

Sigma

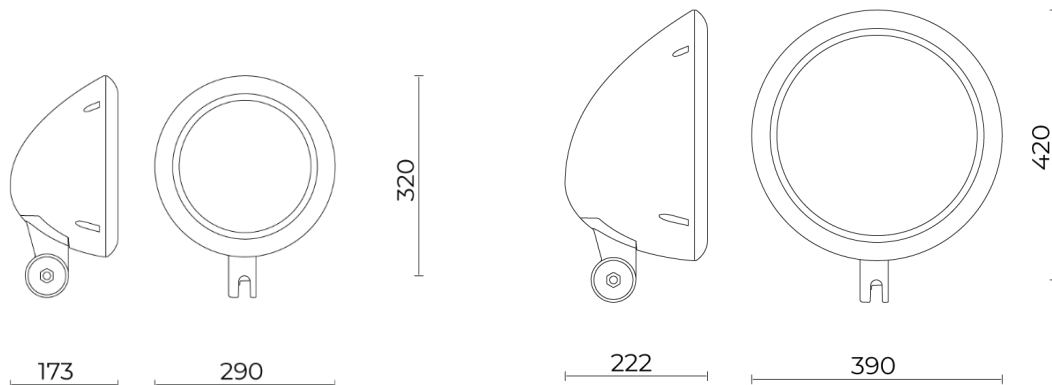
Options: small, medium
Colour temperature: 4000K / 3000K / 2200K on request
Type of optics: ultra-narrow beam U-C 6°
narrow beam C 11°
medium beam M 25°
wide beam D 40°
wall washer WW
ultra-wide beam U-D 90°
ellipsoidal E 12°-50°

06SG _____

Colour: Sablé 100 Noir

Small

Medium



General features

Description: LED system for the illumination of façades, walkways and urban spaces

Insulation class: class II (class I on request)

Nominal voltage: 220-240 V / 50-60 Hz

Protection level: IP66

Protection against impact: IK09 – IK08 (U-D 90°)

Power factor: > 0.9

Ambient temperature Ta: -30° C +50° C

Weight: small 5.1 kg; medium 9.1 kg

Maximum exposed surface: small 0.068 m²; medium 0.13 m²

Lateral exposed surface: small 0.042 m²; medium 0.075 m²

Common mode surge protection: 10 kV

Differential mode surge protection: 6 kV

Driver: included

Marks and Certifications: ENEC (medium version) / CE

Classification: CUT OFF

Materials

Body: die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%) of suitable thickness and with structural reinforcement to avoid tension which may lead to damage or cracks during standard use

Screen: flat tempered glass

Optical unit: high-transparency PMMA lenses

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Line Sheet

Rev 07.09.23

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Colour: Sablé 100 Noir

Seal: expanded silicone

External screws and metal components: AISI 304 stainless steel

Internal screws: chrome-plated steel

Wiring plate: galvanised steel

Finish: phosphochromatisation-treated and polyester powder-coated in 16 phases for optimal weather resistance

Colours

Sablé 100 Noir

Installation and maintenance

Installation: wall / arm / pole side

Pole diameter: Ø 60 - 76 - 102 mm

Inclination: infinitely-adjustable -90° +35°; infinitely-adjustable pointing and fixing system

Pole side fitting: upwards installation on pole arm (for 60-76-102 mm Ø poles) with adjustable joint made of die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%), polyester powder-coated Sablé 100 Noir

Wall fitting: with adjustable joint (-90° +35°) offering ±30° rotation, made in die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%), polyester powder-coated Sablé 100 Noir

Wiring: pre-wired product with 200 mm L. wire and 4-pole connector

Ø power cable: 10 ÷ 14 mm

1 x 0.75 mm² double-insulated silicone rubber flexible cables

Cable gland: PG16

Optical unit substitutability: substitution of the LED units

Wiring plate substitutability: removable plate

Optical system

Provided with 4000K and 3000K white emitters fitted via a "pick and place" system to a heat sinking metal core printed circuit board (MCPCB). Optical system composed of high-transparency poly-methyl-methacrylate lenses developed in order that each light source provides full photometry. This solution guarantees that the malfunctioning of an individual LED will not lead to less-illuminated areas, but at most will cause an overall decrease in the percentage of light over the entire area covered.

CRI (colour rendering index): ≥ 80 SDCM≤3;

Optical unit life expectancy: >100.000h @Ta25°C L80B10

Driver life expectancy: 100.000 h @ 700mA @ Ta 25° C

Photobiological safety class: EXEMPT GROUP

ULOR: 0% - DLOR: 100%

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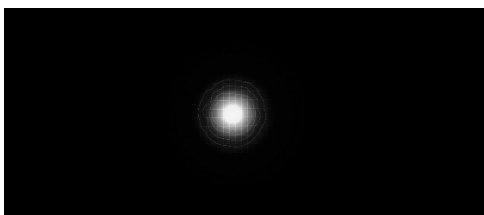
Light intensity category: G*6

Normative framework

EN60598-1 / EN60598-2-3 / EN62471 / EN61547

Optics

UC-6° 4000K 700mA



SIGMA SMALL 32,5W

H (m)	Ø (m)	Em (lux)
1	0.1	340894
2	0.2	85223
3	0.3	37877
4	0.4	21305
5	0.5	13636

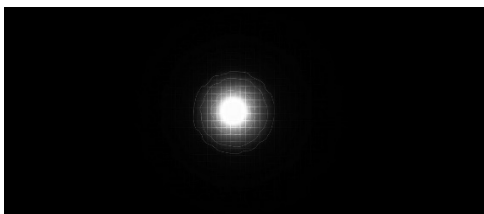
SIGMA MEDIUM 67W

H (m)	Ø (m)	Em (lux)
1	0.1	276787
2	0.2	69196
3	0.3	30754
4	0.4	17299
5	0.5	11072

SIGMA MEDIUM 99,5W

H (m)	Ø (m)	Em (lux)
2	0.1	193231
4	0.2	48307
6	0.3	21470
8	0.4	12077
10	0.5	7730

C-11° 4000K 700mA



SIGMA SMALL 31,5W

H (m)	Ø (m)	Em (lux)
1	0.18	49646
2	0.35	12411
3	0.50	5516
4	0.70	3103
5	0.85	1986

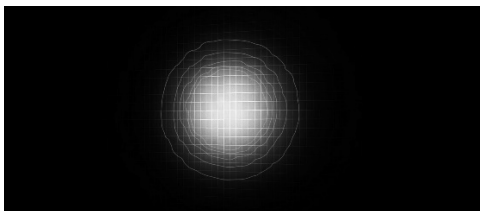
SIGMA MEDIUM 65,5W

H (m)	Ø (m)	Em (lux)
1	0.18	99291
2	0.35	24823
3	0.50	11032
4	0.70	6206
5	0.85	3972

SIGMA MEDIUM 97W

H (m)	Ø (m)	Em (lux)
2	0.36	33614
4	0.70	8403
6	1	3734
8	1.4	2100
10	1.7	1344

M25° 4000K 700mA



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Colour: Sablé 100 Noir

SIGMA SMALL 31,5W

H (m)	Ø (m)	Em (lux)
1	0.45	11593
2	0.85	5898
3	1.3	1288
4	1.7	725
5	2.2	464

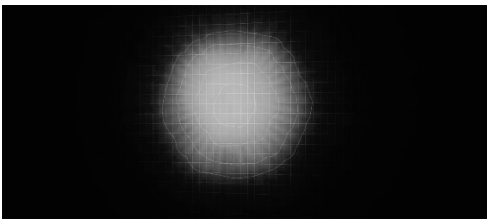
SIGMA MEDIUM 65,5W

H (m)	Ø (m)	Em (lux)
1	0.45	23186
2	0.85	5796
3	1.3	2576
4	1.7	1449
5	2.2	927

SIGMA MEDIUM 97W

H (m)	Ø (m)	Em (lux)
2	0.90	7848
4	1.7	1962
6	2.6	872
8	3.4	490
10	4.4	314

D40° 4000K 700mA



SIGMA SMALL 31,5W

H (m)	Ø (m)	Em (lux)
1	0.6	6332
2	1.2	1583
3	1.75	704
4	2.3	396
5	2.9	253

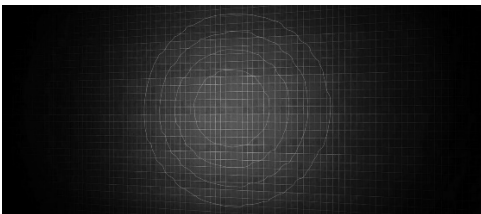
SIGMA MEDIUM 65,5W

H (m)	Ø (m)	Em (lux)
1	0.6	12664
2	1.2	3166
3	1.75	1407
4	2.3	792
5	2.9	507

SIGMA MEDIUM 97W

H (m)	Ø (m)	Em (lux)
2	1.2	4287
4	2.4	1072
6	3.5	475
8	4.6	268
10	5.8	171

U-D 90° 4000K 700mA



SIGMA SMALL 31,5W

H (m)	Ø (m)	Em (lux)
1	2	565
2	4.2	141
3	6.3	63
4	8.5	35
5	10.6	23

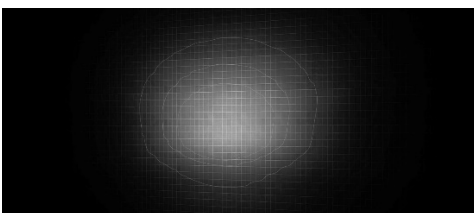
SIGMA MEDIUM 65,5W

H (m)	Ø (m)	Em (lux)
1	2	1131
2	4.2	283
3	6.3	126
4	8.5	71
5	10.6	45

SIGMA MEDIUM 97W

H (m)	Ø (m)	Em (lux)
1	2	1530
2	4.2	382
3	6.3	169
4	8.5	96
5	10.6	61

WW° 4000K 700mA



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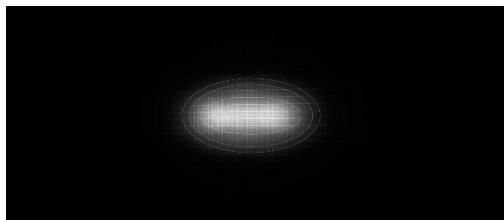
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Colour: Sablé 100 Noir

E 12°-50° 4000K 700mA



SIGMA SMALL 31,5W

H (m)	Ø (m)	Em (lux)
1	0.9x0.2	9828
2	2x0.45	2457
3	3x0.65	1092
4	4x0.9	614
5	4.8x1	393

SIGMA MEDIUM 65,5W

H (m)	Ø (m)	Em (lux)
1	0.9x0.2	19655
2	2x0.45	4914
3	3x0.65	2184
4	4x0.9	1228
5	4.8x1	786

SIGMA MEDIUM 97W

H (m)	Ø (m)	Em (lux)
2	1.8x0.4	6653
4	4x0.9	1663
6	6x1.3	739
8	8x1.8	415
10	9.6x2	266

Performance data

OPTICS: ULTRA-NARROW BEAM U-C 6°									
Options	Sources	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
small	L4	700	4000	3905	32,5	120	3480	36	97
small	L4	525	4000	3115	23,5	133	2775	27,5	101
small	L4	350	4000	2225	16	139	1980	19	104
medium	L8	700	4000	7640	67	114	6805	72,5	94
medium	L8	525	4000	6145	49	125	5475	54	101
medium	L8	350	4000	4410	32	138	3930	36	109
medium	L12	700	4000	11165	99,5	112	9945	107	93
medium	L12	525	4000	9060	73	124	8070	79	102
medium	L12	350	4000	6555	47,5	138	5835	52,5	111
small	L4	700	3000	3625	32,5	112	3240	36	90
small	L4	525	3000	2895	23,5	123	2585	27,5	94

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small	L4	350	3000	2065	16	129	1845	19	97
medium	L8	700	3000	7095	67	106	6340	72,5	87
medium	L8	525	3000	5705	49	116	5095	54	94
medium	L8	350	3000	4095	32	128	3660	36	102
medium	L12	700	3000	10370	99,5	104	9260	107	87
medium	L12	525	3000	8410	73	115	7510	79	95
medium	L12	350	3000	6085	47,5	128	5435	52,5	104

OPTICS: NARROW BEAM C11° / MEDIUM BEAM M25° / WIDE BEAM D40°									
Options	Sources	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
small	L4	700	4000	4550	31,5	144	3970	35	113
small	L4	525	4000	3575	23	155	3125	26,5	118
small	L4	350	4000	2495	15,5	161	2180	19	115
medium	L8	700	4000	9045	65,5	138	7900	71	111
medium	L8	525	4000	7125	48	148	6225	53	117
medium	L8	350	4000	5135	31,5	163	4480	35,5	126
medium	L12	700	4000	13155	97	136	11485	104,5	110
medium	L12	525	4000	10480	72	146	9150	78	117
medium	L12	350	4000	7360	47	157	6430	51,5	125

OPTICS: NARROW BEAM C11° / MEDIUM BEAM M25° / WIDE BEAM D40°									
Options	Sources	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
small	L4	700	3000	4395	31,5	140	3780	35	108
small	L4	525	3000	3460	23	150	2975	26,5	112
small	L4	350	3000	2410	15,5	155	2075	19	109
medium	L8	700	3000	8745	65,5	134	7515	71	106
medium	L8	525	3000	6890	48	144	5925	53	112
medium	L8	350	3000	4805	31,5	153	4130	35,5	116
medium	L12	700	3000	12175	97	126	10470	104,5	100
medium	L12	525	3000	10130	72	141	8710	78	112
medium	L12	350	3000	7115	47	151	6120	51,5	119

OPTICS: WALL WASHER / ULTRA-WIDE BEAM U-D 90° / ELLIPSOIDAL 12°-50°									
Options	Sources	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
small	L4	700	4000	4550	31,5	144	3385	35	97
small	L4	525	4000	3575	23	155	2660	26,5	100

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small	L4	350	4000	2495	15,5	161	1855	19	98
medium	L8	700	4000	9045	65,5	138	6730	71	95
medium	L8	525	4000	7125	48	148	5305	53	100
medium	L8	350	4000	5135	31,5	163	3800	35,5	107
medium	L12	700	4000	13155	97	136	9785	104,5	94
medium	L12	525	4000	10480	72	146	7795	78	100
medium	L12	350	4000	7360	47	157	5480	51,5	106

OPTICS: WALL WASHER / ULTRA-WIDE BEAM U-D 90° / ELLIPSOIDAL 12°-50°									
Options	Sources	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
small	L4	700	3000	4395	31,5	140	3220	35	92
small	L4	525	3000	3460	23	150	2535	26,5	96
small	L4	350	3000	2410	15,5	155	1765	19	93
medium	L8	700	3000	8745	65,5	134	6405	71	90
medium	L8	525	3000	6890	48	144	5045	53	95
medium	L8	350	3000	4805	31,5	153	3520	35,5	99
medium	L12	700	3000	12175	97	126	8890	104,5	85
medium	L12	525	3000	10130	72	141	7420	78	95
medium	L12	350	3000	7115	47	151	5215	51,5	101

Data of the lighting source flux and efficiency refer to the LED module, without lenses. In case you need data of the LED module complete with lenses, please multiply the mentioned data by 0.9 factor.

Values indicated in this technical sheet are to be considered nominal values with a tolerance of +/-7%.

Legend

mA = Power supply

K = Colour temperature:

φ mod [lm] = Source flux

P mod [W] = Source power

η mod [lm/W] = Source efficiency

φ app [lm] = Unit flux

P app [W] = Unit power

η app [lm/W] = Unit efficiency

Flux regulation

Group Management: DALI (standard)

DALI — This is a digital control system where every device is assigned a unique address that allows individual light points to be controlled and control groups to be created.

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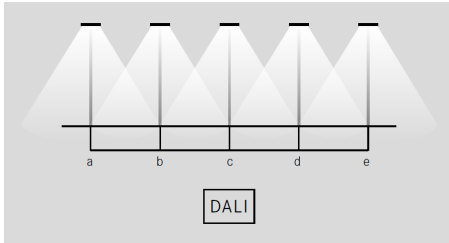
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