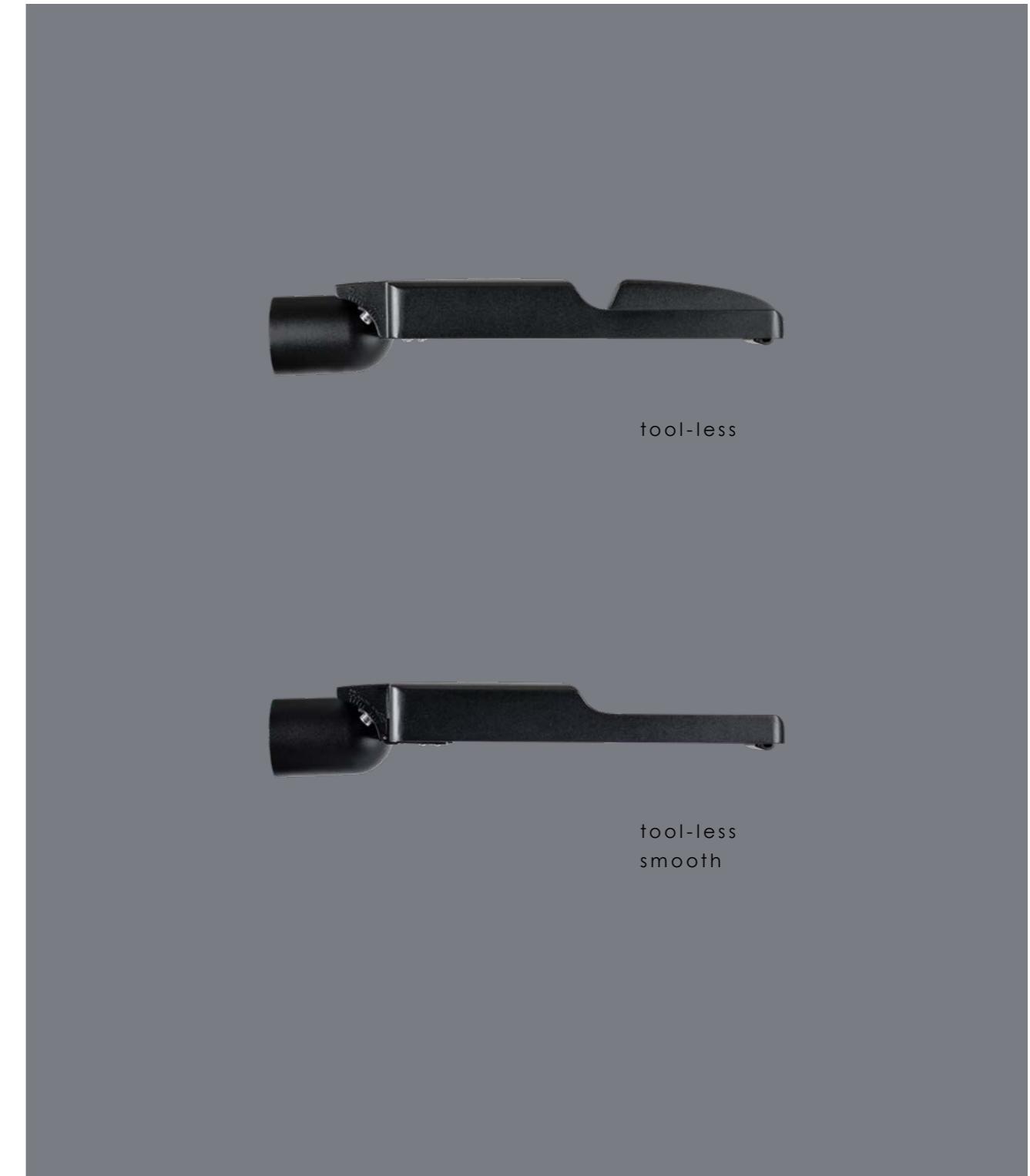
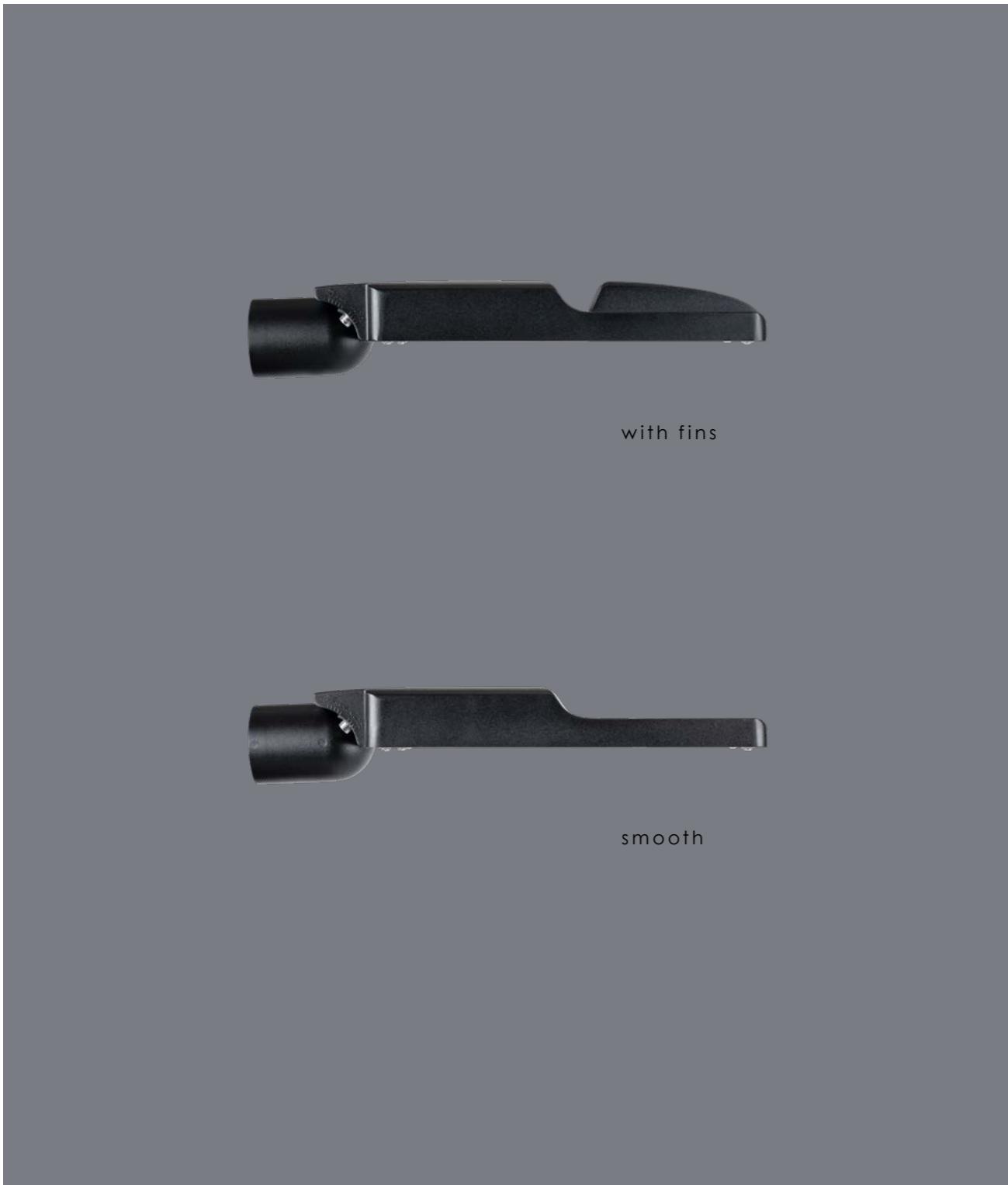


Gothenburg | Sweden

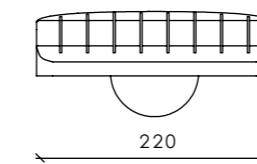
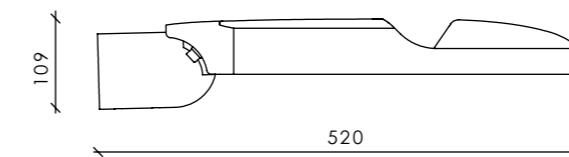


Hafnarfjordur | Iceland

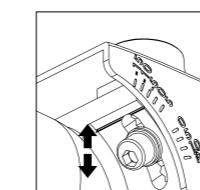
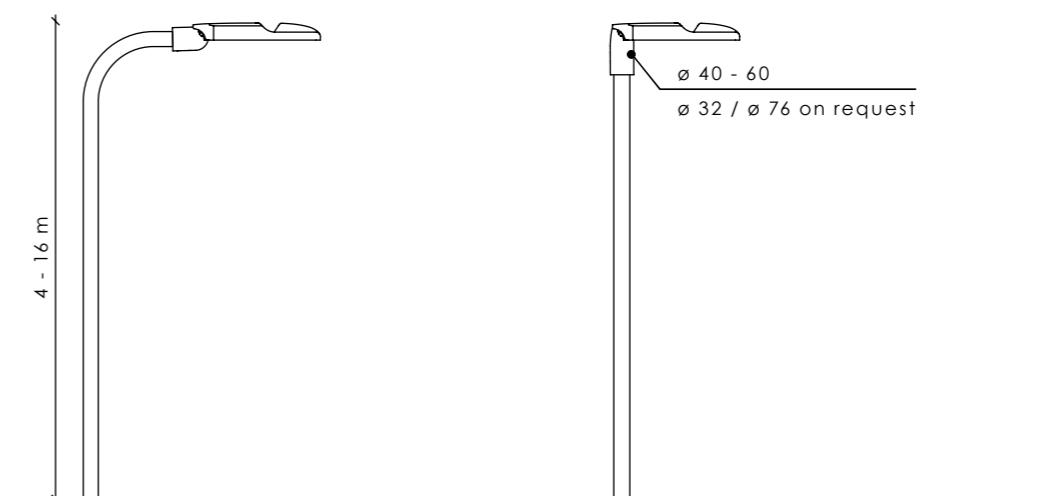
Mini martin



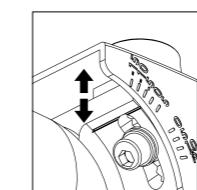
Mini martin with fins



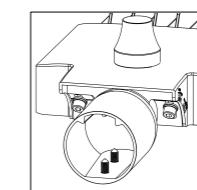
Other colors
available on request



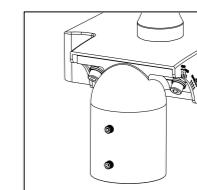
≤ 5 ... -20



≤ 0 ... 20



Horizontal entry



Vertical entry

Technical information



V 220 - 240

Hz 50 - 60

W 10 - 110

Im 1100 - 13550

Im/W 110 - 136

K 3000 / 4000⁽¹⁾

°C -40 to +50

CRI >70 / >80⁽²⁾

1-10V; DALI; Midnight dimming

Radio frequency⁽⁴⁾

3; 6; 10 kV (optional)⁽⁵⁾

Warranty 5 years

100 000h (L80B10C10)⁽⁶⁾

100 000 h (L95B10C10)⁽⁷⁾

Body: Die-cast aluminum

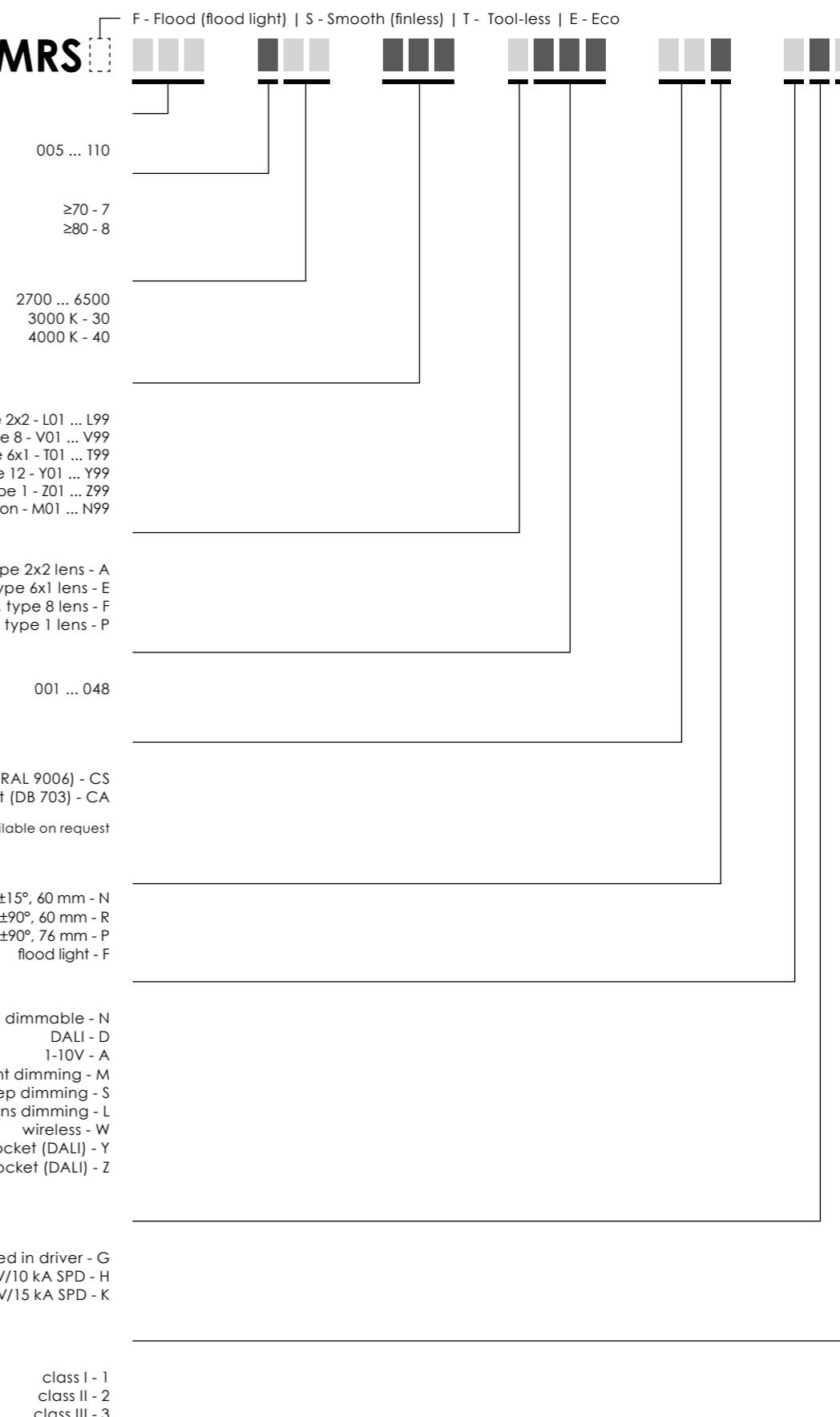
Spigot: ø 40-60, with accessories ø 32; ø 76

Neto weight: 5,5 - 6,5 kg

Max.wind load

area, SCd, m²: 0,038

Model name principles



⁽¹⁾ 5000; 5700 K available on request

⁽²⁾ Luminaries with color rendering index (CRI): Ra >90 on request

⁽³⁾ Optional. Available only with DALI ; 1 - 10 V

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

⁽⁵⁾ IK09 - screw version with tempered unprinted glass

⁽⁶⁾ Average lifetime value for ECO model at Ta = 25°C is 100 000h L80/B10*

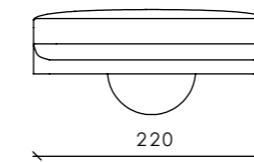
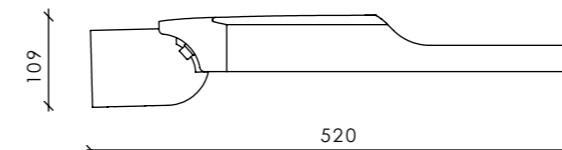
*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models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

⁽⁷⁾ Standard / High Density at Ta=25°C, this value is only informative and may change according to selected article

⁽⁸⁾ Coming soon

EXAMPLE MRS 050 740 L01 A024 CSN DG1

Mini martin smooth



Other colors
available on request

Technical information



V	220 - 240
Hz	50 - 60
W	10 - 75
lm	891 - 9800
lm/W	89 - 136
K	3000 / 4000 / 5000
°C	-40 to +50
CRI	>70 / >80 ⁽¹⁾

1-10V; DALI; Midnight dimming
Chromaticity tolerance (initial MacAdam): 5
Radio frequency
Warranty 5 years
100 000 h (L95B10C10) at Ta = 25 °C
Surge protection: 6kV (L-N) and 10 kV (L/N -PE without DALI connection) ⁽²⁾
Body: Die-cast aluminum

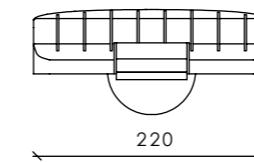
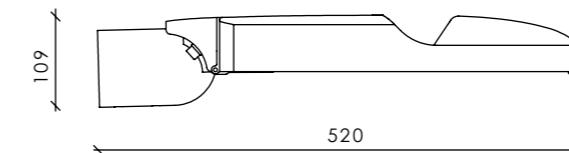
(1) Luminaries with color rendering index (CRI): Ra >90 on request

(2) 10 kV (L-N; L/N-PE) surge protection device available on request

(3) IK09 - screw version with tempered unprinted glass

Standard configuration 35 cm cable, for easy installation, please see accessories- cable connector.
(This accessories are not included in standard price)

Mini martin tool-less



Other colors
available on request

Technical information



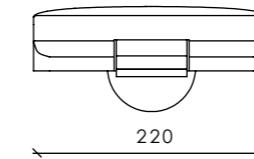
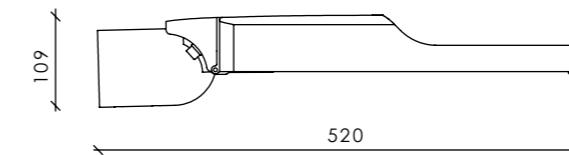
V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	10 - 110	Radio frequency
lm	1100 - 13550	Warranty 5 years
lm/W	110 - 136	100 000 h (L95B10C10) at Ta = 25 °C
K	3000 / 4000 / 5000	
°C	-40 to +50	
CRI	>70 / >80 ⁽¹⁾	Surge protection: 6kV (L-N) and 10 kV (L/N -PE without DALI connection) ⁽²⁾
		Body: Die-cast aluminum

(1) Luminaries with color rendering index (CRI): Ra >90 on request

(2) 10 kV (L-N; L/N-PE) surge protection device available on request

Standard configuration 35 cm cable. for easy installation, please see accessories- cable connector.
(This accessories are not included in standard price)

Mini martin tool-less smooth



Other colors
available on request

Technical information



V	220 - 240
Hz	50 - 60
W	10 - 75
lm	891 - 9800
lm/W	89 - 136
K	3000 / 4000 / 5000
°C	-40 to +50
CRI	>70 / >80 ⁽¹⁾

1-10V; DALI; Midnight dimming
Chromaticity tolerance (initial MacAdam): 5
Radio frequency
Warranty 5 years
100 000 h (L95B10C10) at Ta = 25 °C
Surge protection: 6kV (L-N) and 10 kV (L/N -PE without DALI connection) ⁽²⁾
Body: Die-cast aluminum

(1) Luminaires with color rendering index (CRI): Ra >90 on request

(2) 10 kV (L-N; L/N-PE) surge protection device available on request

Standard configuration 35 cm cable. for easy installation, please see accessories- cable connector.
(This accessories are not included in standard price)

4000K

Number of LED's	8			16			24			36*		
Nominal current, mA	350	520	700	350	500	700	350	500	700	350	500	700
Power, W	10	15	19	20	26	35	29	39	52	40	55	78
Luminous Flux, lm	1220	1820	2260	2550	3310	4350	3810	5060	6580	5470	7390	9930
Efficacy, lm/W	122	121	119	128	127	124	131	130	127	137	134	127
Power factor, PF	0,84	0,92	0,96	0,91	0,95	0,97	0,93	0,95	0,97	0,95	0,98	0,98

Luminaire efficacy

3000 K	10 - 78 W	1060 - 9610 lm	102 - 124 lm/W
4000 K	10 - 78 W	1220 - 9930 lm	119 - 137 lm/W
5000 K	10 - 78 W	1220 - 9930 lm	119 - 137 lm/W

4000K

Number of LED's	8			16			24		
Nominal current, mA	350	500	700	350	500	700	350	500	700
Power, W	19	26	38	37	52	75	54	76	110
Luminous Flux, lm	2580	3390	4460	5120	6770	8920	7680	10070	13270
Efficacy, lm/W	136	130	117	138	130	119	142	133	121
Power factor, PF	0,85	0,9	0,91	0,94	0,97	0,98	0,97	0,98	0,99

High density
modules

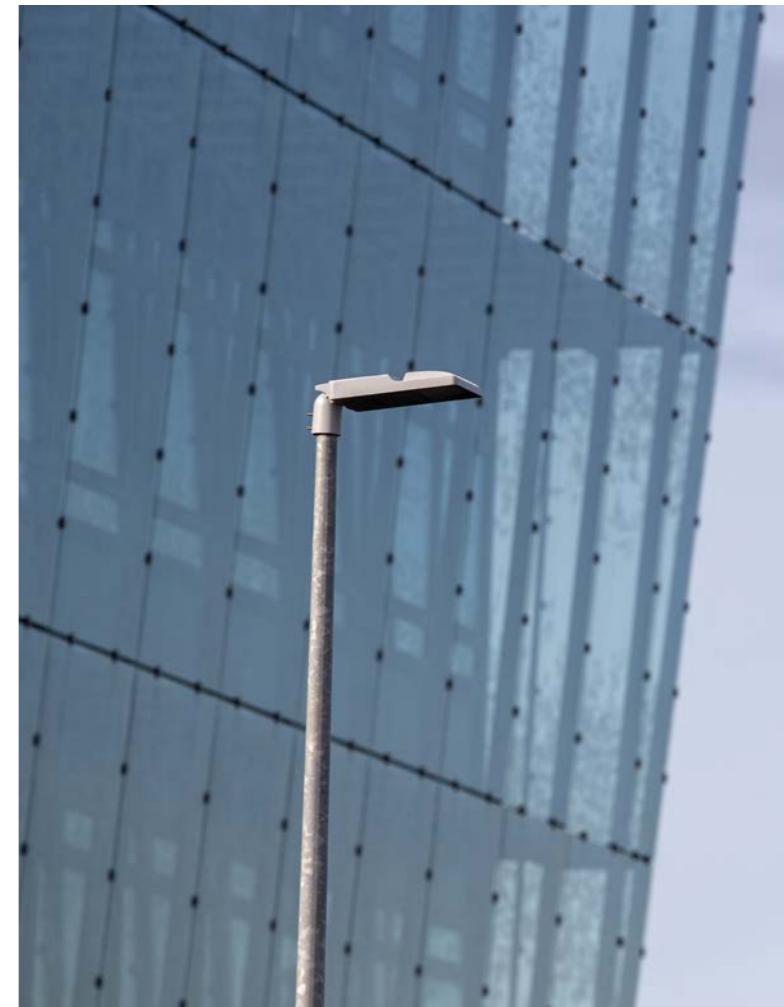
Only with optic 01 / 04 / 05 / 20 / 22 / 35

4000K

Number of LED's	16			32			48		
Nominal current, mA	350	500	700	370	500	700	350	500	700
Power, W	20	26	35	37	50	68	51	72	102
Luminous Flux, lm	2550	3310	4350	5010	6650	8690	7120	9710	13190
Efficacy, lm/W	128	127	124	135	133	128	140	135	129
Power factor, PF	0,91	0,95	0,97	0,95	0,97	0,98	0,95	0,97	0,98

Luminaire efficacy

3000 K	20 - 110 W	2470 - 13620 lm	114 - 131 lm/W
4000 K	20 - 110 W	2550 - 13550 lm	124 - 140 lm/W
5000 K	20 - 110 W	2550 - 14070 lm	134 - 140 lm/W



Icelandic Institute of Natural History | Iceland

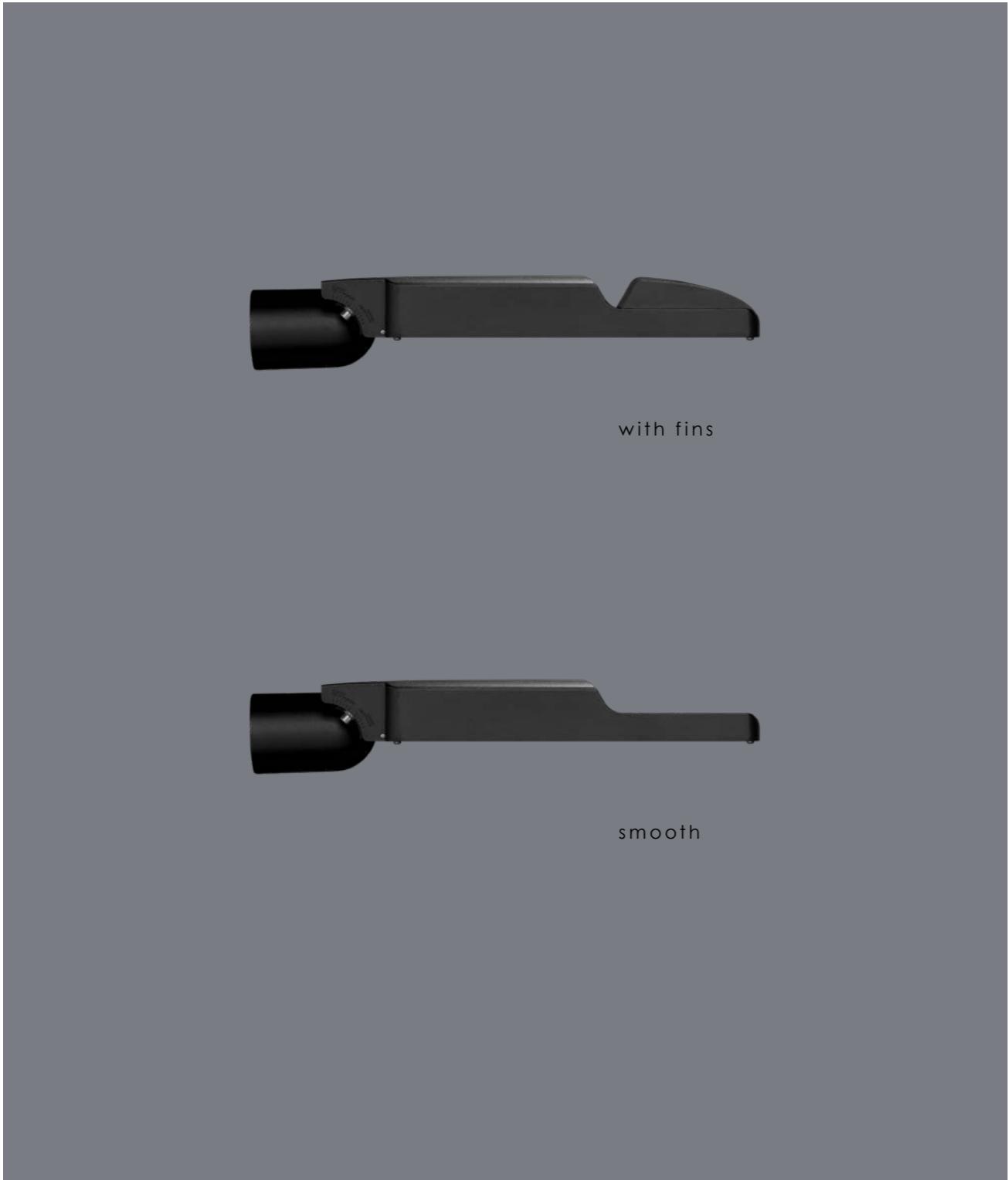


Reykjavik | Iceland



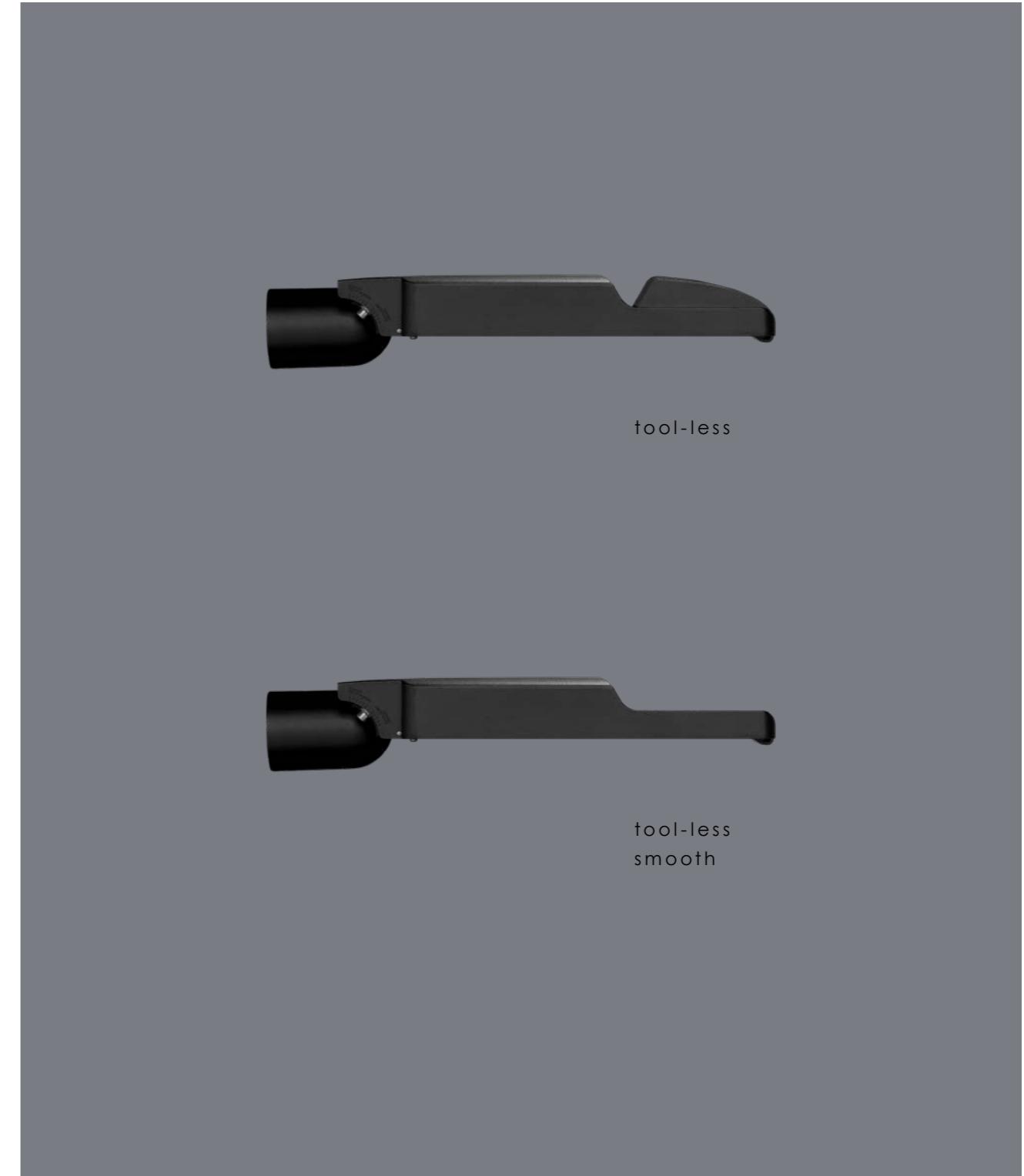
Hestheimar horse farm | Iceland

Micro martin



with fins

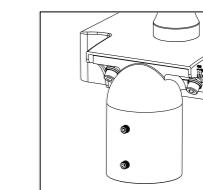
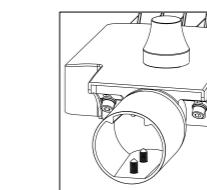
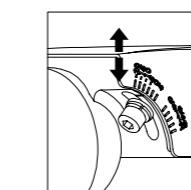
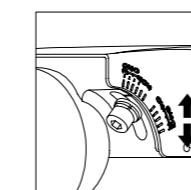
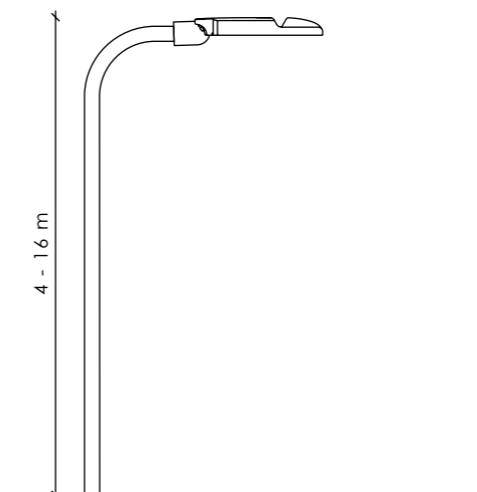
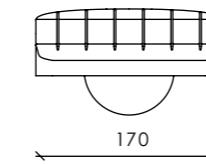
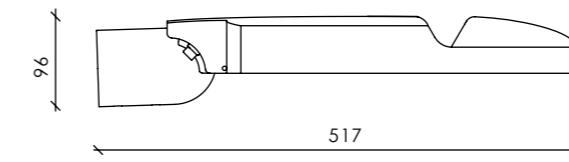
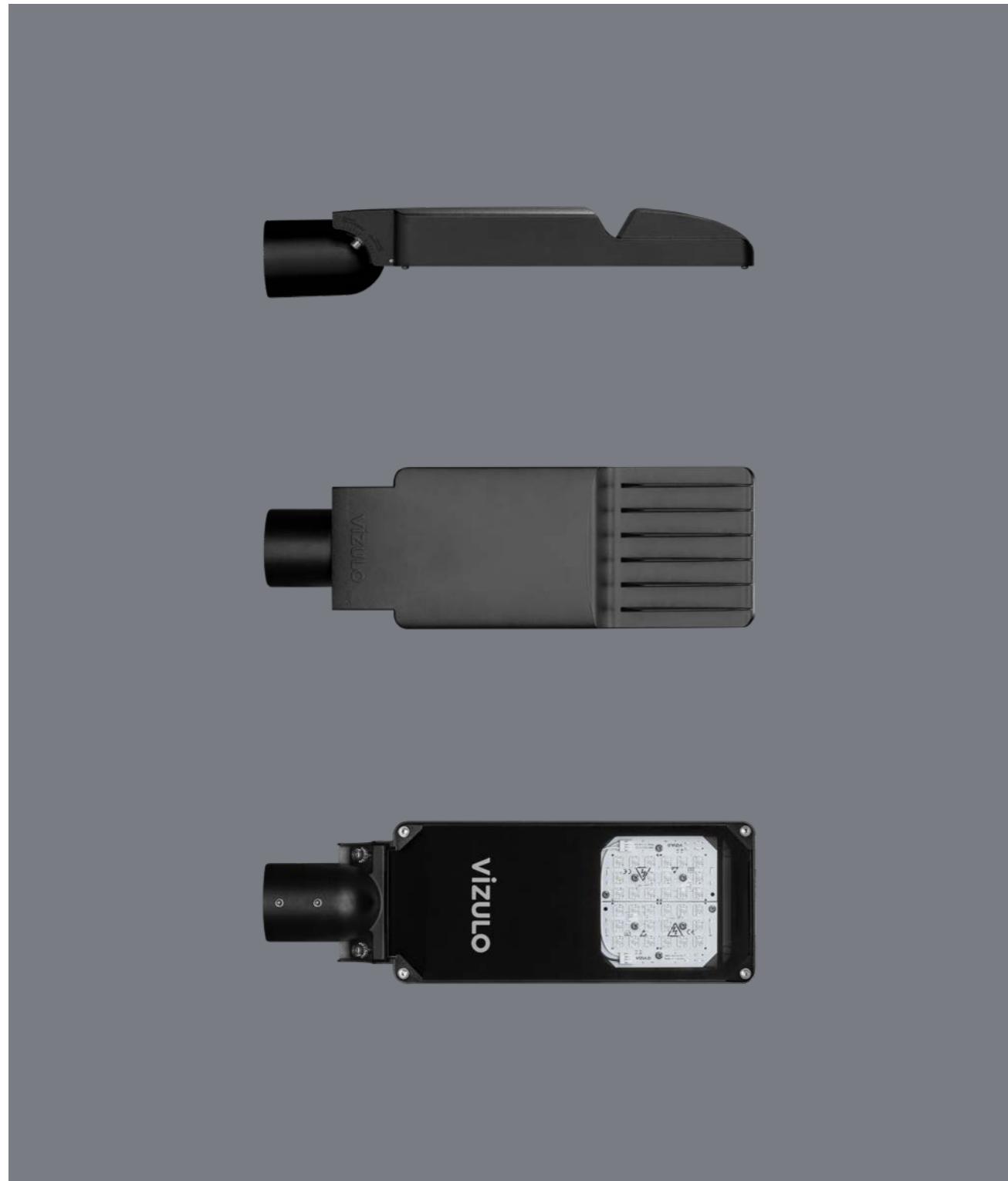
smooth



tool-less

tool-less
smooth

Micro martin with fins



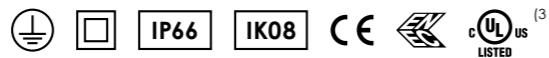
DB703



RAL9006

Other colors
available on request

Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 75	Radio frequency
lm	470 - 8875	Warranty 5 years
lm/W	90 - 132	100 000 h (L95B10) at $T_a = 25^\circ\text{C}$
K	3000 / 4000	100 000h (L80B10C10) ⁽²⁾
°C	-40 to +50	
CRI	>70 / >80 ⁽¹⁾	
		Surge protection: 6 kV / separate built-in 10 kV
		Spigot: Ø 40 - 60 mm
		Body: Die-cast aluminum

⁽¹⁾ Luminaries with color rendering index (CRI): Ra >90 on request

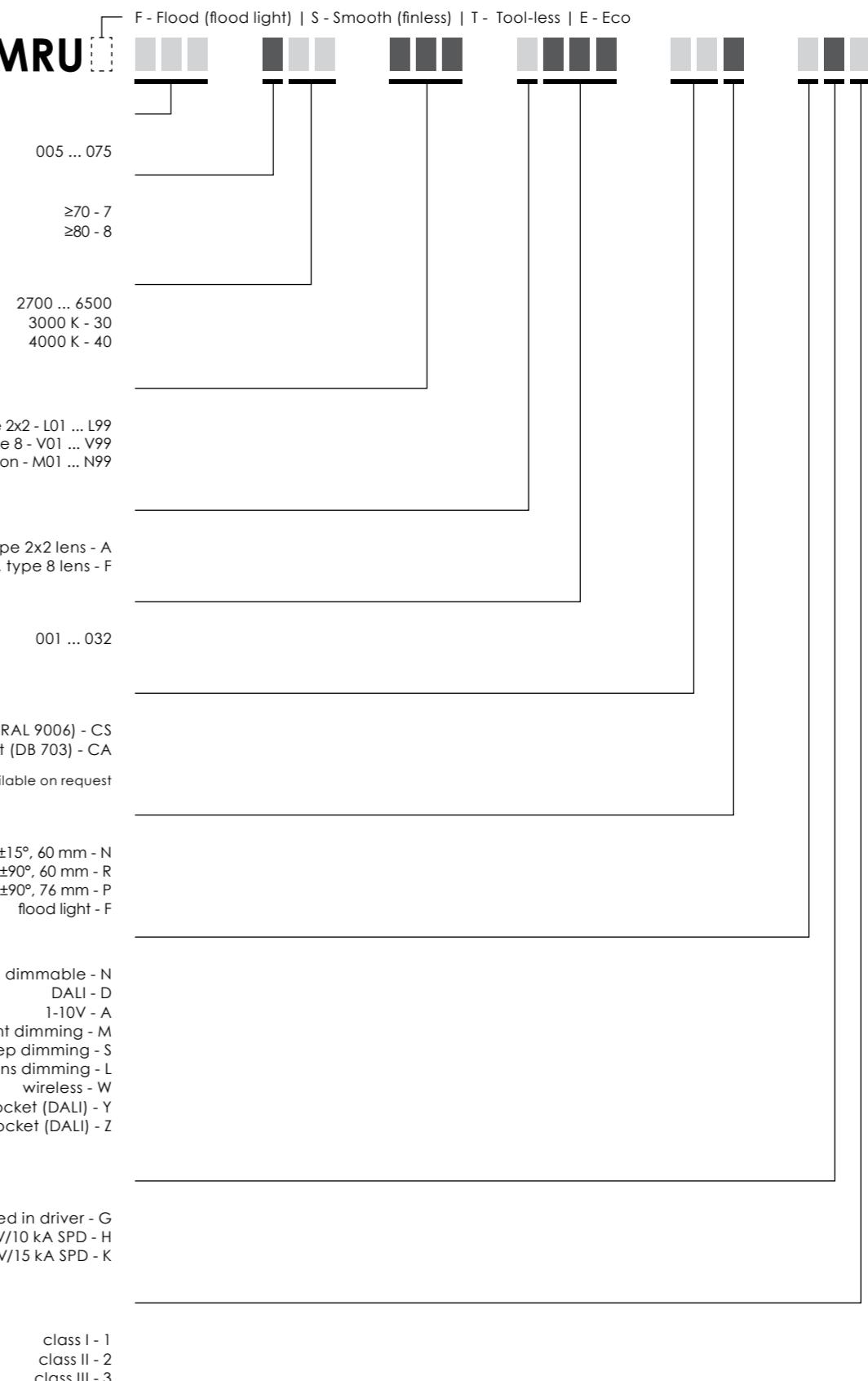
⁽²⁾ Average lifetime value for ECO model at $T_a = 25^\circ\text{C}$ is 100 000h L80/B10*

*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 000h 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.

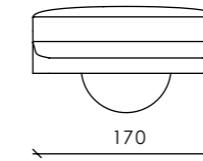
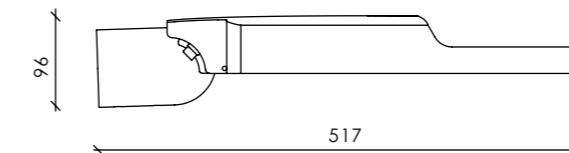
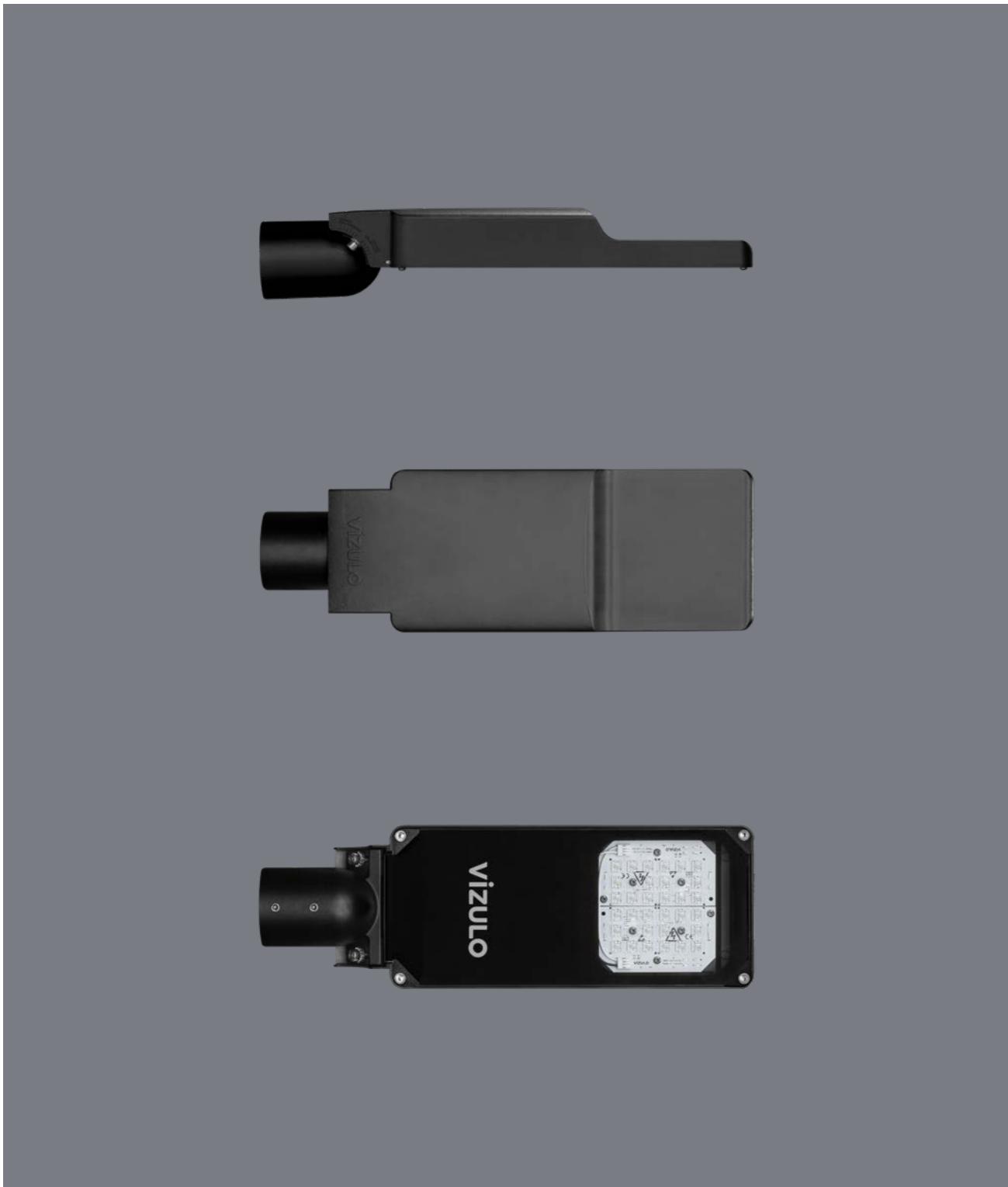
⁽³⁾ Coming soon

Model name principles



EXAMPLE MRUE 045 740 L02 A016 CSN DG1

Micro martin smooth



Other colors available on request

Technical information



V	220 - 240
Hz	50 - 60
W	5 - 50
lm	470 - 6447
lm/W	90 - 132
K	3000 / 4000
°C	-40 to +50
CRI	>70 / >80 ⁽¹⁾

1-10V; DALI; Midnight dimming
Chromaticity tolerance (initial MacAdam): 5
Radio frequency
Warranty 5 years
100 000 h (L95B10) at $T_a = 25^\circ\text{C}$
100 000h (L80B10C10) ⁽²⁾

Surge protection: 6 kV / separate built-in 10 kV
Spigot: ø 40 - 60 mm
Body: Die-cast aluminum

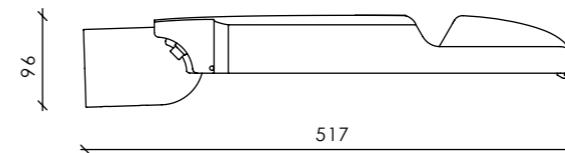
⁽¹⁾ Luminaires with color rendering index (CRI): Ra >90 on request

⁽²⁾ Average lifetime value for ECO model at $T_a = 25^\circ\text{C}$ is 100 000h L80/B10*

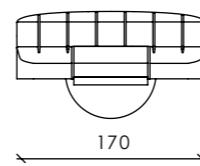
*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models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



Other colors
available on request



Technical information



V	220 - 240
Hz	50 - 60
W	5 - 75
lm	470 - 8875
lm/W	90 - 132
K	3000 / 4000
°C	-40 to +50
CRI	>70 / >80 ⁽¹⁾

1-10V; DALI; Midnight dimming
Chromaticity tolerance (initial MacAdam): 5
Radio frequency
Warranty 5 years
100 000 h (L95B10) at $T_a = 25^\circ\text{C}$
100 000h (L80B10C10) ⁽²⁾

Surge protection: 6 kV / separate built-in 10 kV
Spigot: ø 40 - 60 mm
Body: Die-cast aluminum

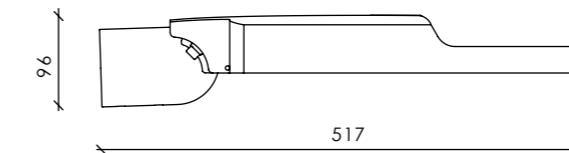
⁽¹⁾ Luminaires with color rendering index (CRI): Ra >90 on request

⁽²⁾ Average lifetime value for ECO model at $T_a = 25^\circ\text{C}$ is 100 000h L80/B10*

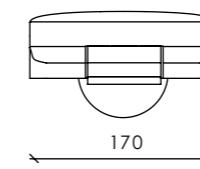
*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models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



V	220 - 240
Hz	50 - 60
W	5 - 50
lm	470 - 6447
lm/W	90 - 132
K	3000 / 4000
°C	-40 to +50
CRI	>70 / >80 ⁽¹⁾

1-10V; DALI; Midnight dimming
Chromaticity tolerance (initial MacAdam): 5
Radio frequency
Warranty 5 years
100 000 h (L95B10) at $T_a = 25^\circ\text{C}$
100 000h (L80B10C10) ⁽²⁾

Surge protection: 6 kV / separate built-in 10 kV
Spigot: ø 40 - 60 mm
Body: Die-cast aluminum

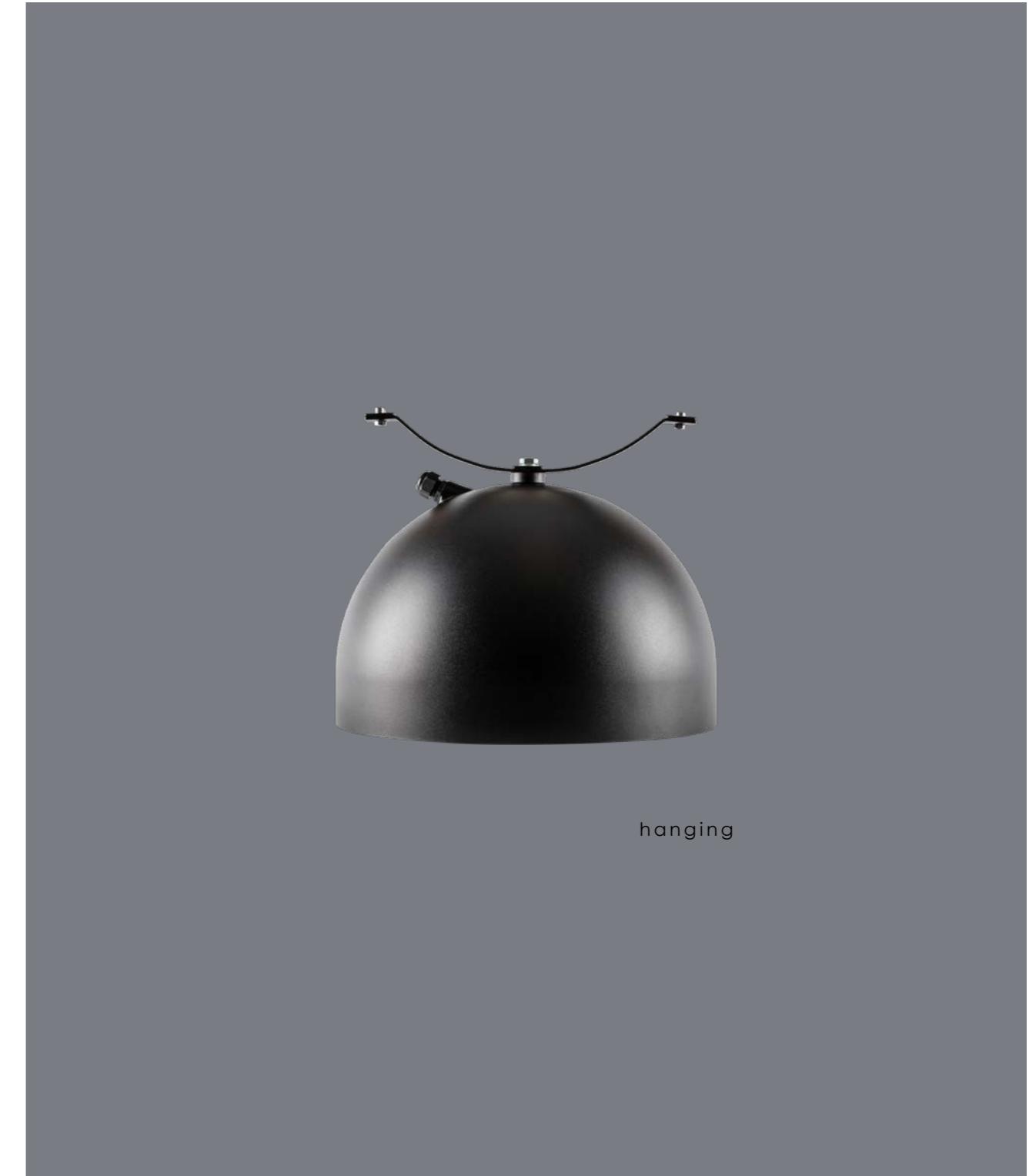
⁽¹⁾ Luminaires with color rendering index (CRI): Ra >90 on request

⁽²⁾ Average lifetime value for ECO model at $T_a = 25^\circ\text{C}$ is 100 000h L80/B10*

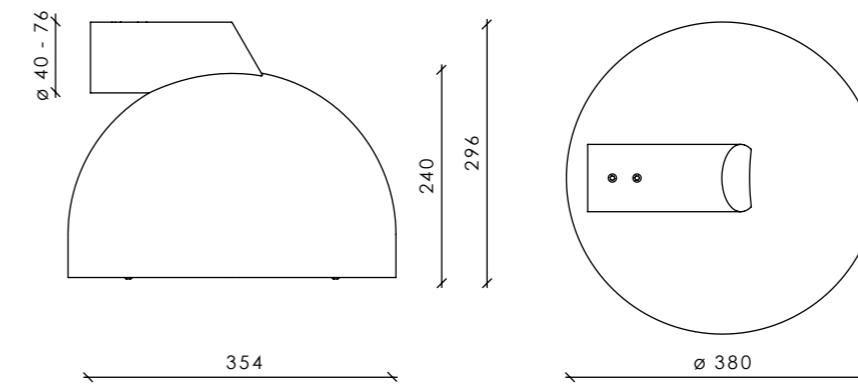
*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models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

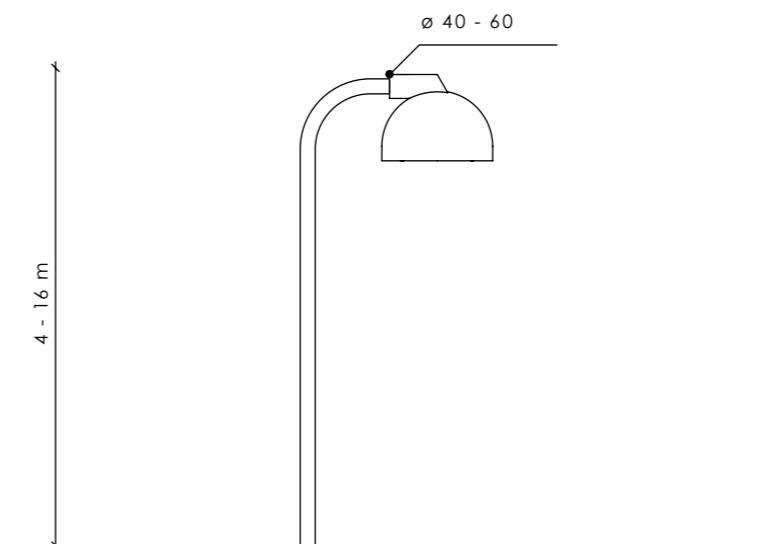
Blackbird



Blackbird side-entry

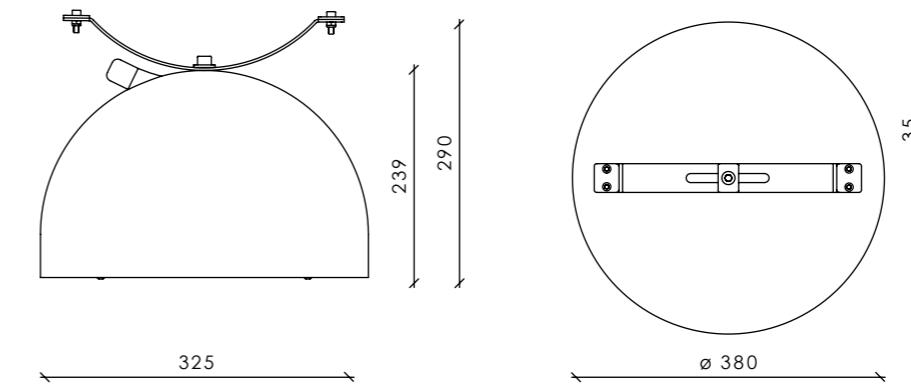


Max.wind load area, SCd, m²: 0,10



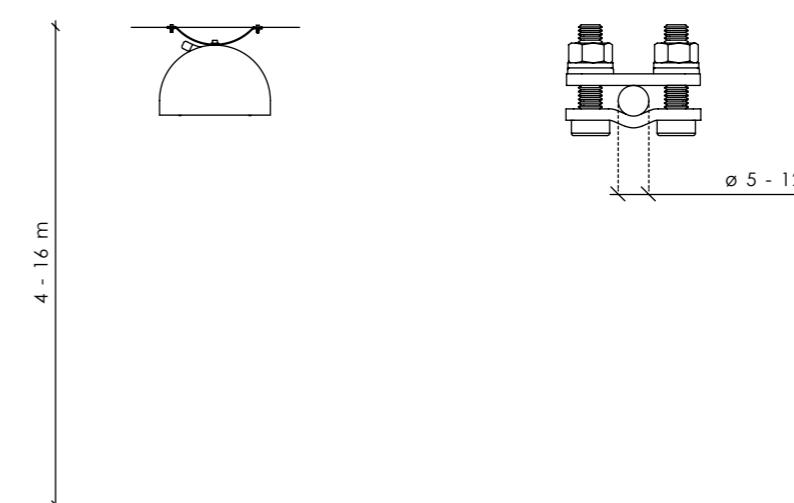
Other colors
available on request

Blackbird hanging

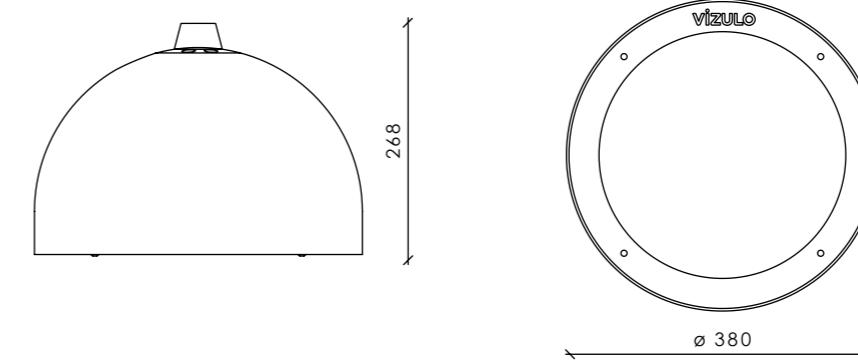


Other colors
available on request

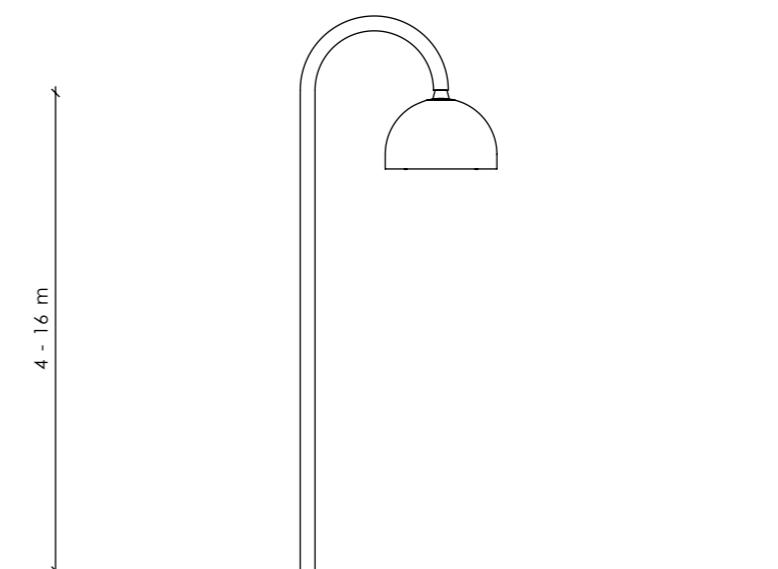
Max.wind load area, SCd, m²: 0,092



Blackbird post top



Max.wind load area, SCd, m²: 0,092



Other colors
available on request

Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	8 - 100	Warranty 5 years
Im	860 - 13300	100 000 h (L95B10) at $T_a = 25^\circ\text{C}$ ⁵
Im/W	107 - 135	100 000 h (L80B10) at $T_a = 25^\circ\text{C}$ ⁵ (ECO)
K	3000	
	4000 ¹	
°C	-40 to +50	
CRI	>70 / >80 ²	
		Surge protection: 6 kV, 10 kV (optional) ⁴
		Spigot: Ø 40 - 60 mm
		Body: Die-cast aluminum
		Intelligent light control system: RF (radio frequency) / Power line ³

¹ 2700; 5000; 5700 K available on request

² Luminaires with color rendering index (CRI): Ra >90 on request

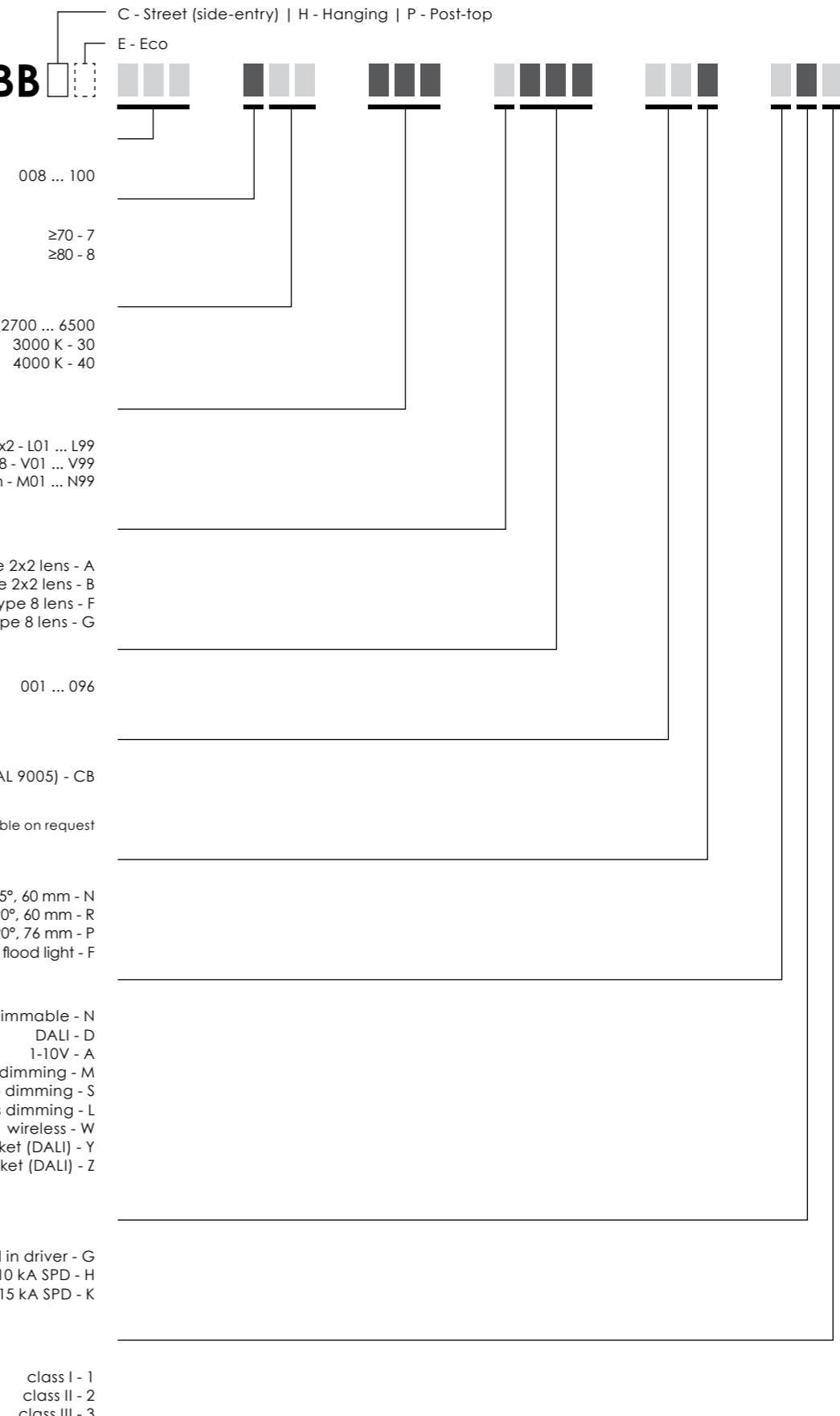
³ Optional. Available only with DALI ; 1 - 10 V

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

⁵ at $T_a=25^\circ$, this value is only informative and may change according to selected article

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

Model name principles



Luscinia



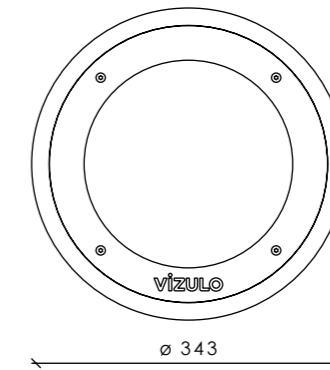
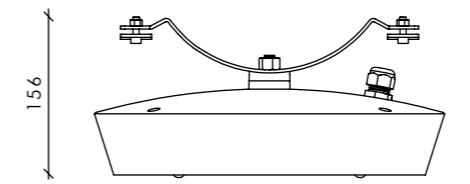
side-entry

hanging

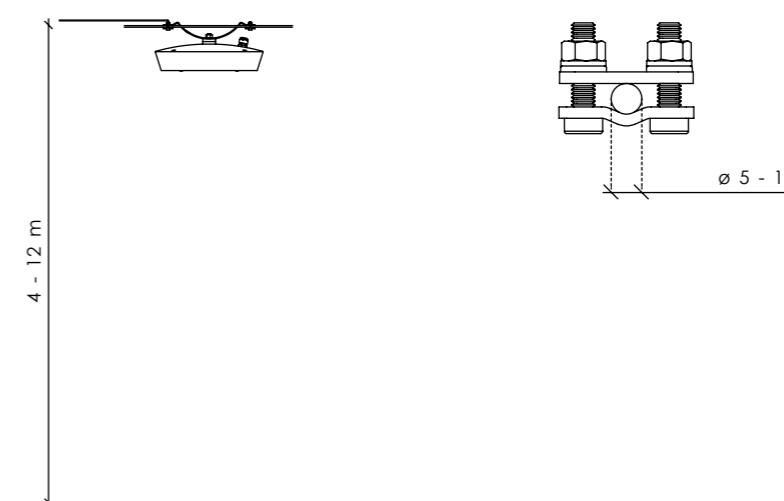


post top

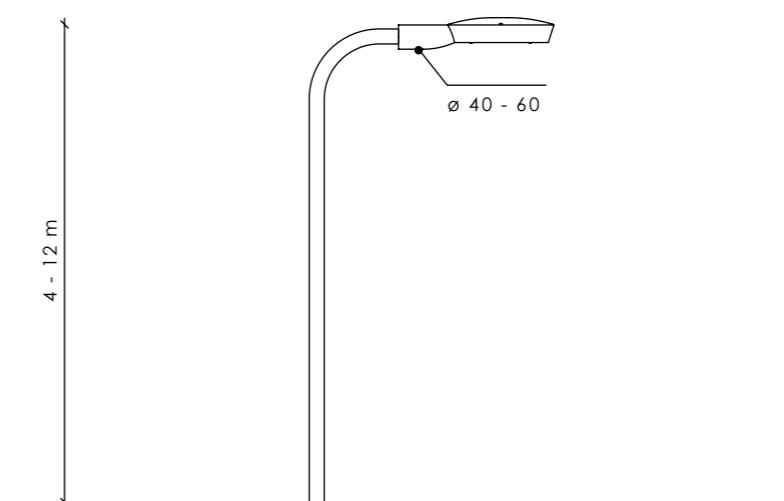
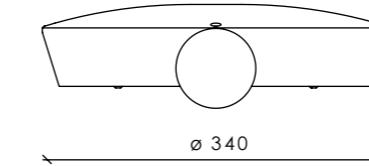
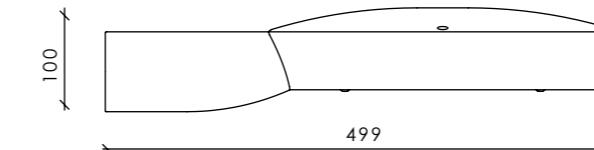
Luscinia hanging



Other colors
available on request

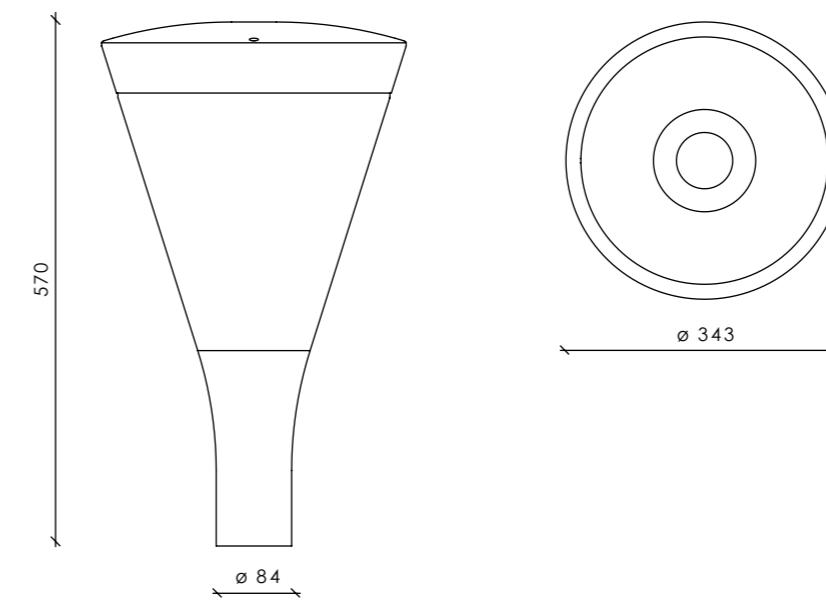


Luscinia side-entry

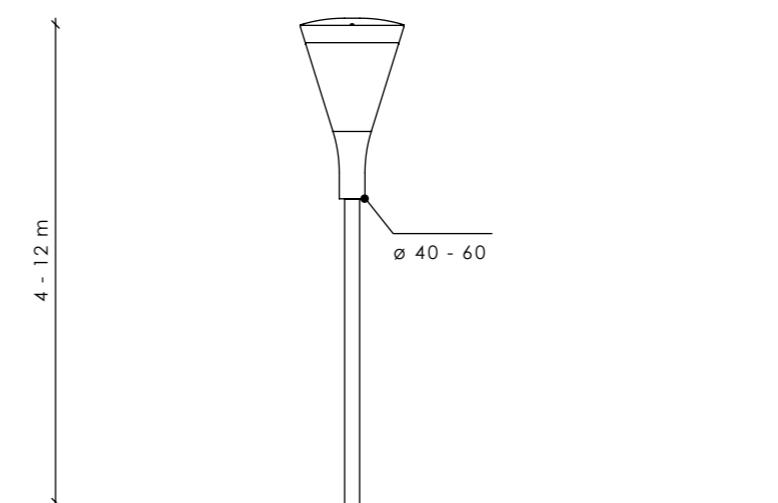


Other colors
available on request

Luscinia post top



Other colors
available on request



Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	8 - 52	Warranty 5 years
lm	922 - 8572 ⁽¹⁾	100 000 h (L95B10) at ta = 25°C
	900 - 8572 ⁽²⁾	100 000 h (L80B10) at ta = 25°C (ECO)
lm/W	117 - 143 ⁽¹⁾	
	114 - 139 ⁽²⁾	
K	3000/4000	Surge protection: 6 kV, 10 kV (optional)
°C	>70	Console: Side-entry / Hanging / Post top
CRI	-40 to +50	Body: Die-cast aluminum
		Intelligent light control system: RF (radio frequency) / Power line ⁽³⁾

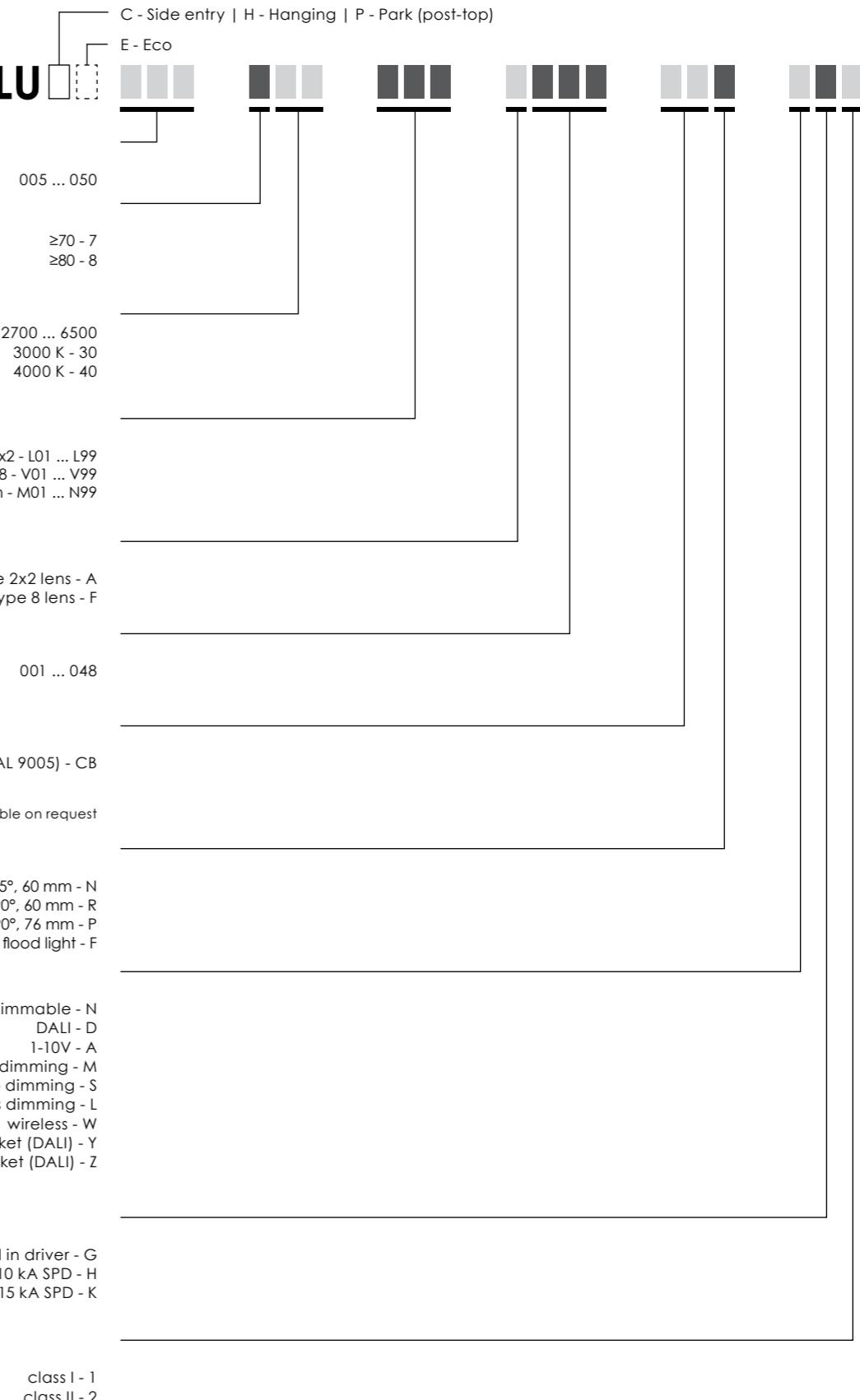
⁽¹⁾ Side-entry / Hanging

⁽²⁾ Post top

⁽³⁾ Post top, Class II

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

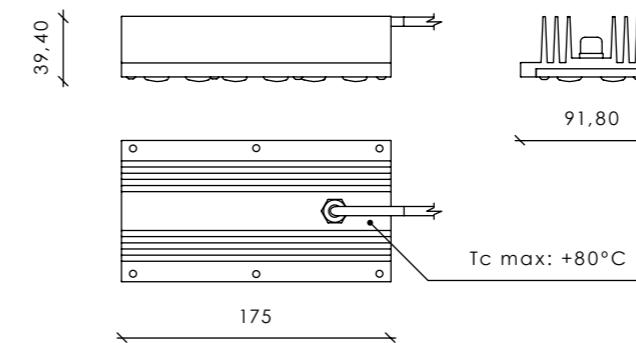
Model name principles



Woodpecker



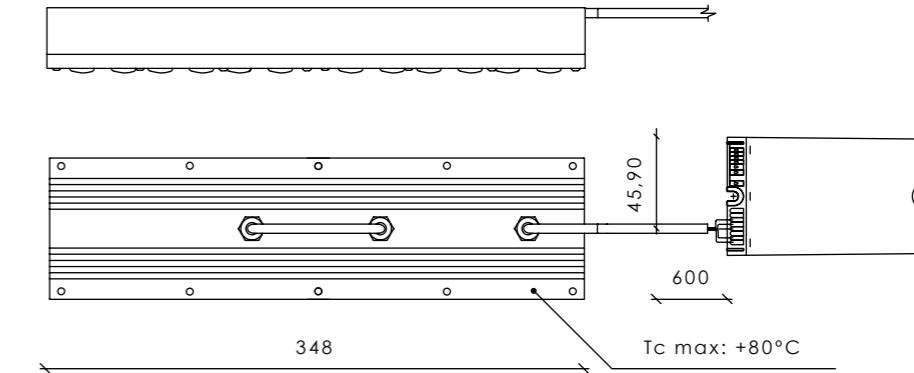
Small



RAL9005

Other colors
available on request

Large



*Max cable length 2m

Technical information

IP65⁴ CE RoHS

V	220 - 240	DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	15 - 28	Warranty 5 years
lm	1850 - 3380	100 000 h (L90B10) at Ta = 25 °C ¹³
lm/W	121 - 123	
K	3000 / 4000 ¹¹	
°C	-40 to +50	Surge protection: 6 kV, 10 kV (optional) ¹²
CRI	>70 / >80	Console: Side-entry / Hanging / Post top
		Body: Extruded aluminum
		Intelligent light control system: RF (radio frequency) / Power line ¹³

¹¹ 5000; 5700 K available on request

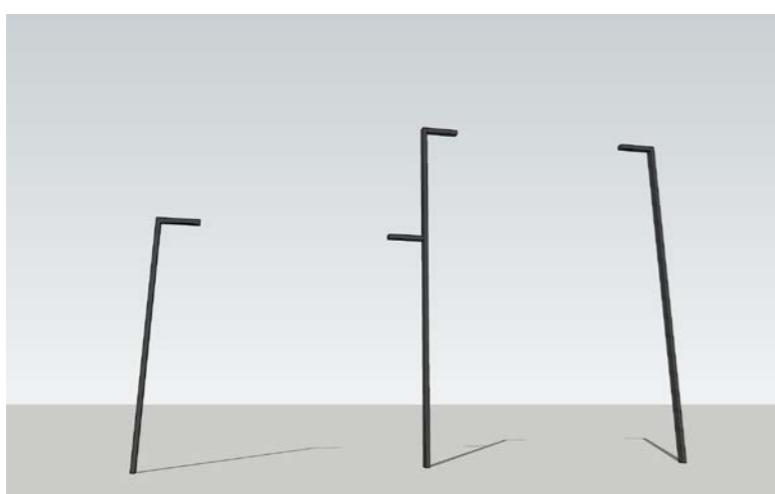
¹² 10 kV (L-N; L/N-PE) surge protection device available on request

¹³ at Ta=25°, this value is only informative and may change according to selected article

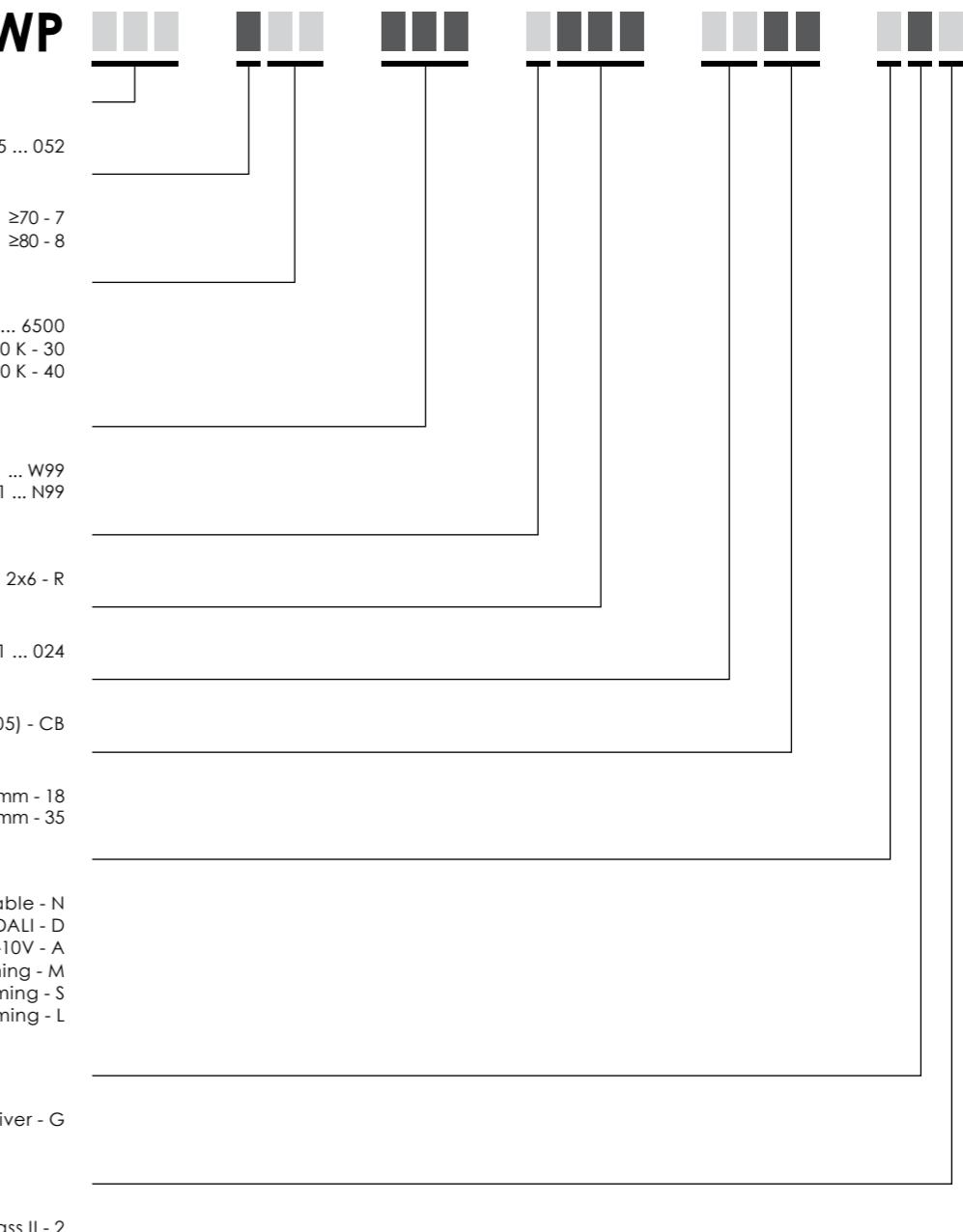
⁴ For LED module only

4000K	Small			Large		
Number of LED's	12		24			
Nominal current, mA	350	500	700	350	500	700
Power, W	15	20	28	27	38	52
Luminous Flux, lm	1980	2690	3600	3890	5360	7130
Efficacy, lm/W	132	135	129	144	141	137
Power factor, PF	0,85	0,92	0,96	0,92	0,95	0,97

Available with decorative poles



Model name principles

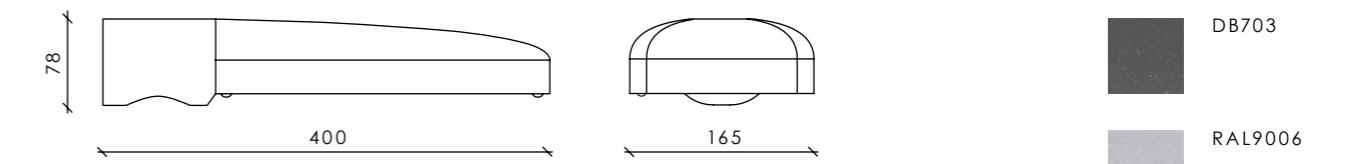


Colibri



side entry

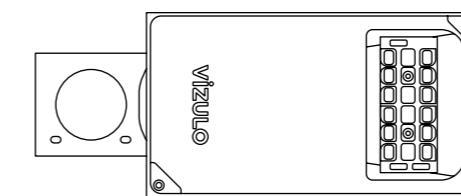
post top



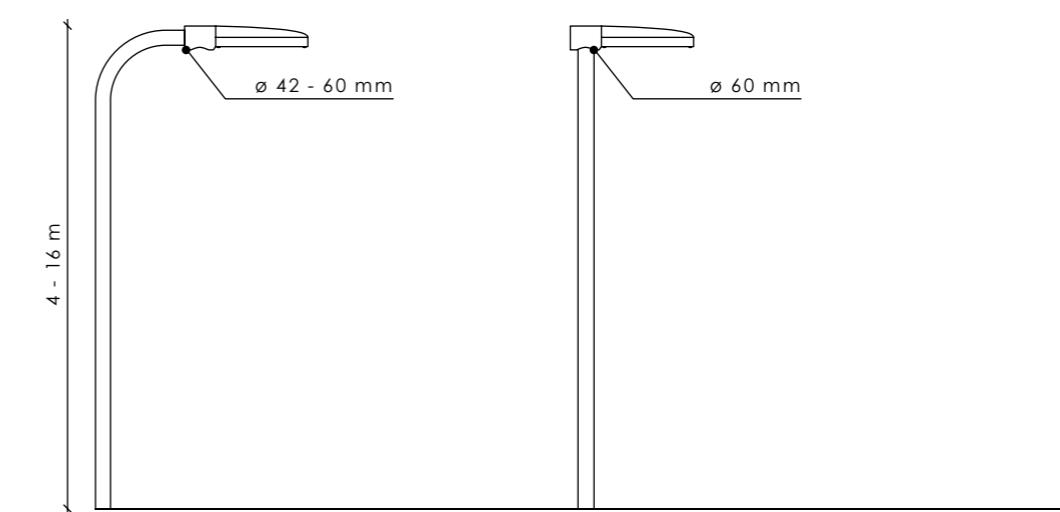
DB703

RAL9006

Other colors
available on request



Max.wind load area, SCd, m²: 0.025



side entry

post top

Technical information



V	220 - 240
Hz	50 - 60
mA	up to 1000
W	5 - 35 ⁽¹⁾ 36 - 45 ⁽²⁾
lm	5050
lm/W	up to 115
K	3000 / 4000 ⁽³⁾
°C	-40 to +50 (standard)
CRI	>70 ⁽⁴⁾

Dimming: Non-dimmable ⁽⁵⁾
Surge protection: Min 4kV (standard) ⁽⁶⁾
Console: 0° and 90° only
Body: Die-cast aluminum

⁽¹⁾ -40 ... +50

⁽²⁾ -40 ... +35

⁽³⁾ Available on request

⁽⁴⁾ Color rendering index (CRI): Ra >80, Ra >90 is available according to special orders for extra price!

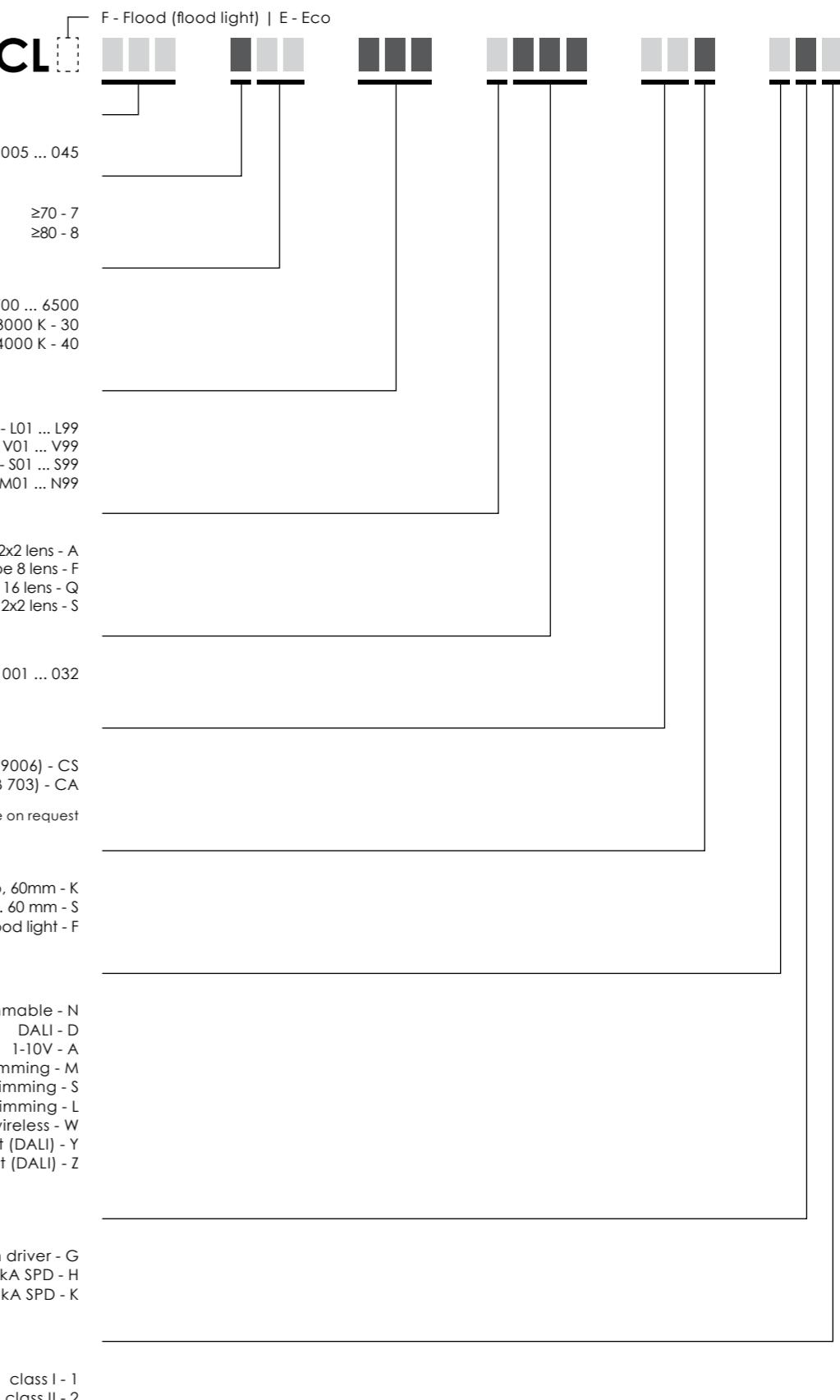
⁽⁵⁾ DALI, Midnight dimming (Optional) available for extra price!

⁽⁶⁾ 10 kV (L-N; L/N-PE) surge protection device available on request for extra price!

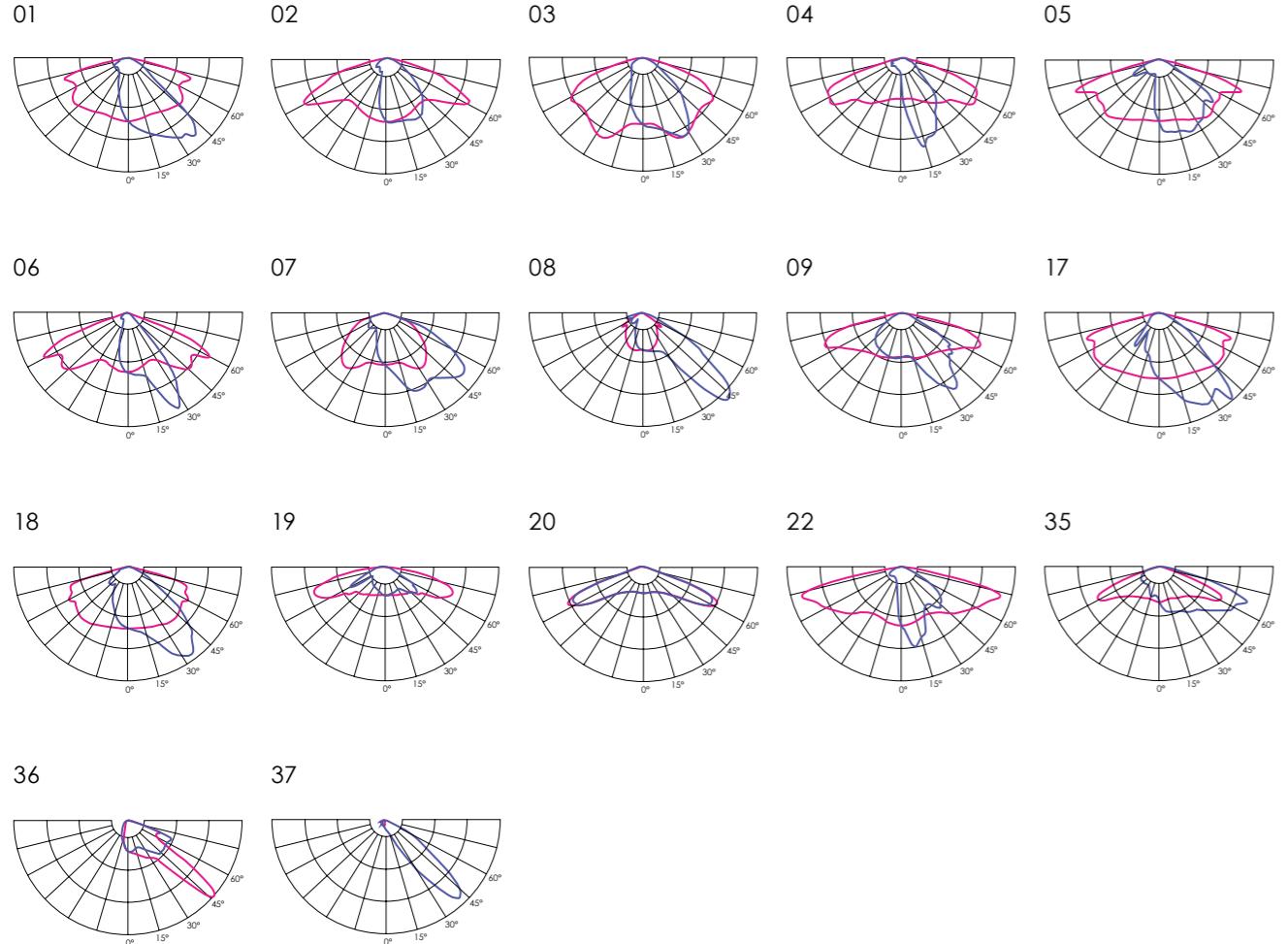
⁽⁷⁾ Coming soon

Min. One luminaire type order 130 pcs

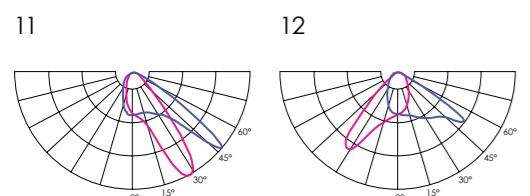
Model name principles



Optics street luminaires

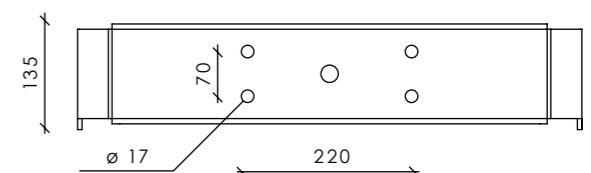
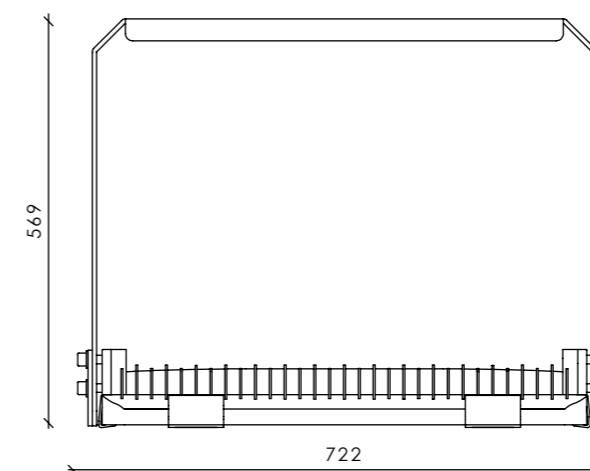
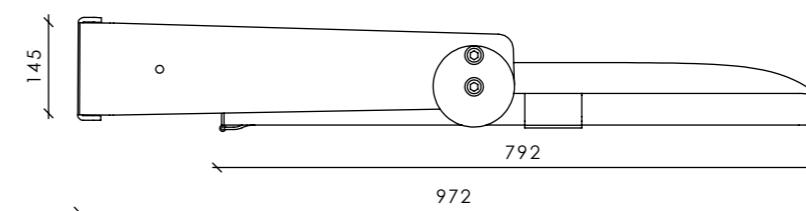
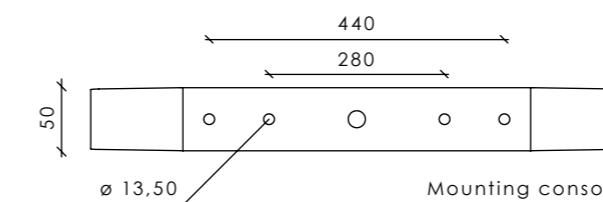
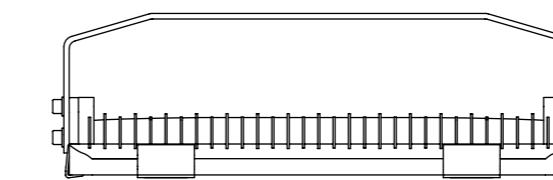
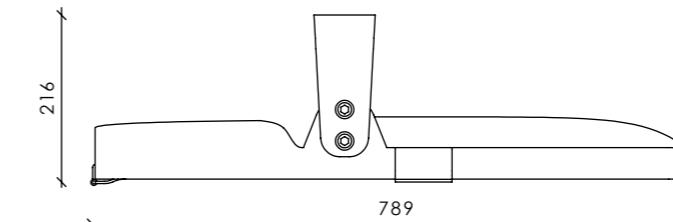


Pedestrian crossing optics



Stork little brother
Gothenburg | Sweden

Mustang



Other colors
available on request

Technical information



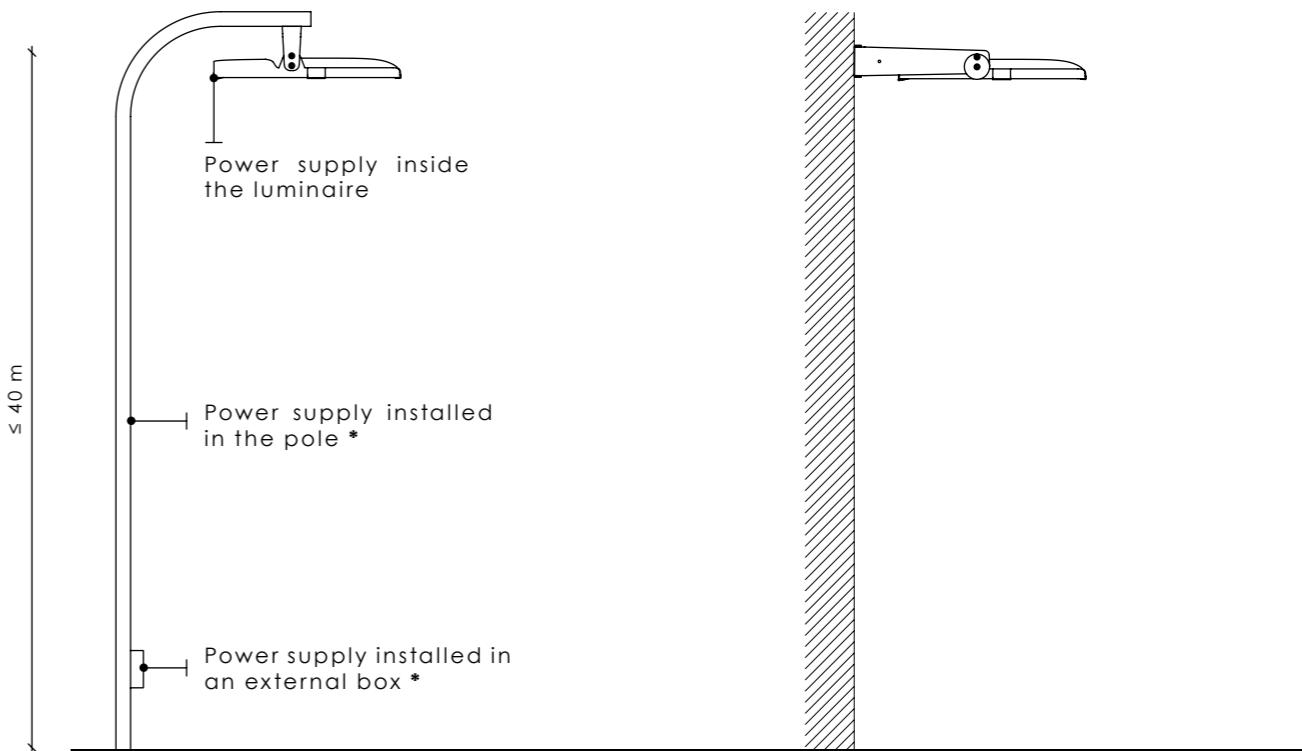
V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	700	Warranty 5 years
lm	34449 - 90540	100 000 h (L90B10) at Ta = 25 °C ¹³
lm/W	102 - 141	
K	3000 / 4000 / 5000 / 5700	
°C	-40 to +50	Surge protection: 6kV (L-N) and 10 kV (L/N -PE without DALI connection) ¹²
CRI	>70 / >80 ¹¹	Console: Side-entry / Hanging / Post top Body: Die-cast aluminum Intelligent light control system: RF (radio frequency) / Power line

¹¹ Luminaries with color rendering index (CRI): Ra >90 on request

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

¹³ This value is only informative and may change according to selected article

Console



Custom modules

4000K

Number of LED's	72			96		
Nominal current, mA	350	500	700	350	430	520
Power, W	300	400	500	400	500	600
Luminous Flux, lm	34449	43792	51875	45820	55294	63654
Efficacy, lm/W	114	109	103	114	110	106
Power factor, PF	0,97	0,98	0,99	0,97	0,98	0,99

Standard modules

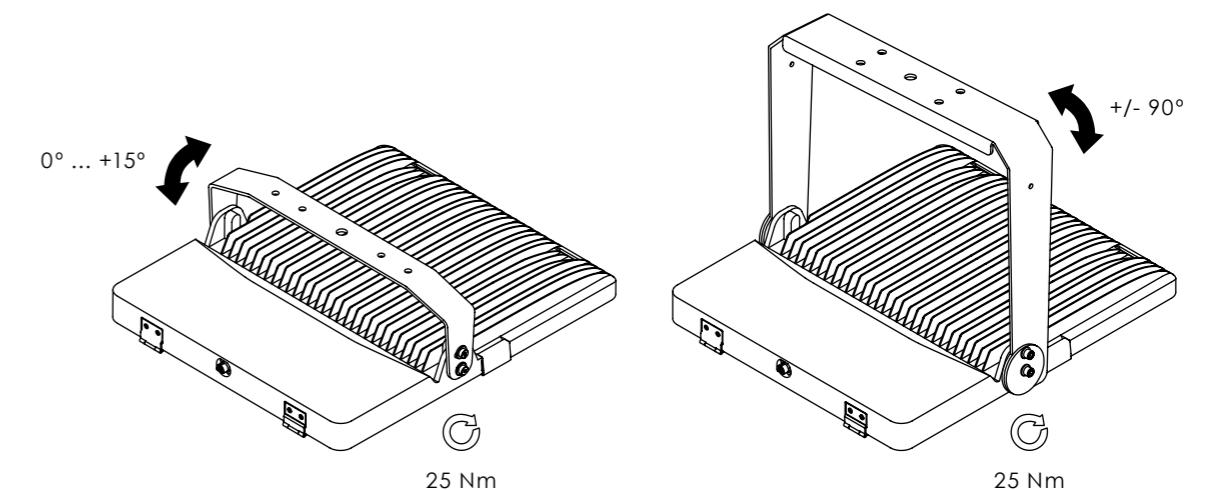
4000K

Number of LED's	264			352		
Nominal current, mA	350	500	700	350	500	700
Power, W	275	390	525	365	518	700
Luminous Flux, lm	38740	52950	68070	51390	70310	90540
Efficacy, lm/W	141	136	130	141	136	129
Power factor, PF	0,96	0,97	0,98	0,96	0,97	0,98

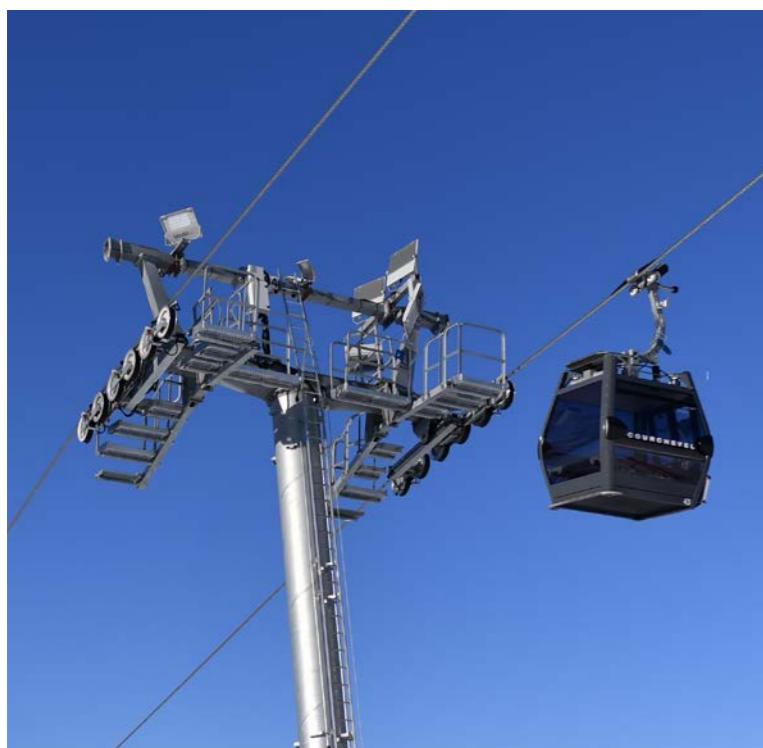
Max. cable length between drivers and luminaire/LED modules: **50 m**

Min. conductor cross section area:
1.5 mm²

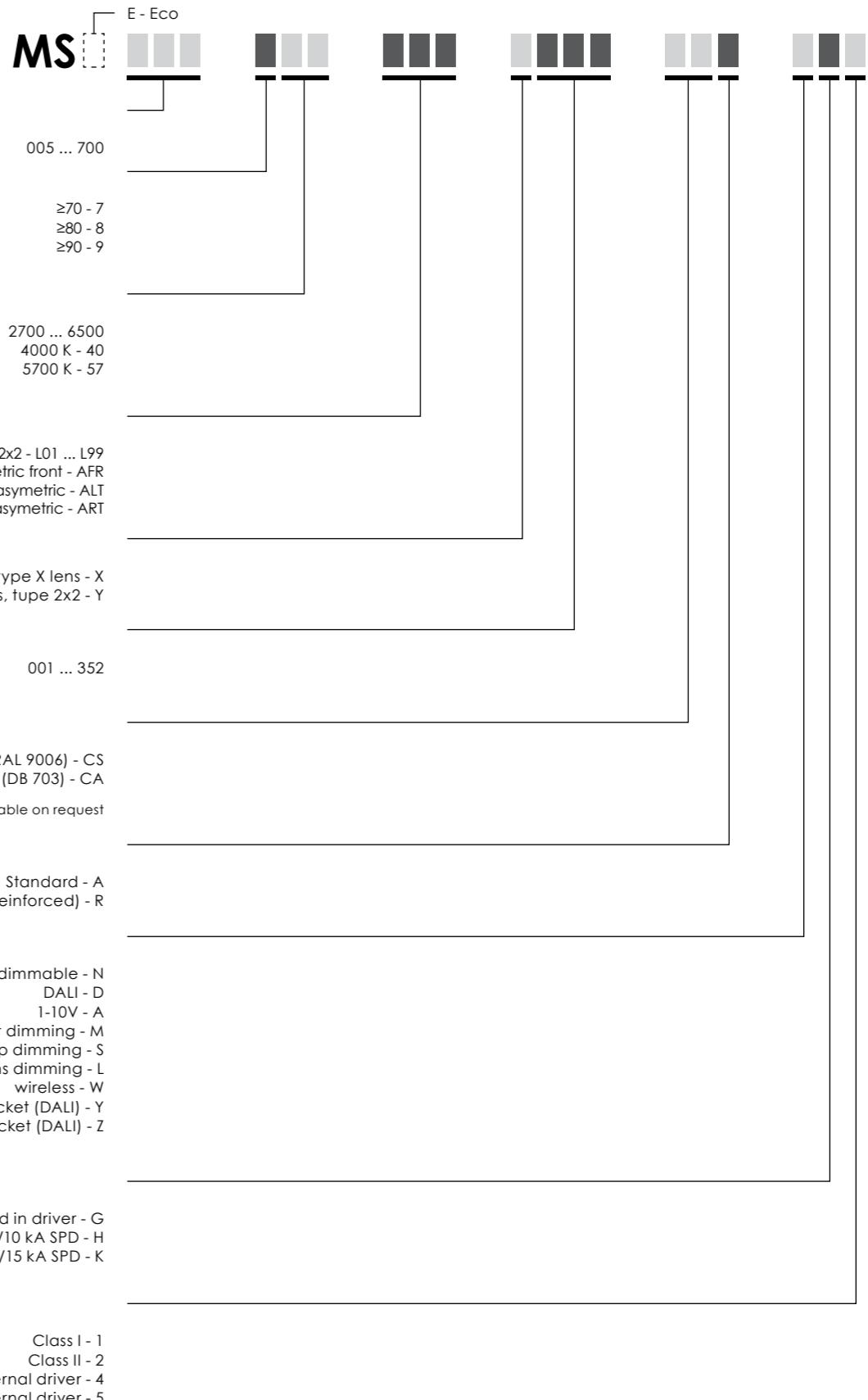
* Luminaire to driver cable must be ordered from the accessories list



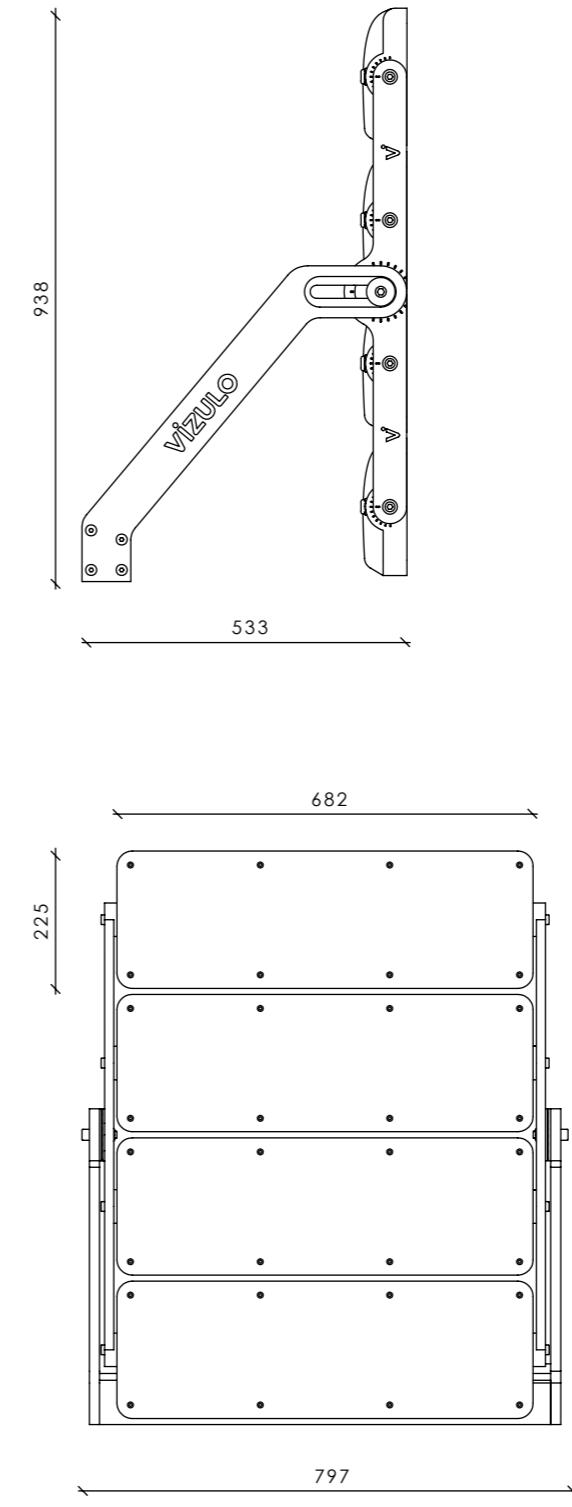
**Model name
principles**



Courchevel |
France



Eagle



**Technical
information***



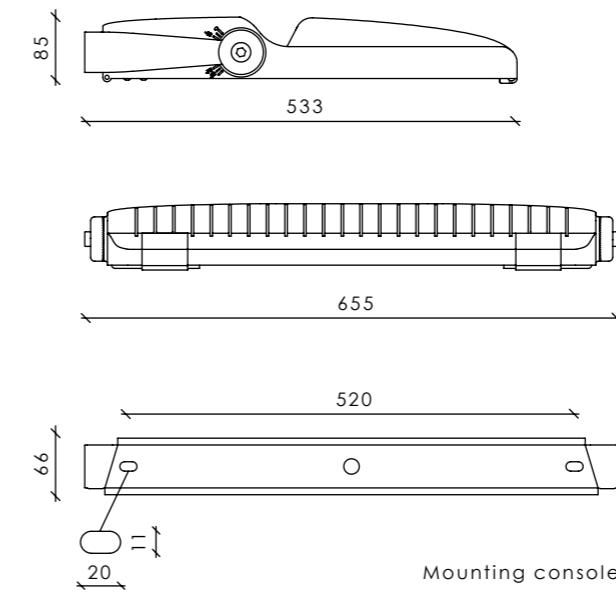
V	220 - 240	1-10V; DALI
Hz	50 - 60	Warranty 5 years
W	~2400	50 000 h (L90B10) at Ta = 25 °C
lm	~320 000 ⁽¹⁾	Max distance between driver box and luminaire <200 m
lm/W	136	HDTV optimized flicker performance
K	3000 / 4000	Flicker index (< 50 kHz) < 0,05
°C	-40 to +55	Flicker % (< 3kHz) < 2 %
CRI	>70 / >80 ⁽²⁾	Flicker % (> 3kHz) < 4 %

Surge protection: 10 kV
Body: Die-cast aluminum
Body color: Silver - RAL 9006
Console: Floodlight
Weight: 36 kg (without driver box)

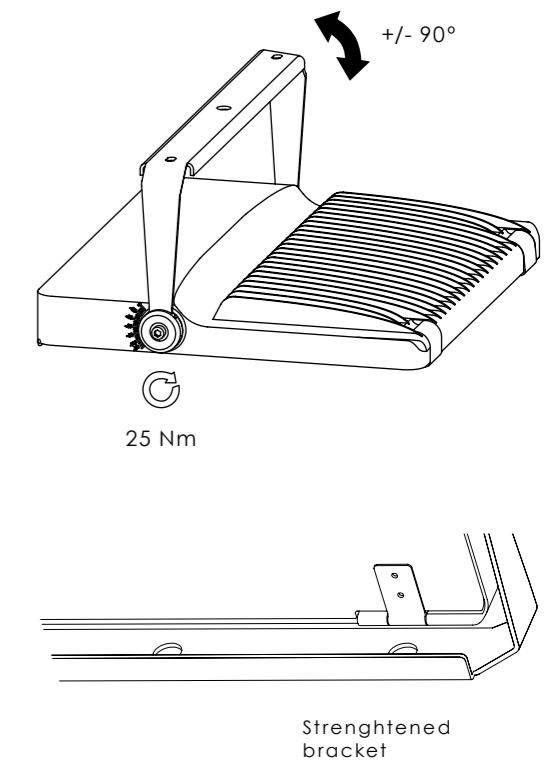
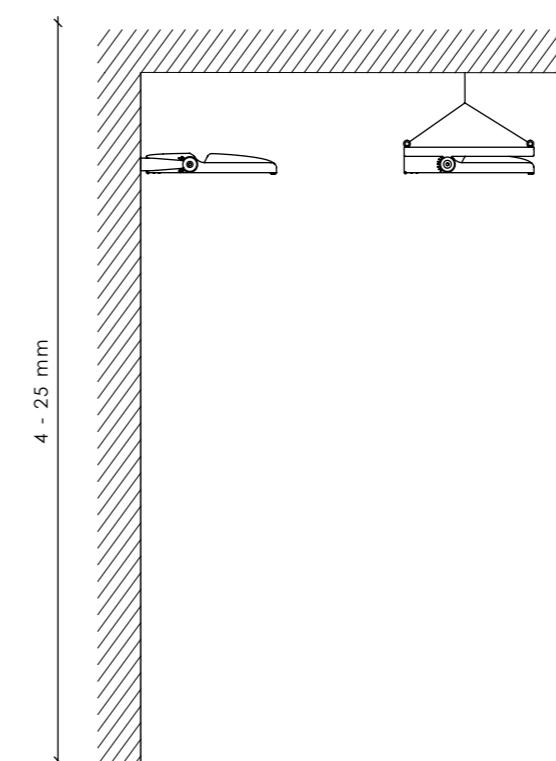
⁽¹⁾ Lumen output indicated at 4000 K, CRI>70

⁽²⁾ CRI>90 on request

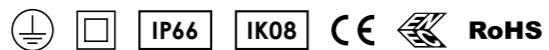
* Preliminary data sheet



Other colors available on request



Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	85 - 380 ⁽¹⁾	Warranty 5 years
	85 - 340 ⁽²⁾	>100 000 h (L95B10) at Ta = 25 °C
lm	11700 - 46200 ⁽¹⁾	100 000h (L80B10C10) ⁽⁶⁾
	11700 - 42700 ⁽²⁾	
lm/W	122 - 139	
K	3000 / 4000 / 5000	Surge protection: 3; 6; 10 kV (optional) ⁽⁴⁾
°C	-40 to +50 ⁽³⁾	10 kV (L/N -PE without DALI connection) ⁽⁵⁾
CRI	>70 / >80 ⁽⁴⁾	Body: Die-cast aluminum
		Intelligent light control system: RF (radio frequency) / Power line

(1) Class I

(2) Class II

(3) 340 - 380 W Ta = -40...+45°C

(4) Luminaries with color rendering index (CRI): Ra >90 on request

(5) VIZULO reserves the right to use as standard 6 or 10kV surge protection device

(6) Average lifetime value for ECO model at Ta = 25C is 100 000h 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 000h 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.

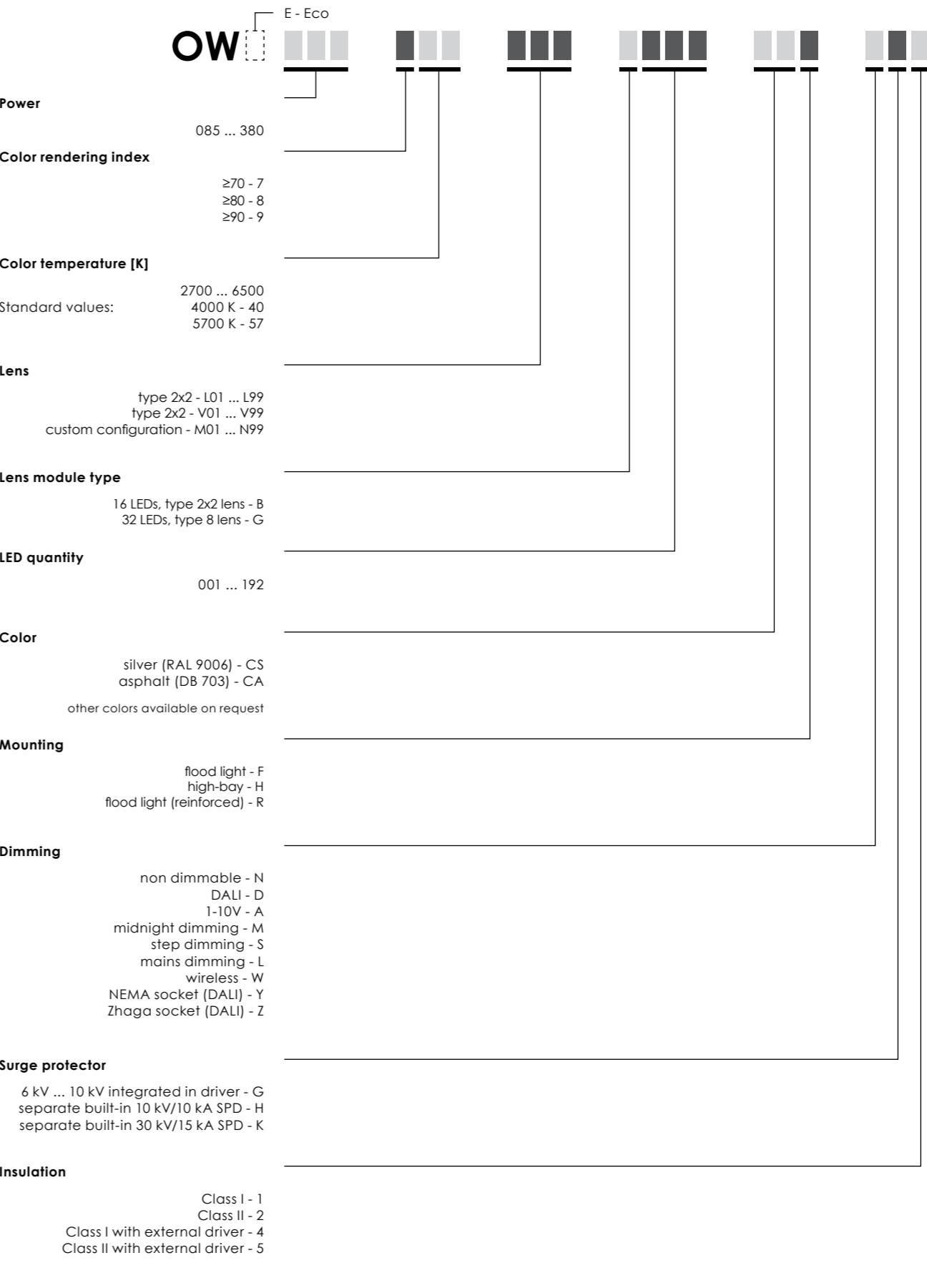
Standard modules

4000K

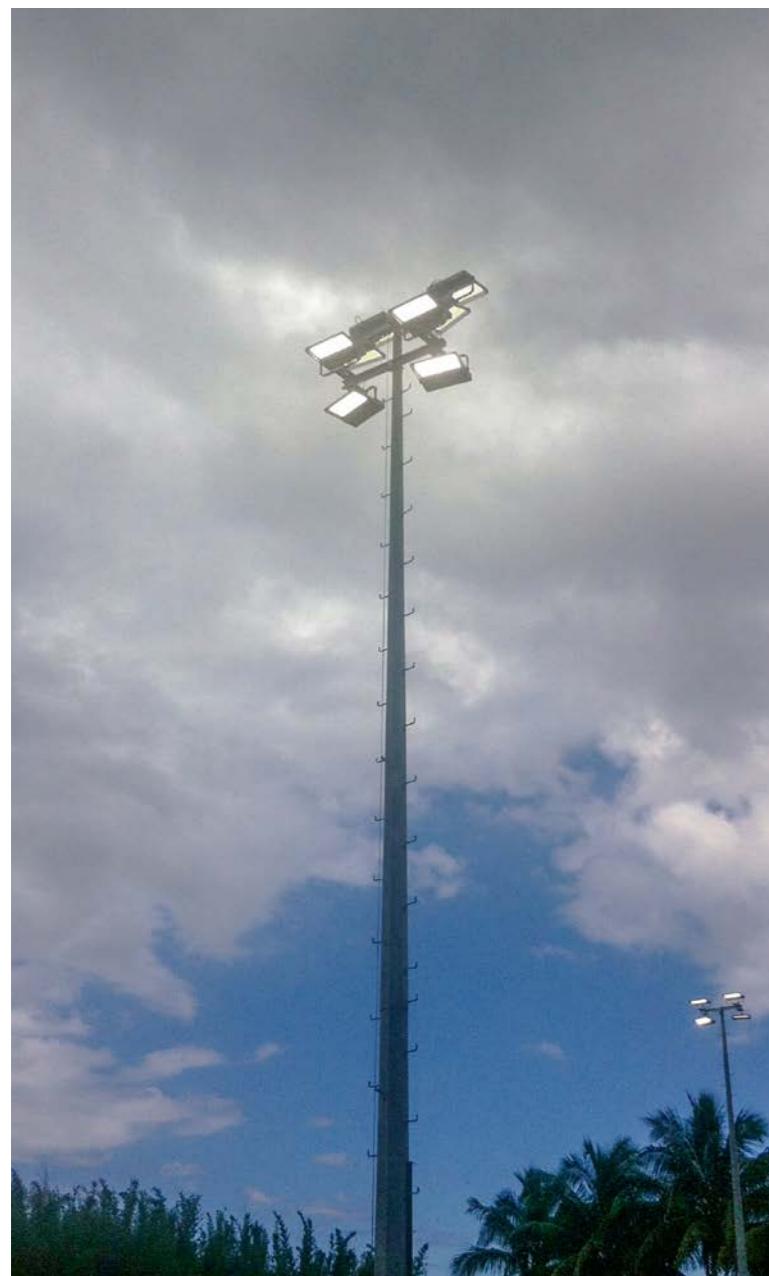
Number of LED's	80	96	112	128
Nominal current, mA	350	500	720	350
Power, W	85	120	172	104
Luminous Flux, lm	11795	16017	21561	14190
Efficacy, lm/W	139	133	125	136
Power factor, PF	0,95	0,97	0,98	0,94

Number of LED's	144	160
Nominal current, mA	350	500
Power, W	156	215
Luminous Flux, lm	21484	28608
Efficacy, lm/W	138	133
Power factor, PF	0,94	0,97

Model name principles



EXAMPLE OWE 085 730 L01 B048 CSF NG1

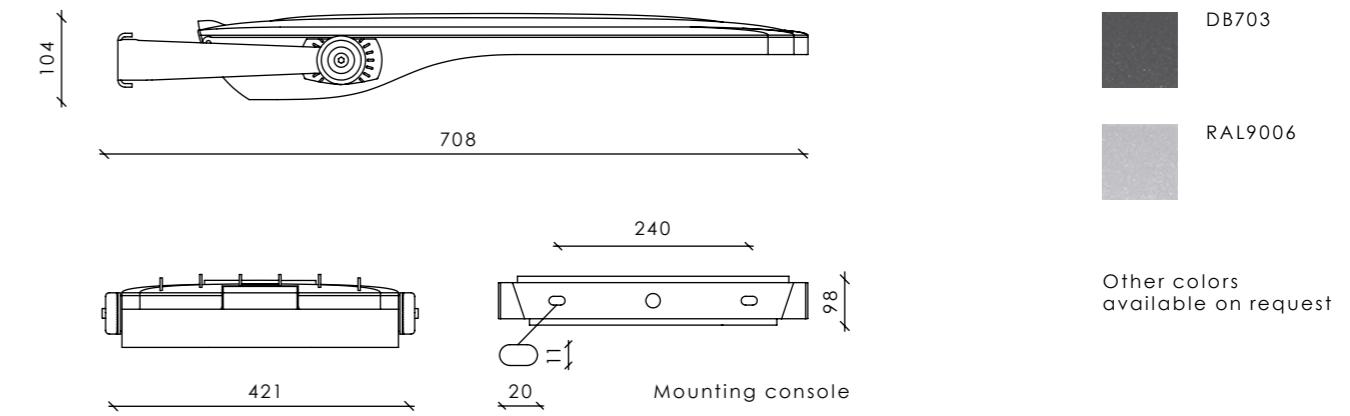


Réunion | France

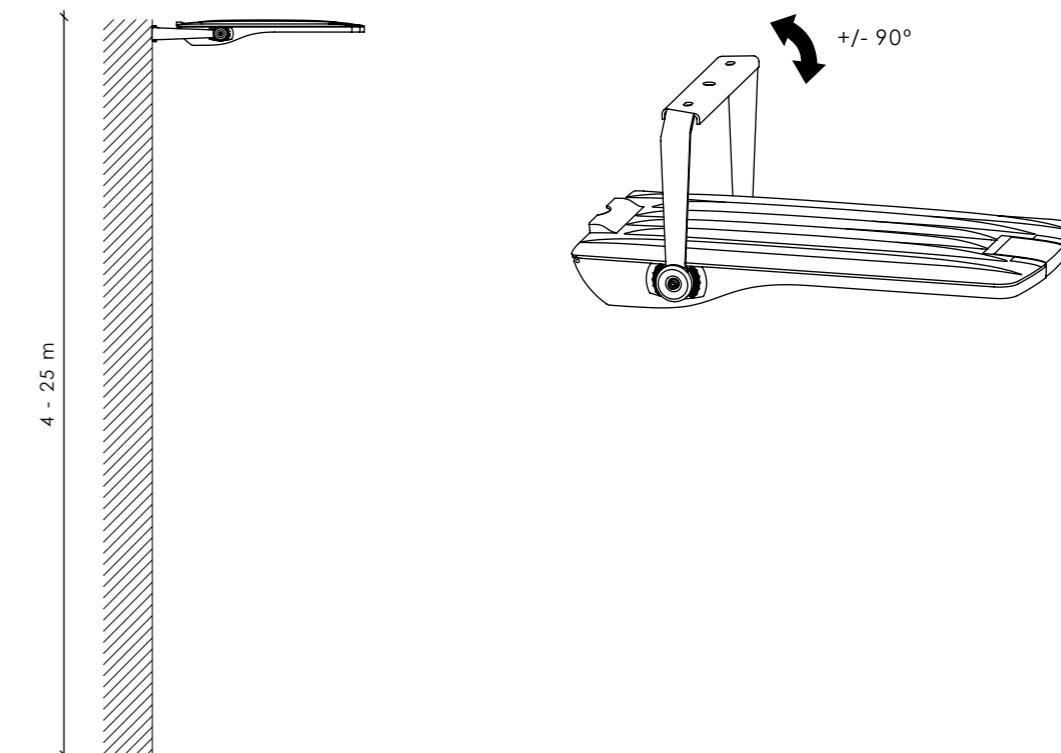


Courchevel | France

Stork floodlight



Other colors
available on request



Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Radio frequency / Power line ¹⁴
W	18 - 280	3; 6; 10 kV (optional) ¹⁵
Im	2300 - 34660	Warranty 5 years
Im/W	124 - 142	100 000h (L80B10C10) ¹⁶
K	3000 / 4000 ¹¹	100 000 h (L95B10C10) ¹⁷
°C	-40 to +35 ¹²	
CRI	>70 / >80 ¹³	

Body: Die-cast aluminum
Neto weight: 12,26 - 14,30 kg
Max.wind load area, SCd, m2: 0,047

¹¹ 5000; 5700 K available on request

¹² 240 - 280 W at Ta = -40°C... +35°C

¹³ Luminaries with color rendering index (CRI): Ra >90 on request

¹⁴ Optional. Available only with DALI ; 1 - 10 V

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

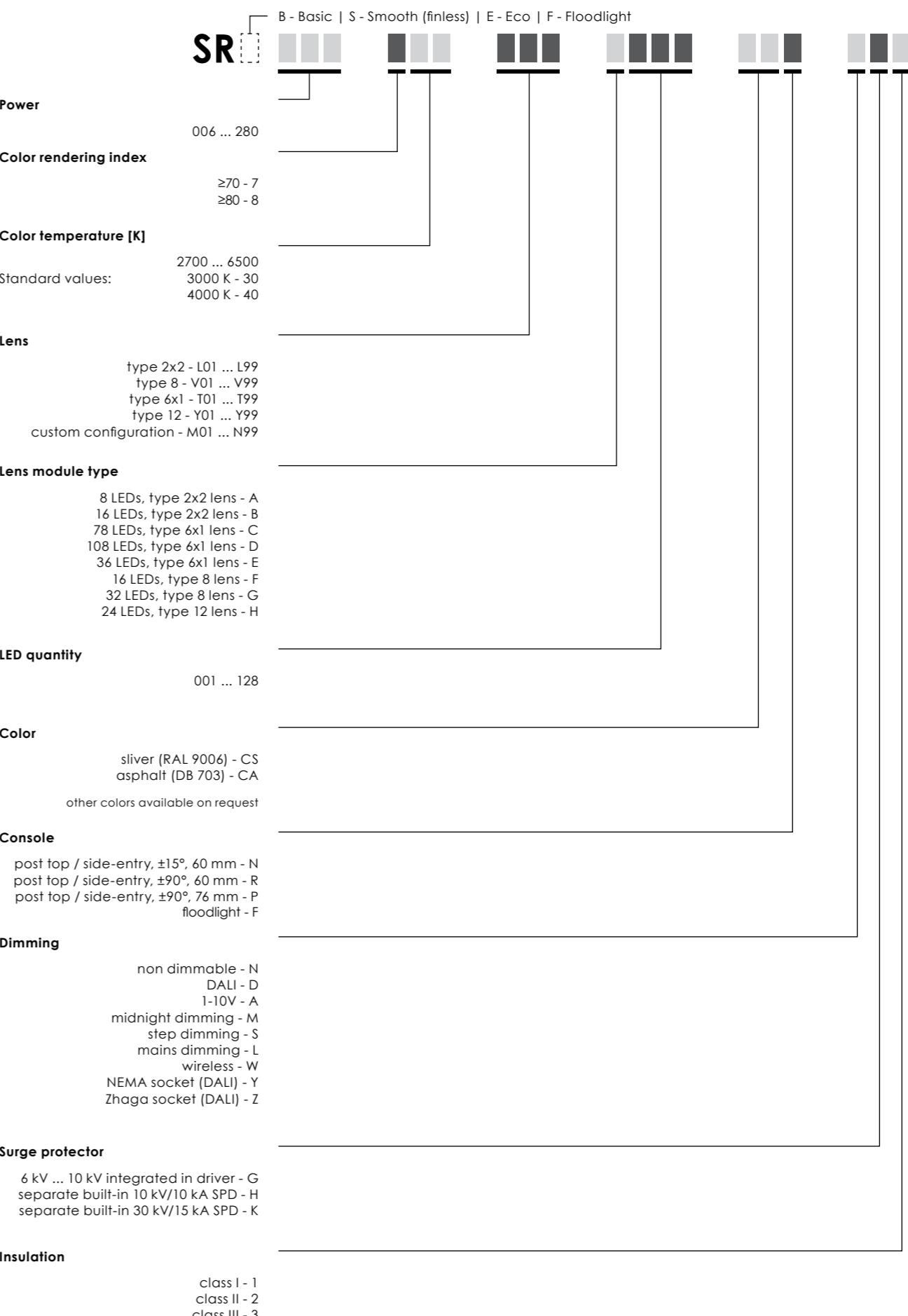
¹⁶ Average lifetime value for ECO model at Ta = 25C is 100 000h L80/B10*

*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 000h 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.

¹⁷ Standard / High Power / High Density at Ta=25°C, this value is only informative and may change according to selected article

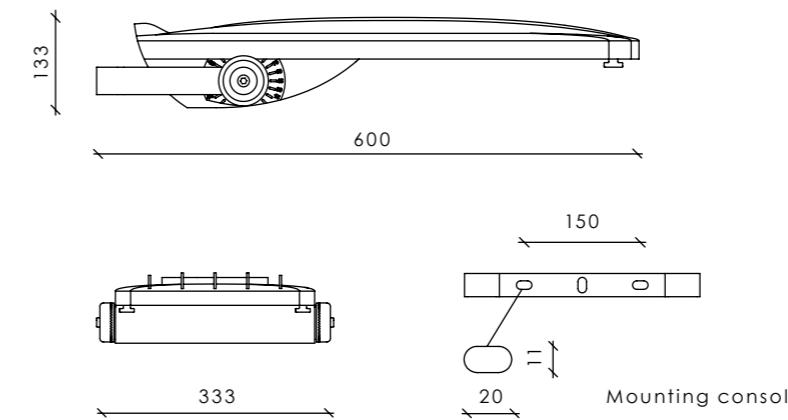
¹⁸ Coming soon

Model name principles

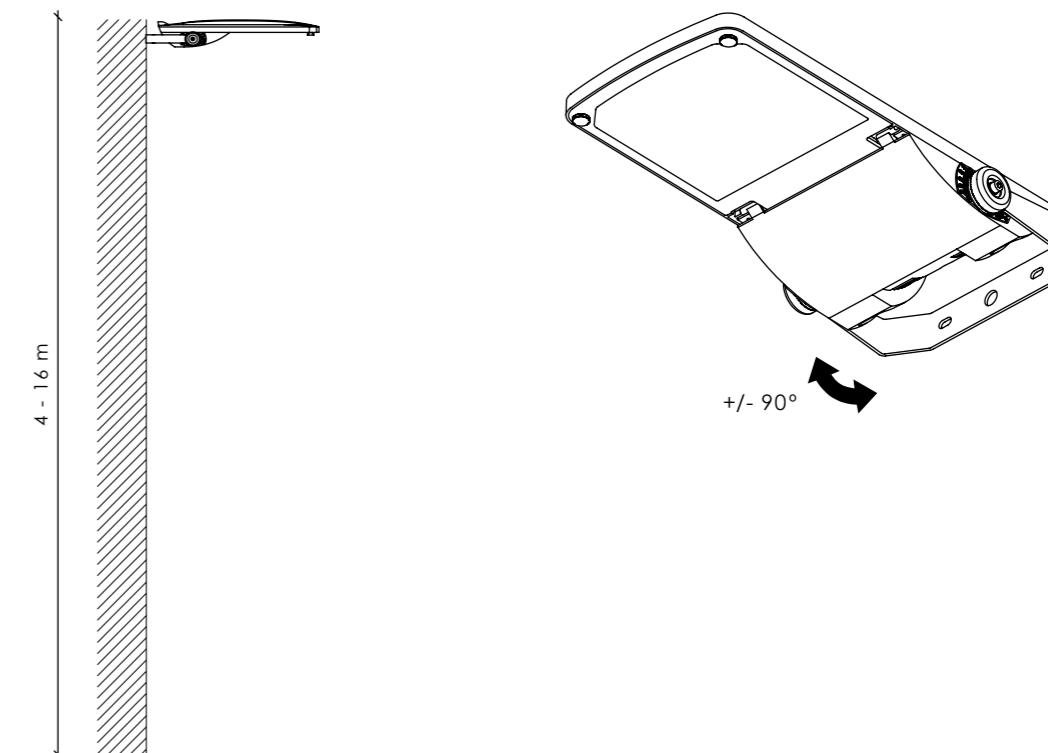


EXAMPLE SRF 250 730 V01 G128 CSN DG1

Stork little brother floodlight



Other colors
available on request



Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Radio frequency / Power line ¹⁴
W	18 - 178	3; 6; 10 kV (optional) ¹⁵
	18 - 200 ¹¹	Warranty 5 years
Im	2110 - 22300	100 000h (L80B10C10) ¹⁶
Im/W	112 - 148	100 000 h (L95B10C10) ¹⁷
K	3000 / 4000 ¹²	
°C	-40 to +50	
CRI	>70 / >80 ¹³	
	Body:	Die-cast aluminum
	Neto weight:	6,1 - 7,2 kg
	Max.wind load area, SCd, m2:	0,041

¹¹ Not in production

¹² 5000; 5700 K available on request

¹³ Luminaries with color rendering index (CRI): Ra >90 on request

¹⁴ Optional. Available only with DALI ; 1 - 10 V

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

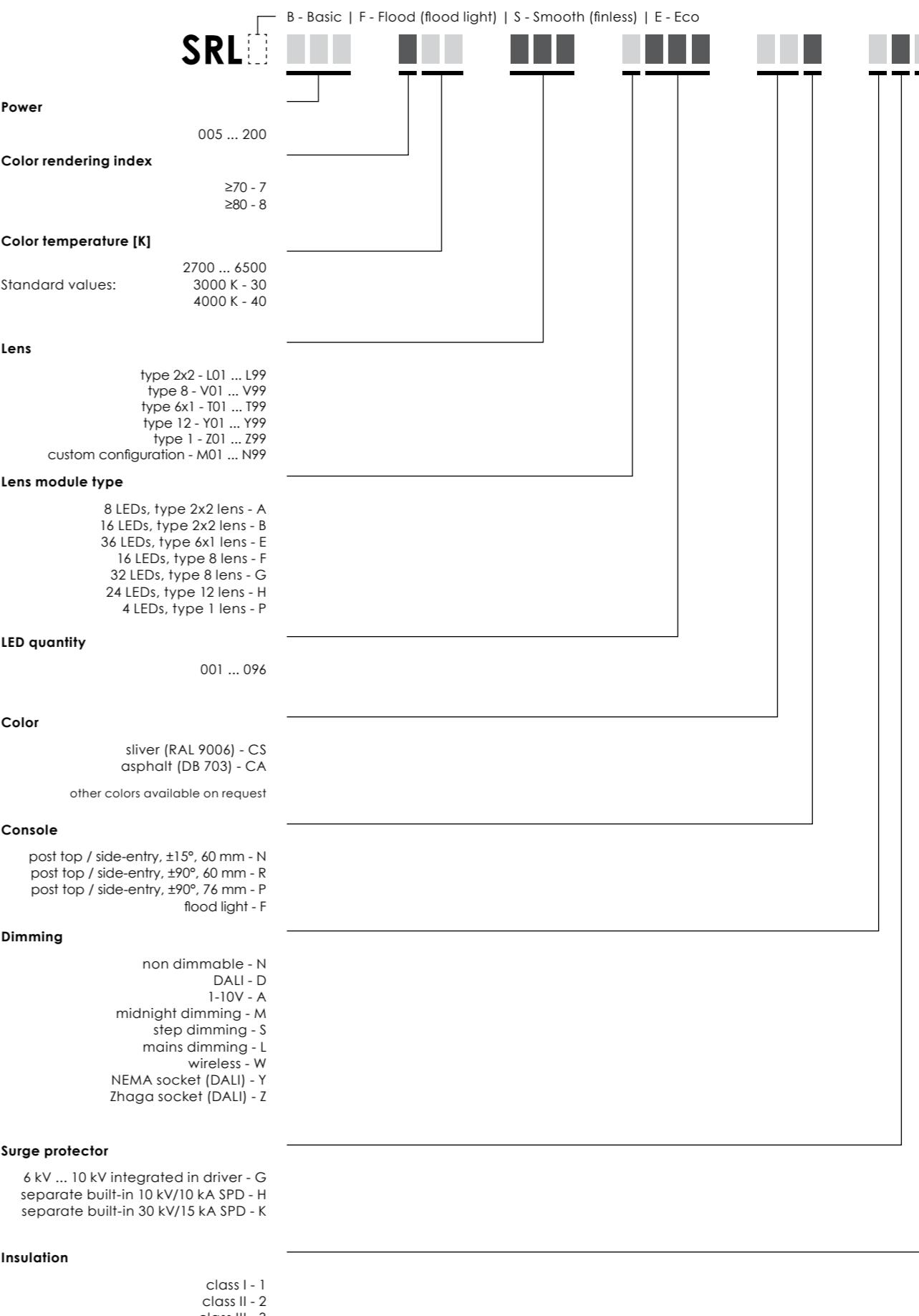
¹⁶ Average lifetime value for ECO model at Ta = 25°C is 100 000h L80/B10*

*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 000h 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.

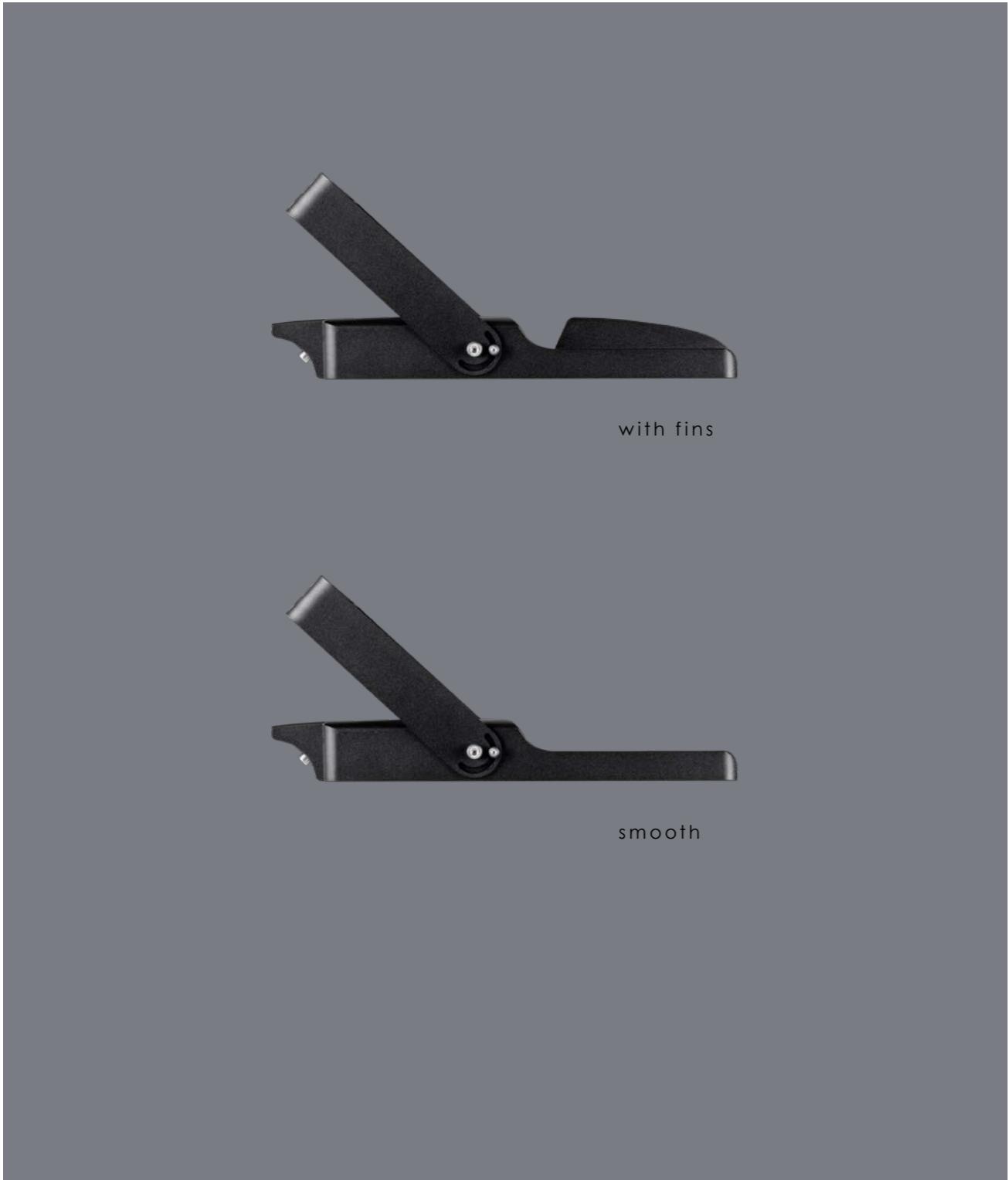
¹⁷ Standard / High Power / High Density at Ta=25°C, this value is only informative and may change according to selected article

¹⁸ Coming soon

Model name principles

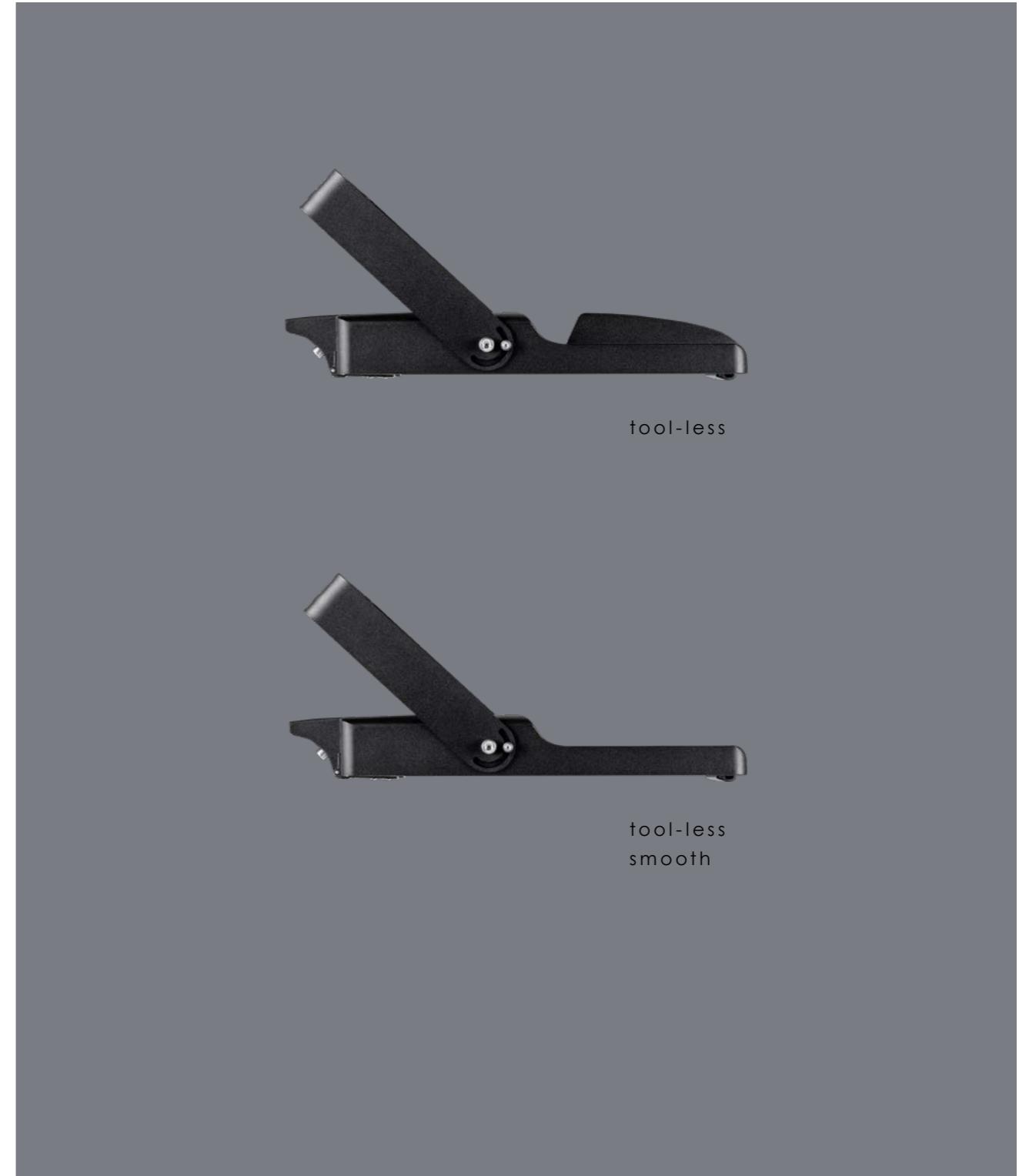


Mini martin floodlight



with fins

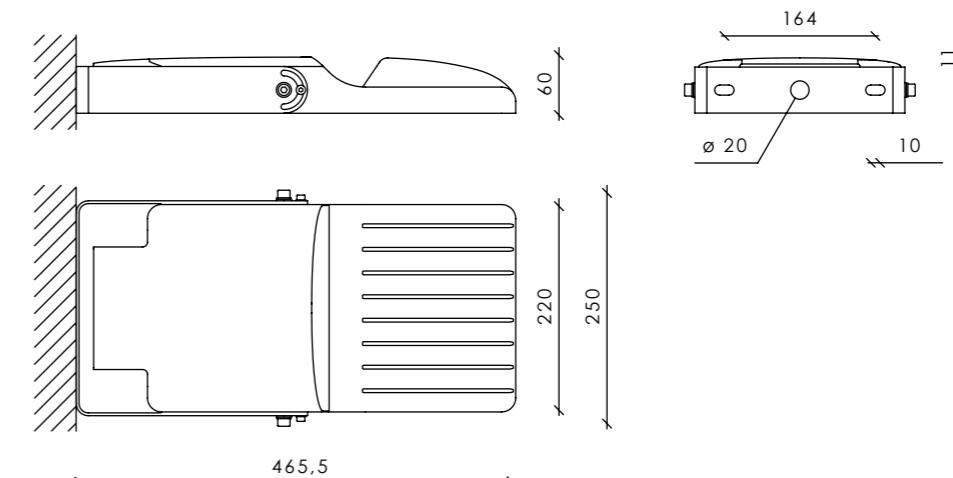
smooth



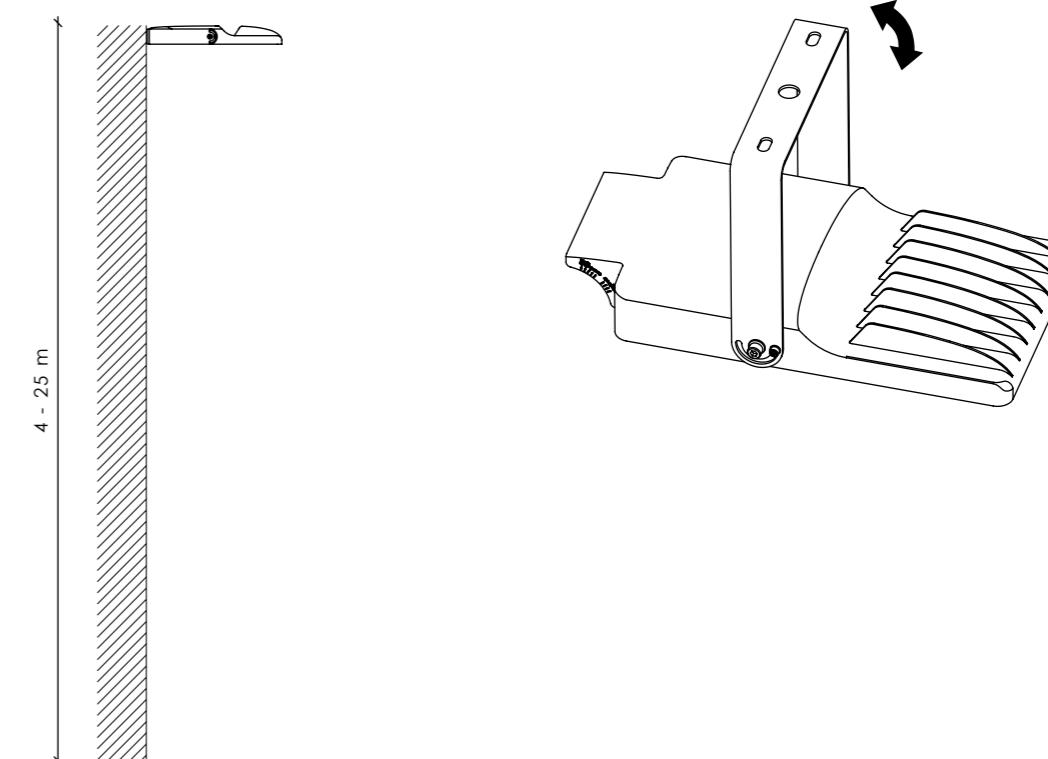
tool-less

tool-less
smooth

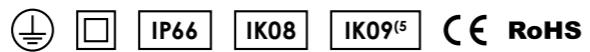
Mini martin floodlight with fins



Other colors
available on request



Technical information



V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	10 - 110	Radio frequency ⁽⁴⁾
Im	1100 - 13550	3; 6; 10 kV (optional) ⁽⁵⁾
Im/W	110 - 136	Warranty 5 years
K	3000 / 4000 ⁽¹⁾	100 000 h (L95B10C10) at Ta = 25 °C
°C	-40 to +50	
CRI	>70 / >80 ⁽²⁾	

Surge protection: 6kV; 10 kV
 Body: Die-cast aluminum
 Spigot: ø 40-60, with accessories ø 32; ø 76

⁽¹⁾ 5000 K available on request

⁽²⁾ Luminaires with color rendering (CRI): Ra >90 on request

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

⁽⁴⁾ Optional. Available only with DALI; 1 - 10 V

⁽⁵⁾ IK09 - screw version with tempered unprinted glass

Standard modules

4000K

Number of LED's	8		16		24		36 *	
Nominal current, mA	350	520	700	350	500	720	370	500
Power, W	10	15	19	18	26	37	29	39
Luminous Flux, Im	1100	1697	2147	2230	3230	4460	3725	4941
Efficacy, Im/W	110	113	113	124	124	121	128	127
Power factor, PF	0,74	0,85	0,9	0,89	0,95	0,97	0,93	0,95

Only with optic 01 / 02 / 03

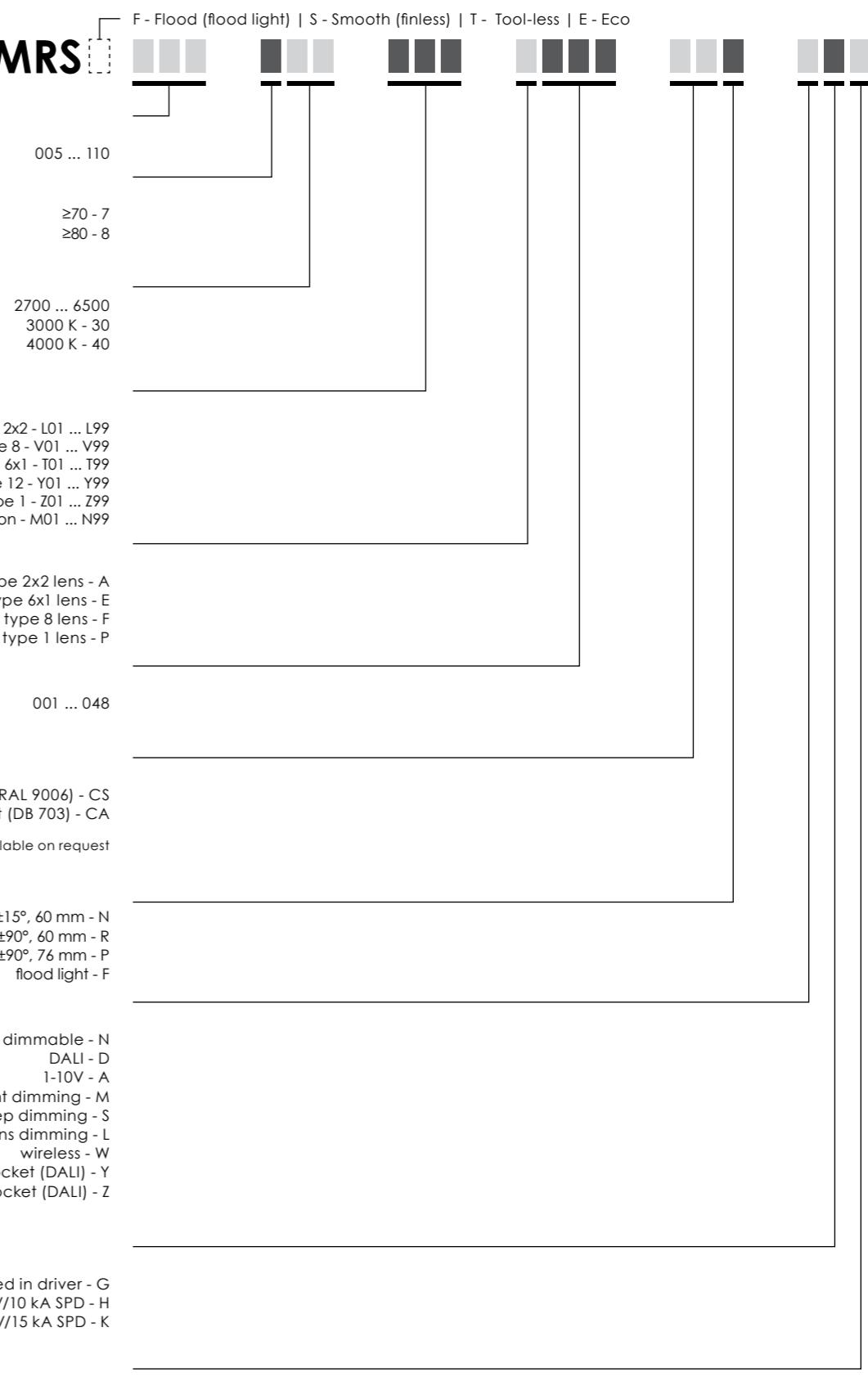
High density modules

4000K

Number of LED's	16 *		32 *		48 *	
Nominal current, mA	350	500	720	350	500	700
Power, W	18	26	37	37	50	68
Luminous Flux, Im	2230	3230	4460	4870	6488	8474
Efficacy, Im/W	124	124	121	131	130	125
Power factor, PF	0,89	0,95	0,97	0,95	0,97	0,96

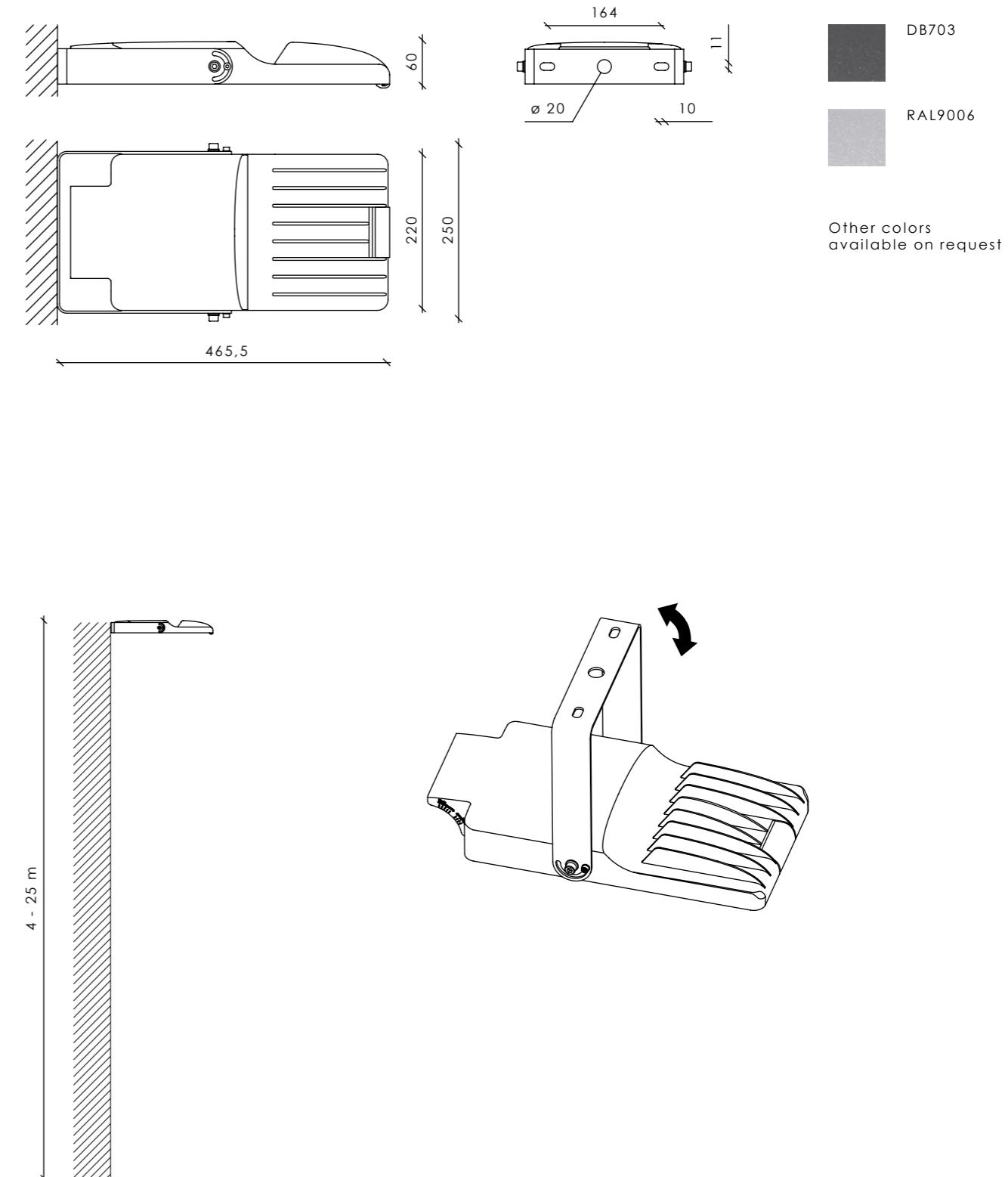
Only with optic 01 / 04 / 05 / 20 / 22 / 35

Model name principles

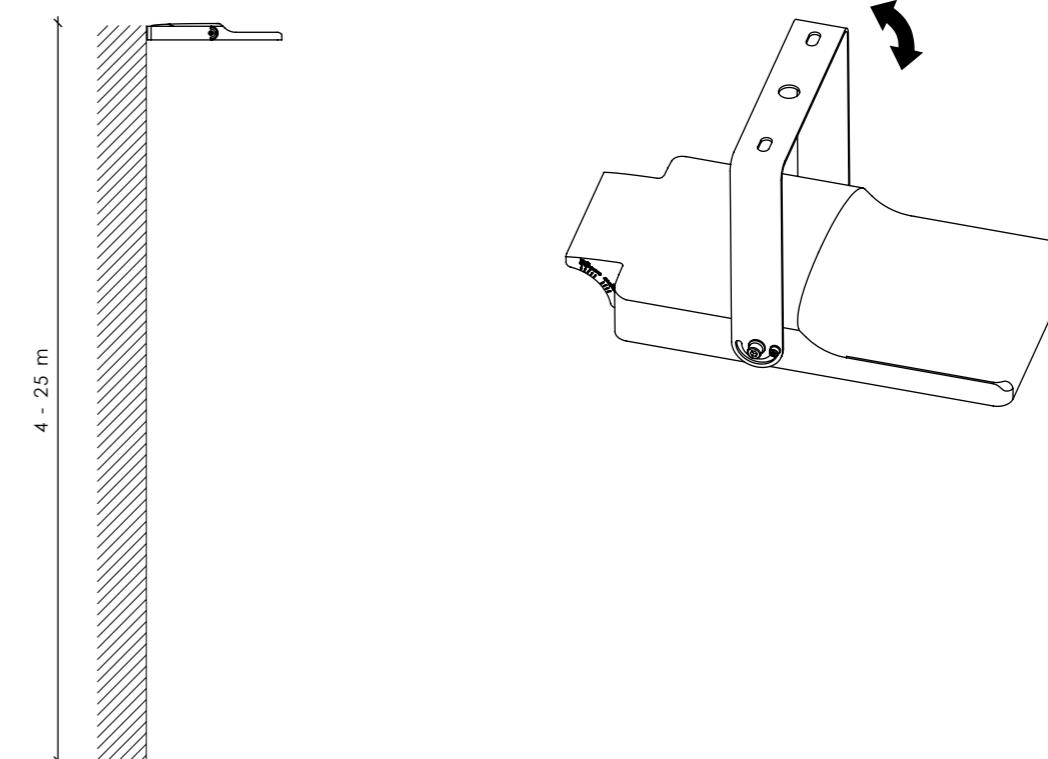
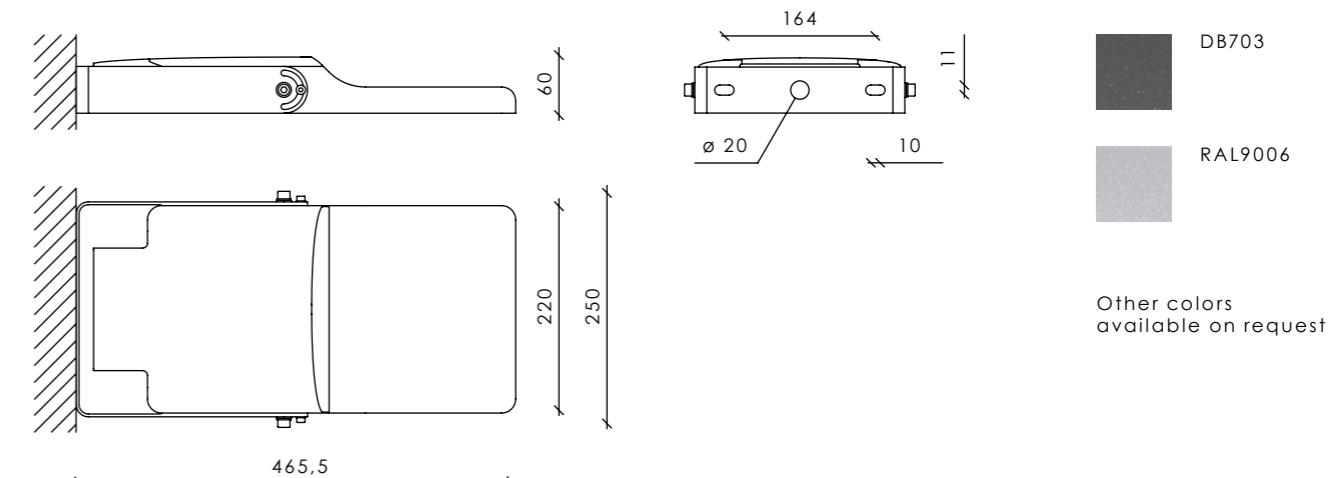


EXAMPLE MRSF 037 740 L01 A016 CSF DG1

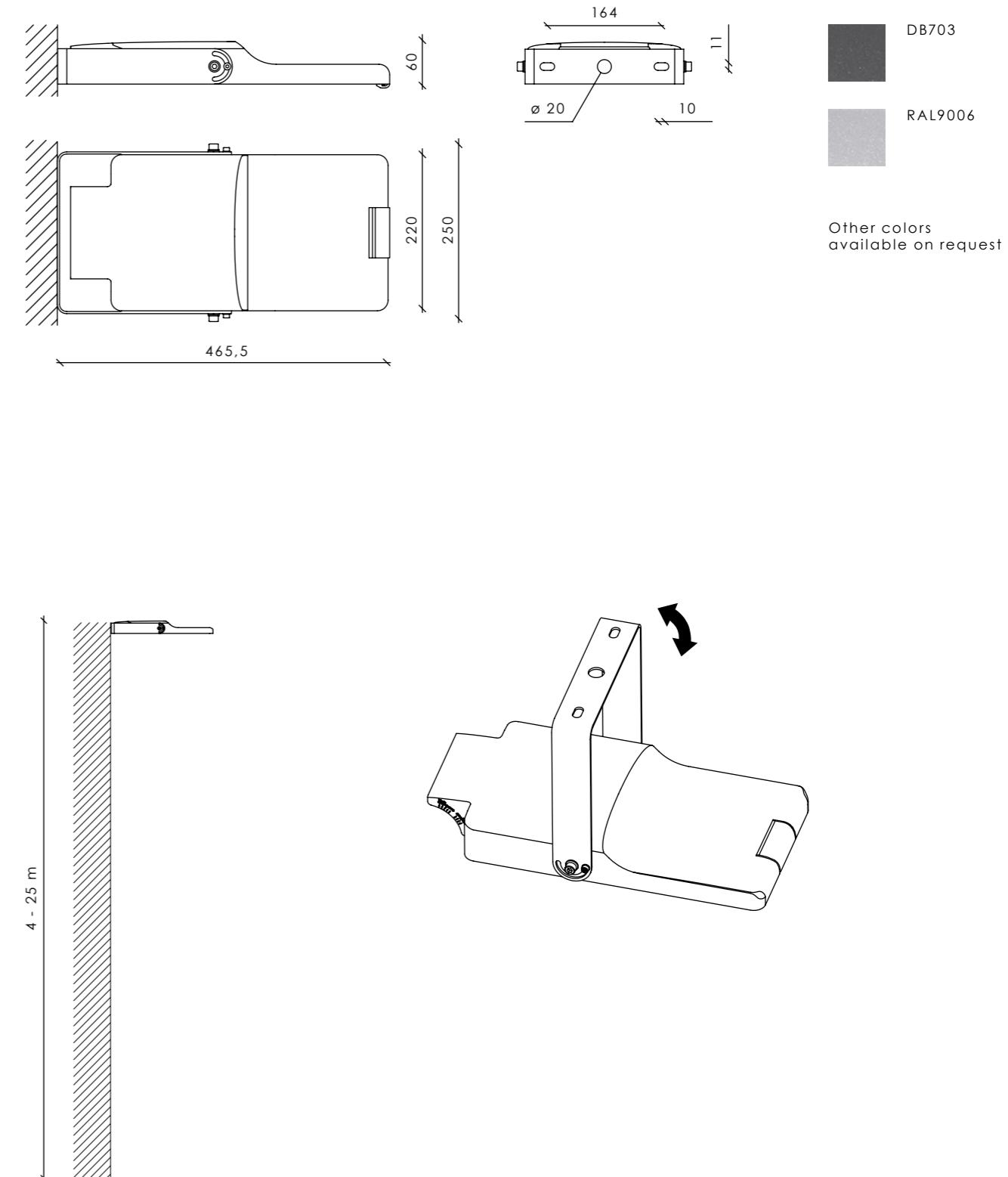
Mini martin floodlight tool-less

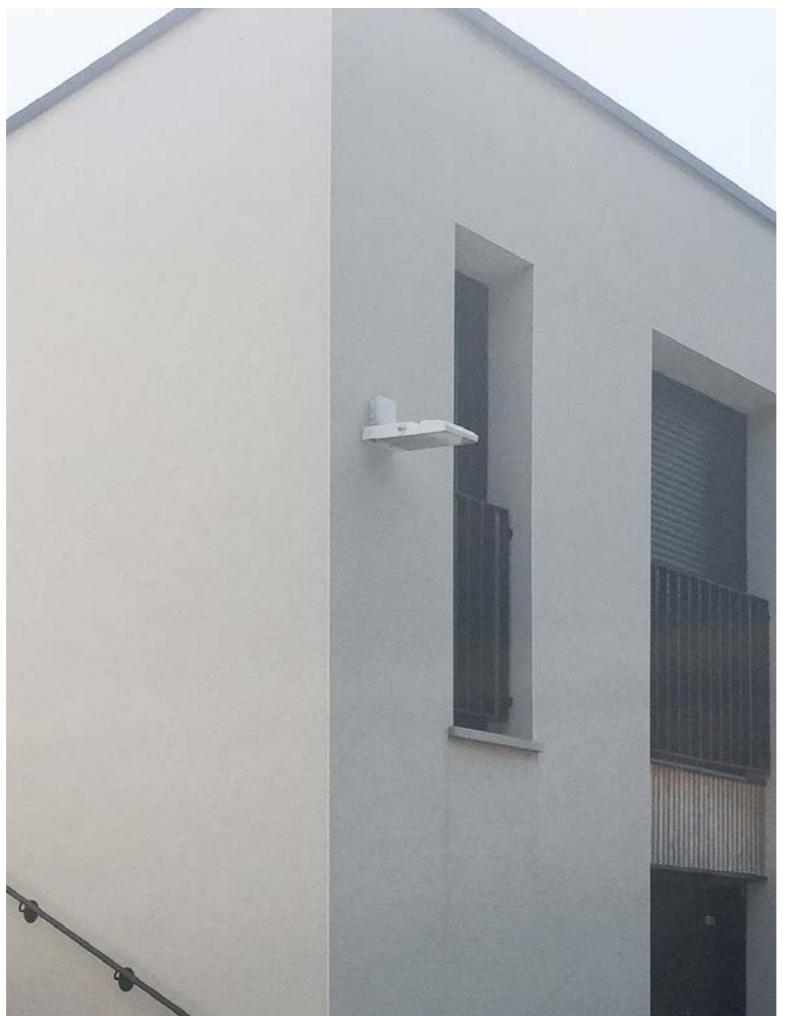


Mini martin floodlight smooth

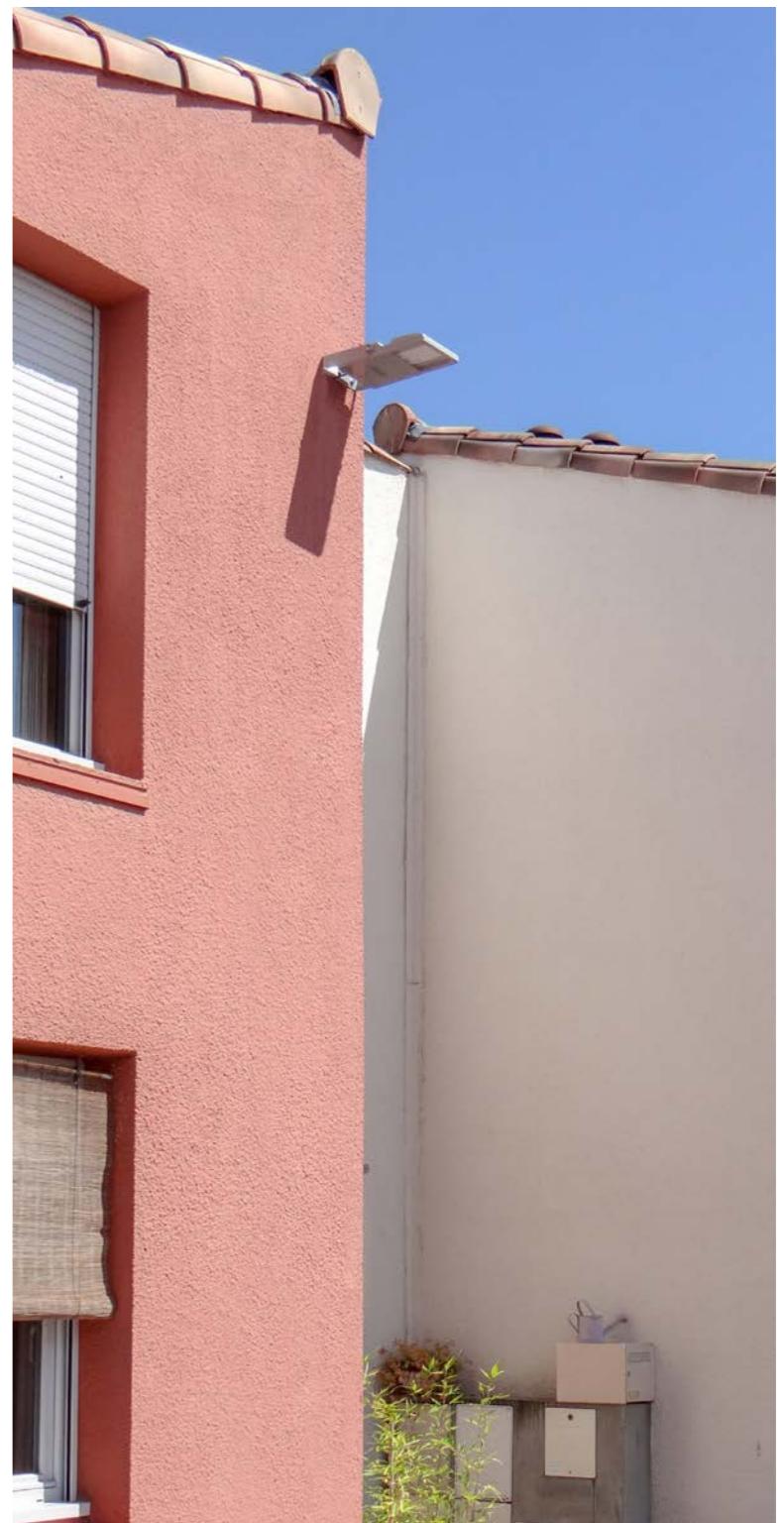


Mini martin floodlight tool-less smooth



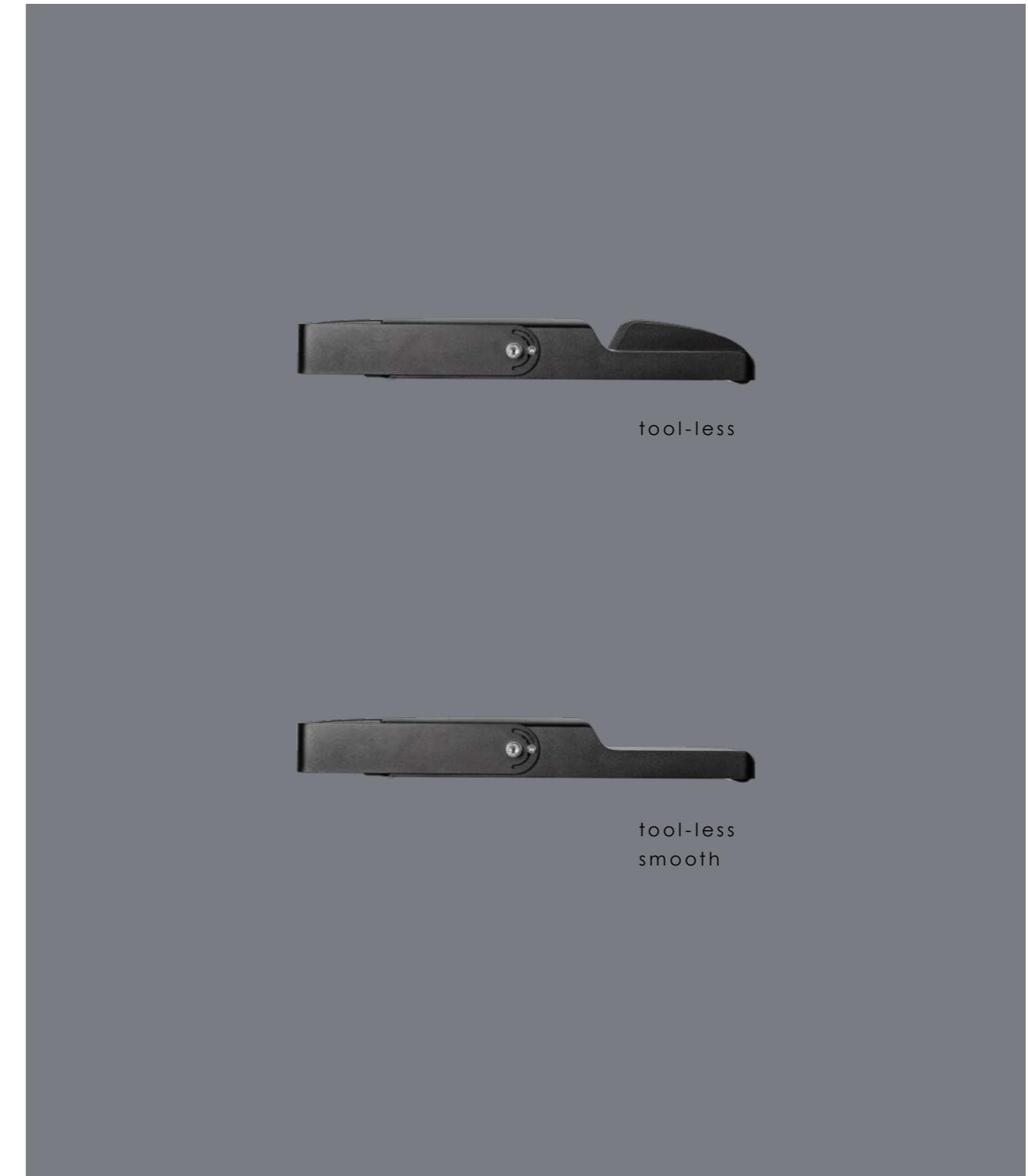
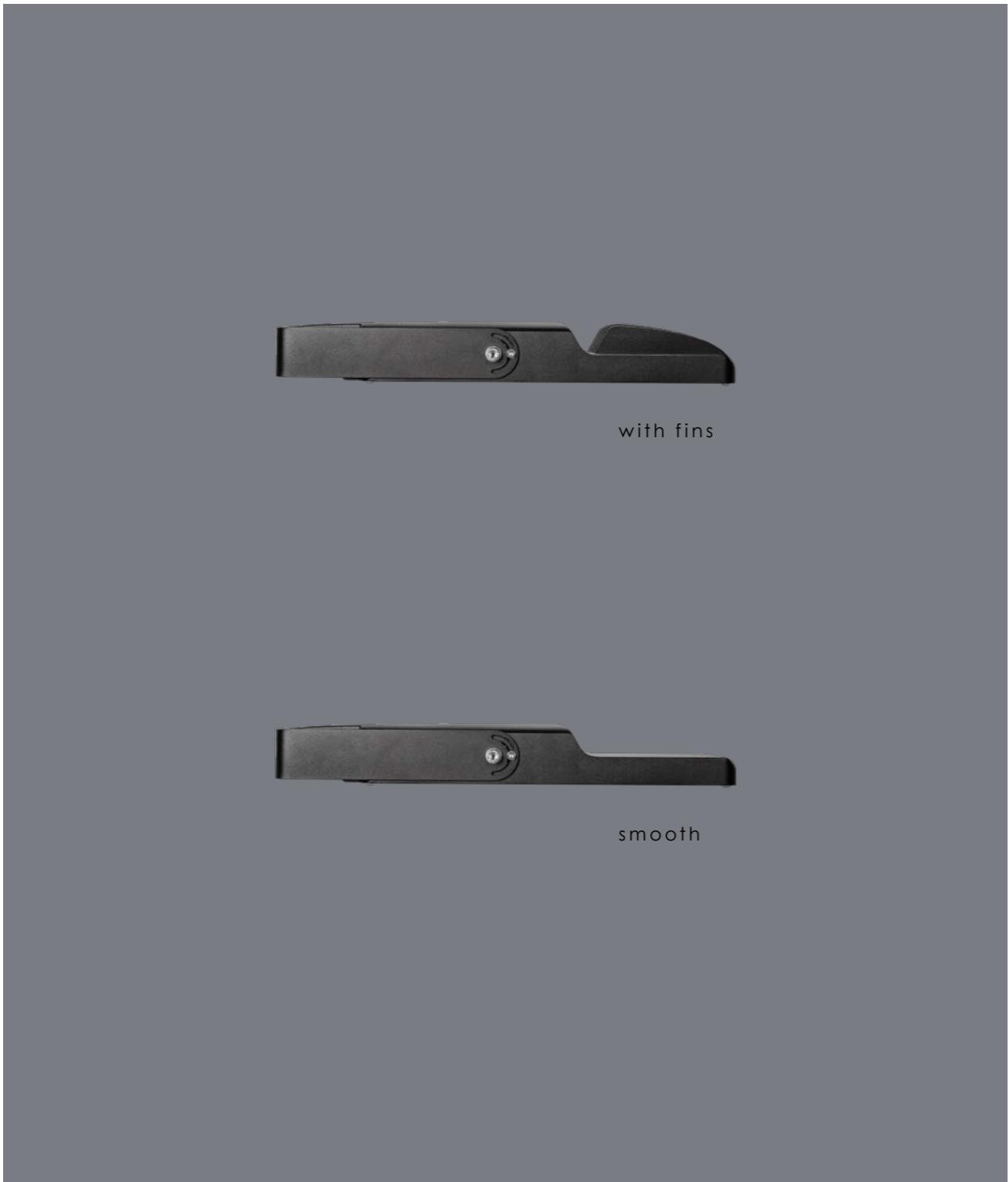


Bois-Guillaume | France

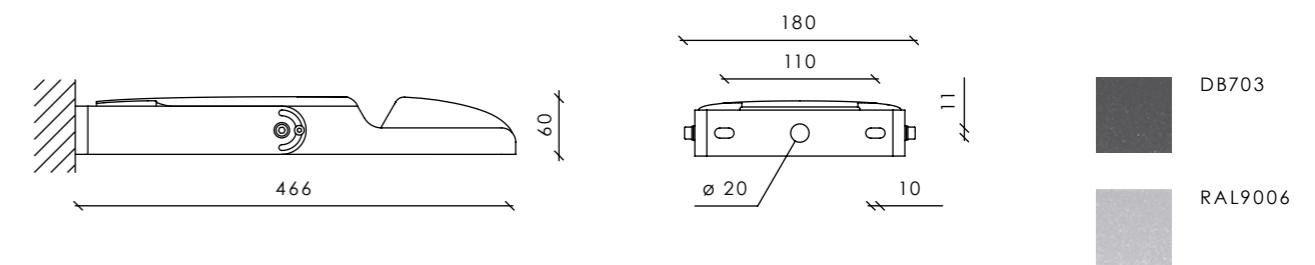


Lunel | France

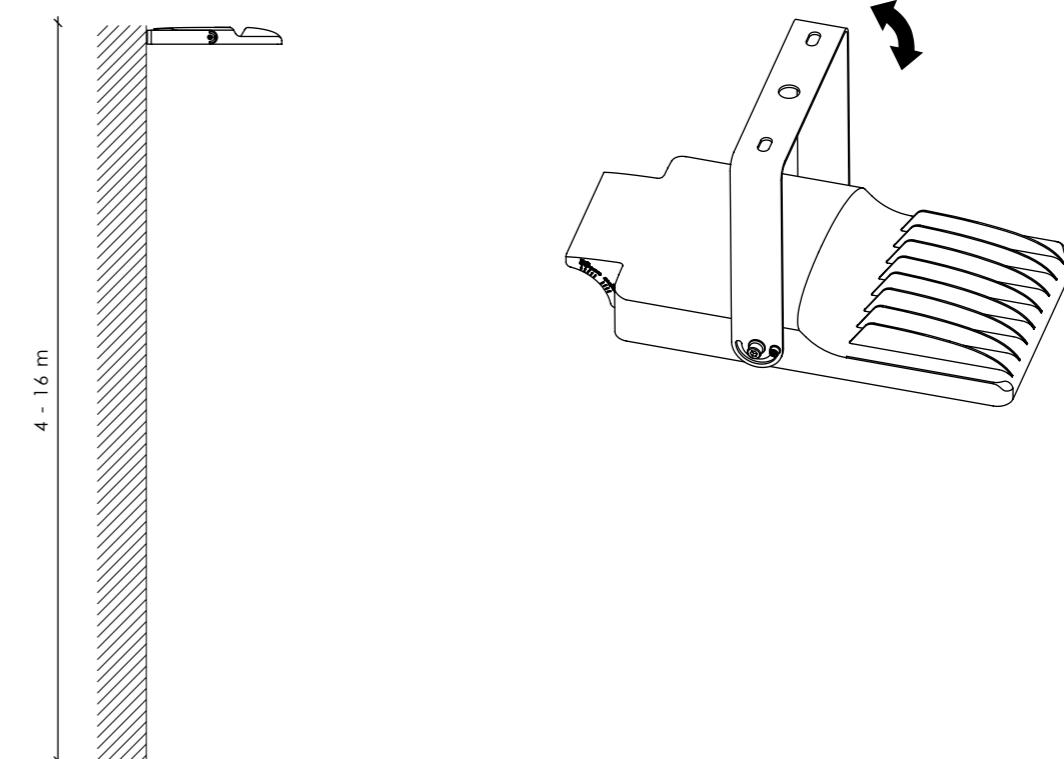
Micro martin floodlight



Micro martin floodlight with fins



Other colors
available on request



Technical information



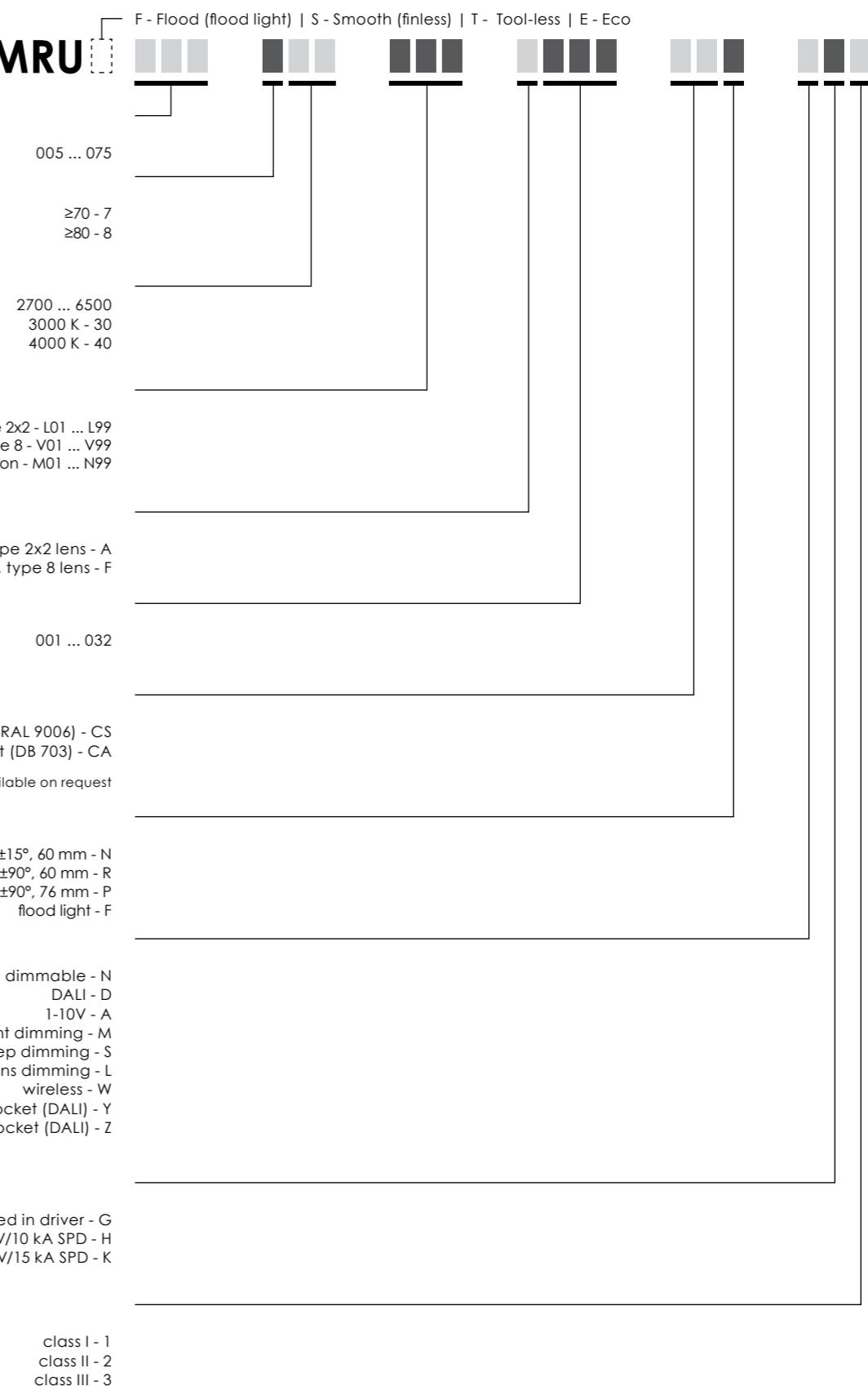
V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	5 - 75	Warranty 5 years
	5 - 50 ⁽¹⁾	100 000 h (L95B10C10) at Ta = 25 °C
lm	470 - 8875	
	470 - 6447 ⁽¹⁾	
lm/W	90 - 132	Surge protection: 6kV / separate built-in 10 kV
K	3000 / 4000	Body: Die-cast aluminum
°C	-40 to +50	
CRI	>70 / >80 ⁽²⁾	

⁽¹⁾ Smooth

⁽²⁾ Luminaires with color rendering (CRI): Ra >90 on request

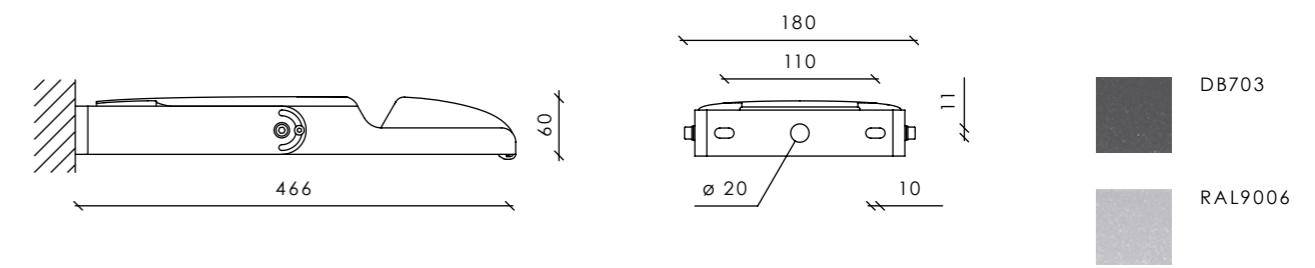
* Preliminary and will change according to testing results. Data may not be used for tenders or purchasing
Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes

Model name principles

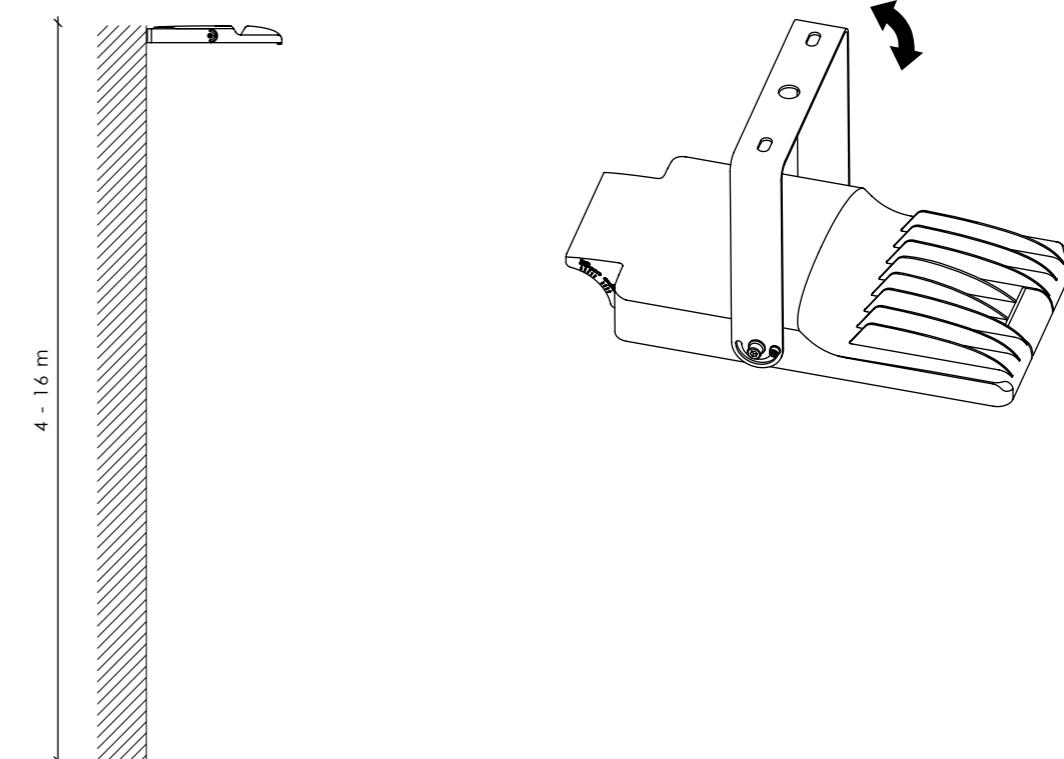


EXAMPLE MRUFE 050 740 L10 A016 CSF DG1

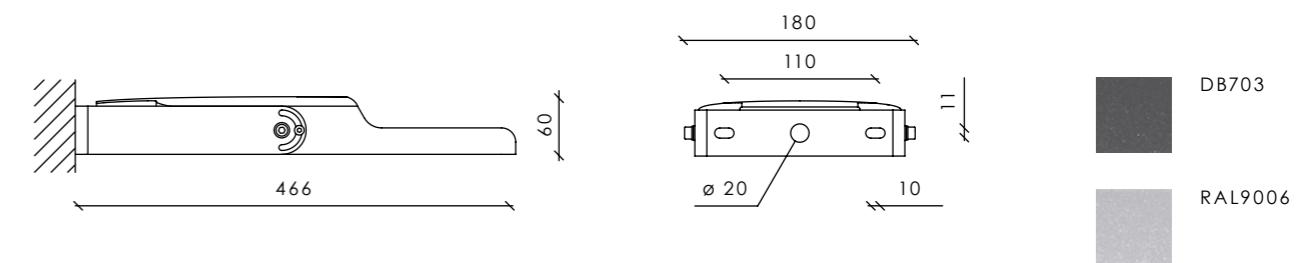
Micro martin floodlight tool-less



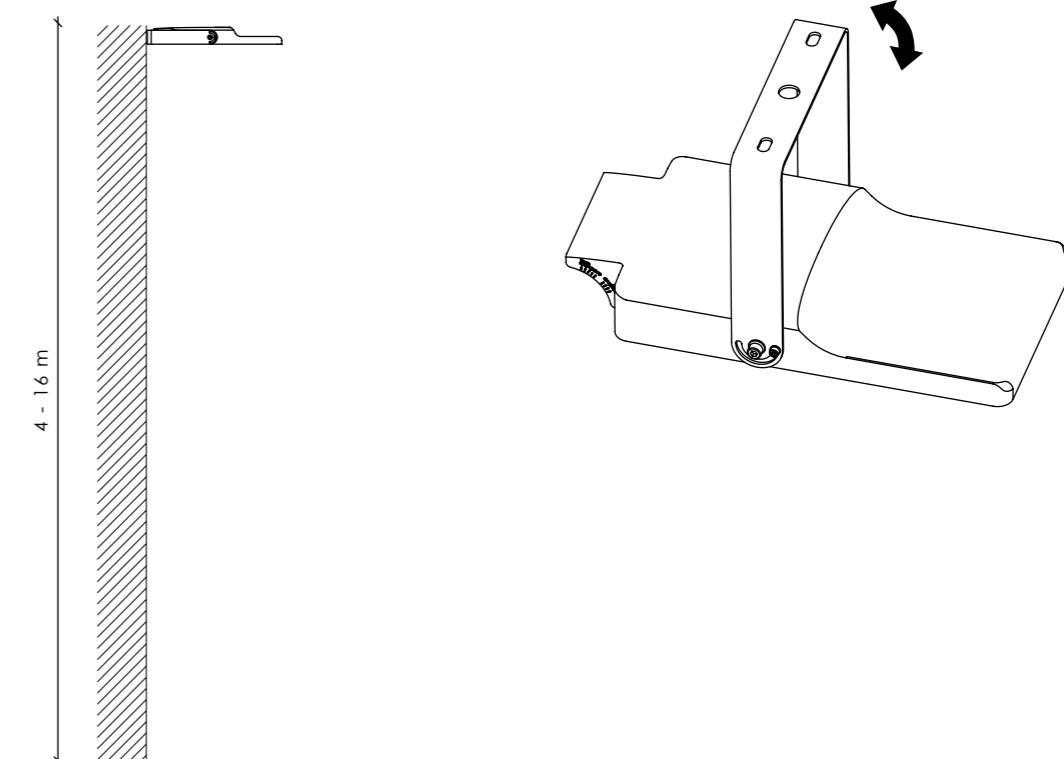
Other colors
available on request



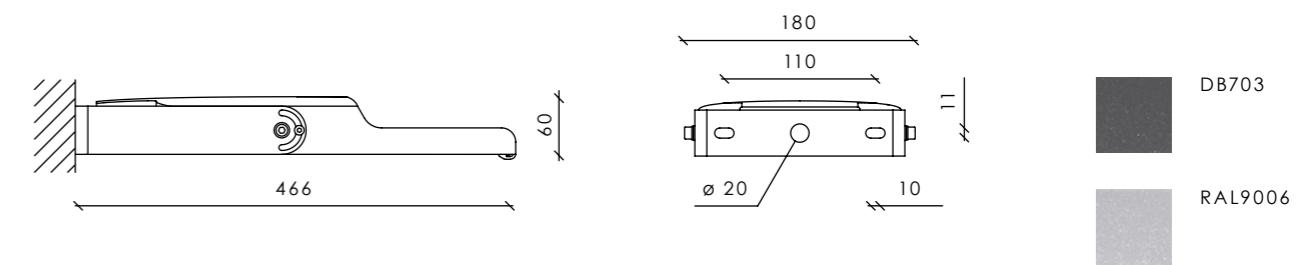
Micro martin floodlight smooth



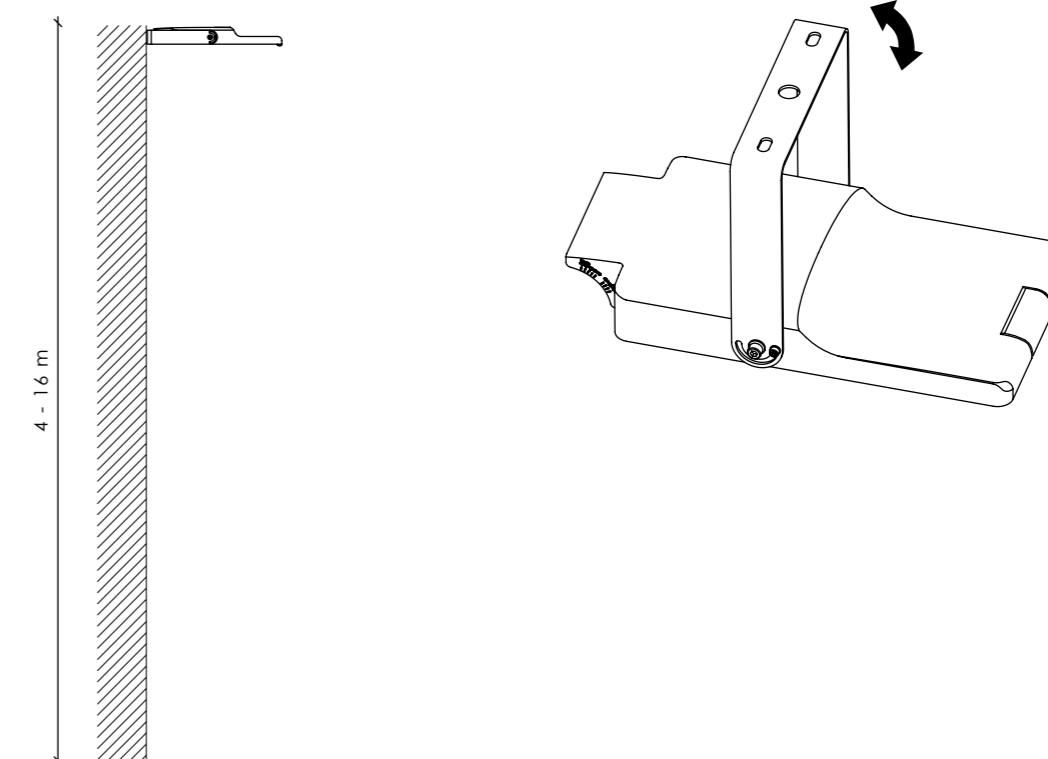
Other colors
available on request



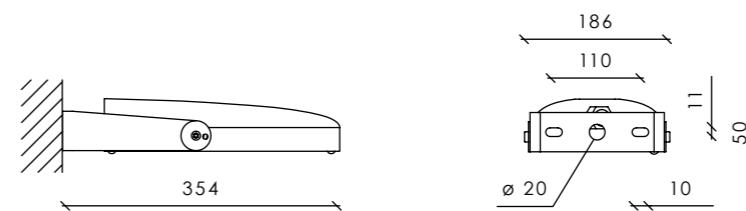
Micro martin floodlight tool-less smooth



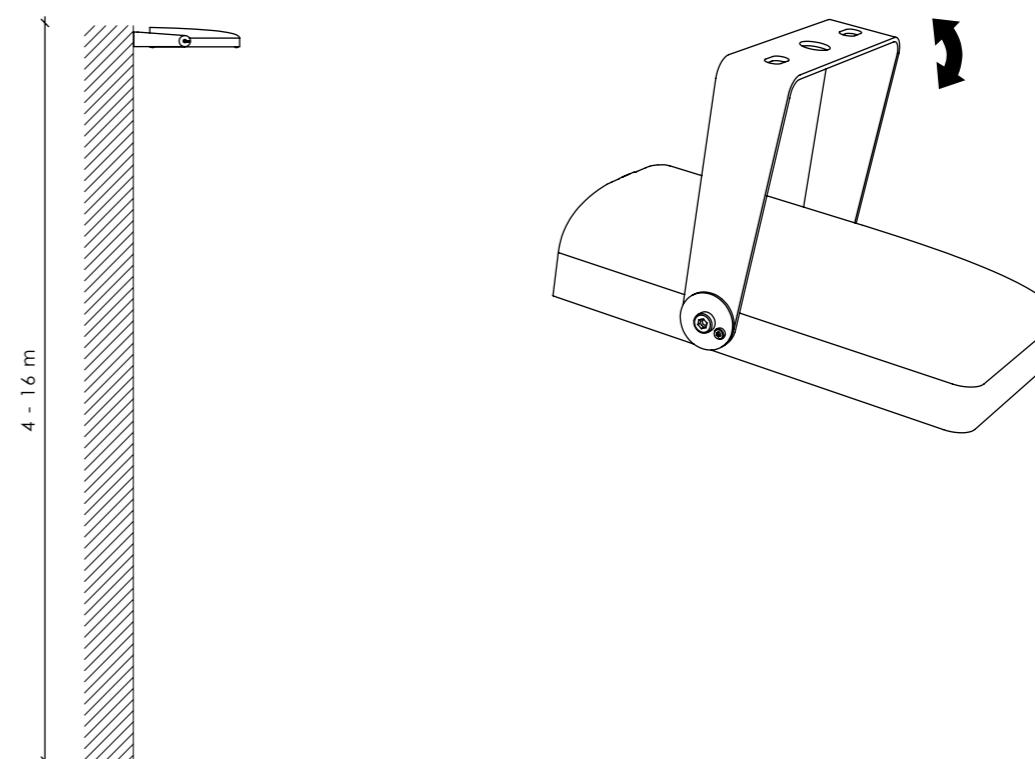
Other colors
available on request



Colibri floodlight



Other colors
available on request



Technical information



V	220 - 240
Hz	50 - 60
mA	up to 1000
W	5 - 35 ⁽¹⁾ 36 - 45 ⁽²⁾
lm	up to 5050
lm/W	up to 115
K	3000 / 4000 ⁽³⁾
°C	-40 ... +50 (standard)
CRI	>70 ⁽⁴⁾

Dimming: Non-dimmable ⁽⁵⁾
Surge protection: Min 4kV (standard) ⁽⁶⁾
Body: Die-cast aluminum

⁽¹⁾ -40 ... +50

⁽²⁾ -40 ... +35

⁽³⁾ Available on request

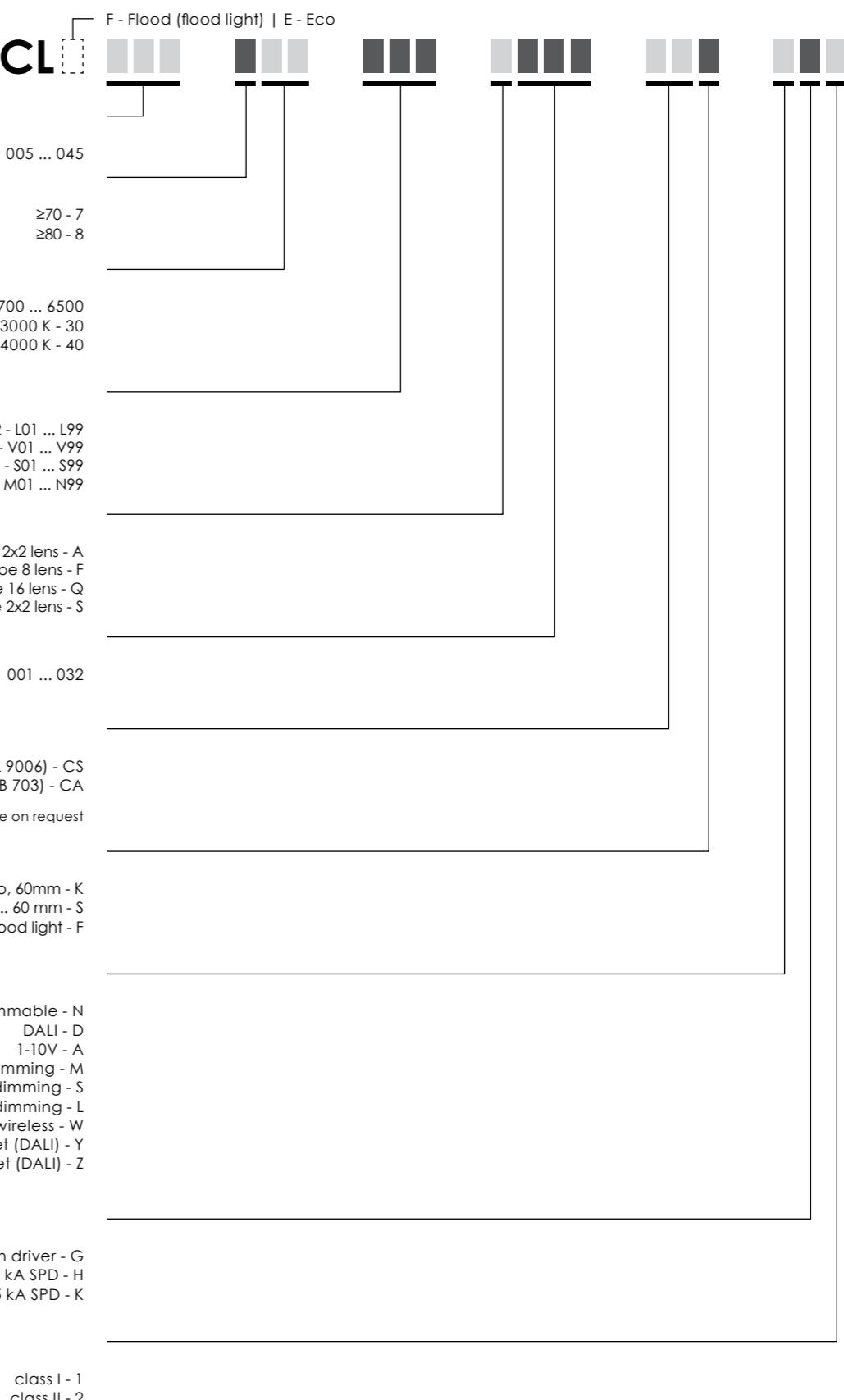
⁽⁴⁾ Color rendering index (CRI): Ra >80, Ra >90 is available according to special orders for extra price!

⁽⁵⁾ DALI, Midnight dimming (Optional) available for extra price!

⁽⁶⁾ 10 kV (L-N; L/N-PE) surge protection device available on request for extra price!

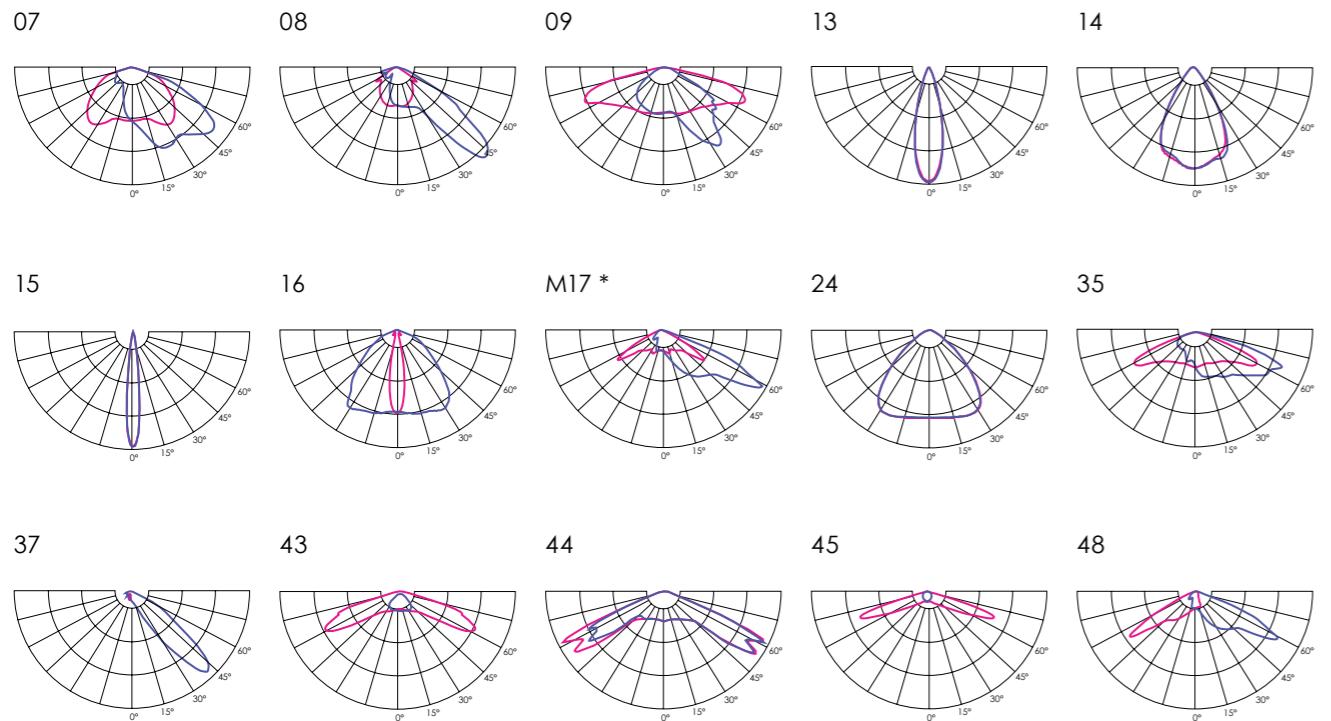
Min. One luminaire type order 130 pcs

Model name principles



Optics

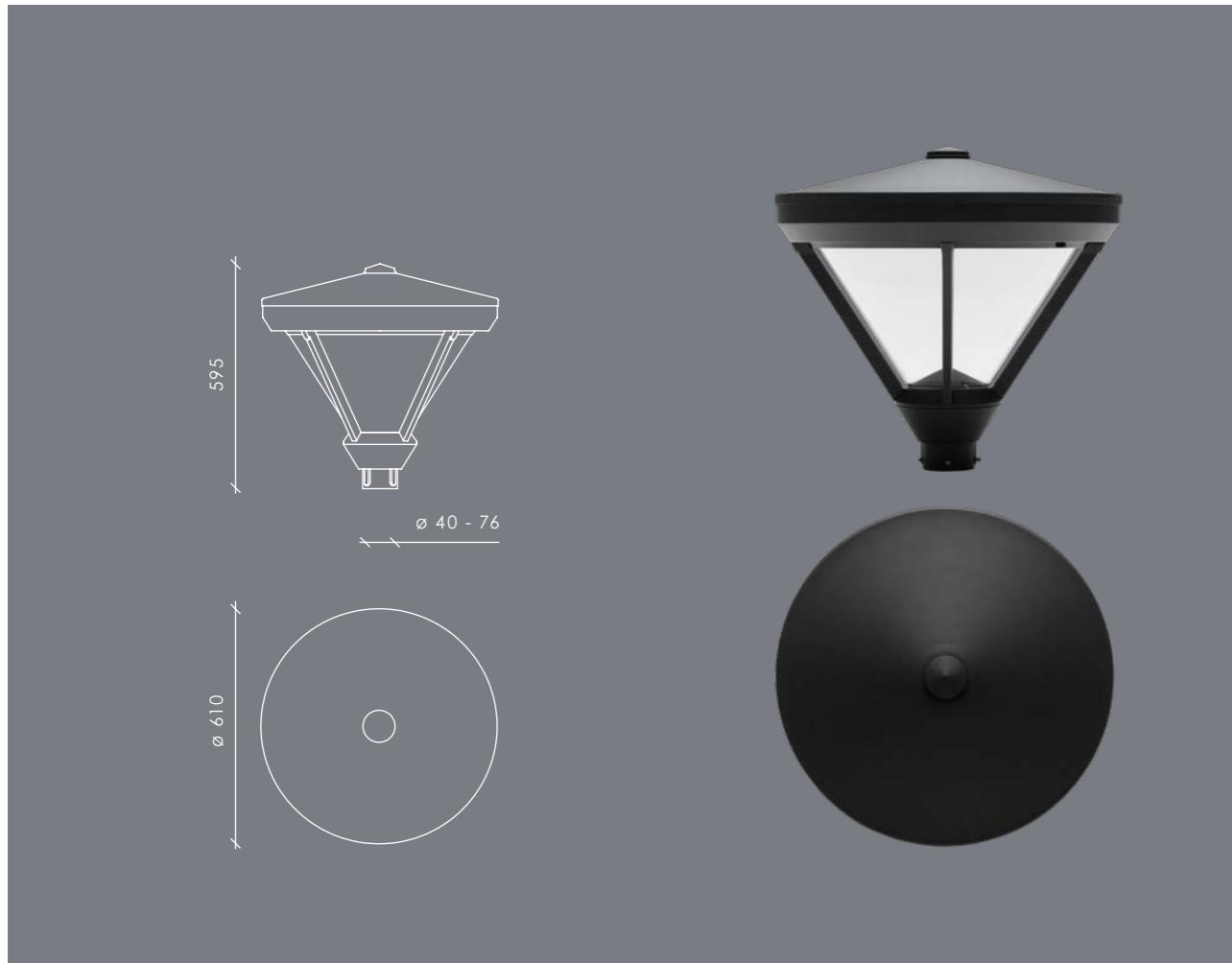
floodlight luminaires



* Only for Mustang



Owl
Vestmannaeyjum | Iceland



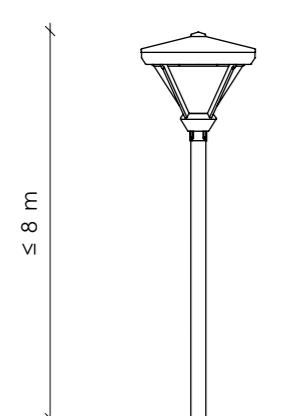
V 220 - 240
Hz 50 - 60
W 15 - 100
lm 1275 - 11280
lm/W 108 - 122
K 3000 / 4000
°C -40 to +40
CRI >70 / >80 ⁽¹⁾

1-10V; DALI; Midnight dimming
 Chromaticity tolerance (initial MacAdam): 5
 Warranty 5 years
 >70 000 h (L90B10) at Ta = 25 °C ⁽²⁾
 Surge protection: 6kV (L-N) and 10 kV
 (L/N -PE without DALI connection) ⁽³⁾
 Intelligent light control system: Radio frequency / Power line

⁽¹⁾ Luminaries with color rendering index (CRI): Ra >90 on request

⁽²⁾ This value is only informative and may change according to selected article

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



Standard modules 4000K

Number of LED's	16		32		48
Nominal current, mA	350	500	720	350	500
Power, W	18	26	37	37	49
Luminous Flux, lm	2030	2880	3980	4390	5740
Efficacy, lm/W	113	111	108	119	117
Power factor, PF	0,9	0,95	0,97	0,95	0,97
				0,97	0,96
				0,97	0,97



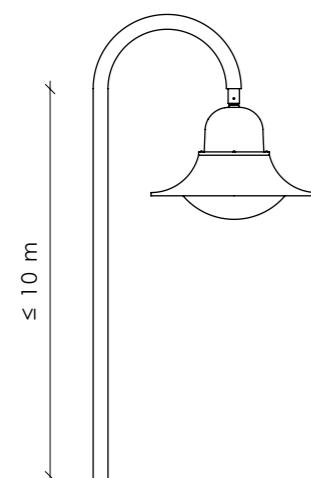
V 220 - 240
Hz 50 - 60
W 15 - 82
lm 1375 - 10780
lm/W 120 - 138
K 3000 / 4000
°C -40 to +40
CRI >70 / >80⁽¹⁾

1-10V; DALI; Midnight dimming
 Chromaticity tolerance (initial MacAdam): 5
 Warranty 5 years
 >70 000 h (L90B10) at Ta = 25 °C⁽²⁾
 Surge protection: 6kV (L-N) and 10 kV
 (L/N-PE without DALI connection)⁽³⁾
 Intelligent light control system: Radio frequency / Power line

⁽¹⁾ Luminaries with color rendering index (CRI): Ra >90 on request

⁽²⁾ This value is only informative and may change according to selected article

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



Standard modules 4000K

Number of LED's	16	32	48
Nominal current, mA	270	520	720
Power, W	15	27	37
Luminous Flux, lm	1910	3460	4600
Efficacy, lm/W	127	128	124
Power factor, PF	0,85	0,95	0,97
	0,95	0,97	0,97
	0,97	0,97	0,96
	0,97	0,97	0,98



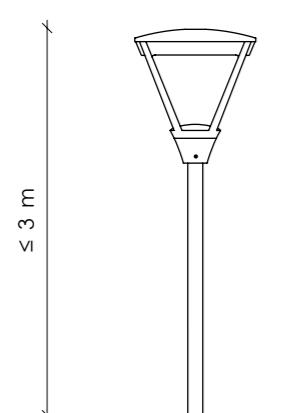
V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Chromaticity tolerance (initial MacAdam): 5
W	18 - 100	Warranty 5 years
lm	1625 - 10390 ⁽¹⁾	>70 000 h (L90B10) at Ta = 25 °C ⁽³⁾
lm/W	90 - 112 ⁽¹⁾	
K	3000 / 4000	
°C	-40 to +40	Surge protection: 6kV (L-N) and 10 kV
CRI	>70 / >80 ⁽²⁾	(L/N-PE without DALI connection) ⁽⁴⁾
		<i>Intelligent light control system:</i> Radio frequency / Power line

⁽¹⁾ Preliminary data

⁽²⁾ Luminaries with color rendering index (CRI): Ra >90 on request

⁽³⁾ This value is only informative and may change according to selected article

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



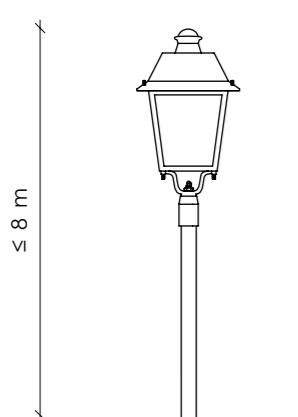
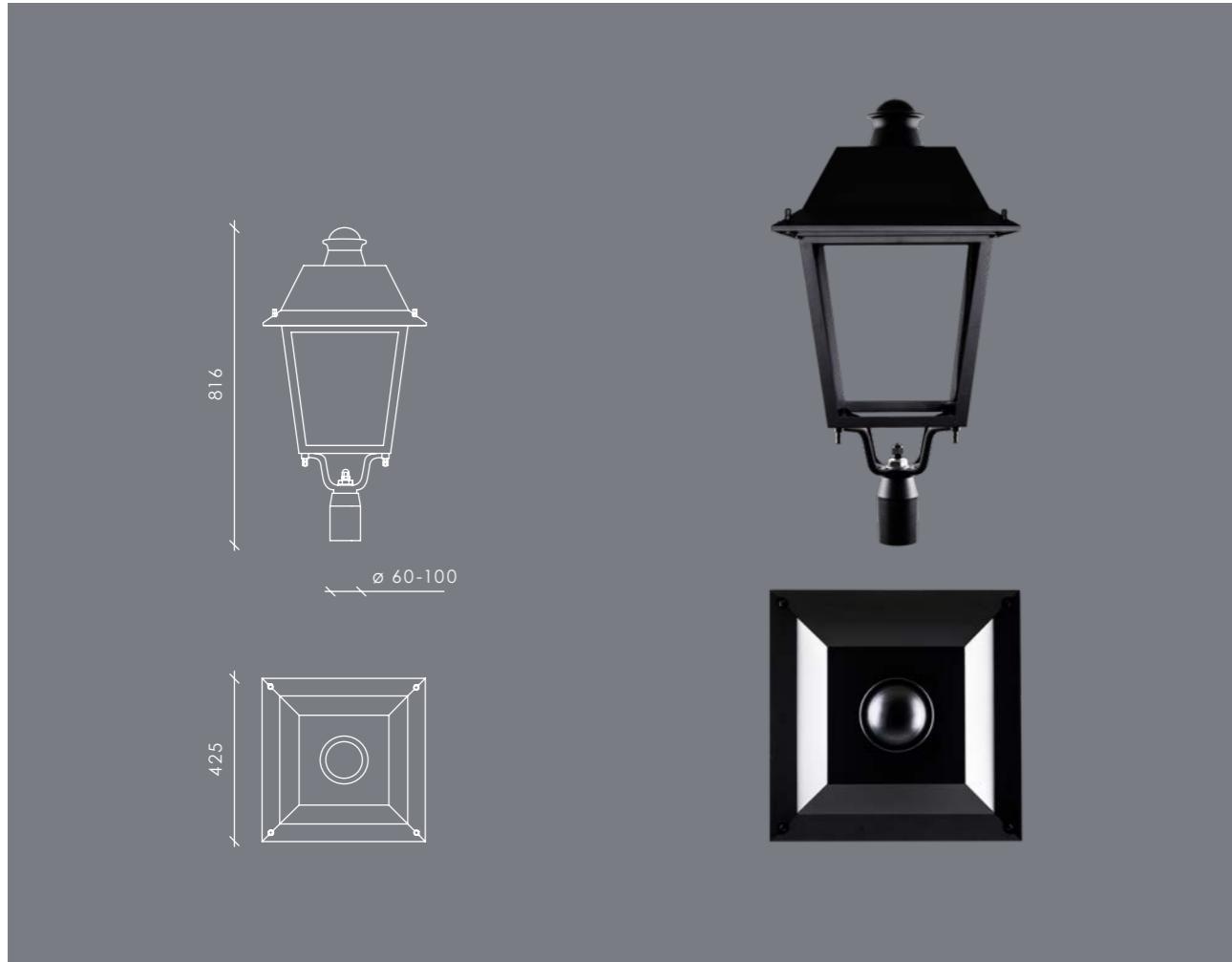
Standard modules
4000K

Number of LED's	16	32	48
Nominal current, mA	350	520	730
Power, W	15	27	37
Luminous Flux, lm	1540	2790	3740
Efficacy, lm/W	103	103	101
Power factor, PF	0,85	0,95	0,97
	0,95	0,97	0,97
	0,97	0,97	0,96
	0,97	0,97	0,98

Orris basic

Technical information

IP65 IK08 CE EAC RoHS



V	20 - 240
Hz	50 - 60
W	10 - 75
lm	960 - 8050
lm/W	95 - 112
K	3000 / 4000
°C	-40 to +40 ⁽¹⁾ -40 to +50 ⁽²⁾
CRI	>70 / >80 ⁽³⁾

1-10V; DALI; Midnight dimming
Chromaticity tolerance (initial MacAdam): 5
Warranty 5 years
100 000 h (L90B10) at Ta = 25 °C
Surge protection: 6kV (L-N) and 10 kV (L/N-PE without DALI connection) ⁽⁴⁾
Intelligent light control system: Radio frequency / Power line

⁽¹⁾ 10 - 75 W

⁽²⁾ 10 - 50 W

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

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

Standard modules

4000K

Number of LED's	8	16			
Nominal current, mA	330	500	700	350	500
Power, W	10	14	19	19	26
Luminous Flux, lm	990	1430	1930	2090	2880
Efficacy, lm/W	99	102	102	110	111
Power factor, PF	0,8	0,83	0,91	0,9	0,95

High Density modules

4000K

Number of LED's	16	32			
Nominal current, mA	330	500	700	350	500
Power, W	18	26	36	35	50
Luminous Flux, lm	2010	2890	3870	4190	5810
Efficacy, lm/W	112	111	108	120	116
Power factor, PF	0,8	0,83	0,91	0,9	0,95



V 220 - 240
Hz 50 - 60
W 15 - 70
lm 1540 - 7780 ⁽¹⁾
lm/W 101 - 118 ⁽¹⁾
K 3000 / 4000
°C -40 to +40
CRI >70 / >80 ⁽²⁾

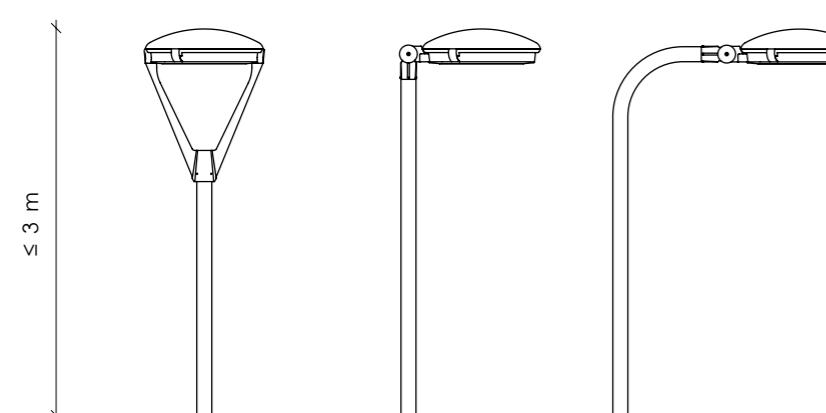
1-10V; DALI; Midnight dimming
 Chromaticity tolerance (initial MacAdam): 5
 Warranty 5 years
 >70 000 h (L90B10) at Ta = 25 °C ⁽³⁾
 Surge protection: 6kV (L-N) and 10 kV
 (L/N -PE without DALI connection) ⁽⁴⁾
 Intelligent light control system: Radio frequency / Power line

⁽¹⁾ Preliminary data

⁽²⁾ Luminaires with color rendering index (CRI): Ra >90 on request

⁽³⁾ This value is only informative and may change according to selected article

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



Standard modules
4000K

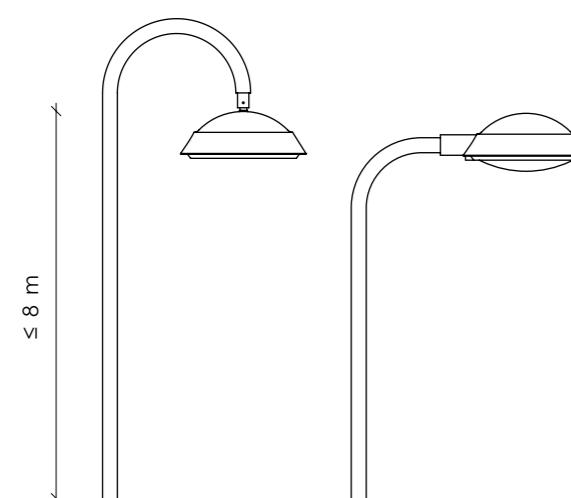
Number of LED's	16	32				
Nominal current, mA	270	520	730	370	510	700
Power, W	15	27	37	37	50	70
Luminous Flux, lm	1640	2980	4010	4380	5830	7780
Efficacy, lm/W	109	110	108	118	117	111
Power factor, PF	0,85	0,95	0,97	0,95	0,97	0,97



V 220 - 240
Hz 50 - 60
W 15 - 70
lm 1820 - 8600
lm/W 121 - 131
K 3000 / 4000
°C -40 to +40
CRI >70 / >80 ⁽¹⁾

1-10V; DALI; Midnight dimming
 Chromaticity tolerance (initial MacAdam): 5
 Warranty 5 years
 >70 000 h (L90B10) at Ta = 25 °C ⁽²⁾
 Surge protection: 6kV (L-N) and 10 kV
 (L/N -PE without DALI connection) ⁽³⁾
 Intelligent light control system: Radio frequency

⁽¹⁾ Luminaries with color rendering index (CRI): Ra >90 on request
⁽²⁾ This value is only informative and may change according to selected article
⁽³⁾ 10 kV (L-N; L/N-PE) surge protection device available on request



Standard modules
4000K

Number of LED's	16	32			
Nominal current, mA	270	520	730	370	520
Power, W	15	27	37	37	51
Luminous Flux, lm	1820	3300	4430	4840	6560
Efficacy, lm/W	121	122	120	131	129
Power factor, PF	0,85	0,95	0,97	0,95	0,97

Acorn deco

Technical information

IP54 IK08 CE RoHS



V	220 - 240
Hz	50 - 60
W	18 - 75
lm	1970 - 9440
lm/W	120 - 135
K	3000 / 4000 ⁽¹⁾
°C	-40 to +40
CRI	>70 / >80 ⁽²⁾

1-10V; DALI; Midnight dimming
Chromaticity tolerance (initial MacAdam): 5
Warranty 5 years
100 000 h (L90B10) at Ta = 25 °C ⁽³⁾

Surge protection: 6kV (L-N) and 10 kV
(L/N -PE without DALI connection) ⁽⁴⁾
Intelligent light control system: Radio frequency ⁽⁵⁾

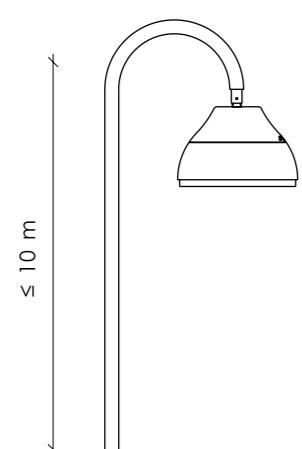
(1) 5000; 5700 K available on request

(2) Luminaires with color rendering index (CRI): Ra >90 on request

(3) at Ta=25°, this value is only informative and may change according to selected article.

(4) 10 kV (L-N; L/N-PE) surge protection device available on request

(5) Optional. Available only with DALI ; 1 - 10 V

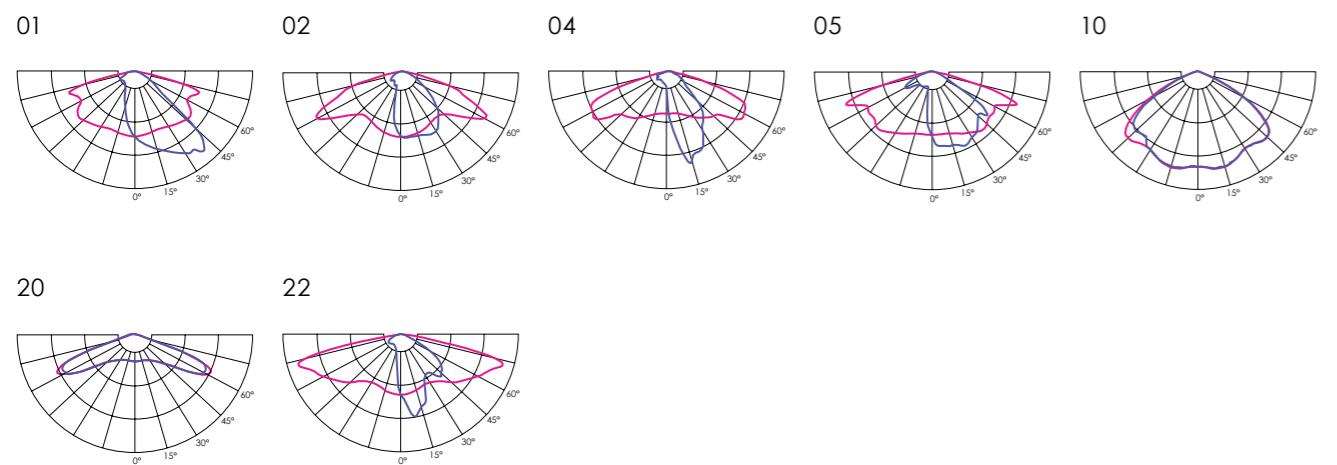


Standard modules 4000K

Number of LED's	16	36				
Nominal current, mA	350	500	700	350	500	700
Power, W	18	26	35	39	55	75
Luminous Flux, lm	2260	3230	4280	5260	7240	9440
Efficacy, lm/W	126	124	122	135	132	126
Power factor, PF	0,9	0,95	0,97	0,95	0,98	0,98

Optics

park & old town luminaires



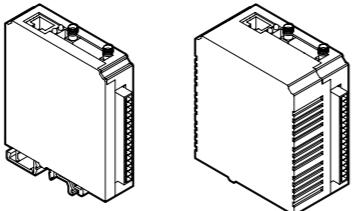
Crocus
Akureyri | Iceland

Accessories

Citintelly Segment controller

Segment Controller receives commands from Citintelly server via G\$M and transmits tasks to Luminaire Controller via radio frequency communication.

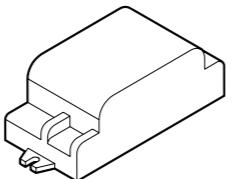
Art. 70010004



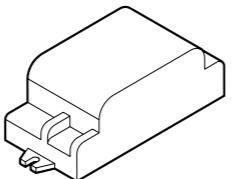
Citintelly Luminaire controller

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



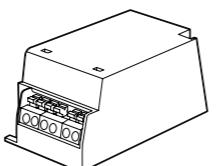
Art. 70010002 /
LC2M-12-05-R Luminaire
Controller - 1 relay



Citintelly Surge Protection device

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



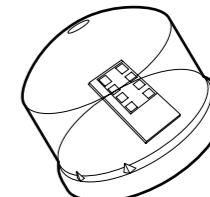
MSLC205RG Luminaire controller + radar, Zhaga, 80mm

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

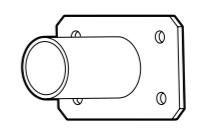
Art. 70010029



Wall mounting bracket

Spigot size 40 - 60 mm

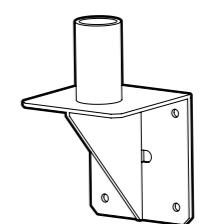
Art. 70044001



Wall mounting bracket

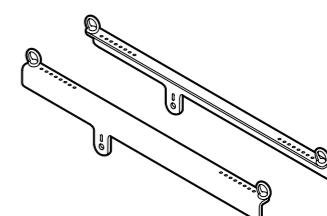
Vertical

Art. 70044004



High Bay Suspension brackets

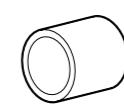
Art. 70000101



Console adapter

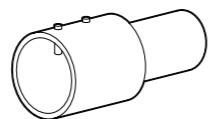
40mm to 30mm

Art. 70055002



Console adapter
Spigot size 60 - 76mm

Art. 70044002



Console

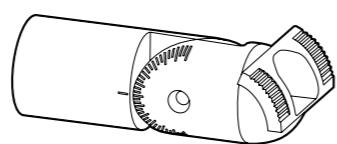
Art. 70054001



Adjustable Console ±90°

60 mm - Mini Martin / Micro Martin

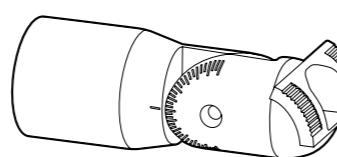
Art. 70055005



Adjustable Console ±90°

76 mm - Mini Martin / Micro Martin

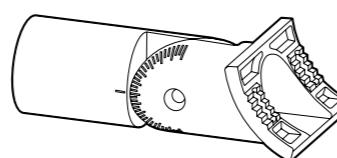
Art. 70055006



Adjustable Console ±90°

60 mm - Mini Martin / Micro Martin

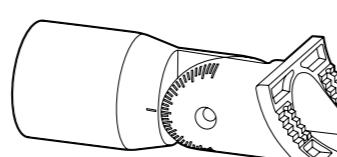
Art. 70044012



Adjustable Console ±90°

76 mm - Mini Martin / Micro Martin

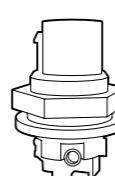
Art. 70044013



Device connector

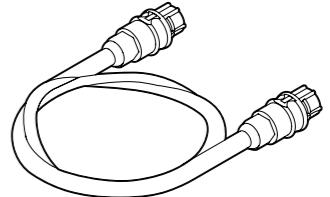
Device connectors, standard M25, RST20i5, 5 pole,
male, screw connection
250/400V, 20A

Art. 70000315



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

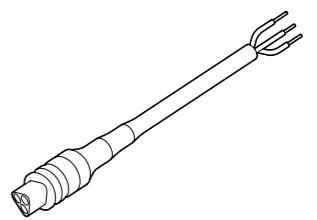
0,5 m long cable.....	Art. 70000436
5 m long cable.....	Art. 70000437
6 m long cable.....	Art. 70000438
8 m long cable.....	Art. 70000439
10 m long cable.....	Art. 70000440
12 m long cable.....	Art. 70000441
18 m long cable.....	Art. 70000442
20 m long cable.....	Art. 70000443
22 m long cable.....	Art.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



Connection cable

Art. 70000363

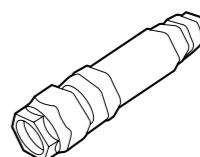
Male - free end, length 1m, RST20i3, 3 pole, 250V, 16A,
cable type H05VV, cross section 1,5mm²



Connector

Art. 70000313

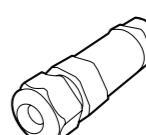
IP66 rated connector offers easy installation of
the street luminaires.
3 wire cable connector



Connector

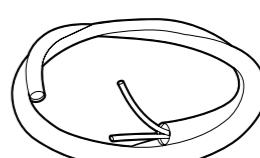
Art. 70000304

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



Pre-installed cable sets

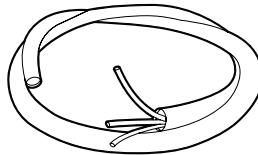
For internal power supply:	
2 x 1,5mm - 0,5m long cable.....	Art. 70000418
2 x 1,5mm - 5m long cable.....	Art. 70000342
2 x 1,5mm - 6m long cable.....	Art. 70000337
2 x 1,5mm - 8m long cable.....	Art. 70000344
2 x 1,5mm - 10m long cable.....	Art. 70000338
2 x 1,5mm - 12m long cable.....	Art. 70000345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



Pre-installed cable sets

For internal power supply:

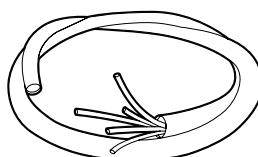
3 x 1,5 mm - 0,5 m long cable.....	Art. 70000319
3 x 1,5 mm - 5 m long cable.....	Art. 70000320
3 x 1,5 mm - 6 m long cable.....	Art. 70000321
3 x 1,5 mm - 8 m long cable.....	Art. 70000322
3 x 1,5 mm - 10 m long cable.....	Art. 70000323
3 x 1,5 mm - 12 m long cable.....	Art. 70000324
3 x 1,5 mm - 18 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



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