

Line sheet

04.10.23

Levante 2.0

Options:

small, medium

Colour temperature: 2200K / 3000K / 4000K (street asymmetrical and asymmetrical optics)

3000K / 4000K (projection optics)

Type of optics:

asymmetrical street ST-02, ME-05, LA-03, PB-01

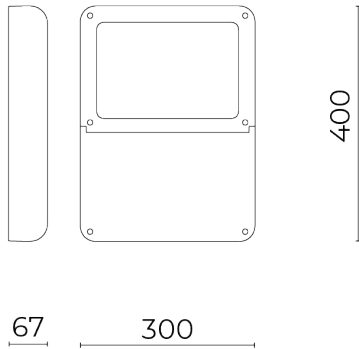
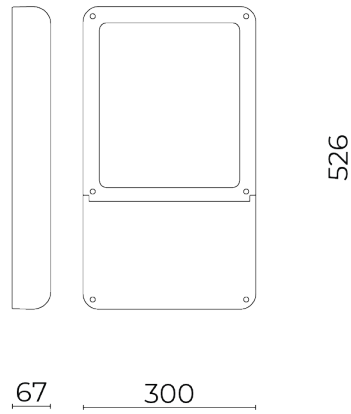
symmetrical street SO-02

asymmetrical LT-63

projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

06LN_____

Colour: Sablè 100 Noir

Small**Medium****General features**

Description: LED fitting for lighting façades, paths and urban spaces

Insulation class: class II

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

Protection level: IP66

Protection against impact: IK09

Power factor: > 0.95

Ambient temperature Ta: -30° C +50° C

Weight: 6 kg (small); 9 kg (medium)

Maximum exposed surface: (small) 0,119 m², (medium) 0,155 m²

Exposed lateral surface: (small) 0,026 m², (medium) 0,034 m²

Common mode surge protection (EN61000-4-5:2006): 10kV

Differential mode surge protection (EN61000-4-5: 2006): 10kV

Surge protection device: integrated 10 kV-10 kA

Driver: electronic and programmable via NFC, included

Lifetime driver: F10 >100.000h @Ta25°C

Marks and Certifications: ENEC (pending) / CE

Production site: Made in Italy

Materials

Body, chassis and cover: die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%)

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symmetrical street SO-02
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06LN_____

Colour: Sablè 100 Noir

Screen: flat tempered glass 4 mm. When opening the lighting fixture, the optical compartment is always protected by the glass closure and is inaccessible.

Optical unit: high-transparency PMMA lenses

Screen: technopolymer

Seal: anti-age silicone

External screws: stainless steel AISI 316

Internal screws: chrome-plated steel

Cables: PVC

Finish: phospho-chromatation treated and polyester powder-coated in 16 phases to increase weather resistance

Colours

Sablè 100 Noir

Installation and maintenance

Installation: wall / ceiling / ground / pole side / string suspension

Poles diameter: Ø 60 - 76 - 102 mm

Orientability: with joint, tilt -90° +90° and rotation ±15°; infinitely adjustable aiming and locking system

Fixing on pole side: (Poles version) fixed collar, single or double, for poles Ø 60 - 76 - 102 mm; (Brackets & poles version) arm for poles Ø 60-76-102 mm with adjustable joint made of die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%), painted with polyester powder.

Fixing on wall: directly by means of die-cast flange or with adjustable joint (-90° + 90°) with possibility of ±15° rotation, made of die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%), polyester powder coating.

Fixing on string suspension: for road tensioning (rope Ø 6 ÷ 12 mm), made of die-cast aluminium alloy UNI EN AB 47100 (copper content < 1%), powder-coated polyester type Sablé 100 Noir and bracket in stainless steel INOX 304.

Ø power cable: 10 ÷ 14 mm

Cable gland: PG16

Electrical connection: terminal block

Power cable anchorage: embedded in cable gland

Screen opening: yes

Power supply compartment: independent from the optical group

Quick and easy replacement of the optical unit and the power supply unit. In order to allow easy maintenance without interfering with the LED optical system, the electrical compartment is separated from the optical compartment, and to meet the demand for maintenance work on the power supply components, the electrical compartment is easily accessible from the underside of the housing without the use of tools. By turning the finned screws, the wiring compartment can be tilted to a wide angle, leaving free access to both the power cable connection area and the electronic components.

Optical unit substitutability: yes

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 symmetrical street SO-02
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Colour: Sablè 100 Noir

Management system: ZHAGA

Optical system

It is equipped with 4000K, 3000K and 2200K white emitter, positioned by means of a "pick and place" system on the electrical circuit (MCPCB) granting the thermal management. The same circuit is provided with an optical system, which is composed by high transparency poly-methyl-methacrylate lenses, which have been developed to realize the same beam opening and light up the same area at ground as all the others. By using this solution, it is possible to ensure that, when a single LED is malfunctioning, there is no an area with lower lighting than the others but, at least, a percentage reduction of the lighting is obtained in the entire area of competence.

Colour rendering index (CRI): ≥ 70 (street asymmetrical and asymmetrical optics); ≥ 80 (projection optics)Chromatic consistency (SDCM): ≤ 3

Optical unit lifetime: >100.000 h @ Ta 25°C L90B10

Photobiological safety class: EXEMPT GROUP

ULOR: 0%

DLOR: 100%

Luminous intensity category: G*3 asymmetrical street ST-02, ME-05, LA-03; G*4 asymmetrical street PB-01; G*5 asymmetrical LT-63; G*6 projection optics U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

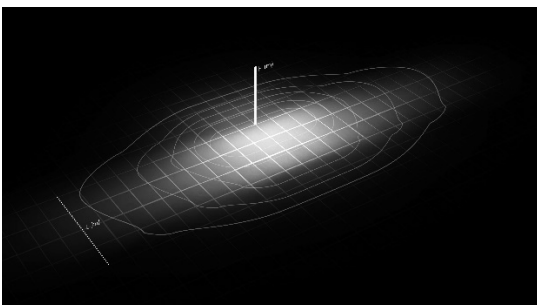
Normative framework

(street asymmetrical and asymmetrical optics) EN60598-1, EN60598-2-3, EN61547; EN62471, EN55015, EN61000-3-2, EN61000-3-3

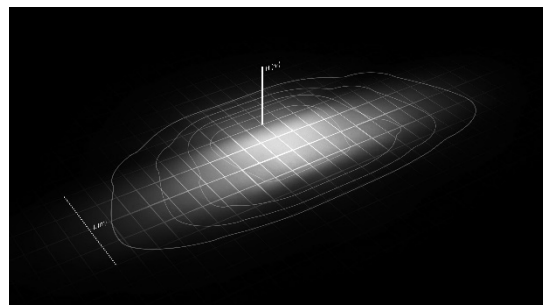
(projection optics) EN60598-1 / EN60598-2-5 / EN62471 / EN61547

Asymmetrical street optics**ST-02**

L/H = 0,75 (L = Street width, H = Pole height)

**ME-05**

L/H = 1 (L = Street width, H = Pole height)



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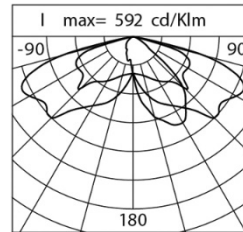
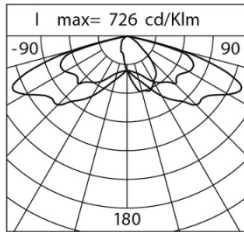
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symmetrical street SO-02
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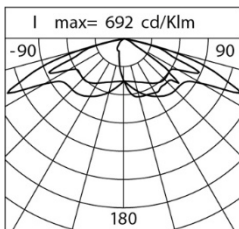
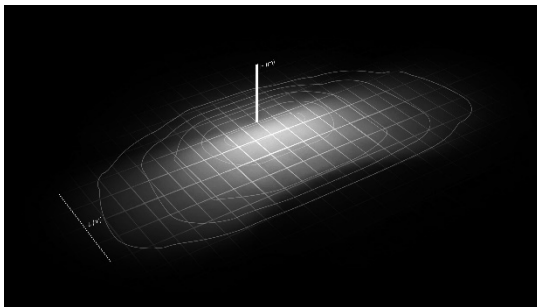
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Colour: Sablè 100 Noir



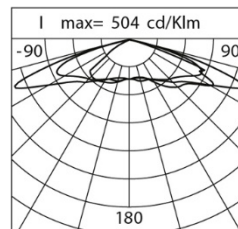
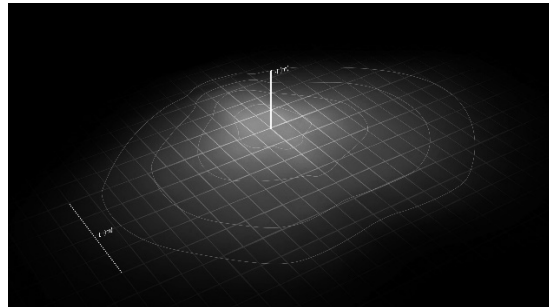
LA-03

L/H = 1,25 (L = Street width, H = Pole height)



PB-01

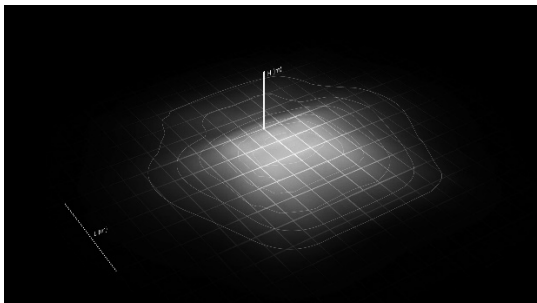
L/H = 2 (L = Street width, H = Pole height)



Asymmetrical optics

LT-63

L/H = 2 (L = Street width, H = Pole height)



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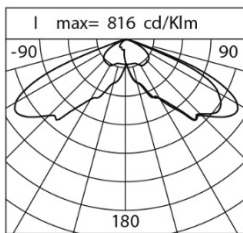
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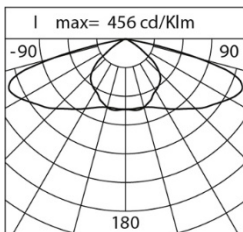
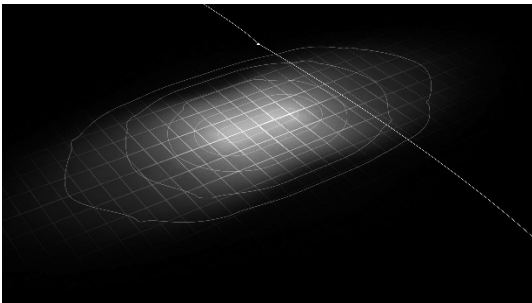
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Colour: Sablè 100 Noir



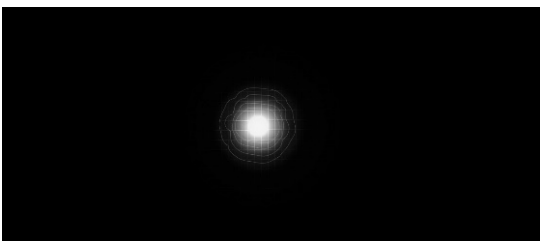
Symmetrical street optics

SO-02

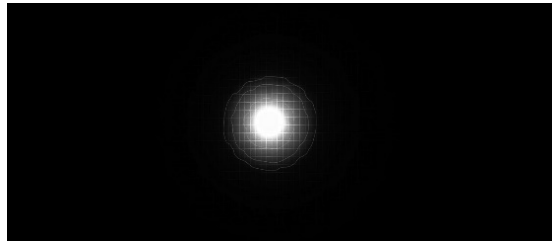


Projection optics

UC-6°



C 11°



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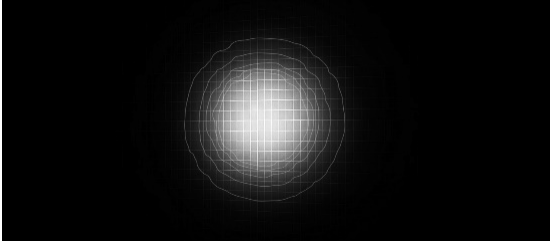
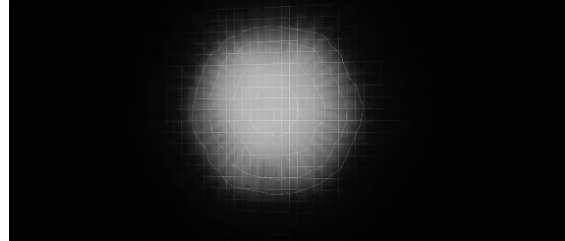
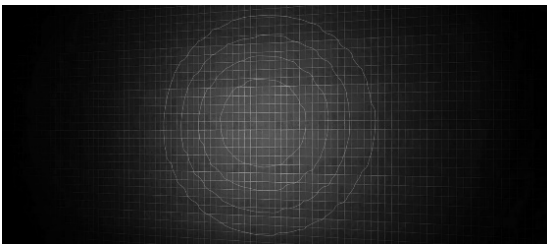
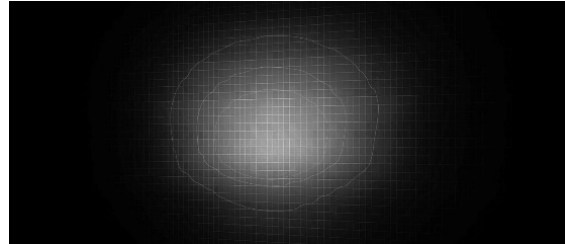
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 symmetrical street SO-02
 asymmetrical LT-63
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

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Colour: Sablè 100 Noir

M 25°**D 40°****U-D 90°****W-W°****Performance data****Street asymmetrical and asymmetrical optics**

ST-02 / ME-05 / LA-03 PB-01 LT-63 SO-02								
Options	Source	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED R1	4000	2040	9	227	1755	12	146
Small	LED R1	4000	2330	10,5	222	2000	13	154
Small	LED R1	4000	2885	13	222	2480	16	155
Small	LED R1	4000	3425	16	214	2945	19	155
Small	LED R1	4000	3960	19	208	3405	22	155
Small	LED R1	4000	4480	21,5	208	3850	25	154
Small	LED R1	4000	4975	24,5	203	4275	28	153
Small	LED R1	4000	5465	27,5	199	4700	31	152
Small	LED R1	4000	5935	30,5	195	5105	34	150
Small	LED R1	4000	6440	33,5	192	5540	37	150
Small	LED R2	4000	6805	32	213	5855	36	163
Small	LED R2	4000	7855	37,5	209	6755	42	161
Small	LED R2	4000	8880	43	207	7635	47	162
Small	LED R2	4000	9840	49	201	8460	53	160
Small	LED R2	4000	10785	55	196	9275	60	155
Small	LED R2	4000	11720	61	192	10080	65	155

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symmetrical street SO-02

asymmetrical LT-63

projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

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Small	LED R2	4000	12620	67	188	10855	72	151
Small	LED R2	4000	13560	73	186	11670	78	150
Medium	LED R3	4000	13255	65	204	11400	71	161
Medium	LED R3	4000	14660	73,5	199	12610	80	158
Medium	LED R3	4000	16045	82	196	13800	89	155
Medium	LED R3	4000	17435	91	192	14995	98	153
Medium	LED R3	4000	18775	100	188	16150	108	150
Medium	LED R4	4000	19580	98	200	16840	105	160
Medium	LED R4	4000	21425	109,5	196	18425	119	155
Medium	LED R4	4000	23245	121,5	191	19990	131	153
Medium	LED R4	4000	25075	133,5	188	21565	144	150
Medium	LED R4	4000	26950	145,5	185	23180	155	150

ST-02 / ME-05 / LA-03 PB-01 LT-63 SO-02								
Options	Source	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED R1	3000	1940	9	216	1670	12	139
Small	LED R1	3000	2210	10,5	210	1900	13	146
Small	LED R1	3000	2740	13	211	2355	16	147
Small	LED R1	3000	3255	16	203	2800	19	147
Small	LED R1	3000	3760	19	198	3235	22	147
Small	LED R1	3000	4255	21,5	198	3660	25	146
Small	LED R1	3000	4725	24,5	193	4065	28	145
Small	LED R1	3000	5190	27,5	189	4465	31	144
Small	LED R1	3000	5640	30,5	185	4850	34	143
Small	LED R1	3000	6095	33,5	182	5240	37	142
Small	LED R2	3000	6465	32	202	5560	36	154
Small	LED R2	3000	7465	37,5	199	6420	42	153
Small	LED R2	3000	8435	43	196	7255	47	154
Small	LED R2	3000	9345	49	191	8040	53	152
Small	LED R2	3000	10245	55	186	8810	60	147
Small	LED R2	3000	11135	61	183	9575	65	147
Small	LED R2	3000	11990	67	179	10310	72	143
Small	LED R2	3000	12815	73	176	11020	78	141
Medium	LED R3	3000	12590	65	194	10830	71	153
Medium	LED R3	3000	13925	73,5	189	11980	80	150
Medium	LED R3	3000	15240	82	186	13110	89	147
Medium	LED R3	3000	16560	91	182	14245	98	145
Medium	LED R3	3000	17835	100	178	15340	108	142

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symmetrical street SO-02
asymmetrical LT-63
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W**06LN**_____

Colour: Sablè 100 Noir

Medium	LED R4	3000	18600	98	190	15995	105	152
Medium	LED R4	3000	20355	109,5	186	17505	119	147
Medium	LED R4	3000	22080	121,5	182	18990	131	145
Medium	LED R4	3000	23820	133,5	178	20485	144	142
Medium	LED R4	3000	25415	145,5	175	21860	155	141

ST-02 / ME-05 / LA-03 PB-01 LT-63 SO-02								
Options	Source	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED R1	2200	1575	9	175	1355	12	113
Small	LED R1	2200	1800	10,5	171	1545	13	119
Small	LED R1	2200	2230	13	172	1915	16	120
Small	LED R1	2200	2645	16	165	2275	19	120
Small	LED R1	2200	3060	19	161	2630	22	120
Small	LED R1	2200	3460	21,5	161	2975	25	119
Small	LED R1	2200	3845	24,5	157	3305	28	118
Small	LED R1	2200	4225	27,5	154	3630	31	117
Small	LED R1	2200	4585	30,5	150	3945	34	116
Small	LED R1	2200	4975	33,5	149	4280	37	116
Small	LED R2	2200	5260	32	164	4525	36	126
Small	LED R2	2200	6070	37,5	162	5220	42	124
Small	LED R2	2200	6860	43	160	5900	47	126
Small	LED R2	2200	7605	49	155	6540	53	123
Small	LED R2	2200	8335	55	152	7165	60	119
Small	LED R2	2200	9055	61	148	7790	65	120
Small	LED R2	2200	9750	67	146	8390	72	117
Small	LED R2	2200	10480	73	144	9020	78	116
Medium	LED R3	2200	10240	65	158	8810	71	124
Medium	LED R3	2200	11330	73,5	154	9745	80	122
Medium	LED R3	2200	12400	82	151	10665	89	120
Medium	LED R3	2200	13470	91	148	11585	98	118
Medium	LED R3	2200	14505	100	145	12480	108	116
Medium	LED R4	2200	15130	98	154	13010	105	124
Medium	LED R4	2200	16555	109,5	151	14235	119	120
Medium	LED R4	2200	17960	121,5	148	15445	131	118
Medium	LED R4	2200	19375	133,5	145	16665	144	116
Medium	LED R4	2200	20825	145,5	143	17910	155	116

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asymmetrical LT-63
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

Projection optics

C 11° / M 25° / D 40°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED L6	300	4000	3085	19	162	2655	22	121
Small	LED L6	400	4000	4030	26	155	3470	30	116
Small	LED L6	500	4000	4930	33	149	4240	37	115
Small	LED L6	700	4000	6430	47,5	135	5530	52	106
Small	LED L6	900	4000	7880	61,5	128	6775	67	101
Medium	LED L12	500	4000	9860	68	145	8480	74	115
Medium	LED L12	600	4000	11565	82,5	140	9945	89	112
Medium	LED L12	700	4000	12855	96,5	133	11055	104	106
Medium	LED L12	800	4000	14330	111,5	129	12325	119	104
Medium	LED L12	1000	4000	17275	139,5	124	14855	148	100

U-D 90° / W-W									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED L6	300	4000	3085	19	162	2285	22	104
Small	LED L6	400	4000	4030	26	155	2985	30	100
Small	LED L6	500	4000	4930	33	149	3650	37	99
Small	LED L6	700	4000	6430	47,5	135	4755	52	91
Small	LED L6	900	4000	7880	61,5	128	5830	67	87
Medium	LED L12	500	4000	9860	68	145	7295	74	99
Medium	LED L12	600	4000	11565	82,5	140	8560	89	96
Medium	LED L12	700	4000	12855	96,5	133	9515	104	91
Medium	LED L12	800	4000	14330	111,5	129	10605	119	89
Medium	LED L12	1000	4000	17275	139,5	124	12785	148	86

U-C 6°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED L6	300	4000	2970	19	156	2555	22	116
Small	LED L6	400	4000	3870	26	149	3330	30	111
Small	LED L6	500	4000	4745	33	144	4080	37	110
Small	LED L6	700	4000	6295	47,5	133	5415	52	104
Medium	LED L12	300	4000	5945	40	149	5110	44	116
Medium	LED L12	400	4000	7740	54,5	142	6660	59	113
Medium	LED L12	500	4000	9490	68	140	8165	74	110
Medium	LED L12	700	4000	12590	96,5	130	10825	104	104

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symmetrical street SO-02

asymmetrical LT-63

projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

06LN_____

Colour: Sablè 100 Noir

C 11° / M 25° / D 40°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED L6	300	3000	2925	19	154	2515	22	114
Small	LED L6	400	3000	3825	26	147	3290	30	110
Small	LED L6	500	3000	4675	33	142	4020	37	109
Small	LED L6	700	3000	6095	47,5	128	5240	52	101
Small	LED L6	900	3000	7475	61,5	122	6430	67	96
Medium	LED L12	500	3000	9355	68	138	8045	74	109
Medium	LED L12	600	3000	10965	82,5	133	9430	89	106
Medium	LED L12	700	3000	12185	96,5	126	10480	104	101
Medium	LED L12	800	3000	13615	111,5	122	11710	119	98
Medium	LED L12	1000	3000	16295	139,5	117	14010	148	95

U-D 90° / W-W									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED L6	300	3000	2925	19	154	2165	22	98
Small	LED L6	400	3000	3825	26	147	2830	30	94
Small	LED L6	500	3000	4675	33	142	3460	37	94
Small	LED L6	700	3000	6095	47,5	128	4510	52	87
Small	LED L6	900	3000	7475	61,5	122	5535	67	83
Medium	LED L12	500	3000	9355	68	138	6920	74	94
Medium	LED L12	600	3000	10965	82,5	133	8115	89	91
Medium	LED L12	700	3000	12185	96,5	126	9020	104	87
Medium	LED L12	800	3000	13615	111,5	122	10075	119	85
Medium	LED L12	1000	3000	16295	139,5	117	12055	148	81

U-C 6°									
Options	Source	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
Small	LED L6	300	3000	2555	19	134	2200	22	100
Small	LED L6	400	3000	3365	26	129	2895	30	97
Small	LED L6	500	3000	4100	33	124	3525	37	95
Small	LED L6	700	3000	5445	47,5	115	4685	52	90
Medium	LED L12	300	3000	5115	40	128	4400	44	100
Medium	LED L12	400	3000	6730	54,5	123	5785	59	98
Medium	LED L12	500	3000	8200	68	121	7055	74	95
Medium	LED L12	700	3000	10890	96,5	113	9365	104	90

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%.

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Line sheet

04.10.23

Levante 2.0

Options: small, medium
 Colour temperature: 2200K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
 3000K / 4000K (projection optics)
 Type of optics: asymmetrical street ST-02, ME-05, LA-03, PB-01
 symmetrical street SO-02
 asymmetrical LT-63
 projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

06LN_____

Colour: Sablè 100 Noir

Legend

mA = Power supply

K = Colour temperature

 φ mod [lm] = Flux source

P mod [W] = Power source

 η mod [lm/W] = Efficiency of source φ app [lm] = Flux fitting

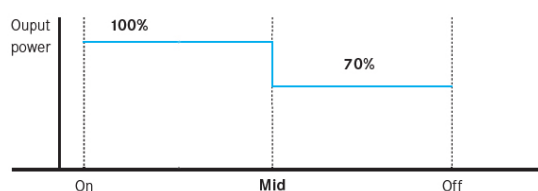
P app [W] = Power fitting

 η app [lm/W] = Efficiency of fitting**Flux regulation**

	Standard	On request
Self-learning virtual midnight (street asymmetrical and asymmetrical optics)	X	
Zhaga - Book 18 (street asymmetrical and asymmetrical optics)	X	
DALI Regulation (projection optics)	X	
Constant Light Output (CLO)		X
1-10V Regulation		X
Main voltage variation		X
DALI Regulation (street asymmetrical and asymmetrical optics)		X
Wireless telemanagement		X
Motion / brightness detectors		X

Flux regulation**Self-learning of the virtual midnight with possibility of custom programs (codes ending by _HM4)**

Custom programmable versions are available at the customer's request. Using a virtual midnight algorithm, a precise reduction can be made in the luminaire's luminous flux percentage and its electrical power input. On request, the system can be programmed for operation with DALI protocol.

**Profile standard**

700 mA 525 mA 350 mA

Mid (mezzanotte virtuale - *virtual midnight* - virtuellen mitternacht)

Ex. code: 01KI.....HM4

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Line sheet

04.10.23

Levante 2.0

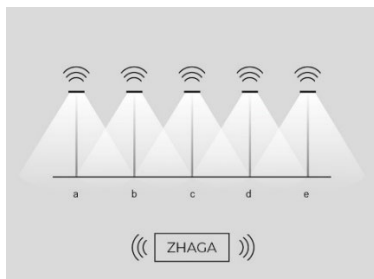
Options: small, medium
Colour temperature: 2200K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
3000K / 4000K (projection optics)
Type of optics: asymmetrical street ST-02, ME-05, LA-03, PB-01
symmetrical street SO-02
asymmetrical LT-63
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

06LN_____

Colour: Sablè 100 Noir

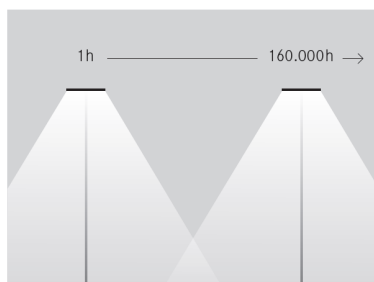
Zhaga - Book 18 (codes ending by _HL5)

The product is supplied with a 4-pin socket UP (Zhaga Book 18).



Constant Lumen Output CLO

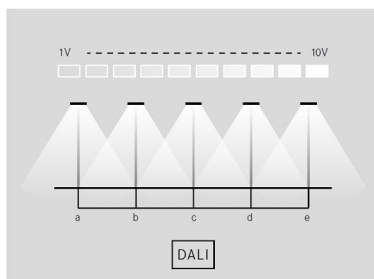
The aim of CLO is to compensate the natural deterioration of the LED luminous flux. By pre-programming a gradual increase in current, the luminous flux is maintained over time and, in any case, never drops lower than the preset limit.



Group Management: flow adjustment in 1-10V and DALI

1-10V — This is an analogue type control system based on the distribution of a voltage signal between 1 and 10 Volt, where 1V corresponds to the minimum light intensity value and 10V corresponds to the maximum value.

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



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Line sheet

04.10.23

Levante 2.0

Options: small, medium
Colour temperature: 2200K / 3000K / 4000K (street asymmetrical and asymmetrical optics)
3000K / 4000K (projection optics)
Type of optics: asymmetrical street ST-02, ME-05, LA-03, PB-01
symmetrical street SO-02
asymmetrical LT-63
projection U-C 6°, C 11°, M 25°, D 40°, U-D 90°, W-W

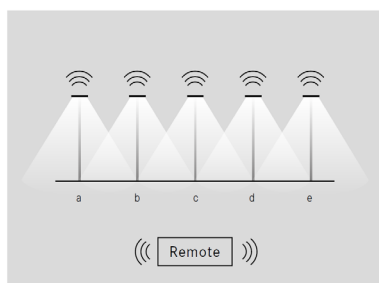
06LN_____

Colour: Sablè 100 Noir

Remote Management

Wireless remote control systems allow the luminous flux to be dimmed, the system to be monitored and consumption statistics and faults to be displayed all remotely. In addition to reducing consumption and running costs, remote management systems provide an infrastructure that is useful for hosting other local systems or services that are compatible with the latest smart lighting projects

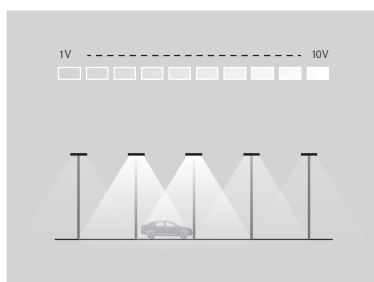
Wireless — The wireless remote management system can remote control luminaires simply and without limits thanks to the existing system. Wireless technology allows each individual luminaire to be monitored remotely and consumption profiles to be modified.



Sensors

Movement and presence sensors — Using movement sensors allows the luminaire's luminous flux to be regulated and the correct safety levels maintained according to whether a person or a vehicle is passing. If no movement of people or vehicles is detected the luminous flux is reduced, thereby allowing consumption and costs to be reduced. The type of sensor and the method of installation should be defined according to the application context and the size and shape of the space in question. The system control, by communicating with the 1-10V DALI or Wireless systems, can be centralised. Sensors must be mounted outside the product.

Light sensor — The Cariboni products with DALI, 1-10V or Wireless adjustment are compatible with light sensors that adjust the light emission output based on the quantity of light already in the space. This solution avoids waste and guarantees a return on investment in a very short time.



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