



**2019
OUTDOOR**

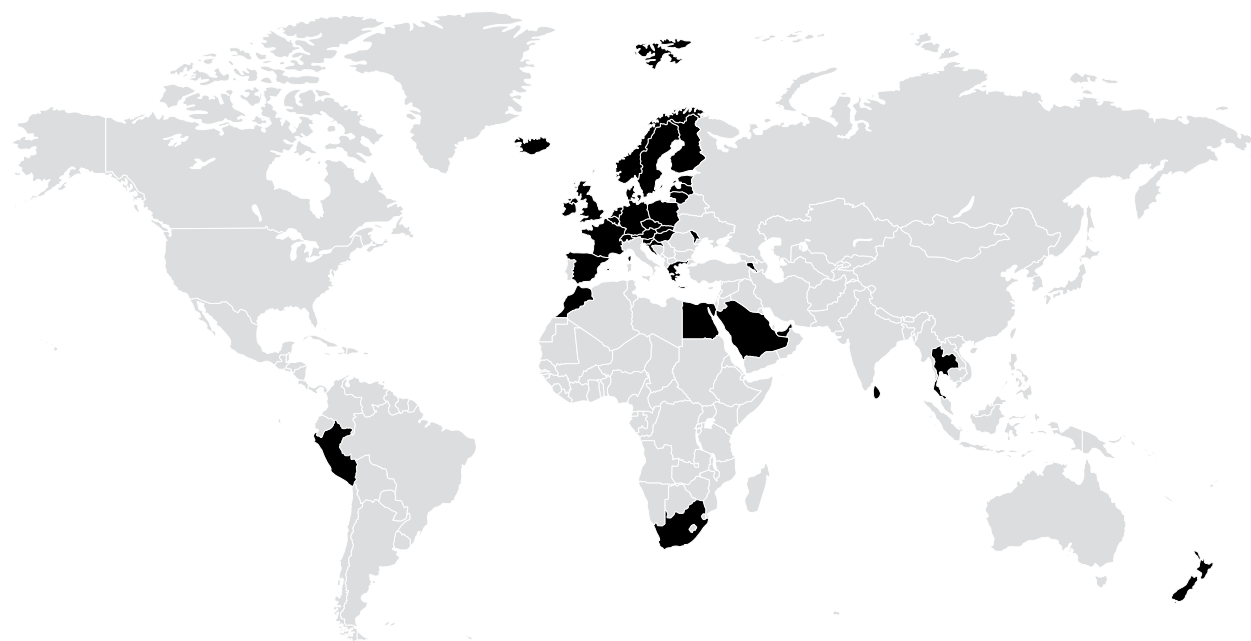
vizULO



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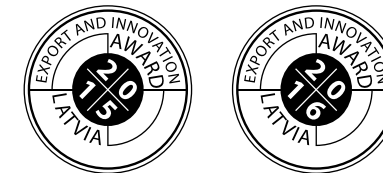
About



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 90 people working today in VIZULO group and our lighting products are exported to 34 countries all over the world.

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

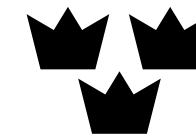
| LIAA 2015 & LIAA 2016



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.

| RED JACKETS



"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.

| Certificates



ISO 45001, ISO 50001 coming soon

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.



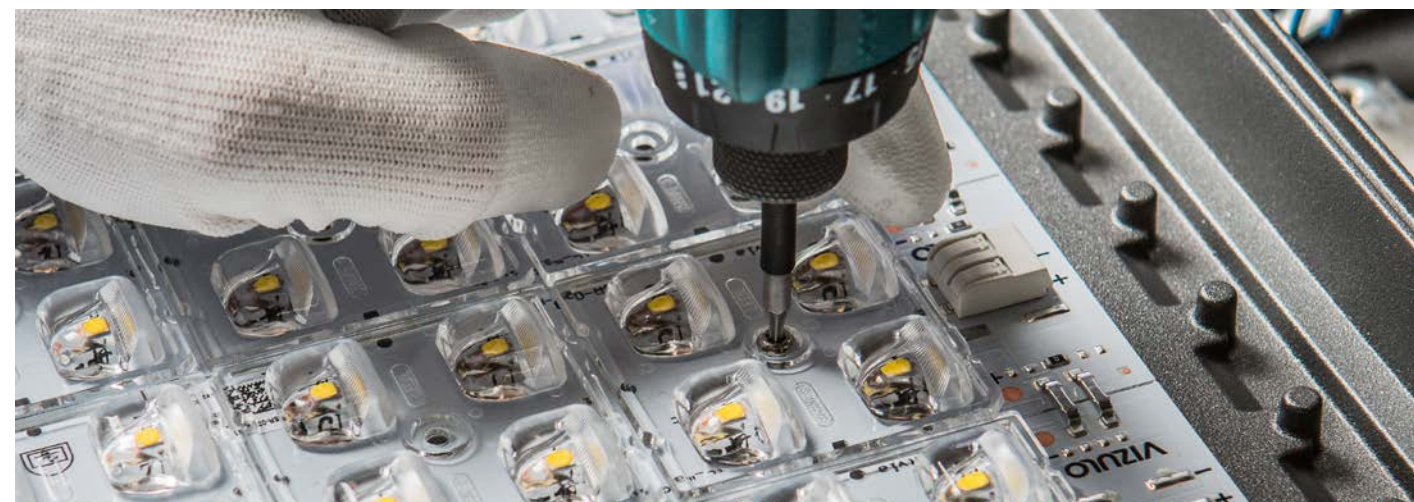
| High speed powder coating line



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 bi-directional 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

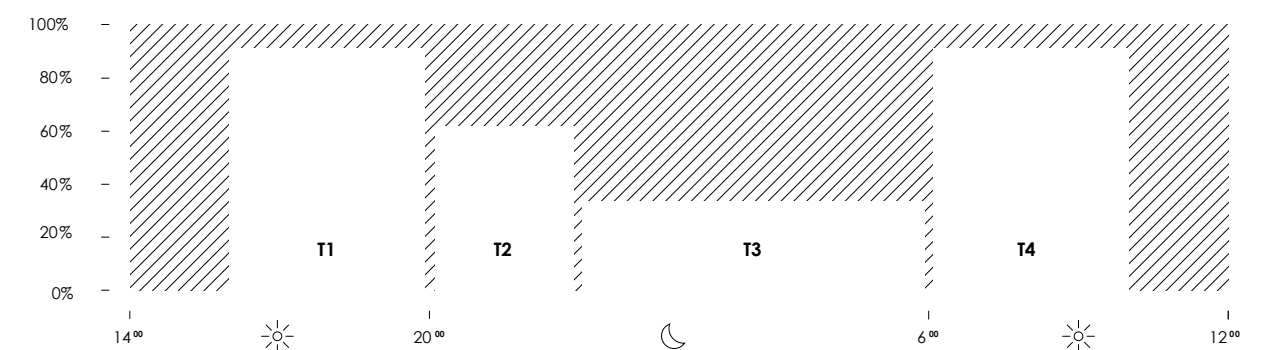
Analog signal interface with no feedback from driver. For this dimming interface 100% is the maximum of driver and 10% is the minimum level. The output status is not guaranteed when the dimming signal is less than 1V. The output of LED driver could be completely switched off or there is still some light 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.

1 - 10 V

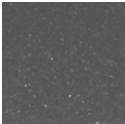
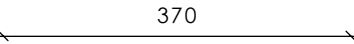
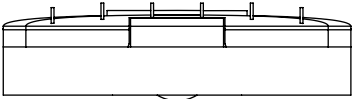
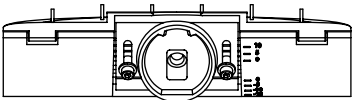
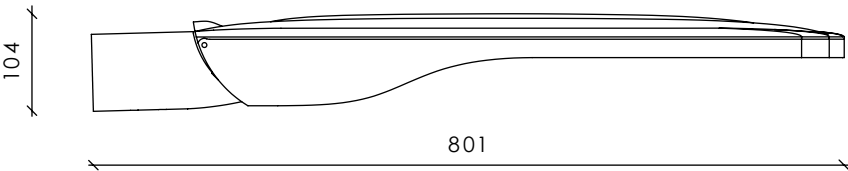
Analog signal interface with no feedback from driver. For this dimming interface 100% is the maximum of driver and 10% is the minimum level. The output status is not guaranteed when the dimming signal is less than 1V. The output of LED driver could be completely switched off or there is still some light 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

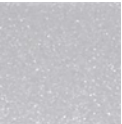
Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which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



STORK

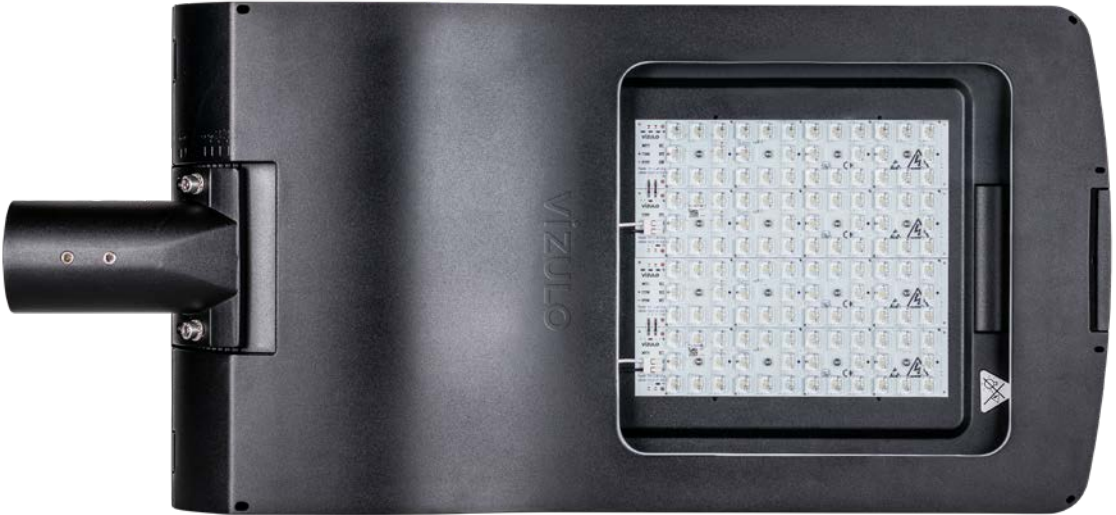


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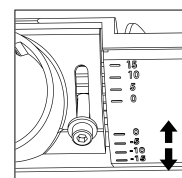
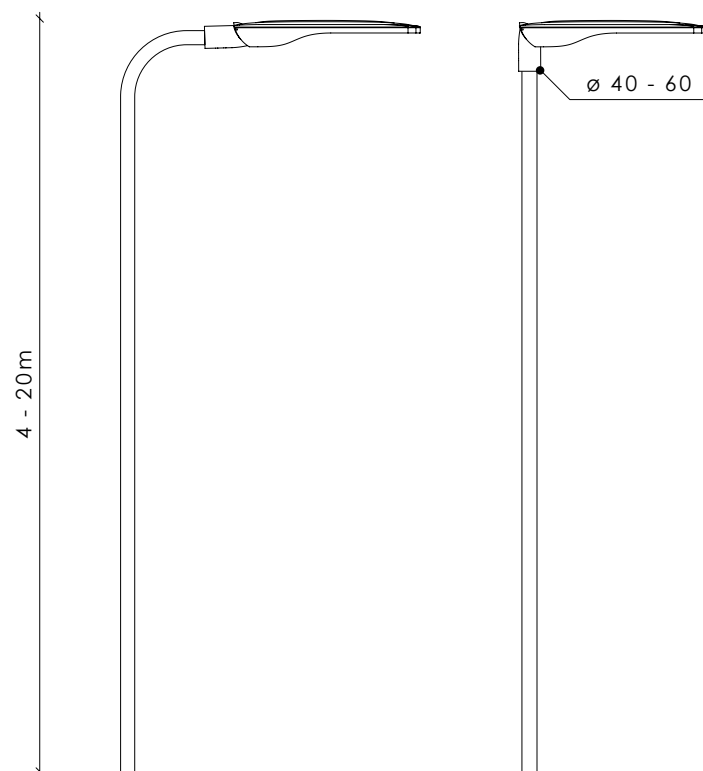


RAL9006

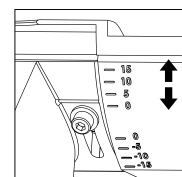
OTHER COLORS AVAILABLE ON REQUEST



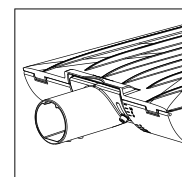
Console



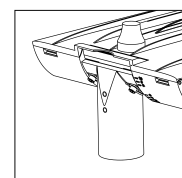
≤ 0 ... 15



≤ -15 ... 0



Horizontal
entry



Vertical
entry

Technical information

V 220 - 240
Hz 50 - 60
W 18 - 280
lm 2300 - 34660
lm/W 124 - 142
K 3000 / 4000 ⁽¹⁾
°C -40 to +50 ⁽²⁾
CRI >70 / >80 ⁽³⁾

1-10V; DALI; Midnight dimming
 Radio frequency / Power line ⁽⁴⁾
 Body: Die-cast aluminum
 Spigot: Ø 40-60, with accessories Ø 32; Ø 76
 Neto weight: 12 - 13,40 kg
 1-10V, DALI, Midnight dimming
 3; 6; 10 kV (optional) ⁽⁵⁾
 Warranty 5 years
 80 000 h (L80B10C10) ⁽⁶⁾
 100 000 h (L70B10C10) ⁽⁶⁾
 100 000 h (L95B10C10) ⁽⁷⁾
 150 000 h (L90B10C10) ^(7,8)
 Max.wind load area, SCd, m²: 0,047



EAC

ENEC05

RoHS

IP66

IK09

- 1** 5000; 5700 K available on request
- 2** 200 - 280 W at Ta = -40°C ... +40°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** ECO
at Ta=25°C, this value is only informative and may change according to selected article
- 7** Standard / High Power / High Density
at Ta=25°C, this value is only informative and may change according to selected article
- 8** Standard / High Power / High Density
150 000 h for LED's only, drivers 100 000 h

Standard modules

4000K

Number of LED's	16			32			48			64		
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

Number of LED's	32			64			80		
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

Number of LED's	96			128		
Nominal current, mA	350	520	700	350	500	730
Power, W	106	150	205	135	190	280
Luminous Flux, lm	14760	20110	26430	18990	25850	34660
Efficacy, lm/W	139	134	129	141	136	124
Power factor, PF	0,96	0,98	0,98	0,93	0,96	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

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

High power modules

4000K

Number of LED's	78			84			108		
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	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

Only with optic 01 / 02 / 03

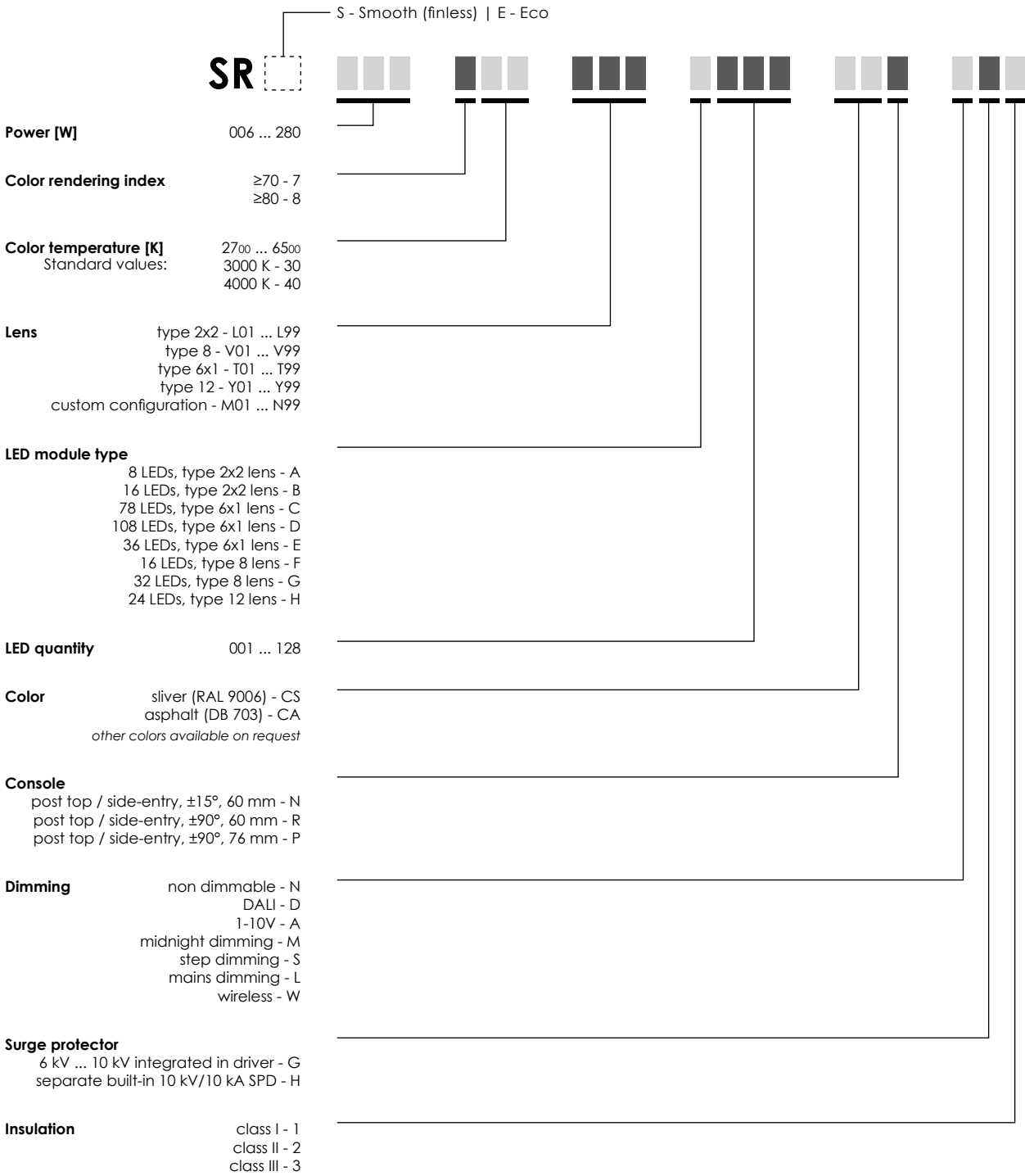
ECO

4000K

Number of LED's	16			32			48				64		
Nominal current, mA	350	500	700	350	500	700	350	500	560	700	350	500	700
Power, W	37	52	75	71	101	147	103	149	168	220	137	200	280
Luminous Flux, lm*	5161	6873	9064	10400	13650	17900	15200	20200	21689	26631	19453	25982	32786
Efficacy, lm/W	139	132	121	146	135	122	148	136	129	121	142	130	117
Power factor, PF	0,85	0,9	0,91	0,94	0,97	0,98	0,97	0,98	0,99	0,98	0,94	0,97	0,98

* Preliminary data

| Model name principles

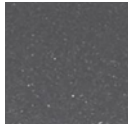
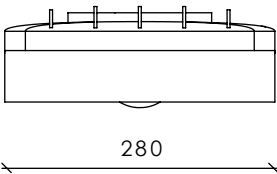
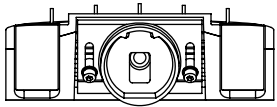
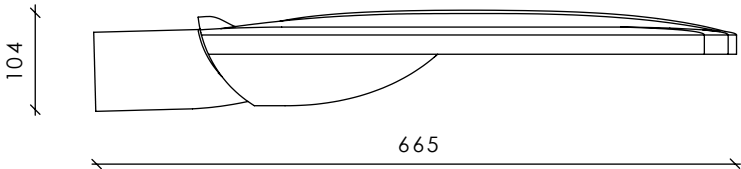


EXAMPLE SR 006 730 L99 A128 CSN NG1



Riga | Latvia

STORK Little Brother

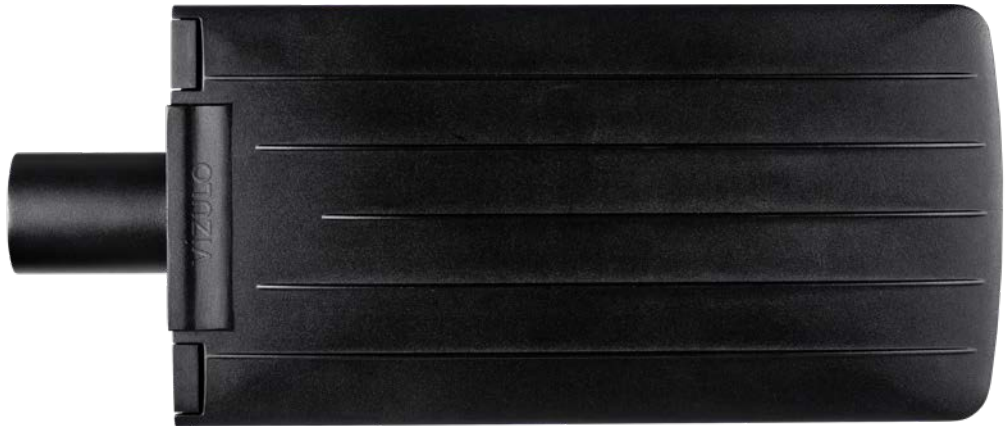
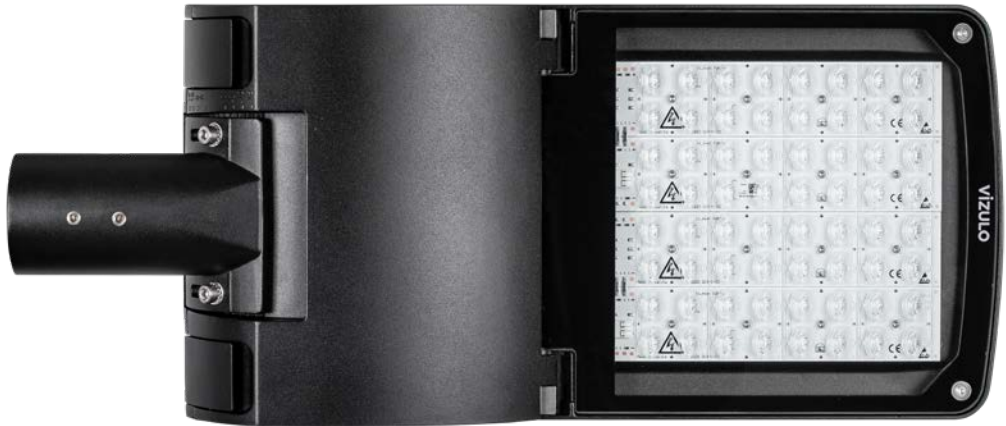


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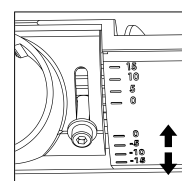
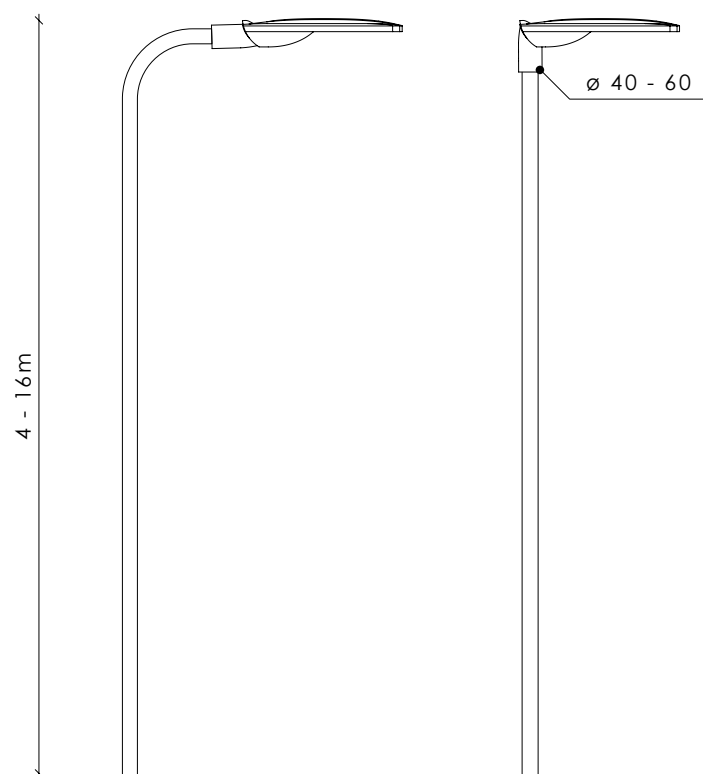


RAL9006

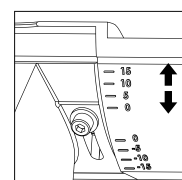
OTHER COLORS AVAILABLE ON REQUEST



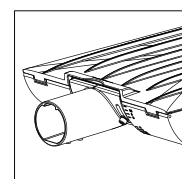
Console



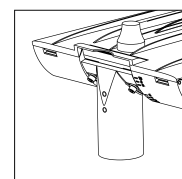
≤ 0 ... 15



≤ -15 ... 0



Horizontal
entry



Vertical
entry

Technical information

V 220 - 240
Hz 50 - 60
W 18 - 170
lm 2110 - 21148
lm/W 112 - 148
K 3000 / 4000 ⁽¹⁾
°C -40 to +50
CRI >70 / >80 ⁽³⁾

1-10V; DALI; Midnight dimming
Radio frequency / Power line ⁽³⁾
Body: Die-cast aluminum
Spigot: Ø 40-60, with accessories Ø 32; Ø 76
Neto weight: 8,45 - 9,05 kg
3; 6; 10 kV (optional) ⁽⁴⁾
Warranty 5 years
80 000 h (L80B10C10) ⁽⁵⁾
100 000 h (L70B10C10) ⁽⁵⁾
100 000 h (L95B10C10) ⁽⁶⁾
150 000 h (L90B10C10) ^(6,7)
Max.wind load area, SCd, m²: 0,041



EAC

ENEC05

RoHS

IP66

IK09

- 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** ECO
at Ta=25°C, this value is only informative and may change according to selected article
- 6** Standard / High Density
at Ta=25°C, this value is only informative and may change according to selected article
- 7** Standard / High Density
150 000 h for LED's only, drivers 100 000 h

Standard modules

4000K

Number of LED's	16			32			48			64		
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

High density modules

4000K

Number of LED's	32			64			80		
Nominal current, mA	350	500	700	350	500	700	350	500	700
Power, W	37	48	68	69	97	137	89	123	170
Luminous Flux, lm	4867	6184	8691	9513	12799	17297	12002	16003	21148
Efficacy, lm/W	132	129	128	138	132	126	135	130	124
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 - 170 W	4725 - 20443 lm	128 - 120 lm/W
	4000 K	37 - 170 W	4888 - 21148 lm	132 - 124 lm/W
	5000 K	37 - 170 W	5051 - 21853 lm	137 - 129 lm/W

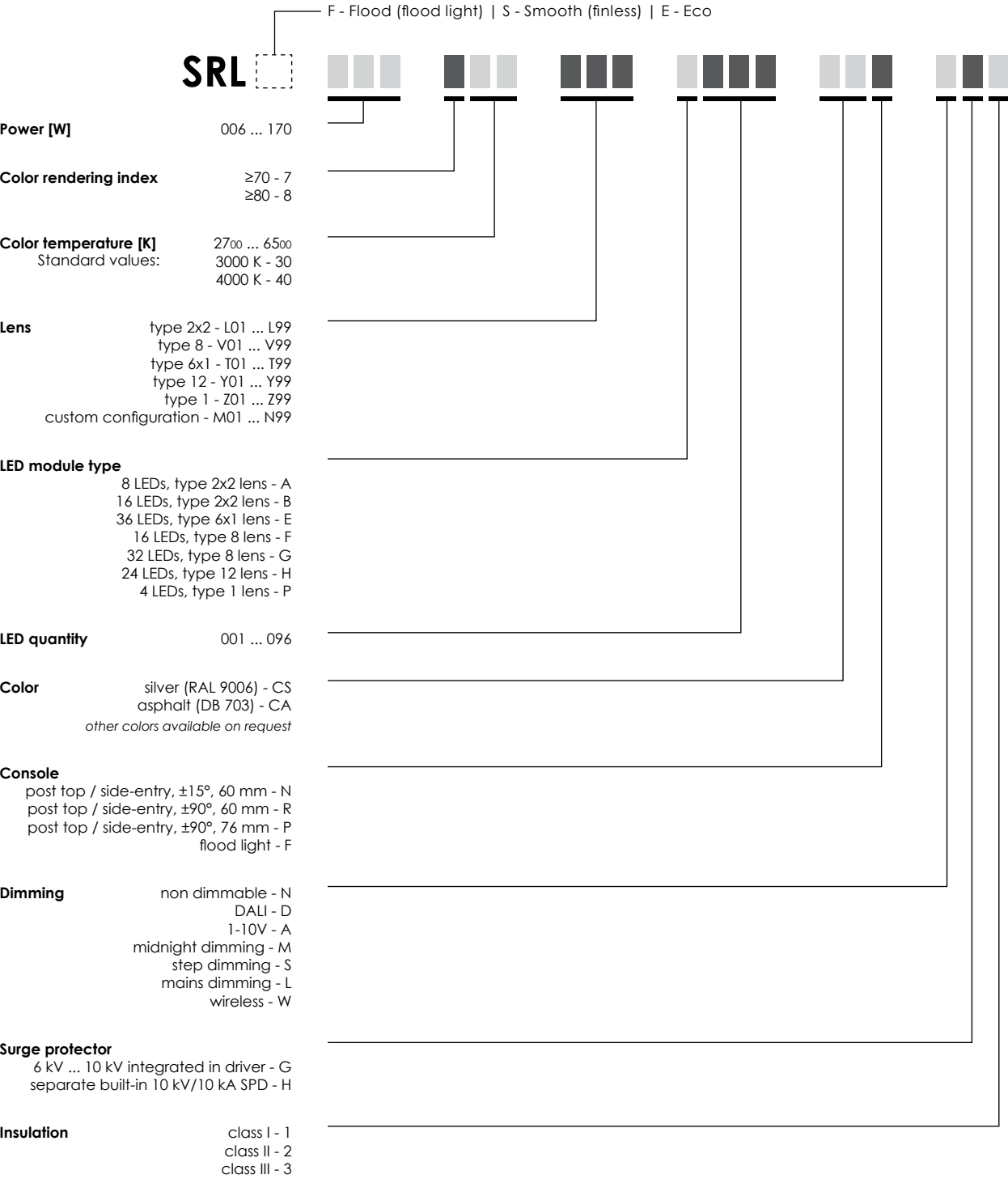
Only with optic 04 / 05 / 20 / 22 / 35

ECO

4000K

Number of LED's	16			32			36	48		
Nominal current, mA	350	500	700	350	500	700	720	350	500	560
Power, W	37	52	75	71	101	147	170	102	149	168
Luminous Flux, lm*	5200	6850	9000	10400	13650	17900	20200	14980	20210	22128
Efficacy, lm/W	141	132	120	146	135	122	119	147	135	132
Power factor, PF	0,85	0,9	0,91	0,94	0,97	0,98	0,98	0,97	0,98	0,99

Model name principles





Maastricht | Netherlands

MINI MARTIN



With fins



Smooth

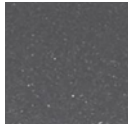
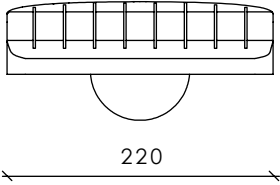
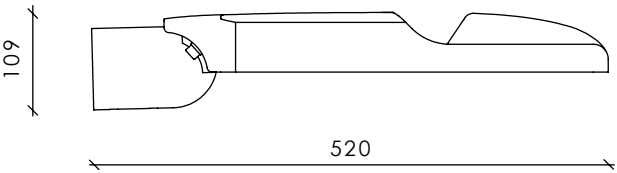


Tool-less



Tool-less | Smooth

MINI MARTIN With fins

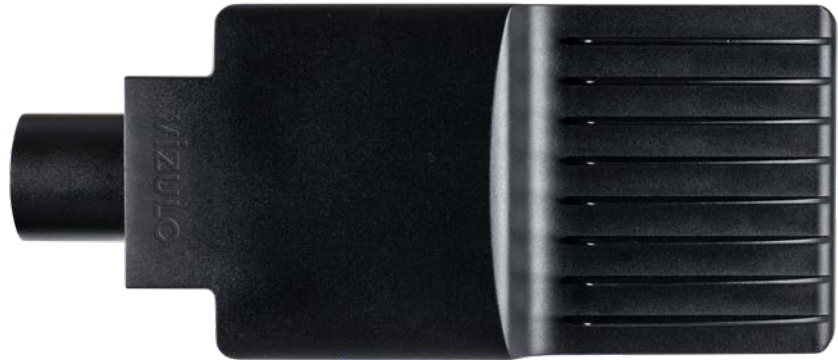


DB703



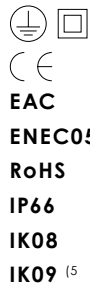
RAL9006

OTHER COLORS AVAILABLE ON REQUEST



Technical information

V	220 - 240	1-10V; DALI; Midnight dimming
Hz	50 - 60	Radio frequency ¹³
W	10 - 110	Body: Die-cast aluminum
lm	1100 - 13550	Spigot: ø 40-60, with accessories ø 32; ø 76
lm/W	120 - 136	Neto weight: 5,5 - 5,65 kg
K	3000 / 4000 ¹¹	3; 6; 10 kV (optional) ¹⁴
°C	-40 to +50	Warranty 5 years
CRI	>70 / >80 ¹²	80 000 h (L80B10C10) ¹⁶
		100 000 h (L70B10C10) ¹⁶
		100 000 h (L95B10C10) ¹⁷
		150 000 h (L90B10C10) ^{17,8}
		Max.wind load area, SCd, m²: 0,036



- 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 ECO

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

aat Ta=25°C, this value is only informative and may change according to selected article
- 8 Standard / High Density

150 000 h for LED's only, drivers 100 000 h

Standard modules

4000K

Number of LED's	8			16			24			36*		
Nominal current, mA	350	520	700	350	500	700	350	500	700	350	500	710
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

*Only with optic 01 / 02 / 03

High density modules

4000K

Number of LED's	16			32			48			
Nominal current, mA	350	500	700	370	500	700	350	500	700	760
Power, W	20	26	35	37	50	68	51	72	102	110
Luminous Flux, lm	2550	3310	4350	5010	6650	8690	7120	9710	13190	13550
Efficacy, lm/W	128	127	124	135	133	128	140	135	129	123
Power factor, PF	0,91	0,95	0,97	0,95	0,97	0,98	0,95	0,97	0,98	0,97

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

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

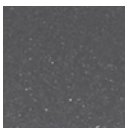
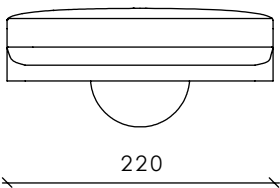
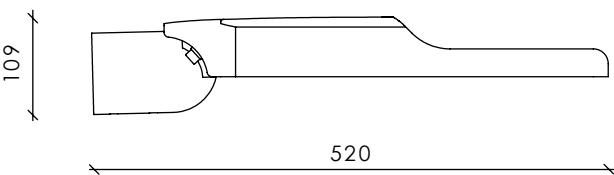
ECO

4000K

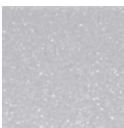
Number of LED's	8			16			24		
Nominal current, mA	350	500	700	350	500	700	350	500	700
Power, W	19	26	38	37	52	75	54	76	110
Luminous Flux, lm*	2580	3390	4460	5120	6770	8920	7680	10070	13270
Efficacy, lm/W	136	130	117	138	130	119	142	133	121
Power factor, PF	0,85	0,9	0,91	0,94	0,97	0,98	0,97	0,98	0,99

* Preliminary data

MINI MARTIN Smooth



DB703

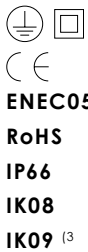


RAL9006

OTHER COLORS AVAILABLE ON REQUEST

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⁾

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

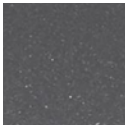
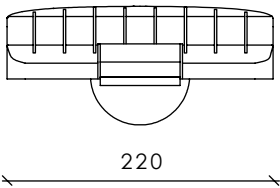
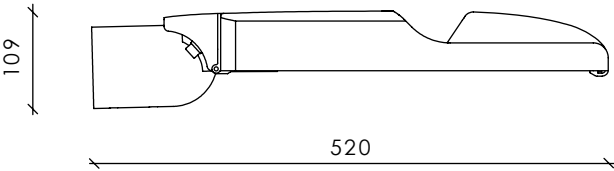


1 Luminaires with color rendering index (CRI): Ra >90 on request
2 10 kV (L-N; L/N-PE) surge protection device available on request
3 IK09 - screw version with tempered unprinted glass

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



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST

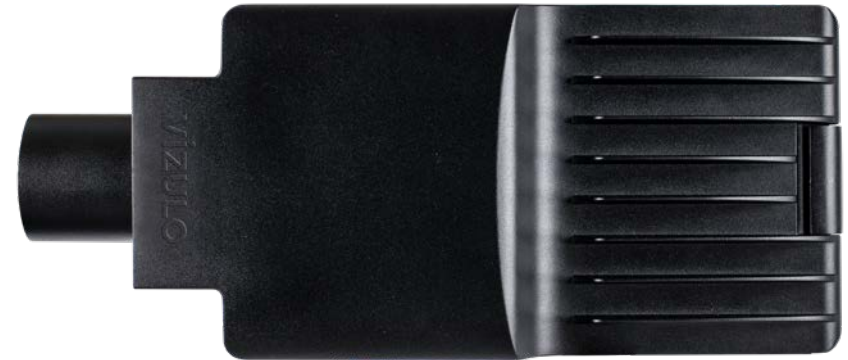
V 220 - 240
Hz 50 - 60
W 10 - 110
lm 1100 - 13550
lm/W 110 - 136
K 3000 / 4000 / 5000
°C -40 to +50
CRI >70 / >80 ¹⁾

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

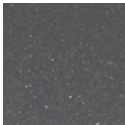
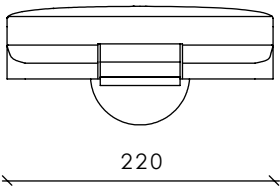
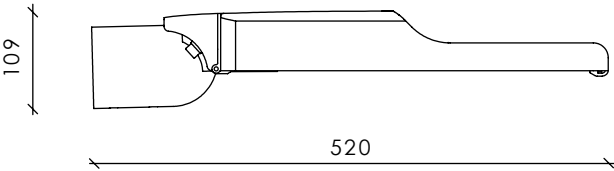
⏚
CE
ENEC05
RoHS
IP66
IK08

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)



MINI MARTIN Tool-less | Smooth



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST

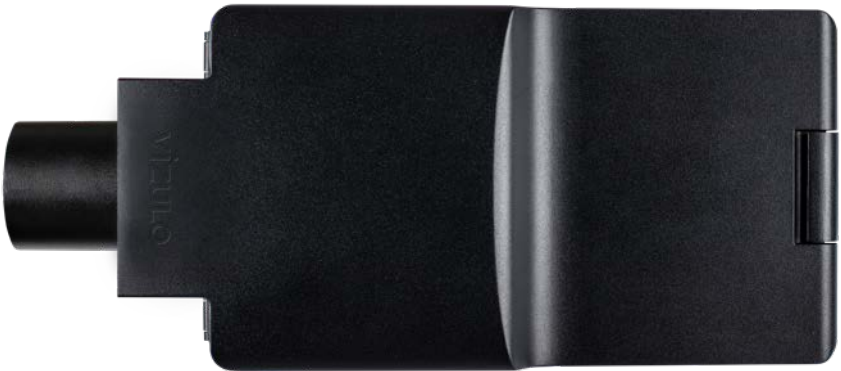
V 220 - 240
Hz 50 - 60
W 10 - 75
lm 891 - 9800
lm/W 89 - 136
K 3000 / 4000 / 5000
°C -40 to +50
CRI >70 / >80 ⁽¹⁾

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

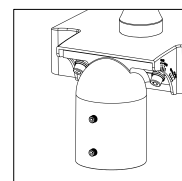
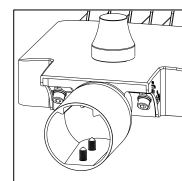
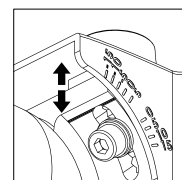
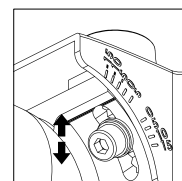
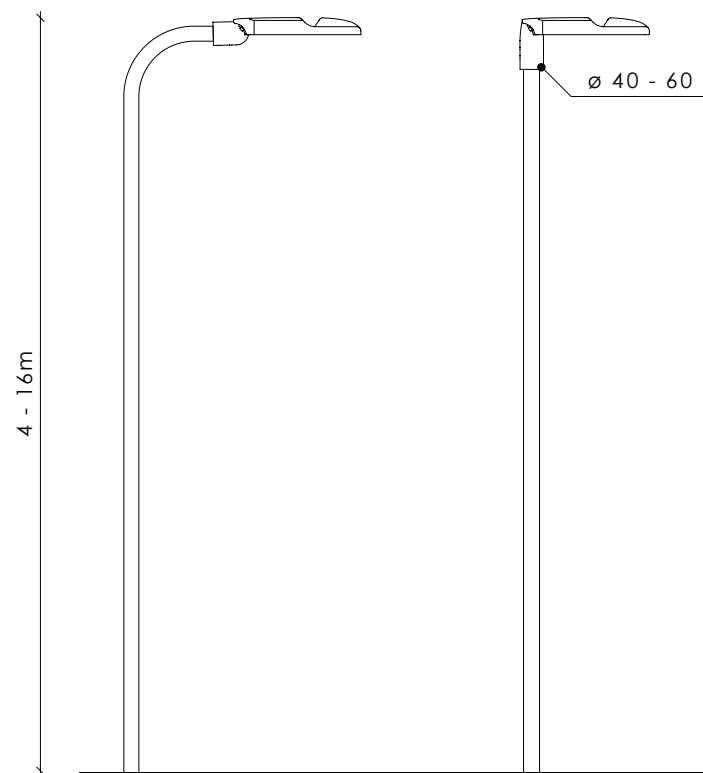


¹ Luminaries with color rendering index (CRI): Ra >90 on request
² 10 kV (L-N; L/N-PE) surge protection device available on request

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



| Console



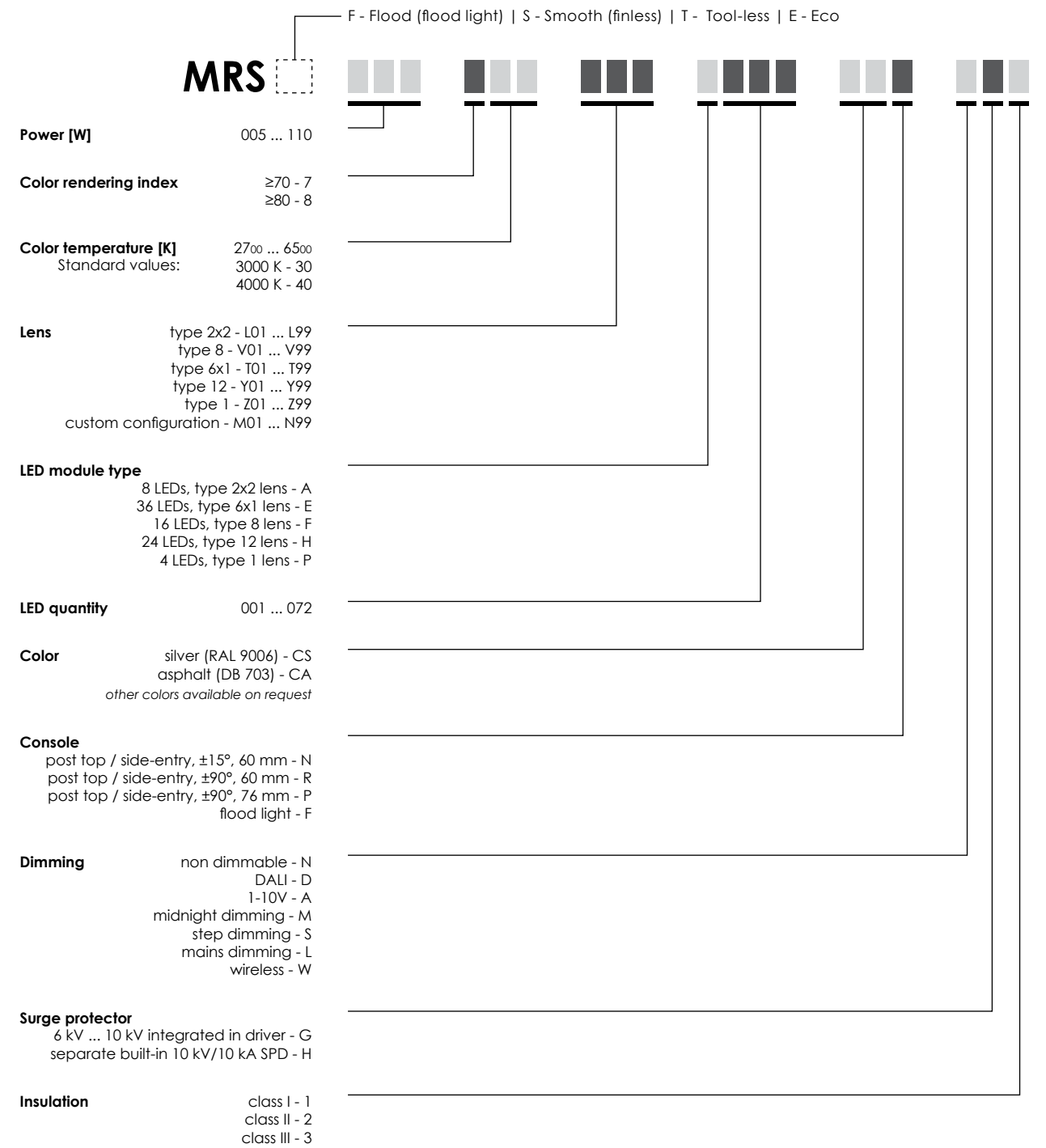
≤ 0 ... 15

≤ -15 ... 0

Horizontal
entry

Vertical
entry

| Model name principles



EXAMPLE MRSF 005 730 L99 A001 CSN NG1

MICRO MARTIN



With fins



Smooth

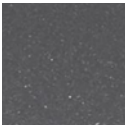
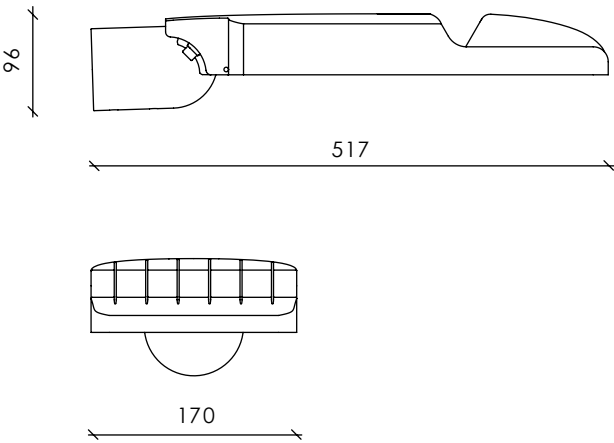


Tool-less



Tool-less | Smooth

MICRO MARTIN With fins



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST

V 220 - 240	Chromaticity tolerance (initial MacAdam): 5
Hz 50 - 60	Body: Die-cast aluminum
W 5 - 75	Console: ø 40 - 60 mm
lm 470 - 8875	DALI, Midnight dimming, 1-10V
lm/W 90 - 132	Radio frequency
K 3000 / 4000	Surge protection: 6 kV / seperate built-in 10 kV
°C -40 to +50	100 000 h (L95B10) at ta = 25°C
CRI >70 / >80 ⁽¹⁾	Warranty 5 years

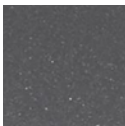
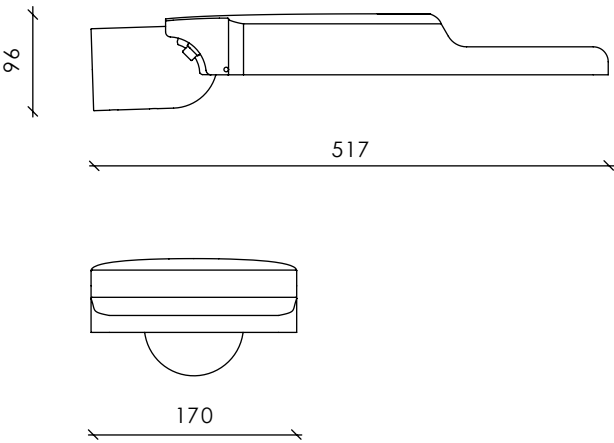


1 Luminaries with color rendering index (CRI): Ra >90 on request

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



MICRO MARTIN Smooth



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST

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⁾

Chromaticity tolerance (initial MacAdam): 5
Body: Die-cast aluminum
Console: ø 40 - 60 mm
DALI, Midnight dimming, 1-10V
Radio frequency
Surge protection: 6 kV / seperate built-in 10 kV
100 000 h (L95B10) at ta = 25°C
Warranty 5 years

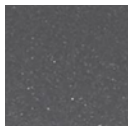
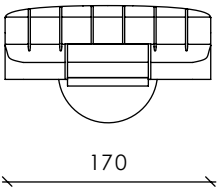
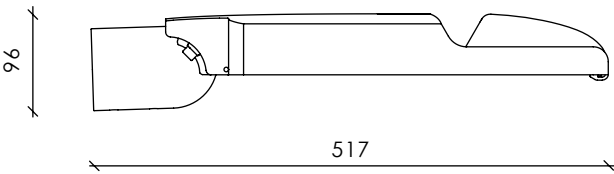


¹ Luminaries with color rendering index (CRI): Ra >90 on request

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



MICRO MARTIN Tool-less



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST

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⁾

Chromaticity tolerance (initial MacAdam): 5
Body: Die-cast aluminum
Console: ø 40 - 60 mm
DALI, Midnight dimming, 1-10V
Radio frequency
Surge protection: 6 kV / seperate built-in 10 kV
100 000 h (L95B10) at ta = 25°C
Warranty 5 years

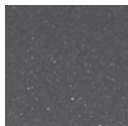
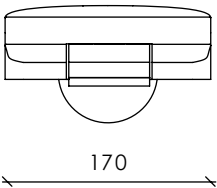
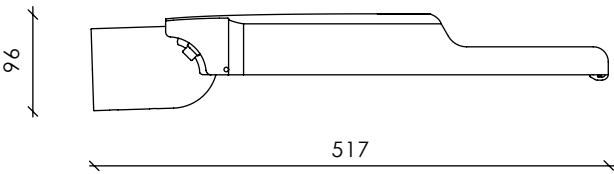


¹ Luminaries with color rendering index (CRI): Ra >90 on request

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



MICRO MARTIN Tool-less | Smooth



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST

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⁾

Chromaticity tolerance (initial MacAdam): 5
Body: Die-cast aluminum
Console: ø 40 - 60 mm
DALI, Midnight dimming, 1-10V
Radio frequency
Surge protection: 6 kV / seperate built-in 10 kV
100 000 h (L95B10) at ta = 25°C
Warranty 5 years

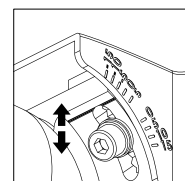
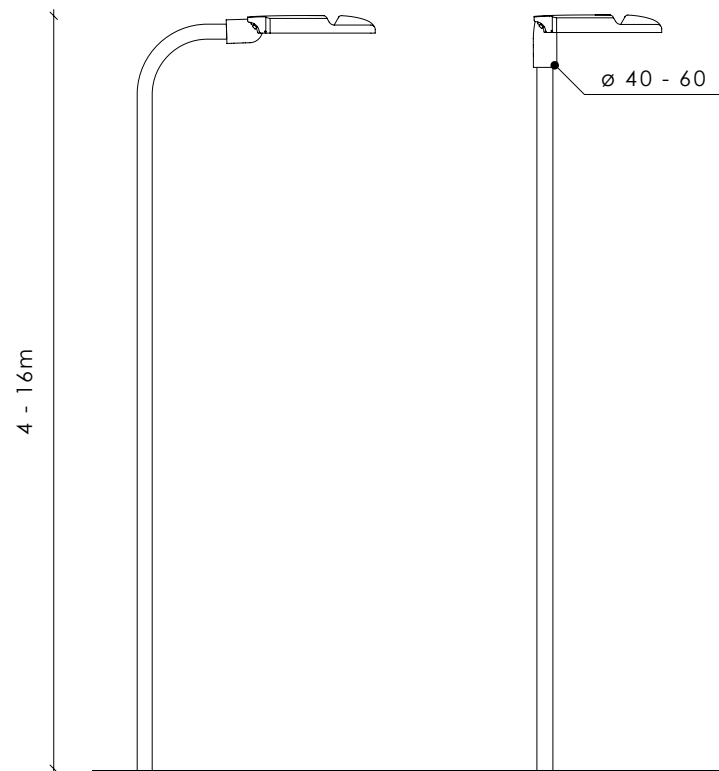


¹ Luminaries with color rendering index (CRI): Ra >90 on request

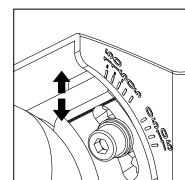
Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.



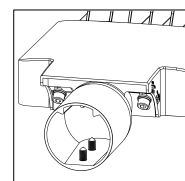
| Console



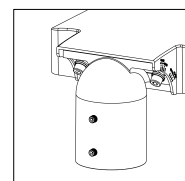
≤ 0 ... 20



≤ -20 ... 5

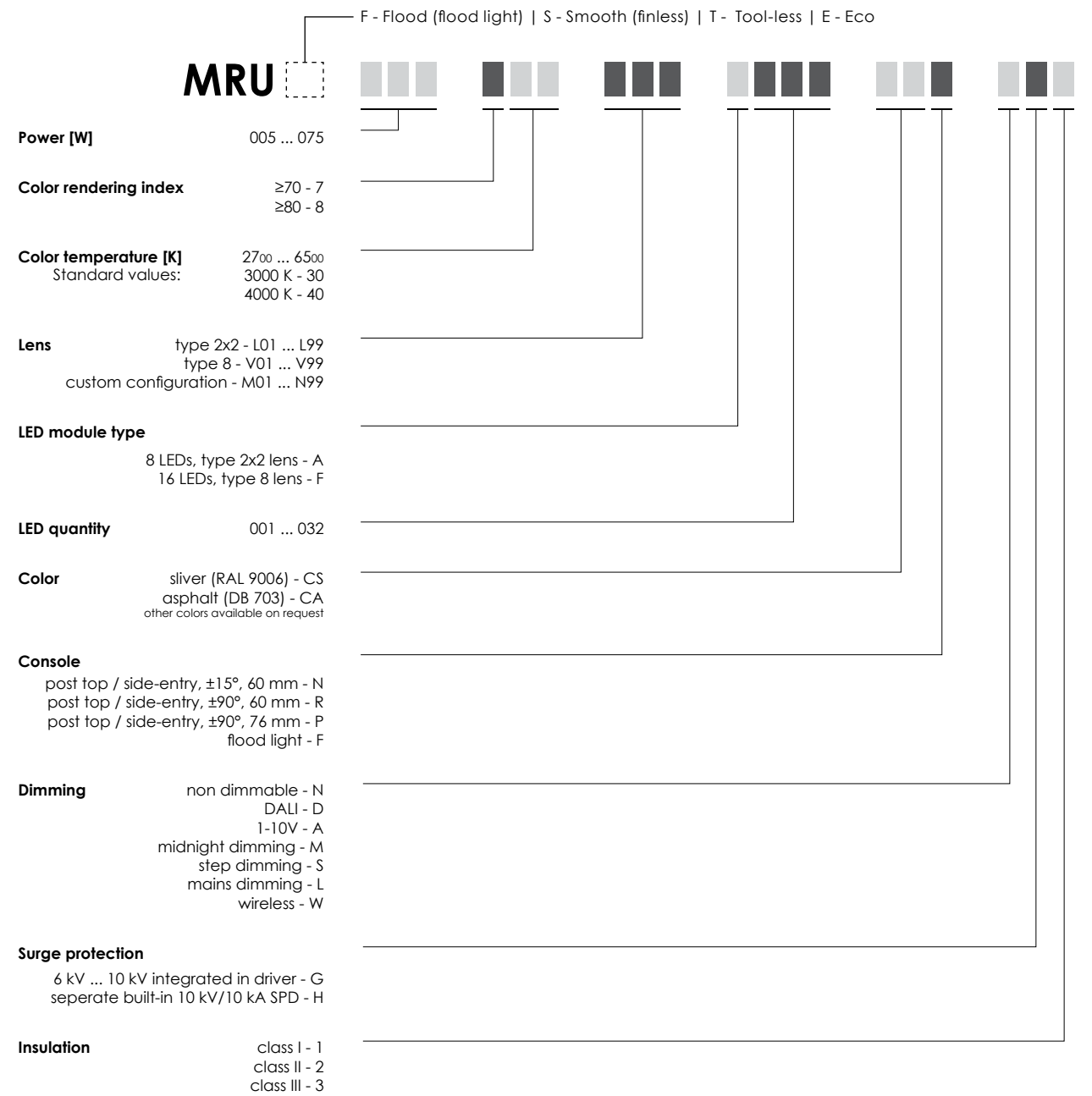


Horizontal
entry



Vertical
entry

| Model name principles



EXAMPLE MRUE 005 730 L99 A001 CSN NG1

BLACKBIRD

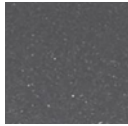
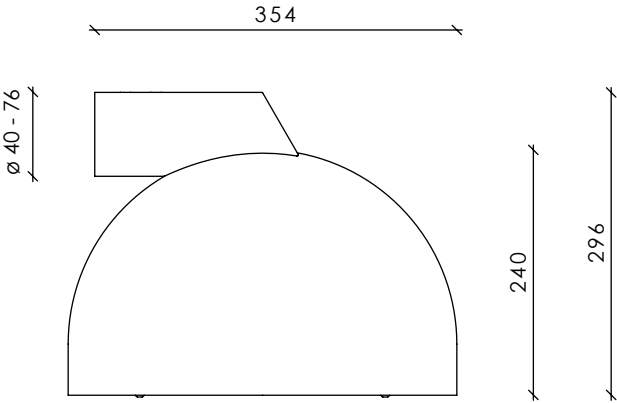


Side-entry



Hanging

BLACKBIRD Side-entry



DB703

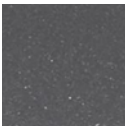
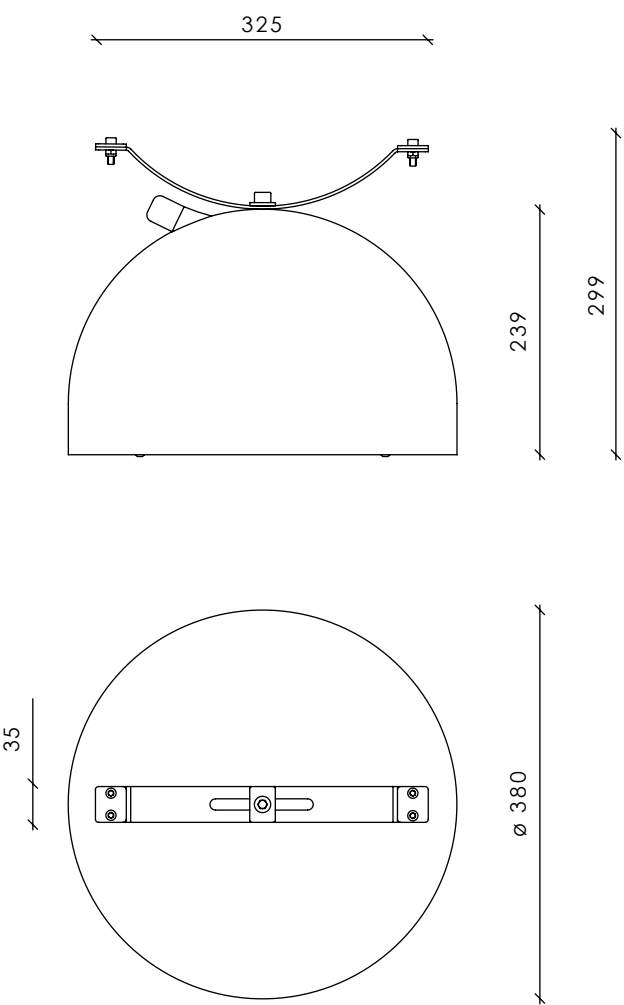


RAL9006

OTHER COLORS AVAILABLE ON REQUEST



BLACKBIRD Hanging



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST



Technical information

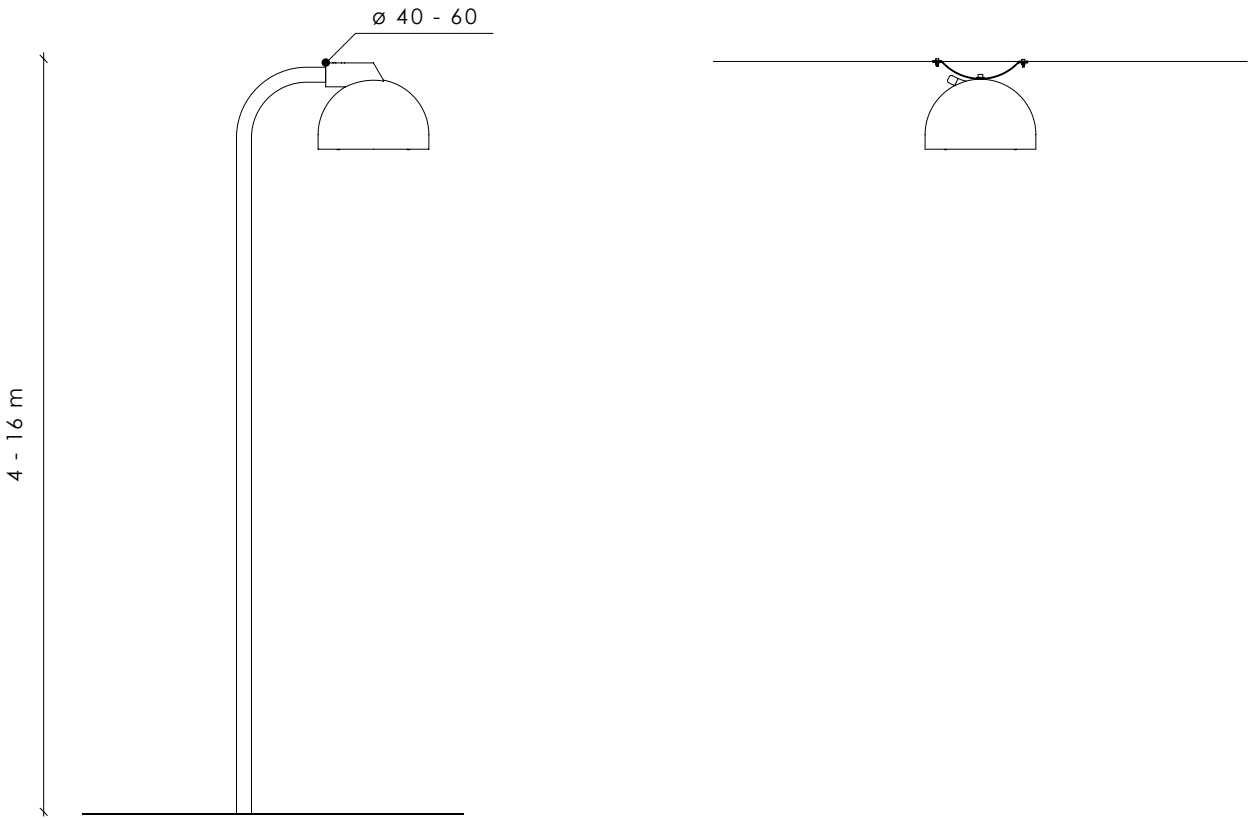
V	220 - 240	Chromaticity tolerance (initial MacAdam): 5
Hz	50 - 60	Body: Die-cast aluminum
W	8 - 120	Console: ø 40 - 60 mm
lm	860 - 14700	DALI, Midnight dimming, 1-10V
lm/W	107 - 135	Radio frequency
K	3000 / 4000	Surge protection: 6 kV / seperate built-in 10 kV
°C	-40 to +50	100 000 h (L95B10) at ta = 25°C
CRI	>70 / >80 ⁽¹⁾	Warranty 5 years



1 Luminaires 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.
* Preliminary and will change according to testing results. Data may not be used for tenders or purchasing.

Console



Model name principles

BB		
Power [W]	008 ... 120	
Color rendering index	≥70 - 7 ≥80 - 8	
Color temperature [K] Standard values:	2700 ... 6500 3000 K - 30 4000 K - 40	
Lens	standard - L01 ... L99 custom configuration - M01 ... Z99	
LED module type	4 LEDs per lens - A 8 LEDs per lens - F	
LED quantity	001 ... 096	
Color	silver (RAL 9006) - CS asphalt (DB 703) - CA other colors available on request	
Console	side-entry - S hanging - H	
Dimming	non dimmable - N DALI - D 1-10V - A midnight dimming - M wireless - W	
Surge protection	6 kV ... 10 kV integrated in driver - G seperate built-in 10 kV/10 kA SPD - H	
Insulation	class I - 1 class II - 2	

EXAMPLE BB 008 730 L99 A001 CSS NG1

LUSCINIA



Side-entry

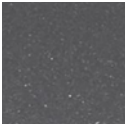
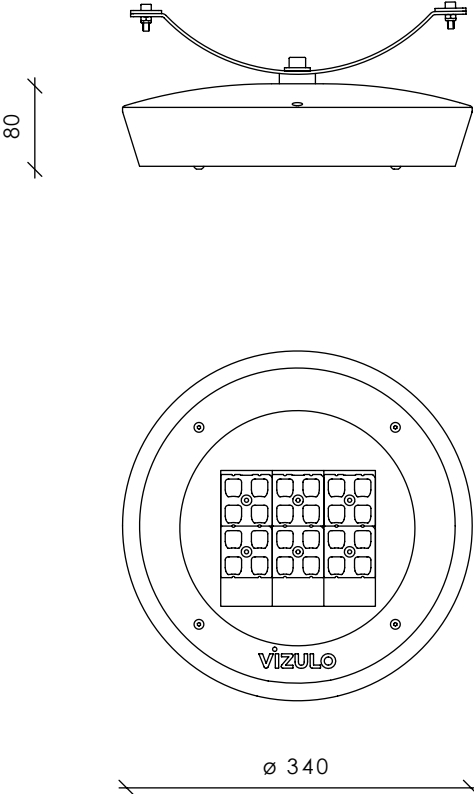


Hanging



Post top

LUSCINIA Hanging



DB703

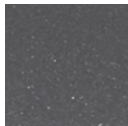
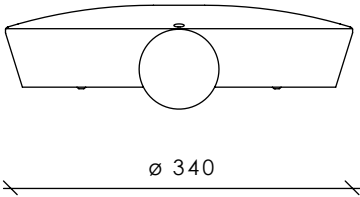
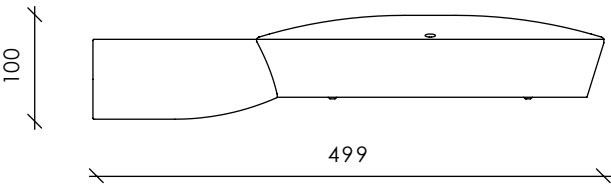


RAL9006

OTHER COLORS AVAILABLE ON REQUEST



LUSCINIA Side-entry



DB703

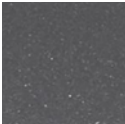
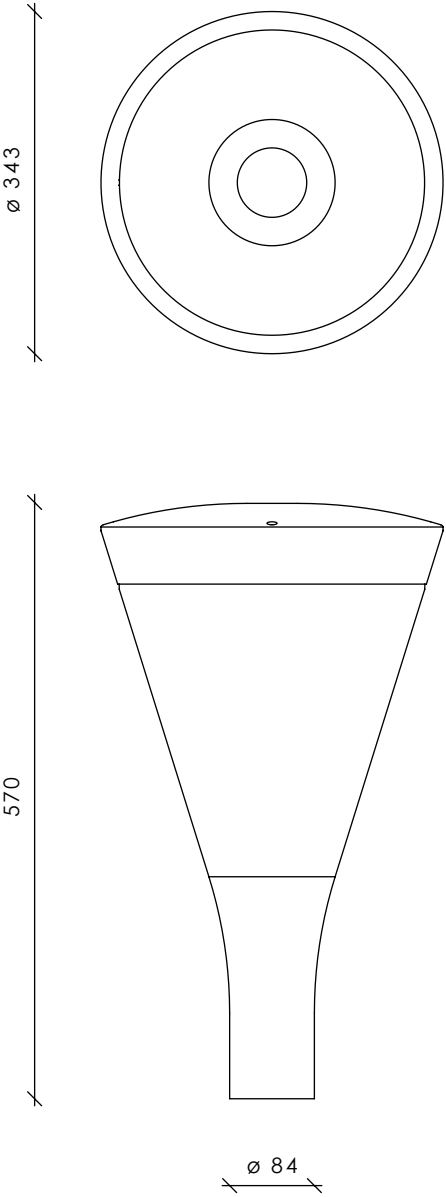


RAL9006

OTHER COLORS AVAILABLE ON REQUEST



LUSCINIA Post top



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST



Technical information

V	220 - 240	Chromaticity tolerance (initial MacAdam): 5
Hz	50 - 60	Die-cast aluminum
W	8 - 63	Body color: Silver - RAL9006 / Asphalt - DB 703
lm	860 - 7889 ⁽¹⁾ 770 - 7650 ⁽²⁾	Console: Side-entry / Hanging / Post top
lm/W	107 - 135 ⁽¹⁾ 98 - 122 ⁽²⁾	DALI, Midnight dimming, 1-10V
K	3000/4000	Radio frequency
CRI	>70 / >80 ⁽³⁾	Surge protection: 6 kV / seperate built-in 10 kV
°C	-40 to +50	100 000 h (L95B10) at ta = 25°C
		Warranty 5 years



IP66
IK09
IK10 ⁽²⁾

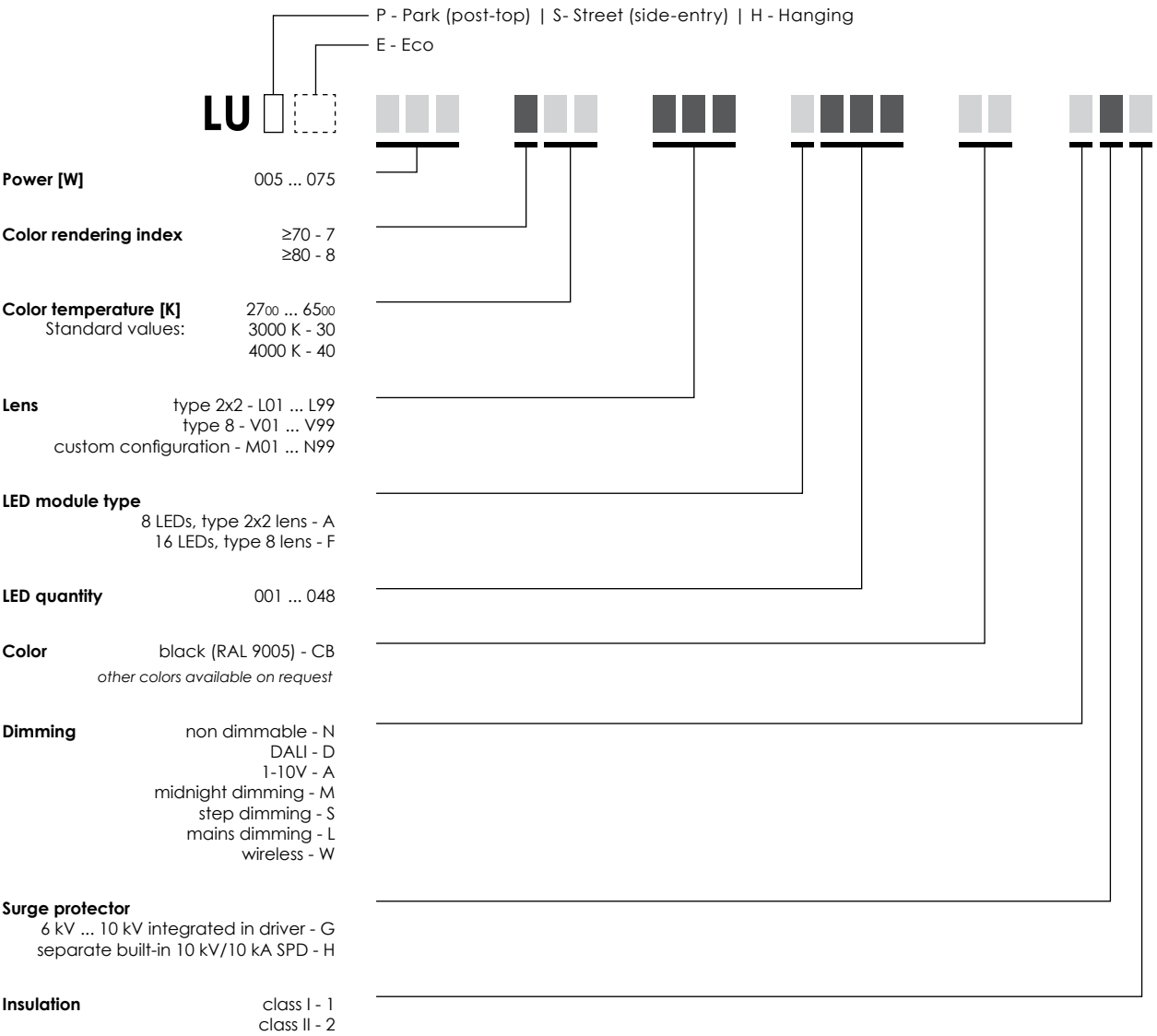
- 1 Side-entry / Hanging
2 Post top
3 Luminaries with color rendering index (CRI): Ra >90 on request

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

Console

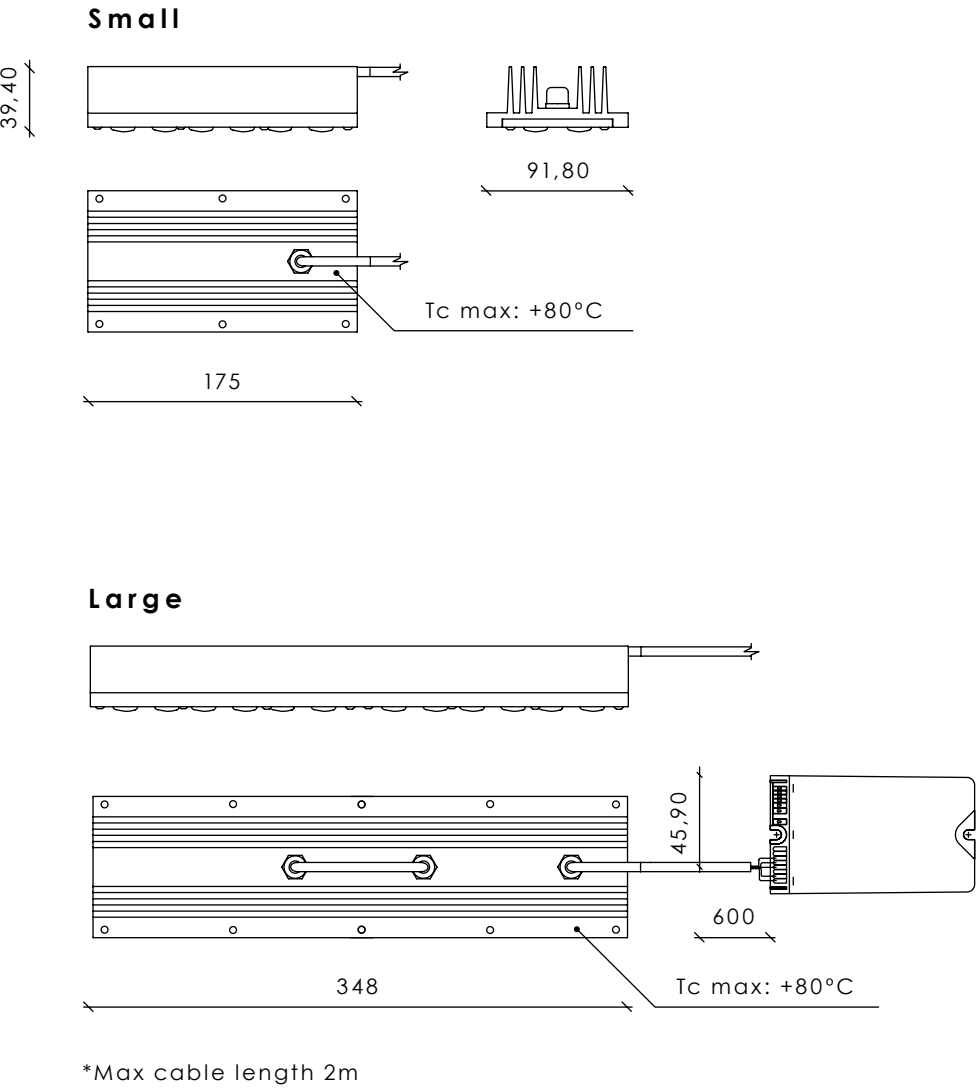


Model name principles



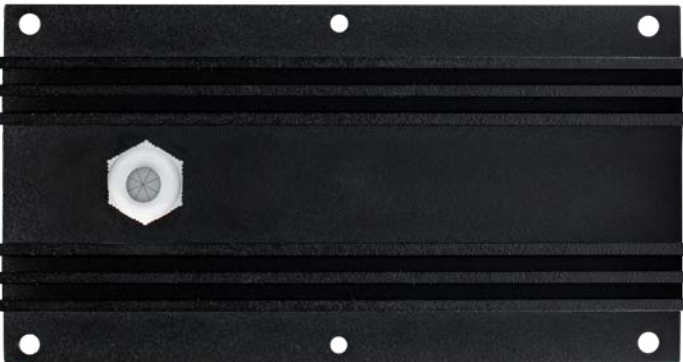
EXAMPLE LU 005 730 L99 A001 C8 NG1

WOODPECKER



RAL9005

OTHER COLORS AVAILABLE ON REQUEST



Technical information

V	220 - 240	Chromaticity tolerance (initial MacAdam): 5 DALI, Midnight dimming Body: Extruded aluminum Surge protection: 6 kV / 10 kV (optional) ¹² Warranty 5 years 100 000 h (L90B10) at Ta = 25 °C ¹³
Hz	50 - 60	
W	15 - 28	
lm	1850 - 3380	
lm/W	121 - 123	
K	3000 / 4000 ¹¹	
°C	-40 to +50	
CRI	>70 / >80	

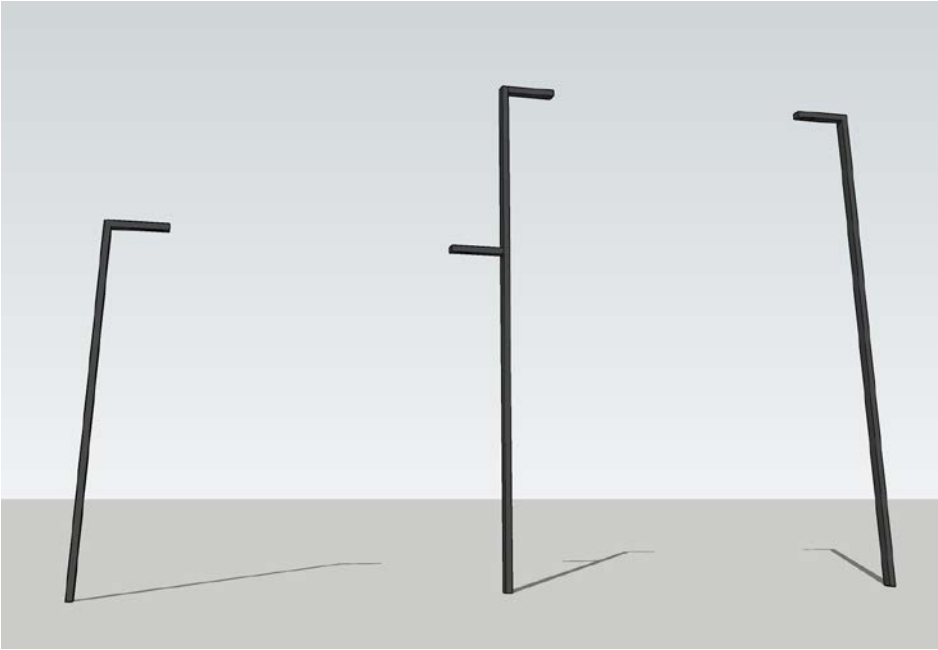


¹ 5000; 5700 K available on request
² 10 kV (L-N; L/N-PE) surge protection device available on request
³ at Ta=25°, this value is only informative and may change according to selected article
⁴ For LED module only

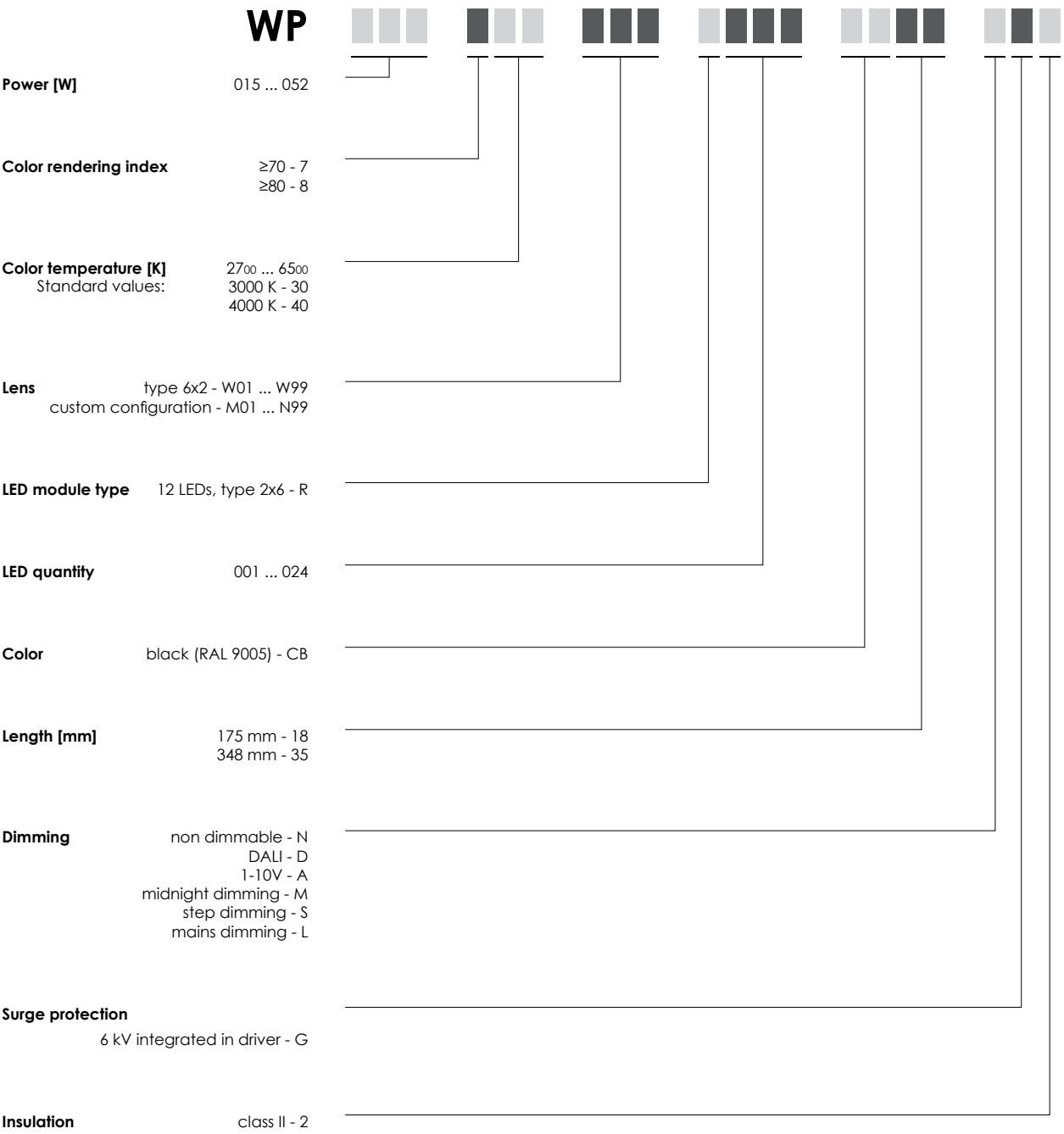
4000K	Small			Large		
Number of LED's	12			24		
Nominal current, mA	350	500	700	350	500	700
Power, W	15	20	28	27	38	52
Luminous Flux, lm	1980	2690	3600	3890	5360	7130
Efficacy, lm/W	132	135	129	144	141	137
Power factor, PF	0,85	0,92	0,96	0,92	0,95	0,97

Pole

Available with decorative poles

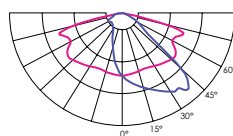


Model name principles

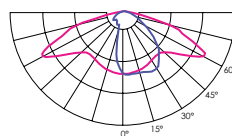


EXAMPLE WP 015 730 W99 R024 CB18 NG2

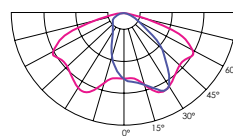
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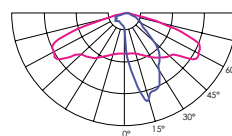
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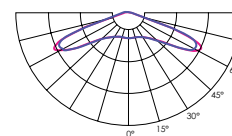
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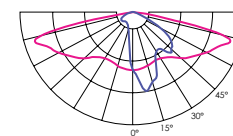
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20

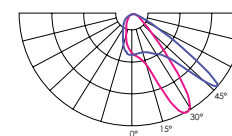


22

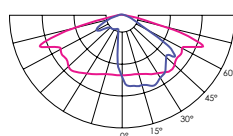


**Pedestrian
Optics**

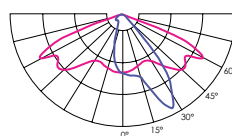
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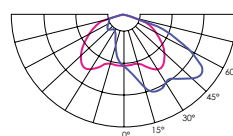
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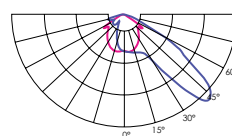
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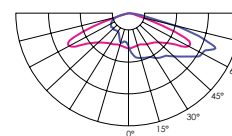
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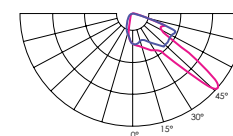
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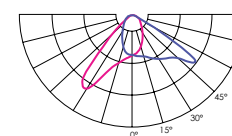
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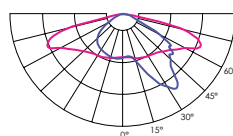
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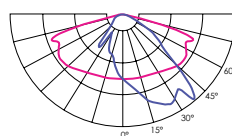
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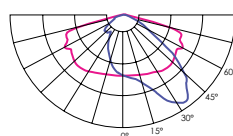
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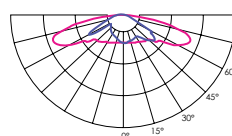
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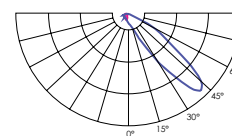
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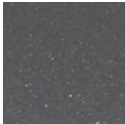
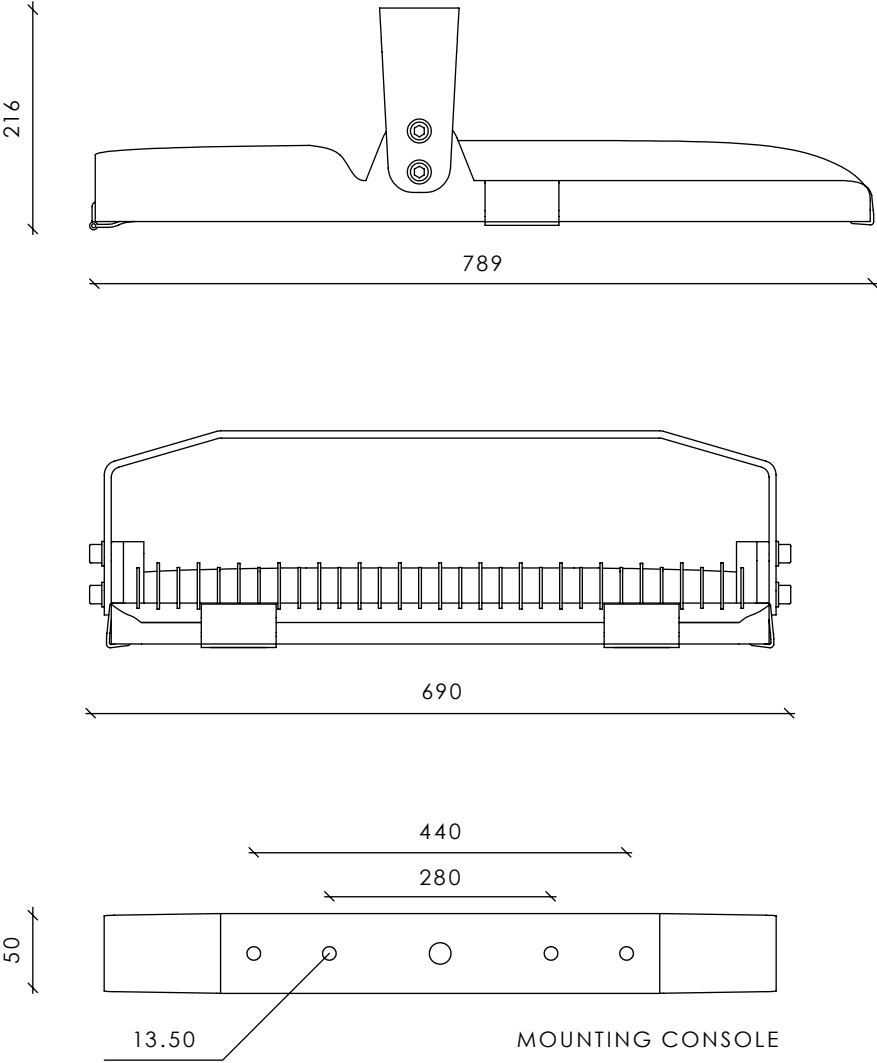
19



37



MUSTANG



DB703

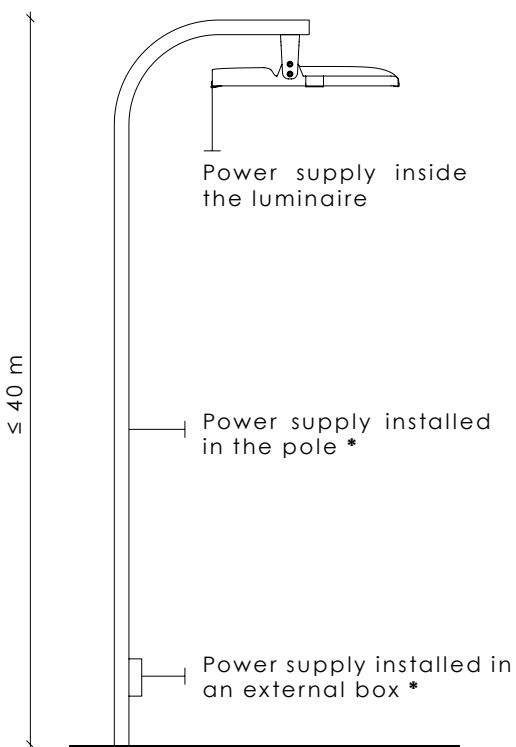


RAL9006

OTHER COLORS AVAILABLE ON REQUEST

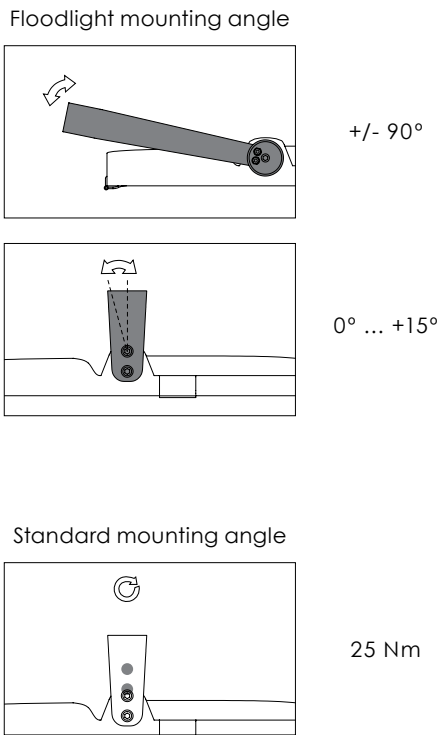


Console



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

Technical information

V 220 - 240
Hz 50 - 60
W 700
lm 34449 - 90540
lm/W 102 - 141
K 3000 / 4000 / 5000 / 5700
°C -40 to +50
CRI >70 / >80 ⁽¹⁾

Chromaticity tolerance (initial MacAdam): 5
1-10V; DALI; Midnight dimming
Surge protection: 6kV (L-N) and
10 kV (L/N -PE without DALI connection)⁽²⁾
Radio frequency / Power line
Warranty 5 years
100 000 h (L90B10C10) at Ta = 25 °C ⁽³⁾



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

Custom modules

4000K

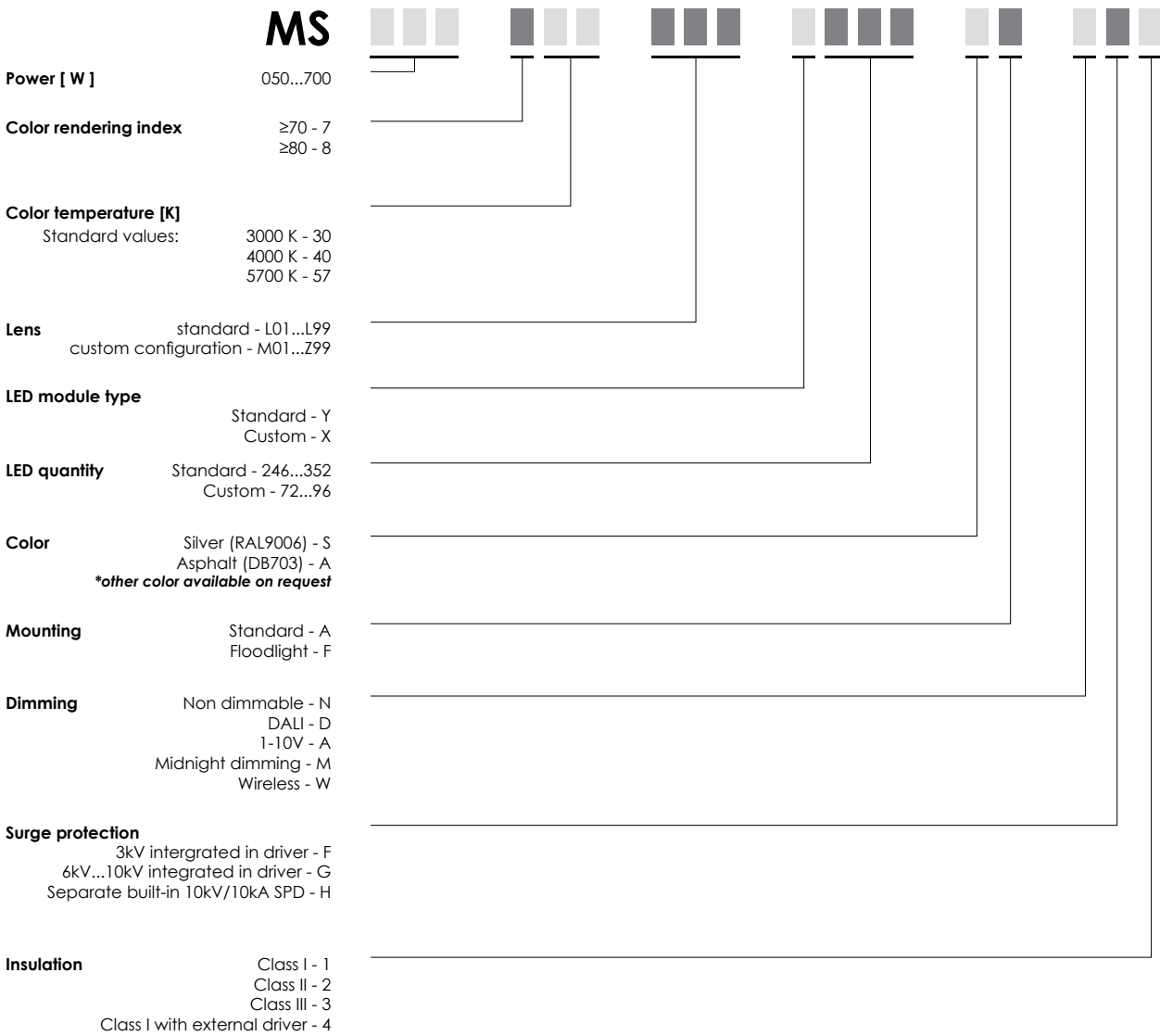
Number of LED's	72			96			
Nominal current, mA	350	500	700	350	430	520	580
Power, W	300	400	500	400	500	600	675
Luminous Flux, lm	34449	43792	51875	45820	55294	63654	69087
Efficacy, lm/W	114	109	103	114	110	106	102
Power factor, PF	0,97	0,98	0,99	0,97	0,98	0,99	0,99

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

| Model name principles

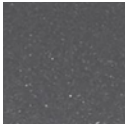
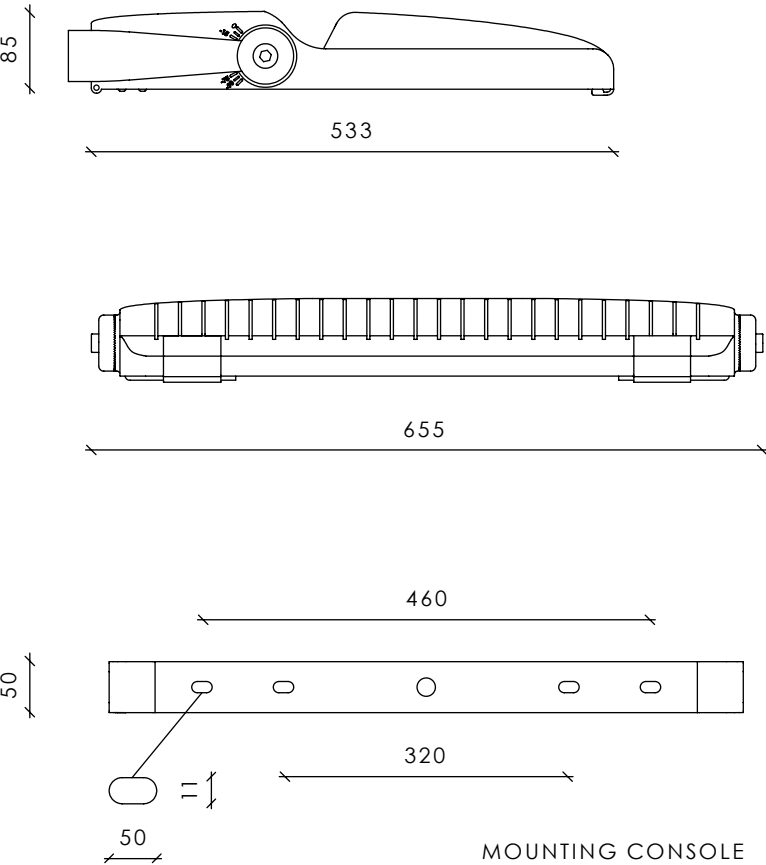


EXAMPLE MS 050 730 L01 X246 SA NF1



Courchevel | France

OWL



DB703

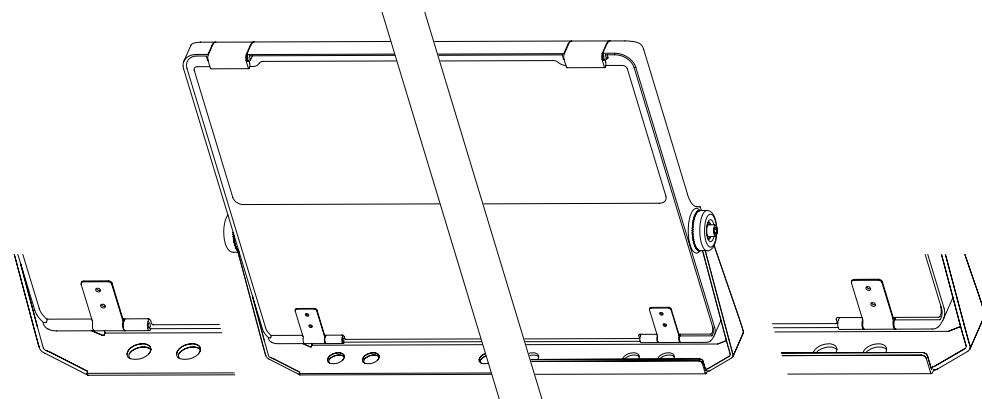


RAL9006

OTHER COLORS AVAILABLE ON REQUEST

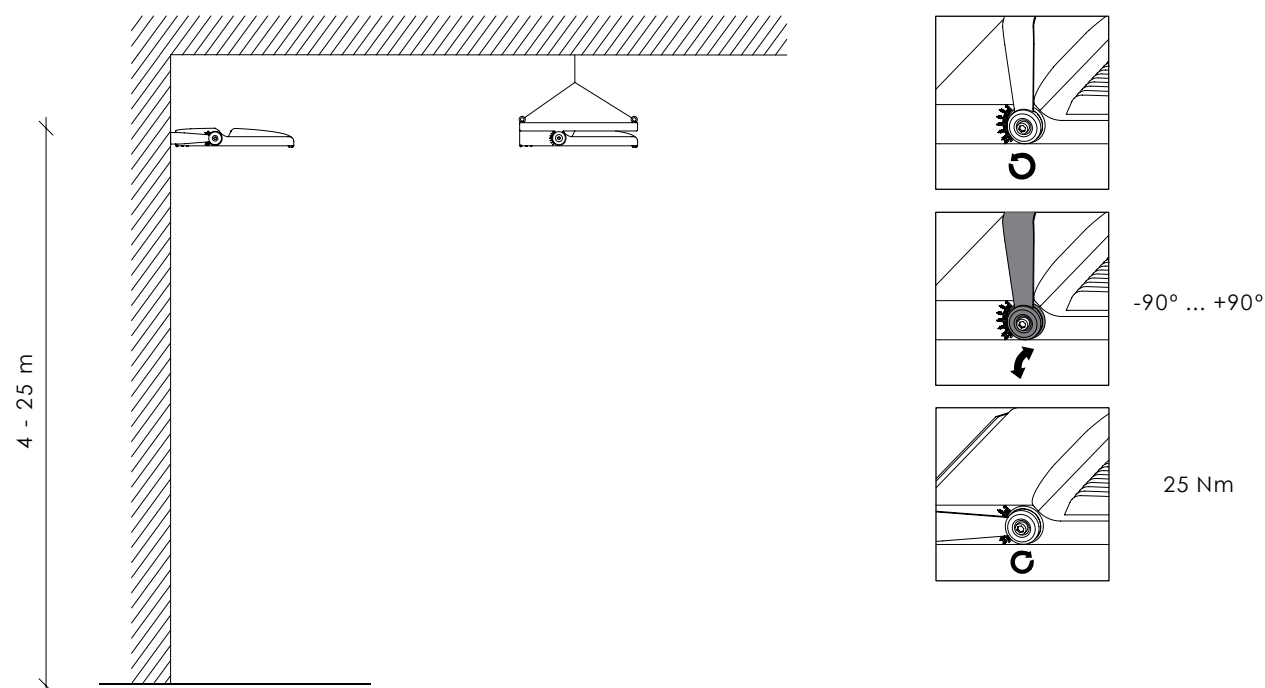


| Console



Regular bracket

Strengthened bracket



| Technical information

V 220 - 240
Hz 50 - 60
W 85 - 380 ⁽¹⁾
85 - 340 ⁽²⁾
lm 11700 - 46200 ⁽¹⁾
11700 - 42700 ⁽²⁾
lm/W 122 - 139
K 3000 / 4000 / 5000
°C -40 to +50 ⁽³⁾
CRI >70 / >80 ⁽⁴⁾

Chromaticity tolerance (initial MacAdam):5
1-10V; DALI; Midnight dimming
Surge protection: 3; 6; 10 kV (optional)⁽⁴⁾
10 kV (L/N -PE without DALI connection)⁽⁵⁾
Radio frequency / Power line
Warranty 5 years
>100 000 h (L95B10) at Ta = 25 °C



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

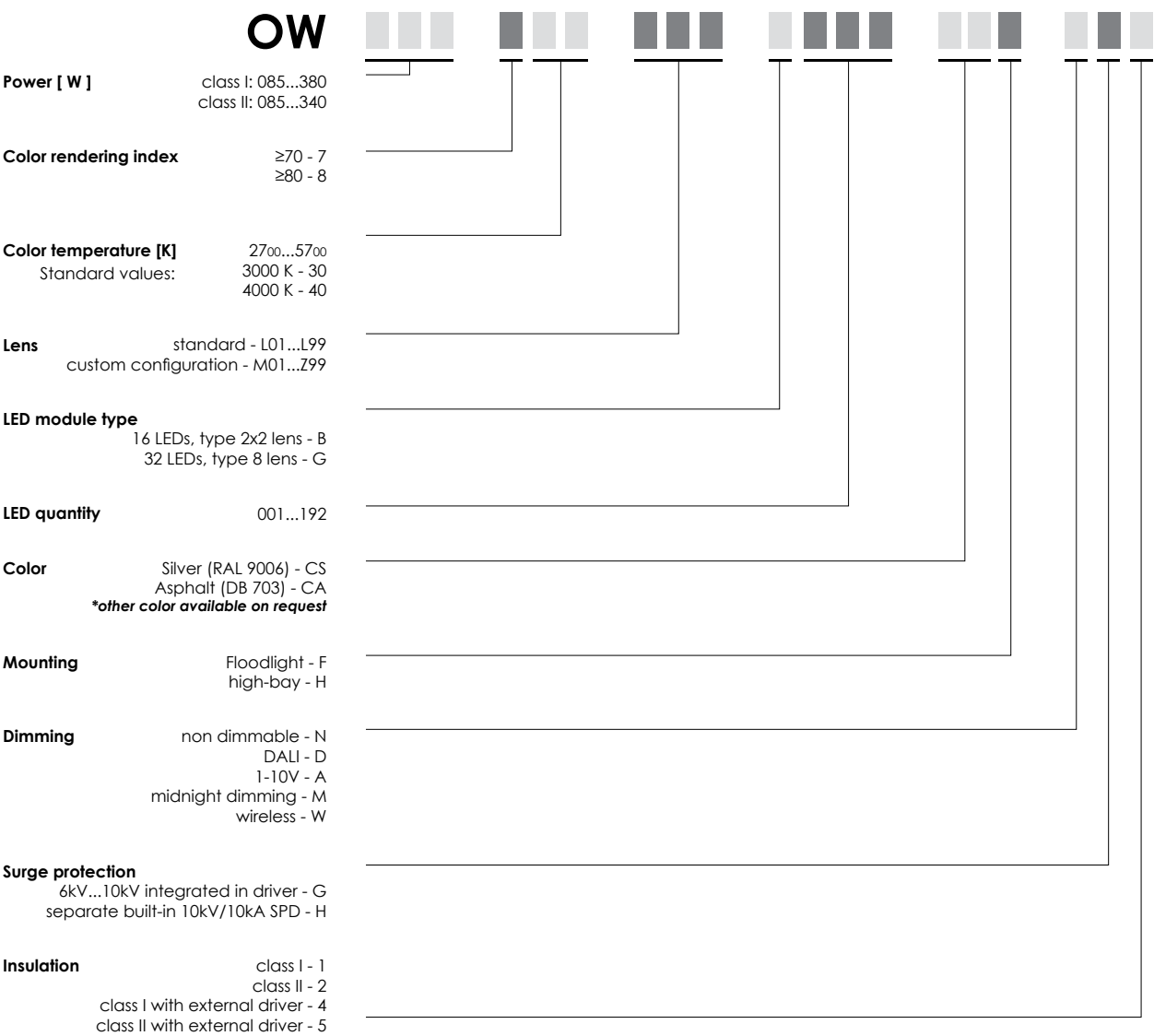
Standard modules

4000K

Number of LED's	80			96			112		
Nominal current, mA	350	500	720	350	500	720	350	520	720
Power, W	85	120	172	104	145	208	121	168	242
Luminous Flux, lm	11795	16017	21561	14190	19098	25855	16592	22229	30157
Efficacy, lm/W	139	133	125	136	132	124	137	132	125
Power factor, PF	0,95	0,97	0,98	0,94	0,97	0,98	0,94	0,97	0,98

Number of LED's	128			144			160			
Nominal current, mA	350	500	720	350	500	720	350	500	710	780
Power, W	140	192	276	156	215	310	172	240	340	380
Luminous Flux, lm	19164	25460	34539	21484	28608	38833	23834	32032	42710	46200
Efficacy, lm/W	137	133	125	138	133	125	139	133	126	122
Power factor, PF	0,94	0,96	0,98	0,94	0,97	0,98	0,95	0,97	0,98	0,96

| Model name principles

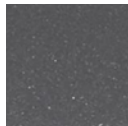
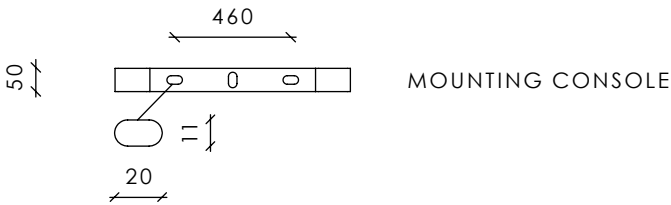
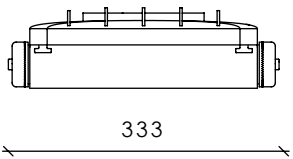
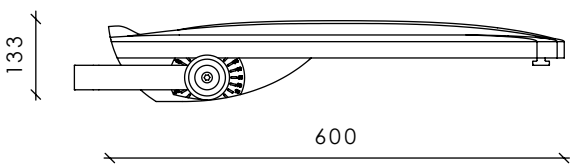


EXAMPLE OW 085 730 L99 B001 CSF NG1



Réunion | France

STORK Little Brother Floodlight



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST



Technical information

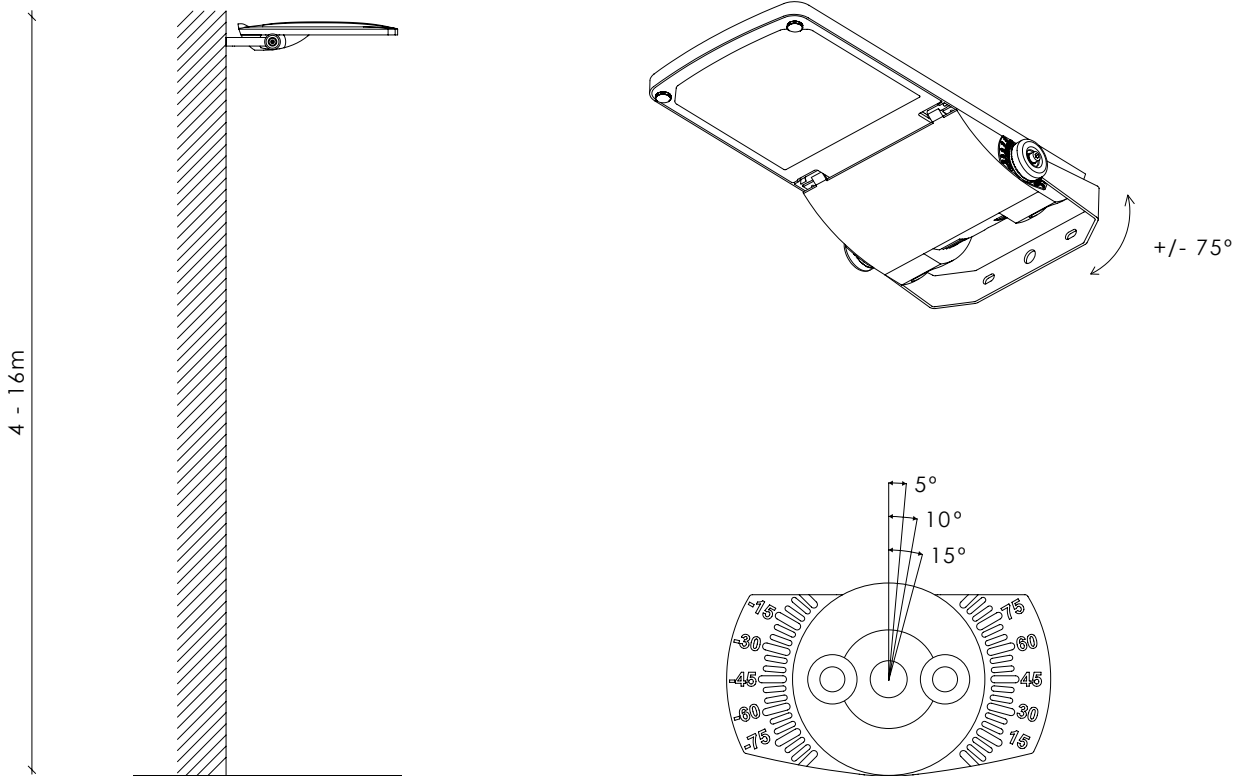
V 220 - 240
Hz 50 - 60
W 18 - 170
lm 2300 - 21300
lm/W 121 - 137
K 3000 / 4000 / 5000
°C -40 to +50
CRI >70 / >80 ⁽¹⁾

Chromaticity tolerance (initial MacAdam): 5
1-10V / DALI / Non dimmable
Surge protection: 6 kV (L-N) and
10 kV (L/N -PE without DALI connection)⁽²⁾
Radio frequency / Power line
Warranty 5 years
>100 000 h (L95B10C10)) at Ta = 25 °C

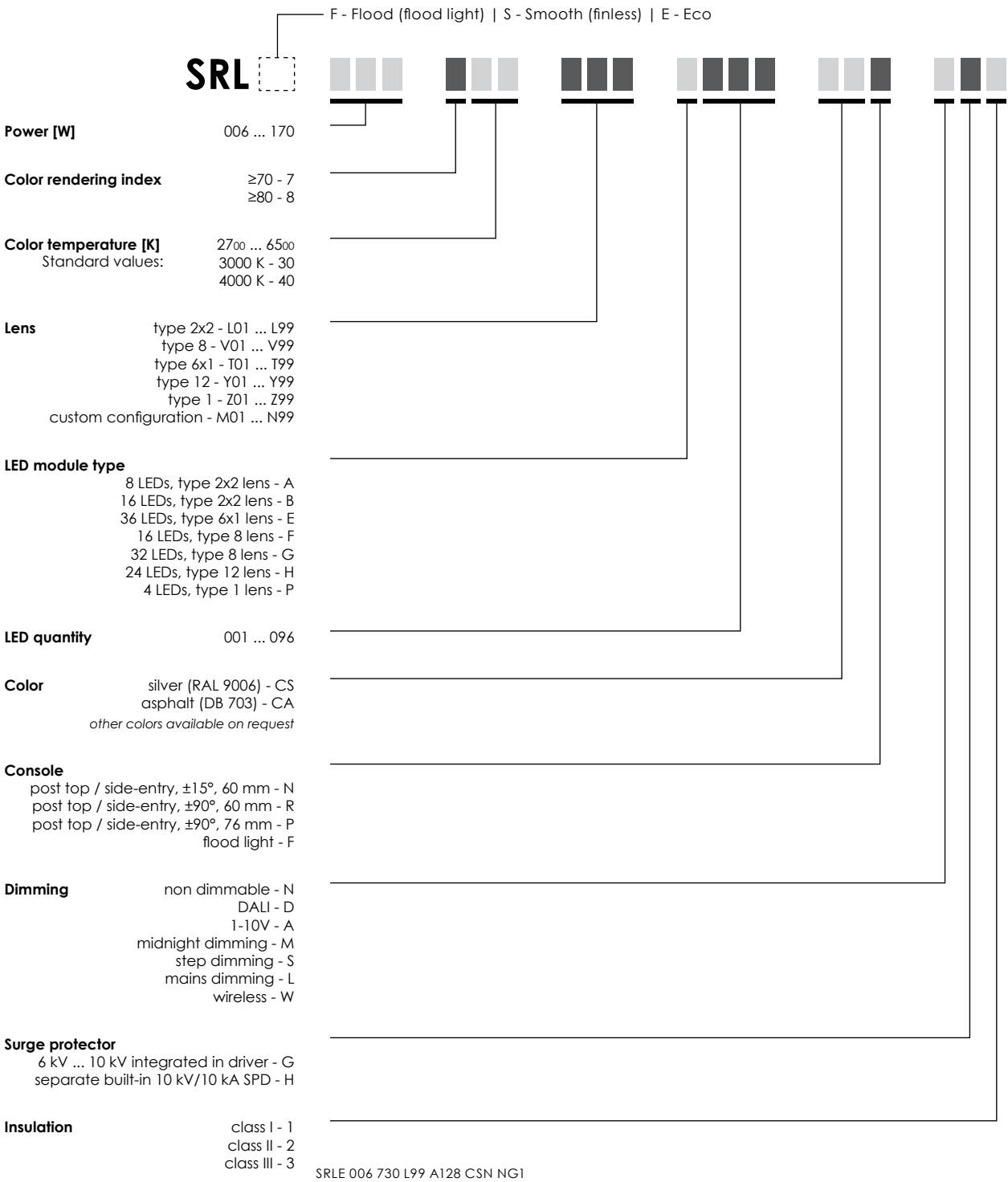


- 1 Luminaries with color rendering index (CRI): Ra >90 on request
2 10 kV (L-N; L/N-PE) surge protection device available on request

Console



Model name principles



EXAMPLE SRLE 006 730 L99 A128 CSN NG1

MINI MARTIN Floodlight



With fins



Tool-less

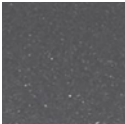
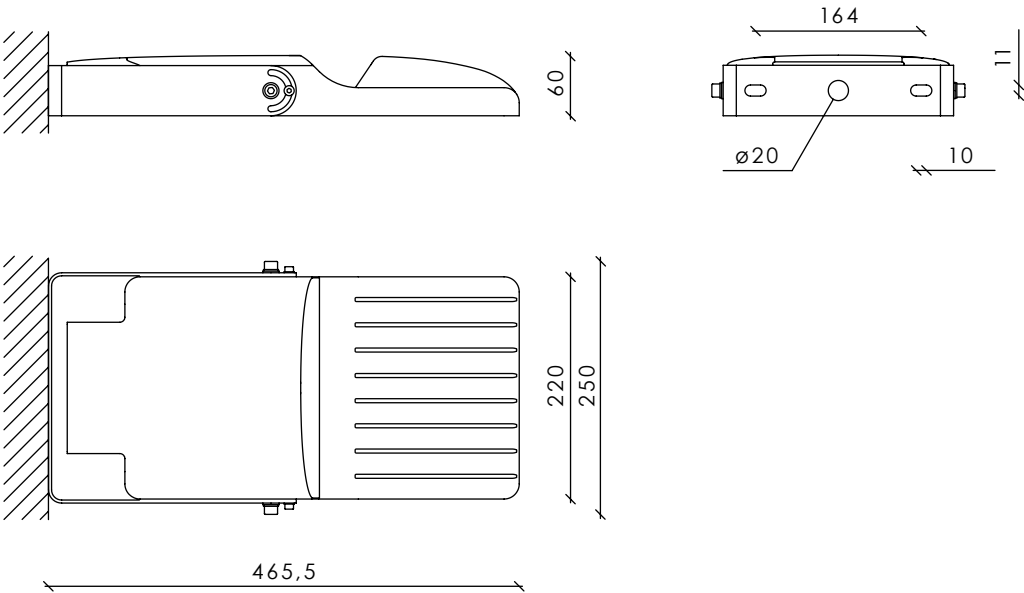


Smooth



Tool-less | Smooth

MINI MARTIN
Floodlight | with fins



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST



Technical information

V	220 - 240	Chromaticity tolerance (initial MacAdam): 5	RoHS IP66 IK08 IK09 ⁵
Hz	50 - 60	1-10V; DALI; Midnight dimming	
W	10 - 110	Surge protection: 6kV; 10 kV ³	
lm	1100 - 13550	Radio frequency ⁴	
lm/W	110 - 136	Warranty 3 years	
K	3000 / 4000 ¹	100 000 h (L95B10C10) at Ta = 25 °C	
°C	-40 to +50		
CRI	>70 / >80 ²		

- 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	700	350	500	710
Power, W	10	15	19	18	26	37	29	39	52	40	55	78
Luminous Flux, lm	1100	1697	2147	2230	3230	4460	3725	4941	6409	5331	7193	9664
Efficacy, lm/W	110	113	113	124	124	121	128	127	123	133	131	124
Power factor, PF	0,74	0,85	0,9	0,89	0,95	0,97	0,93	0,95	0,97	0,95	0,98	0,98

Only with optic 01 / 02 / 03

High density modules

4000K

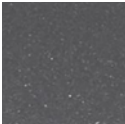
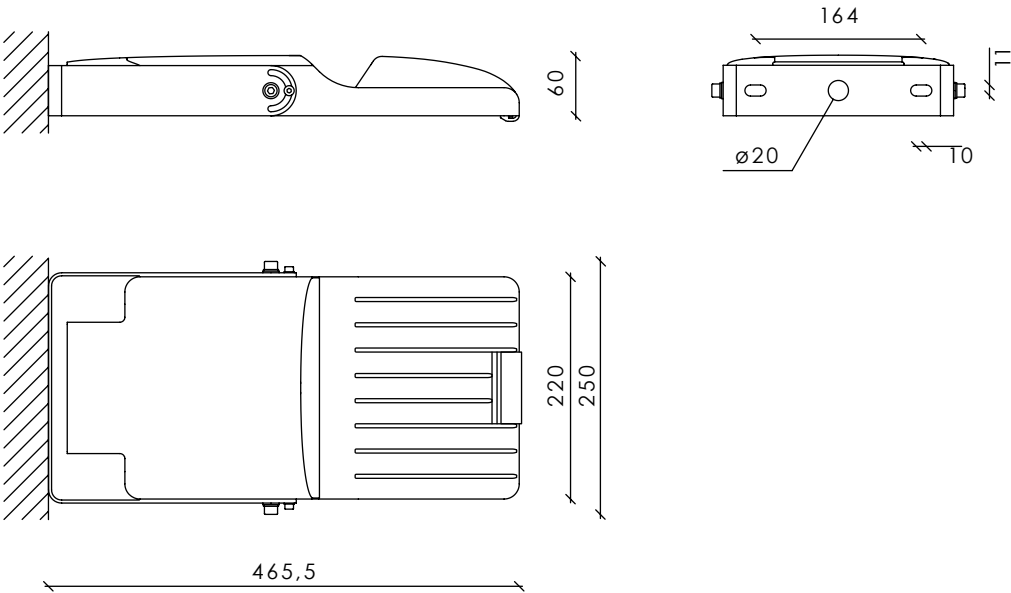
Number of LED's	16 *			32 *			48 *			
Nominal current, mA	350	500	720	350	500	700	350	520	700	760
Power, W	18	26	37	37	50	68	53	76	102	110
Luminous Flux, lm	2230	3230	4460	4870	6488	8474	7194	9953	12813	13550
Efficacy, lm/W	124	124	121	131	130	125	136	131	126	123
Power factor, PF	0,89	0,95	0,97	0,95	0,97	0,97	0,96	0,98	0,96	0,97

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



Lunel | France

MINI MARTIN
Floodlight | tool-less



DB703

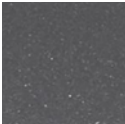
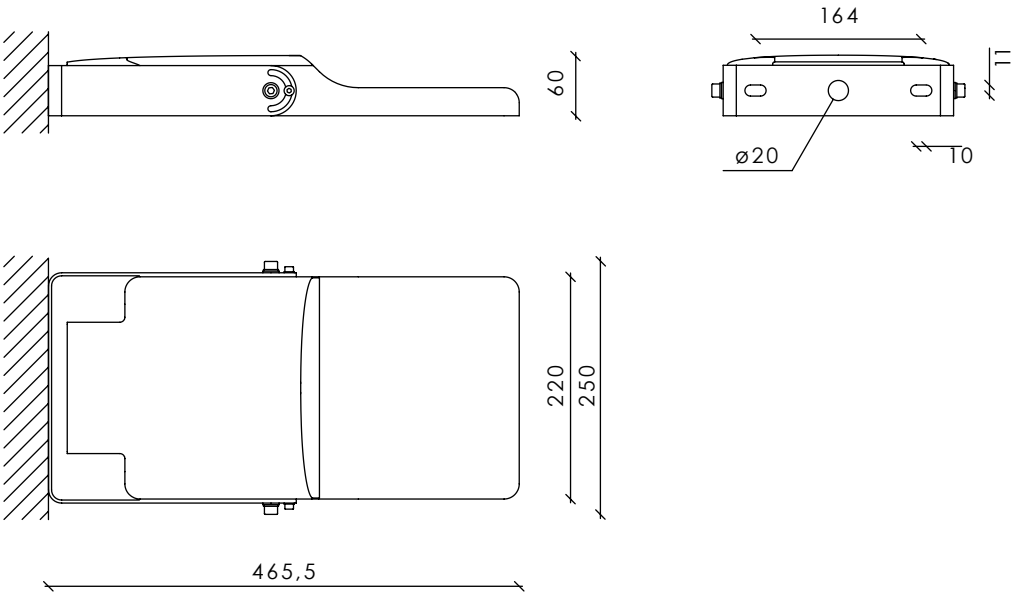


RAL9006

OTHER COLORS AVAILABLE ON REQUEST



MINI MARTIN
Floodlight | smooth



DB703

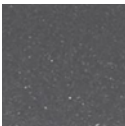
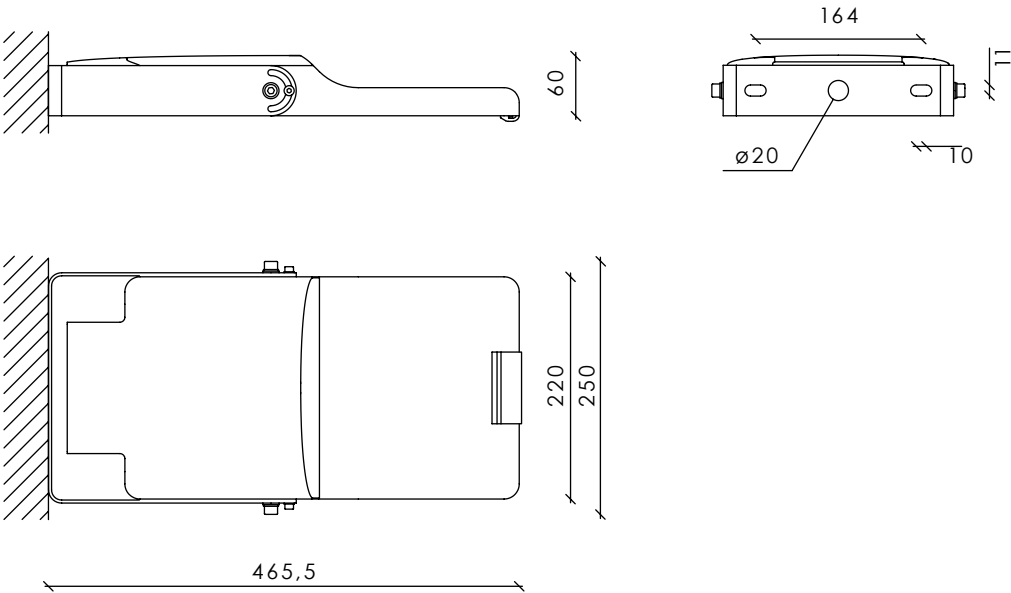


RAL9006

OTHER COLORS AVAILABLE ON REQUEST



MINI MARTIN
Floodlight | tool-less smooth



DB703

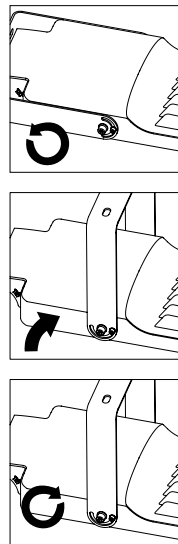
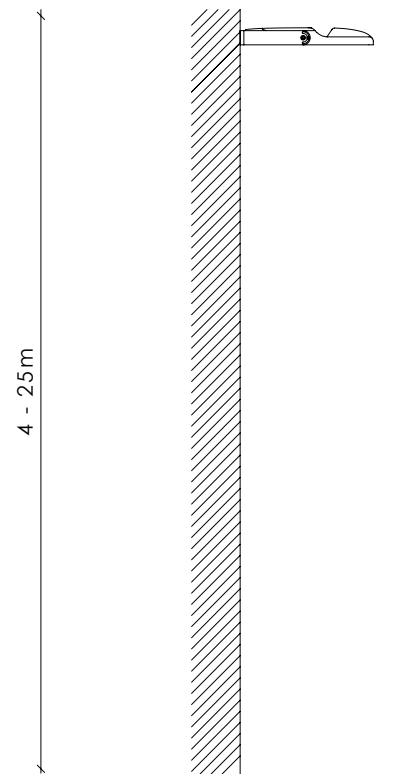


RAL9006

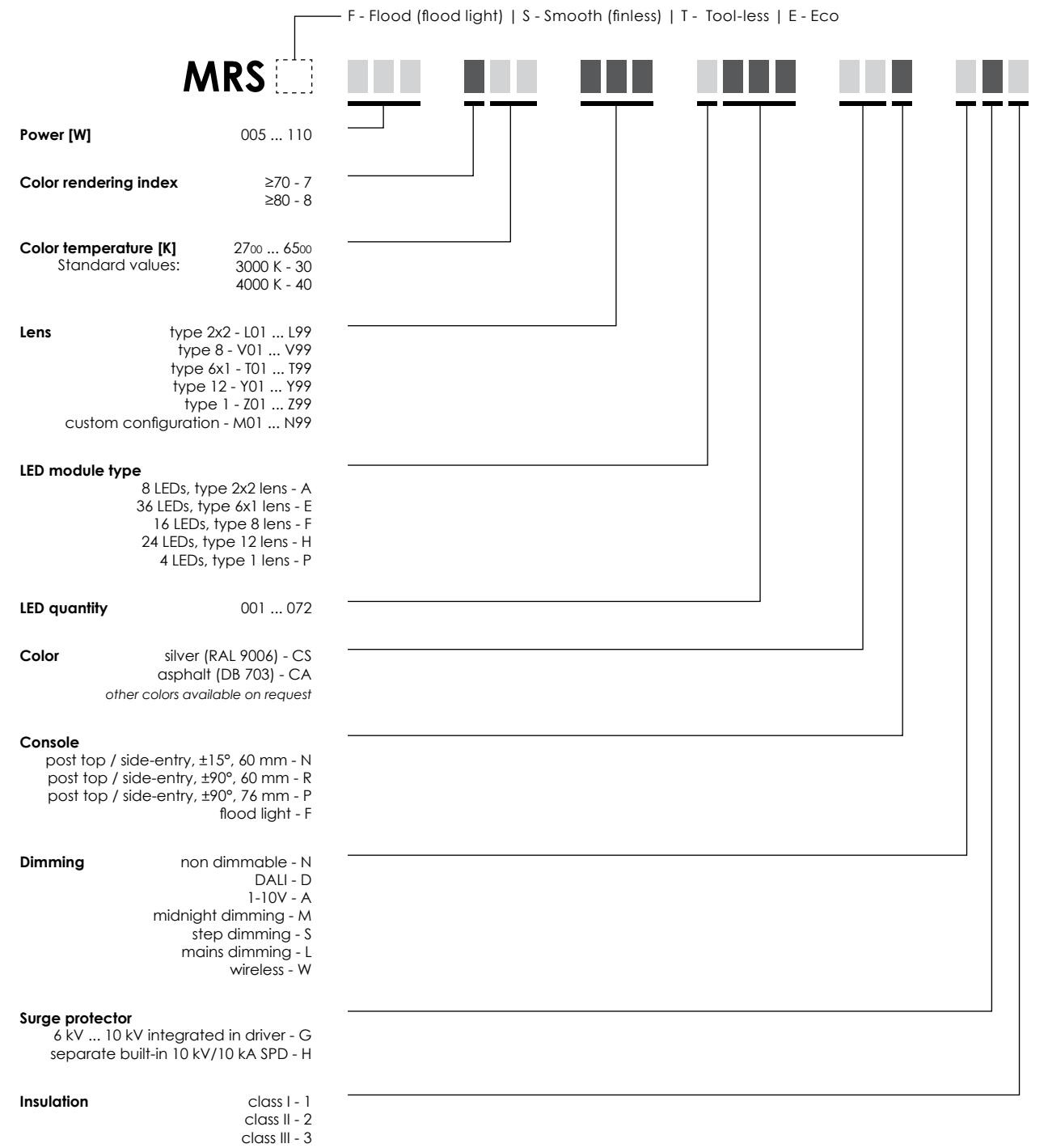
OTHER COLORS AVAILABLE ON REQUEST



| Console



| Model name principles



EXAMPLE MRSF 005 730 L99 A001 CSN NG1

MICRO MARTIN Floodlight



With fins



Smooth

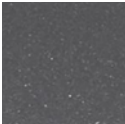
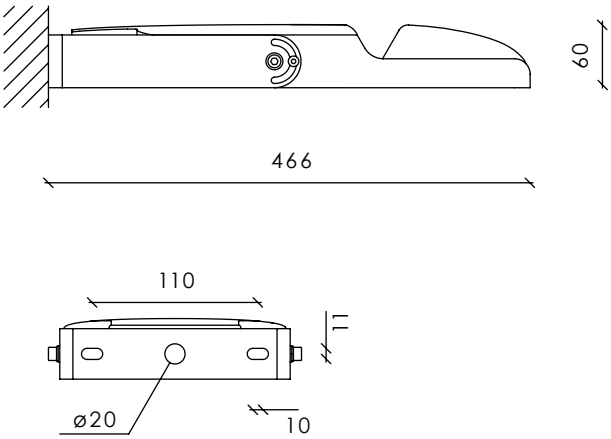


Tool-less



Tool-less | Smooth

MICRO MARTIN
Floodlight | with fins



DB703



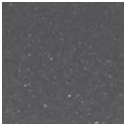
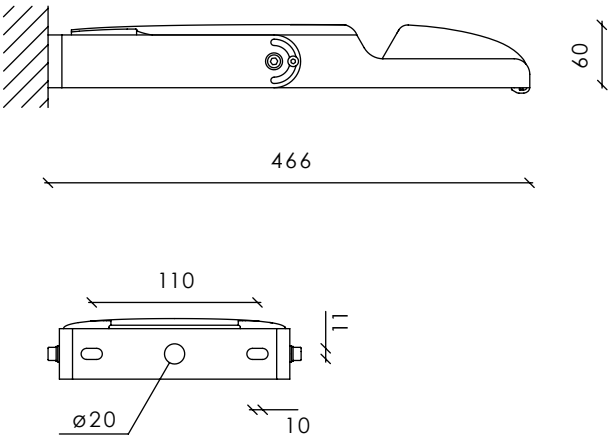
RAL9006

OTHER COLORS AVAILABLE ON REQUEST



MICRO MARTIN

Floodlight | tool-less



DB703



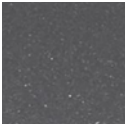
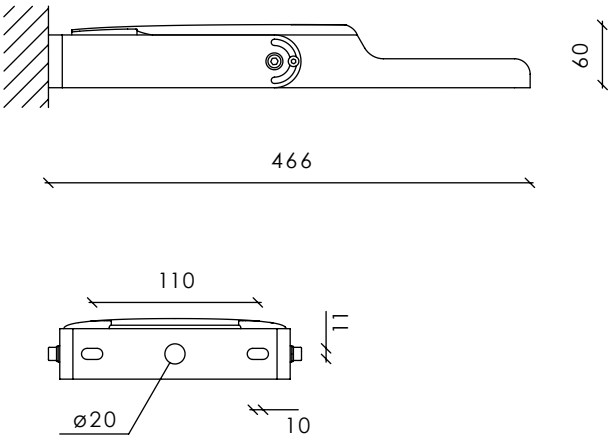
RAL9006

OTHER COLORS AVAILABLE ON REQUEST



MICRO MARTIN

Floodlight | smooth



DB703



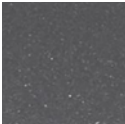
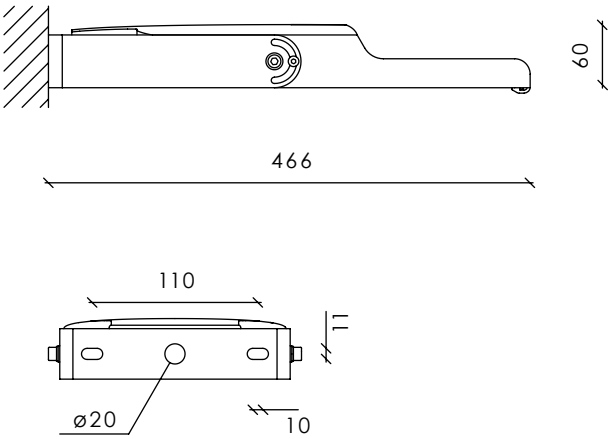
RAL9006

OTHER COLORS AVAILABLE ON REQUEST



MICRO MARTIN

Floodlight | tool-less smooth



DB703



RAL9006

OTHER COLORS AVAILABLE ON REQUEST



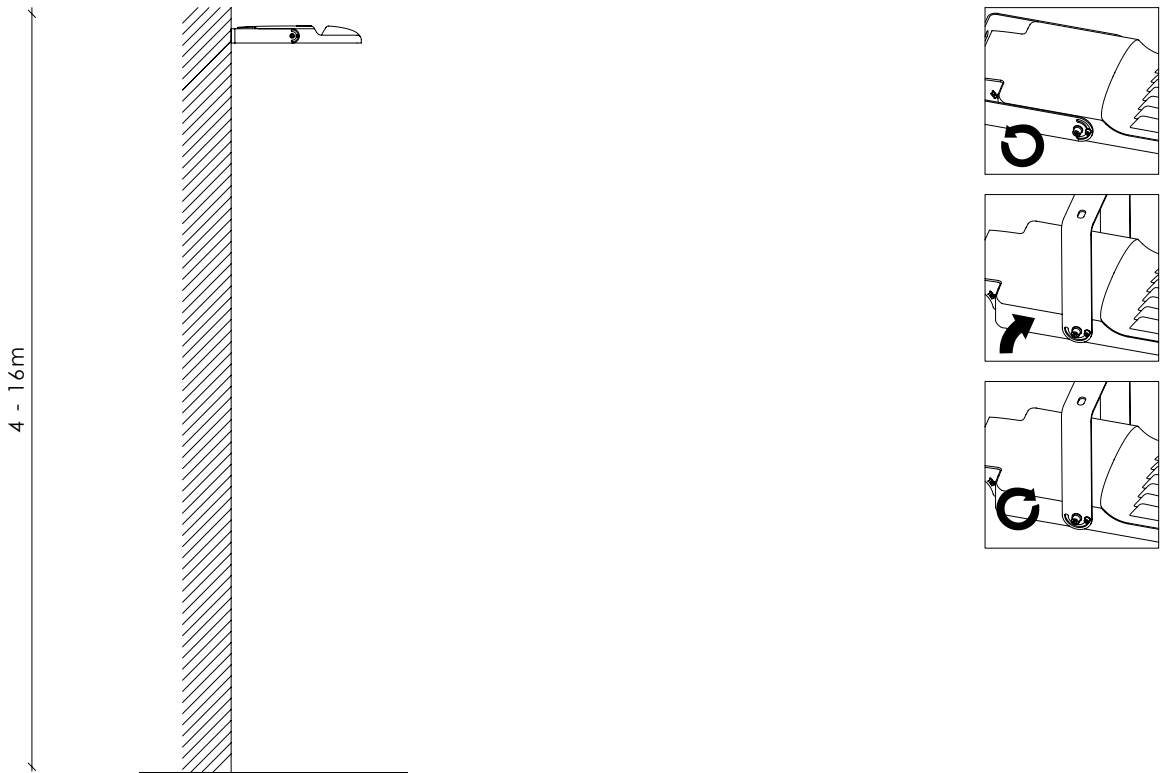
Technical information

V 220 - 240	Chromaticity tolerance (initial MacAdam): 5	  IP66 IK08
Hz 50 - 60	1-10V; DALI; Midnight dimming	
W 5 - 75	Die-cast aluminum	
Im 470 - 8875	Surge protection: 6kV / seperate built-in 10 kV	
Im/W 90 - 132	Radio frequency	
K 3000 / 4000	Warranty 5 years	
°C -40 to +50	100 000 h (L95B10) at Ta = 25 °C	
CRI >70 / >80 ¹⁾		

1 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

Console



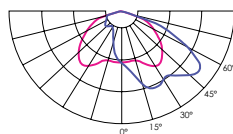
Model name principles

MRU 	
Power [W]	005 ... 075
Color rendering index	≥70 - 7 ≥80 - 8
Color temperature [K] Standard values:	2700 ... 6500 3000 K - 30 4000 K - 40
Lens	type 2x2 - L01 ... L99 type 8 - V01 ... V99 custom configuration - M01 ... N99
LED module type	8 LEDs, type 2x2 lens - A 16 LEDs, type 8 lens - F
LED quantity	001 ... 032
Color	sliver (RAL 9006) - CS asphalt (DB 703) - CA other colors available on request
Console	post top / side-entry, ±15°, 60 mm - N post top / side-entry, ±90°, 60 mm - R post top / side-entry, ±90°, 76 mm - P flood light - F
Dimming	non dimmable - N DALI - D 1-10V - A midnight dimming - M step dimming - S mains dimming - L wireless - W
Surge protection	6 kV ... 10 kV integrated in driver - G seperate built-in 10 kV/10 kA SPD - H
Insulation	class I - 1 class II - 2 class III - 3

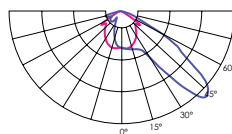
EXAMPLE MRUF 005 730 L99 A001 CSN NG1

| Optics Floodlight

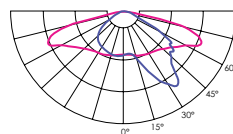
07



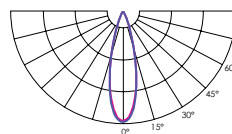
08



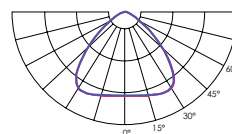
09



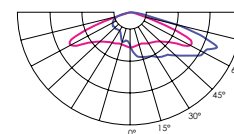
13



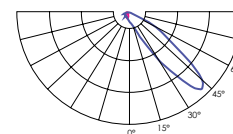
24



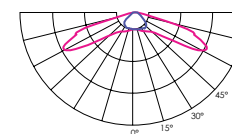
35



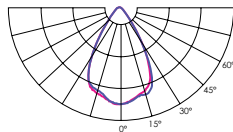
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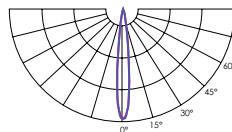
43



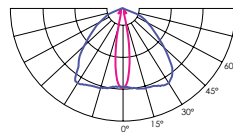
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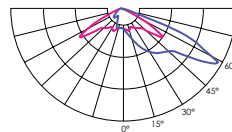
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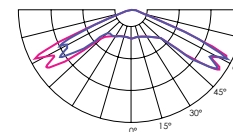
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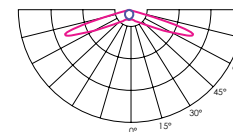
M17



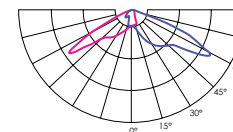
44



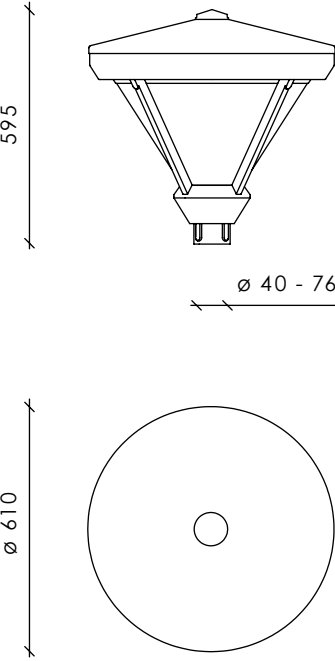
45



48



CROCUS



V	220 - 240	Chromaticity tolerance (initial MacAdam): 5
Hz	50 - 60	1-10V; DALI; Midnight dimming
W	15 - 100	Surge protection: 6kV (L-N) and
lm	1275 - 11280	10 kV (L/N -PE without DALI connection) ¹²
lm/W	108 - 122	Radio frequency / Power line
K	3000 / 4000	Warranty 5 years
°C	-40 to +40	>70 000 h (L90B10) at Ta = 25 °C ¹³
CRI	>70 / >80 ¹¹	



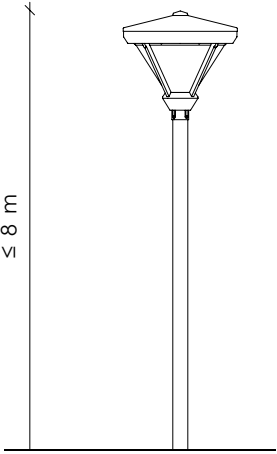
- 1 Luminaries with color rendering index (CRI): Ra >90 on request
2 10 kV (L-N; L/N-PE) surge protection device available on request
3 This value is only informative and may change according to selected article

Standard modules

4000K

Number of LED's	16			32			48		
Nominal current, mA	350	500	720	350	500	700	350	500	700
Power, W	18	26	37	37	49	68	54	73	100
Luminous Flux, lm	2030	2880	3980	4390	5740	7600	6570	8560	11280
Efficacy, lm/W	113	111	108	119	117	112	122	117	111
Power factor, PF	0,9	0,95	0,97	0,95	0,97	0,97	0,96	0,97	0,98

Console



BELL



V	220 - 240	Chromaticity tolerance (initial MacAdam): 5
Hz	50 - 60	1-10V; DALI; Midnight dimming
W	15 - 82	Surge protection: 6kV (L-N) and
lm	1375 - 10780	10 kV (L/N -PE without DALI connection) ¹²
lm/W	120 - 138	Radio frequency / Power line
K	3000 / 4000	Warranty 5 years
°C	-40 to +40	>70 000 h (L90B10) at Ta = 25 °C ¹³
CRI	>70 / >80 ¹¹	

⏚
CE
ENEC05
KEMA
KEUR
RoHS
IP54
IK08

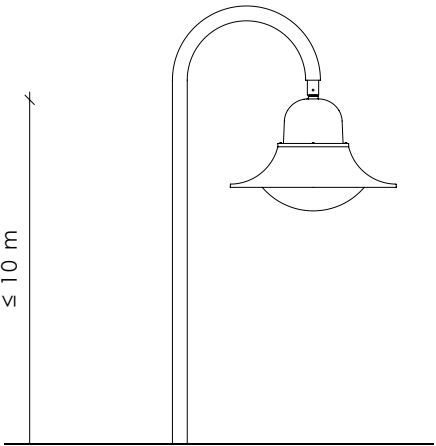
- 1 Luminaries with color rendering index (CRI): Ra >90 on request
2 10 kV (L-N; L/N-PE) surge protection device available on request
3 This value is only informative and may change according to selected article

Standard modules

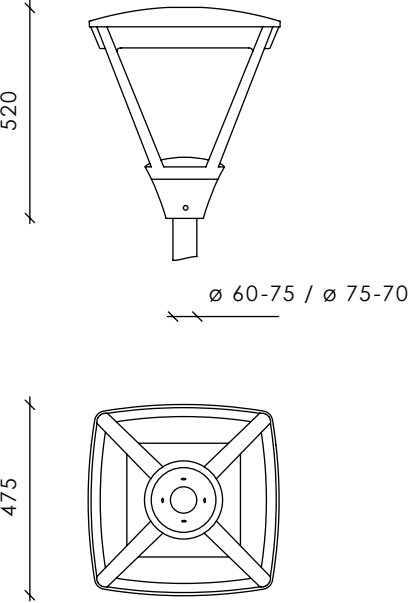
4000K

Number of LED's	16			32			48		
Nominal current, mA	270	520	720	370	520	690	350	520	570
Power, W	15	27	37	37	51	68	53	75	82
Luminous Flux, lm	1910	3460	4600	5060	6860	8670	7290	9960	10780
Efficacy, lm/W	127	128	124	137	135	128	138	133	131
Power factor, PF	0,85	0,95	0,97	0,95	0,97	0,97	0,96	0,98	0,98

| Console



LILLY



V 220 - 240
Hz 50 - 60
W 18 - 100
lm 1625 - 10390 ⁽¹⁾
lm/W 90 - 112 ⁽¹⁾
K 3000 / 4000
°C -40 to +40
CRI >70 / >80 ⁽²⁾

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



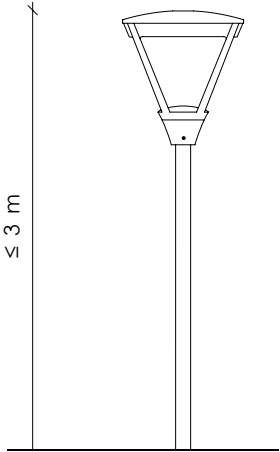
- 1 Preliminary data
- 2 Luminaries with color rendering index (CRI): Ra >90 on request
- 3 10 kV (L-N; L/N-PE) surge protection device available on request
- 4 This value is only informative and may change according to selected article

Standard modules

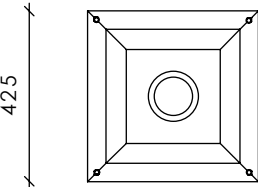
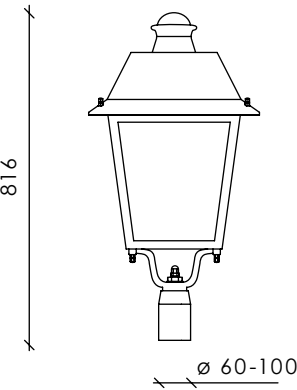
4000K

Number of LED's	16			32			48		
Nominal current, mA	350	520	730	370	510	690	370	520	690
Power, W	15	27	37	37	50	68	53	75	100
Luminous Flux, lm	1540	2790	3740	4090	5450	7090	5960	8140	10390
Efficacy, lm/W	103	103	101	111	109	104	112	109	104
Power factor, PF	0,85	0,95	0,97	0,95	0,97	0,97	0,96	0,98	0,98

Console



ORRIS Basic



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⁾

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



- 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

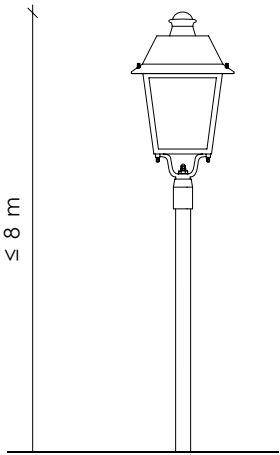
Standard modules

High Density modules

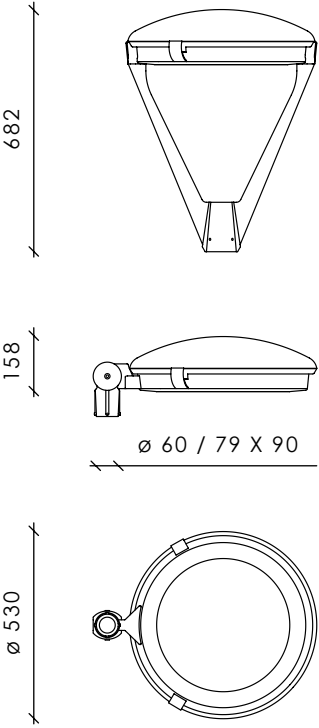
4000K

Number of LED's	8			16			16			32		
Nominal current, mA	330	500	700	350	500	700	330	500	700	350	500	750
Power, W	10	14	19	19	26	36	18	26	36	35	50	75
Luminous Flux, lm	990	1430	1930	2090	2880	3870	2010	2890	3870	4190	5810	8050
Efficacy, lm/W	99	102	102	110	111	108	112	111	108	120	116	107
Power factor, PF	0,8	0,83	0,91	0,9	0,95	0,97	0,8	0,83	0,91	0,9	0,95	0,97

Console



ALLIUM



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⁾

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



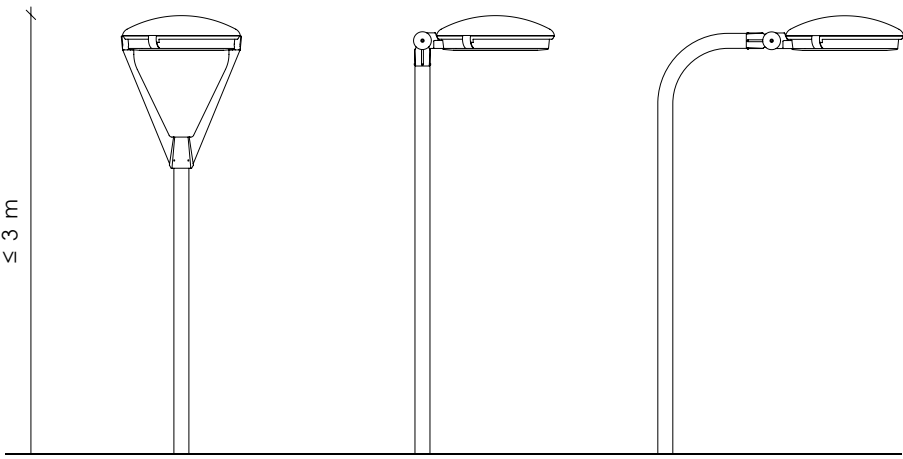
- ¹ Preliminary data
- ² Luminaries with color rendering index (CRI): Ra >90 on request
- ³ 10 kV (L-N; L/N-PE) surge protection device available on request
- ⁴ This value is only informative and may change according to selected article

Standard modules

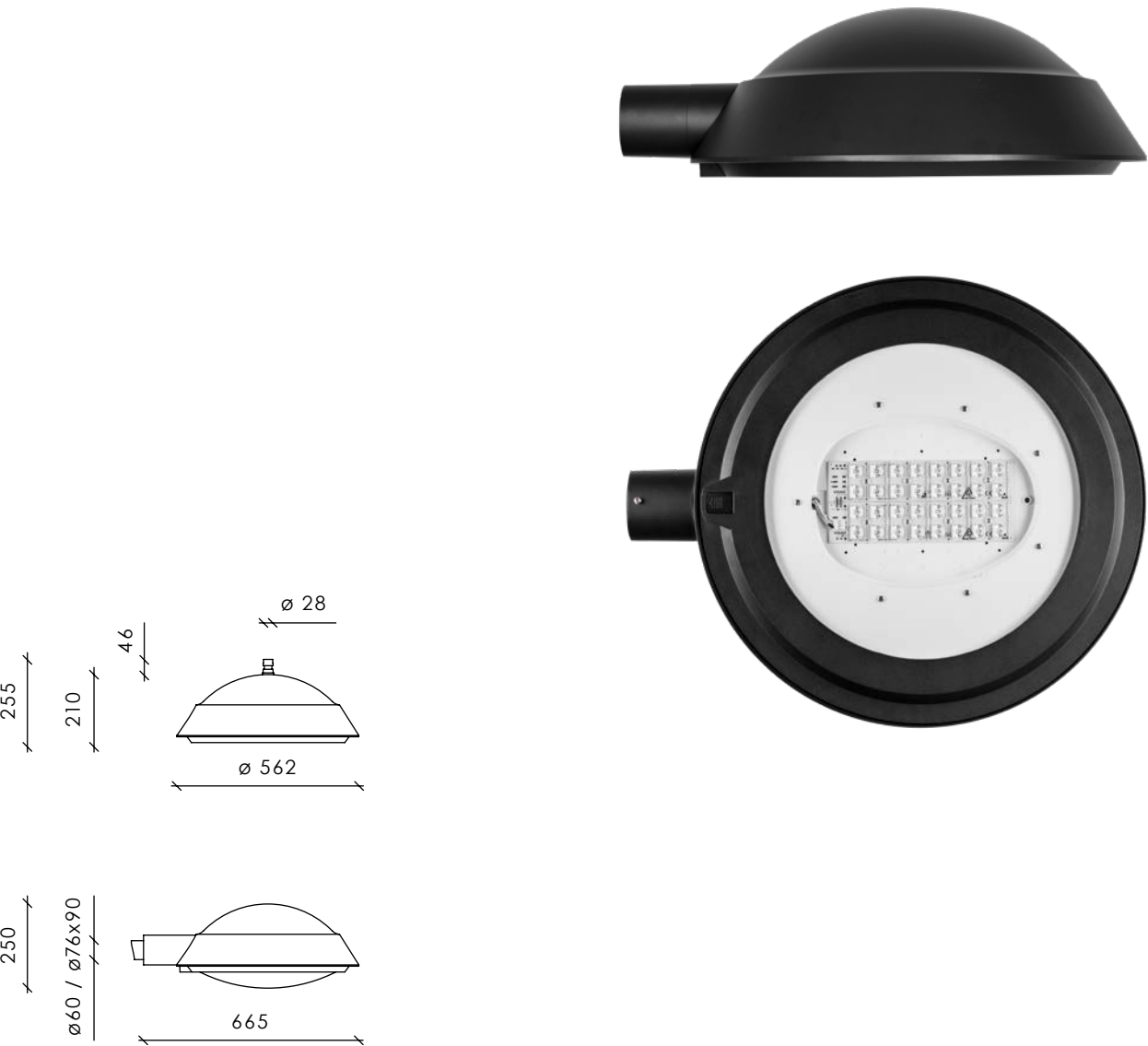
4000K

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

Console



LATANA



V	220 - 240	Chromaticity tolerance (initial MacAdam): 5
Hz	50 - 60	1-10V; DALI; Midnight dimming
W	15 - 70	Surge protection: 6kV (L-N) and
lm	1820 - 8600	10 kV (L/N -PE without DALI connection) ¹²
lm/W	121 - 131	Radio frequency
K	3000 / 4000	Warranty 5 years
°C	-40 to +40	>70 000 h (L90B10) at Ta = 25 °C ¹³
CRI	>70 / >80 ¹¹	



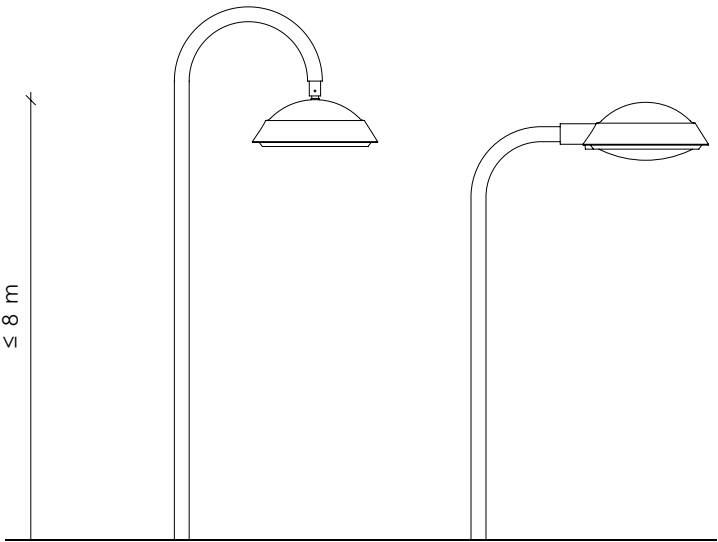
- 1 Luminaries with color rendering index (CRI): Ra >90 on request
2 10 kV (L-N; L/N-PE) surge protection device available on request
3 This value is only informative and may change according to selected article

Standard modules

4000K

Number of LED's	16			32		
Nominal current, mA	270	520	730	370	520	700
Power, W	15	27	37	37	51	70
Luminous Flux, lm	1820	3300	4430	4840	6560	8600
Efficacy, lm/W	121	122	120	131	129	123
Power factor, PF	0,85	0,95	0,97	0,95	0,97	0,97

Console



ACORN Deco



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⁾

Chromaticity tolerance (initial MacAdam): 5
1-10V; DALI; Midnight dimming
Surge protection: 6kV (L-N) and
10 kV (L/N -PE without DALI connection) ⁽³⁾
Radio frequency ⁽⁴⁾
Warranty 5 years
100 000 h (L90B10) at Ta = 25 °C ⁽⁵⁾



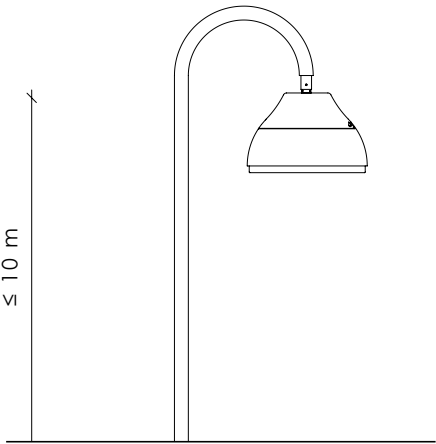
1 5000; 5700 K available on request
2 Luminaries with color rendering index (CRI): Ra >90 on request
3 10 kV (L-N; L/N-PE) surge protection device available on request
4 Optional. Available only with DALI ; 1 - 10 V
5 at Ta=25°, this value is only informative and may change according to selected article.

Standard modules

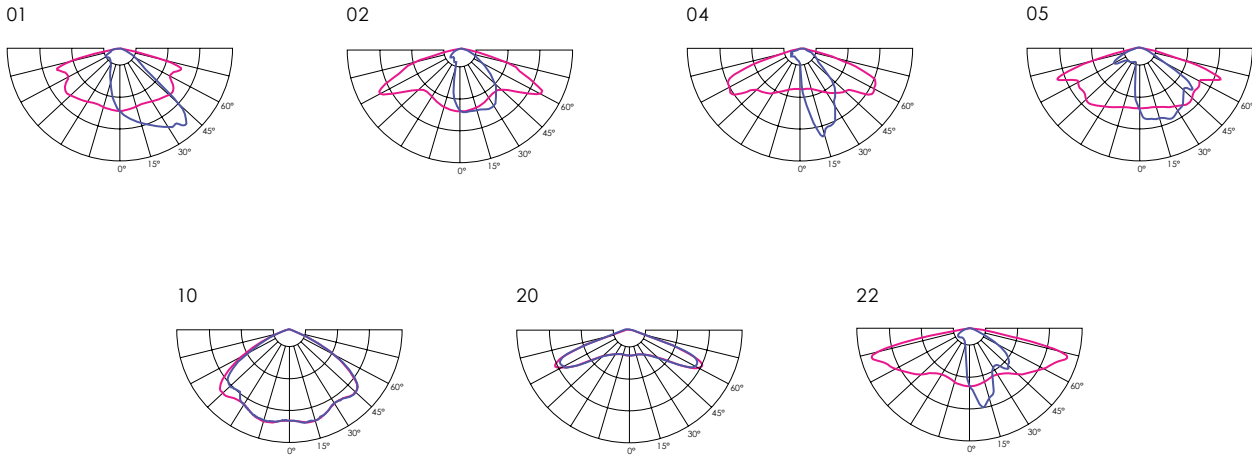
4000 K

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

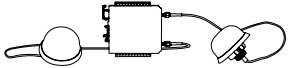
Console



| **Optics** Park & Old town luminaires



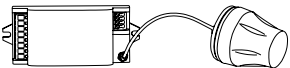
| **Accessories**



Citintelly Segment controller

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

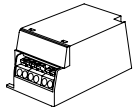
Art. 70010004



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) $\leq 1,5$ kV

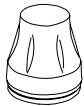
Voltage Protection level up (L/N-PE) $\leq 2,0$ kV

$U_{oc} = 10$ kV

$I_{max} = 10$ kA

$I_{nom} = 5$ kA

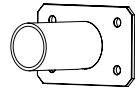
Art. 70020001



Radio Frequency Antenna

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

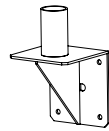
Art. 70000108



Wall mounting bracket

Spigot size 40 - 60 mm

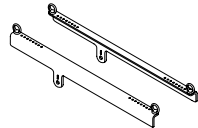
Art.70044001



Wall mounting bracket

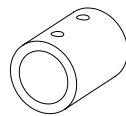
Vertical

Art.70044004



High Bay Suspension brackets

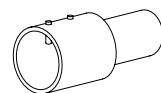
Art. 70000101



Console adapter

40mm to 30mm

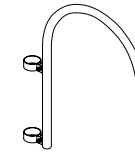
Art. 70055002



Console adapter

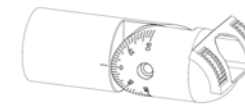
Spigot size 60 - 76 mm

Art.70044002



Console

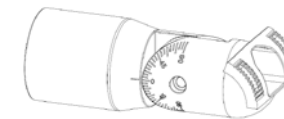
Art. 70054001



Adjustable Console $\pm 90^\circ$

60 mm - Mini Martin / Micro Martin

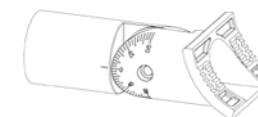
Art. 70055005



Adjustable Console $\pm 90^\circ$

76 mm - Mini Martin / Micro Martin

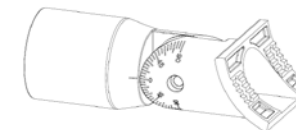
Art. 70055006



Adjustable Console $\pm 90^\circ$

60 mm - Stork/ Stork LB

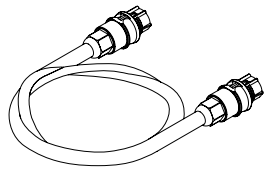
Art. 70044012



Adjustable Console $\pm 90^\circ$

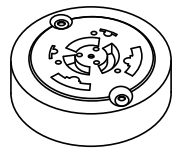
76 mm - Stork/ Stork LB

Art. 70044013



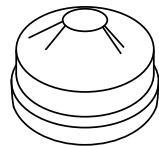
**Pre-installed cable sets
For external power supply**

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



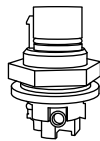
NEMA Socket

2213362-3, 5 pin NEMA socket 105°C wires	Art. 70000362
2213362-4, 7 pin NEMA socket 105°C wires	Art. 70000333



Dummy Link for NEMA Socket

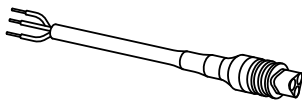
Art.70000113



Device connector

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

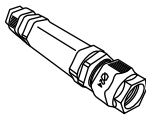
Art.70000315



Connection cable

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

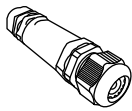
Art. 70000363



Connector

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

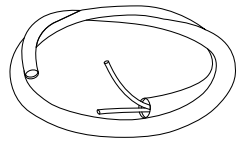
Art.70000313



Connector

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

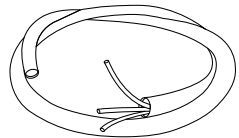
Art.70000304



Pre-installed cable sets

For internal power supply:

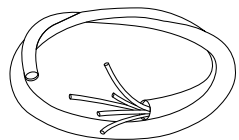
2 x 1,5mm - 0,5m long cable	Art. 70000418
2 x 1,5mm - 5m long cable	Art. 70000342
2 x 1,5mm - 6m long cable	Art. 70000337
2 x 1,5mm - 8m long cable	Art. 70000344
2 x 1,5mm - 10m long cable	Art. 70000338
2 x 1,5mm - 12m long cable	Art. 70000345
2 x 1,5mm - 18m long cable	Art. 70000419



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 - 42 m long cable	Art. 70000435

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