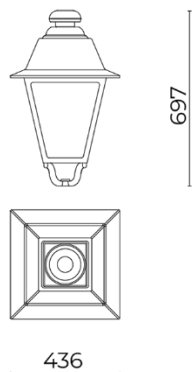


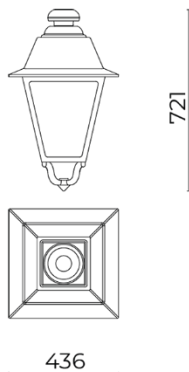
**Agathos**

Options: TP-UP / SO-DOWN  
Colour temperature: 4000K / 3000K / 2200K  
Type of optics: asymmetrical street ST-01, LA-01  
front & back asymmetrical street ST-01+LA-01  
rotosymmetric RS-01  
asymmetrical LT-06  
comfort CO-01

**TP-UP**



**SO-DOWN**



**General features**

Description: LED post-top, arm or wall fitted fixture

Insulation class: class II (class I on request)

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

Protection level: IP66

Protection against impact: IK08

Surge protection device: integrated 10 kV-10 kA, type 3, equipped with LED signalling and thermal fuse for disconnection at product end of life; impulse resistance CL II 10 kV DM

Power factor: > 0.9

Ambient temperature Ta: -30°C +50°C

Weight: 8 kg

Maximum exposed surface: 0.19 m<sup>2</sup> (dimensioned for wind 205 km/h)

Exposed lateral surface: 0.09 m<sup>2</sup> (dimensioned for wind 205 km/h)

Common mode surge protection: 10 kV

Differential mode surge protection: 10 kV

Driver: included

Marks and Certifications: ENEC / CE

Classification: CUT OFF

**Materials**

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

Screen: flat tempered 5 m glass

Optical unit: high-transparency PMMA lenses

The features of the product listed above may be subjected to change without notice. They will have to be confirmed in case of order. In order to facilitate a constant updating of their products, Cariboni Group reserves the right to make changes without prior notice.

**Line Sheet**

Rev 09.05.23

**Agathos**

Options: TP-UP / SO-DOWN  
Colour temperature: 4000K / 3000K / 2200K  
Type of optics: asymmetrical street ST-01, LA-01  
front & back asymmetrical street ST-01+LA-01  
rotosymmetric RS-01  
asymmetrical LT-06  
comfort CO-01

**01AG** \_\_\_\_\_

Colour: Sablé 100 Noir

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Seal: anti-age expanded silicone

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External screws and metal components: stainless steel

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Internal screws: chrome-plated steel

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Wiring plate: galvanised steel

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

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**Colours**

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Sablé 100 Noir

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**Installation and maintenance**

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Installation: post-top / arm / wall / ceiling

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Post diameter: 3/4" / Ø 60 mm / Ø 102 mm

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Mounting: post-top - standard with 3/4" male gas attachment; on Ø 60 mm posts with the required accessory (code 01AG901C0); on posts 3/4" female gas attachment with the required accessory (code 01AG900C0); on arms - standard with 3/4" male gas attachment; on arms with 3/4" female gas attachment with the required accessory (code 01AG900C0); on Ø 60 mm arms with the required accessory (code 01AG902C0). suspension - on arms or chains - standard on arms with 3/4" female gas attachment; on Ø 60 mm arms with the required accessory (code 01AG902C0); fastening system (code 01AG903C0) for chain suspension.

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Ø power cable: 10 ÷ 14 mm

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1 x 0.75 mm<sup>2</sup> double-insulated silicone rubber flexible cable

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Cable gland: PG16

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Optical unit substitutability: substitution of the LED units

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Wiring plate substitutability: removable plate

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Power supply compartment: independent from the optical unit

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**Optical system**

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Equipped with 4000K, 3000K and 2200K white emitters, fitted by means of a "pick and place" system to a heat sinking 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.

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CRI (colour rendering index): ≥ 70

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Chromatic consistency (SDCM): ≤4 STEP, @ 6,000 h SDCM ≤7 STEP

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Optical unit life expectancy: > 160,000 h @ 700mA @ Ta 25°C TM21 L80B10 L80B20

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Photobiological safety class: EXEMPT GROUP

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ULOR: 0% - DLOR: 100%

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Light intensity category: G\*3 asymmetrical street; G\*4 front & back; G\*6 rotosymmetric RS-01, comfort CO-01, asymmetric LT-06

The features of the product listed above may be subjected to change without notice. They will have to be confirmed in case of order. In order to facilitate a constant updating of their products, Cariboni Group reserves the right to make changes without prior notice.

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**Normative framework**

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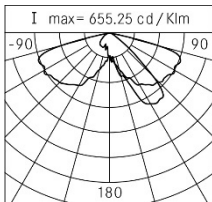
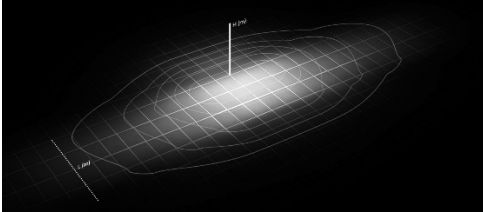
EN60598-1 / EN60598-2-3 / EN62471 / EN61547

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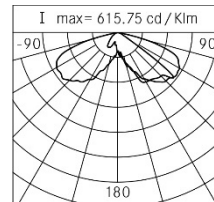
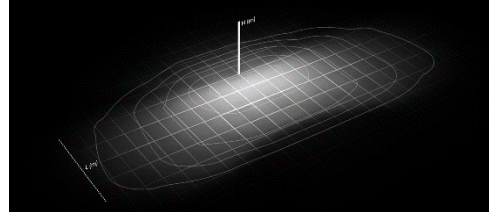
**Asymmetrical street optics** (L = Street width, H = Pole height)

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**ST-01** L/H = 0.75



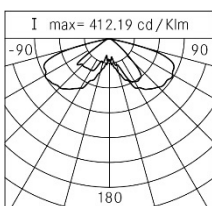
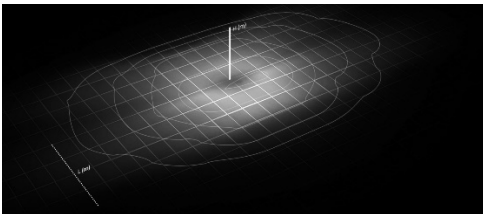
**LA-01** L/H = 1.25



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**F&B: ST-01**(L/H = 0.75) + **LA-01** (L/H = 1.25)

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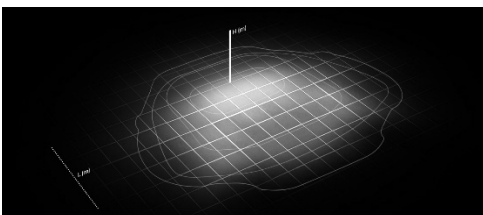


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**Asymmetrical optics** (L = Street width, H = Pole height)

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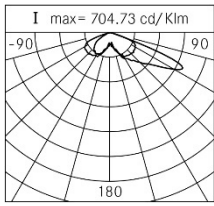
**LT-06** L/H = 2



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**Agathos**

Options: TP-UP / SO-DOWN  
Colour temperature: 4000K / 3000K / 2200K  
Type of optics: asymmetrical street ST-01, LA-01  
front & back asymmetrical street ST-01+LA-01  
rotosymmetric RS-01  
asymmetrical LT-06  
comfort CO-01

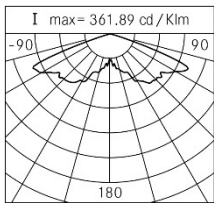
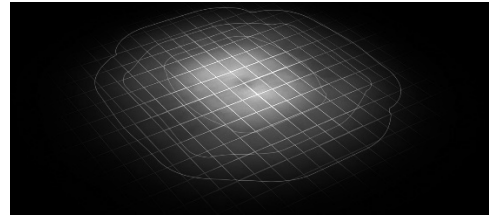
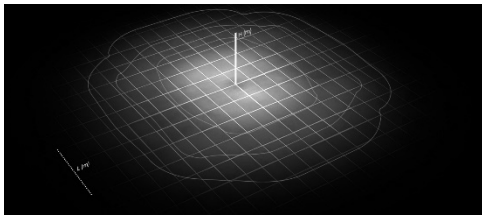


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**Rotosymmetric optics**

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**RS-01**

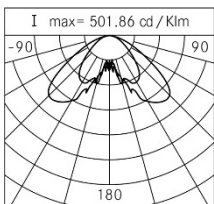
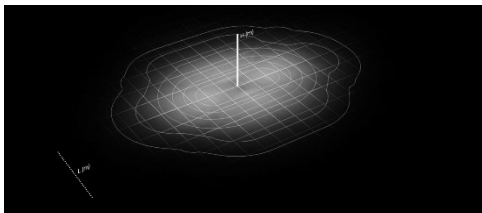


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**Comfort optics**

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**CO-01 L/H = 1.25**



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**Performance data**

**AGATHOS TP - UP / AGATHOS SO - DOWN**

ASYMMETRICAL STREET OPTICS ST-01 / LA-01 ASYMMETRICAL OPTICS LT-06									
Options	Sources	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
TP-UP/ SO-DOWN	R1	350	4000	2350	11,5	204	1690	13,5	125
TP-UP/ SO-DOWN	R1	525	4000	3330	17,5	190	2405	20	120
TP-UP/ SO-DOWN	R1	700	4000	4220	24	176	3040	27	113
TP-UP/ SO-DOWN	R2	350	4000	4650	23	202	3445	26,5	130
TP-UP/ SO-DOWN	R2	525	4000	6575	35,5	185	4865	39,5	123
TP-UP/ SO-DOWN	R2	700	4000	8295	48	173	6145	52,5	117
TP-UP/ SO-DOWN	R3	350	4000	6935	34,5	201	5135	39	132
TP-UP/ SO-DOWN	R3	525	4000	9770	53	184	7235	58,5	124
TP-UP/ SO-DOWN	R3	700	4000	12285	72	171	9095	78	117

ASYMMETRICAL STREET OPTICS ST-01 / LA-01 ASYMMETRICAL OPTICS LT-06									
Options	Sources	mA	K	φ mod [lm]	P mod [W]	η mod [lm/W]	φ app [lm]	P app [W]	η app [lm/W]
TP-UP/ SO-DOWN	R1	350	3000	2190	11,5	190	1580	13,5	117
TP-UP/ SO-DOWN	R1	525	3000	3110	17,5	178	2240	20	112
TP-UP/ SO-DOWN	R1	700	3000	3940	24	164	2840	27	105
TP-UP/ SO-DOWN	R2	350	3000	4340	23	189	3220	26,5	122
TP-UP/ SO-DOWN	R2	525	3000	6140	35,5	173	4545	39,5	115
TP-UP/ SO-DOWN	R2	700	3000	7740	48	161	5730	52,5	109
TP-UP/ SO-DOWN	R3	350	3000	6470	34,5	188	4795	39	123
TP-UP/ SO-DOWN	R3	525	3000	9120	53	172	6750	58,5	115
TP-UP/ SO-DOWN	R3	700	3000	11470	72	159	8490	78	109

The features of the product listed above may be subjected to change without notice. They will have to be confirmed in case of order. In order to facilitate a constant updating of their products, Cariboni Group reserves the right to make changes without prior notice.

**Agathos**

Options: TP-UP / SO-DOWN  
 Colour temperature: 4000K / 3000K / 2200K  
 Type of optics: asymmetrical street ST-01, LA-01  
 front & back asymmetrical street ST-01+LA-01  
 rotosymmetric RS-01  
 asymmetrical LT-06  
 comfort CO-01

**ASYMMETRICAL STREET OPTICS ST-01 / LA-01  
 ASYMMETRICAL OPTICS LT-06**

Options	Sources	mA	K	$\phi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\phi$ app [lm]	P app [W]	$\eta$ app [lm/W]
TP-UP/ SO-DOWN	R1	350	2200	1815	11,5	158	1310	13,5	97
TP-UP/ SO-DOWN	R1	525	2200	2575	17,5	147	1855	20	93
TP-UP/ SO-DOWN	R1	700	2200	3260	24	136	2350	27	87
TP-UP/ SO-DOWN	R2	350	2200	3590	23	156	2665	26,5	101
TP-UP/ SO-DOWN	R2	525	2200	5080	35,5	143	3760	39,5	95
TP-UP/ SO-DOWN	R2	700	2200	6410	48	134	4745	52,5	90
TP-UP/ SO-DOWN	R3	350	2200	5355	34,5	155	3970	39	102
TP-UP/ SO-DOWN	R3	525	2200	7545	53	142	5590	58,5	96
TP-UP/ SO-DOWN	R3	700	2200	9495	72	132	7025	78	90

**AGATHOS TP – UP**

**ROTSYMMETRIC OPTICS RS-01**

Options	Sources	mA	K	$\phi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\phi$ app [lm]	P app [W]	$\eta$ app [lm/W]
TP-UP	R1	350	4000	2350	11,5	204	1690	13,5	125
TP-UP	R1	525	4000	3330	17,5	190	2405	20	120
TP-UP	R1	700	4000	4220	24	176	3040	27	113
TP-UP	R2	350	4000	4650	23	202	3445	26,5	130
TP-UP	R2	525	4000	6575	35,5	185	4865	39,5	123
TP-UP	R2	700	4000	8295	48	173	6145	52,5	117
TP-UP	R3	350	4000	6935	34,5	201	5135	39	132
TP-UP	R3	525	4000	9770	53	184	7235	58,5	124
TP-UP	R3	700	4000	12285	72	171	9095	78	117

**ROTSYMMETRIC OPTICS RS-01**

Options	Sources	mA	K	$\phi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\phi$ app [lm]	P app [W]	$\eta$ app [lm/W]
TP-UP	R1	350	3000	2190	11,5	190	1580	13,5	117
TP-UP	R1	525	3000	3110	17,5	178	2240	20	112
TP-UP	R1	700	3000	3940	24	164	2840	27	105
TP-UP	R2	350	3000	4340	23	189	3220	26,5	122
TP-UP	R2	525	3000	6140	35,5	173	4545	39,5	115
TP-UP	R2	700	3000	7740	48	161	5730	52,5	109

The features of the product listed above may be subjected to change without notice. They will have to be confirmed in case of order. In order to facilitate a constant updating of their products, Cariboni Group reserves the right to make changes without prior notice.

**Agathos**

Options: TP-UP / SO-DOWN  
 Colour temperature: 4000K / 3000K / 2200K  
 Type of optics: asymmetrical street ST-01, LA-01  
 front & back asymmetrical street ST-01+LA-01  
 rotosymmetric RS-01  
 asymmetrical LT-06  
 comfort CO-01

TP-UP	R3	350	3000	6470	34,5	188	4795	39	123
TP-UP	R3	525	3000	9120	53	172	6750	58,5	115
TP-UP	R3	700	3000	11470	72	159	8490	78	109

COMFORT OPTICS CO-01									
Options	Sources	mA	K	$\phi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\phi$ app [lm]	P app [W]	$\eta$ app [lm/W]
TP-UP	R2	350	4000	4650	23	202	2890	26,5	109
TP-UP	R2	525	4000	6575	35,5	185	4080	39,5	103
TP-UP	R2	700	4000	8295	48	173	5150	52,5	98
TP-UP	R3	350	4000	6935	34,5	201	4310	39	111
TP-UP	R3	525	4000	9770	53	184	6080	58,5	104
TP-UP	R3	700	4000	12285	72	171	7645	78	98

COMFORT OPTICS CO-01									
Options	Sources	mA	K	$\phi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\phi$ app [lm]	P app [W]	$\eta$ app [lm/W]
TP-UP	R2	350	3000	4340	23	189	2695	26,5	102
TP-UP	R2	525	3000	6140	35,5	173	3810	39,5	96
TP-UP	R2	700	3000	7740	48	161	4805	52,5	92
TP-UP	R3	350	3000	6470	34,5	188	4025	39	103
TP-UP	R3	525	3000	9120	53	172	5670	58,5	97
TP-UP	R3	700	3000	11470	72	159	7135	78	91

COMFORT OPTICS CO-01									
Options	Sources	mA	K	$\phi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\phi$ app [lm]	P app [W]	$\eta$ app [lm/W]
TP-UP	R2	350	2200	3590	23	156	2230	26,5	84
TP-UP	R2	525	2200	5080	35,5	143	3150	39,5	80
TP-UP	R2	700	2200	6410	48	134	3980	52,5	76
TP-UP	R3	350	2200	5355	34,5	155	3330	39	85
TP-UP	R3	525	2200	7545	53	142	4695	58,5	80
TP-UP	R3	700	2200	9495	72	132	5905	78	76

ASYMMETRICAL STREET OPTICS F&B ST-01+LA-01									
Options	Sources	mA	K	$\phi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\phi$ app [lm]	P app [W]	$\eta$ app [lm/W]
TP-UP	R2	350	4000	4650	23	202	3445	26,5	130
TP-UP	R2	525	4000	6575	35,5	185	4865	39,5	123
TP-UP	R2	700	4000	8295	48	173	6145	52,5	117

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ASYMMETRICAL STREET OPTICS F&B ST-01+LA-01									
Options	Sources	mA	K	$\varphi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\varphi$ app [lm]	P app [W]	$\eta$ app [lm/W]
TP-UP	R2	350	3000	4340	23	189	3220	26,5	122
TP-UP	R2	525	3000	6140	35,5	173	4545	39,5	115
TP-UP	R2	700	3000	7740	48	161	5730	52,5	109

**AGATHOS SO – DOWN**

ROSYMMETRIC OPTICS RS-01									
Options	Sources	mA	K	$\varphi$ mod [lm]	P mod [W]	$\eta$ mod [lm/W]	$\varphi$ app [lm]	P app [W]	$\eta$ app [lm/W]
SO-DOWN	R1	700	4000	4220	24	176	3040	27	113
SO-DOWN	R1	700	3000	3940	24	164	2840	27	105
SO-DOWN	R1	700	2200	3260	24	136	2350	27	87
SO-DOWN	R2	700	4000	8295	48	173	6145	52,5	117
SO-DOWN	R2	700	3000	7740	48	161	5730	52,5	109
SO-DOWN	R2	700	2200	6410	48	134	4745	52,5	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%.

**Legend**

- mA = Power supply
- K = Colour temperature
- $\varphi$  mod [lm] = Source flux
- P mod [W] = Source power
- $\eta$  mod [lm/W] = Source efficiency
- $\varphi$  app [lm] = Unit flux
- P app [W] = Unit power
- $\eta$  app [lm/W] = Unit efficiency

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**Flux regulation**

**Custom programmable virtual midnight self-learning (code ending in \_HM4)**

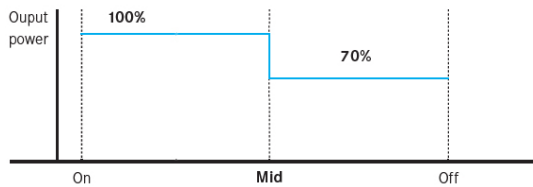
Custom programmable versions available on request; via the virtual midnight algorithm it is possible to obtain a precise percentage reduction of the luminous flux and therefore of the power consumption of the unit.

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**Agathos**

Options: TP-UP / SO-DOWN  
Colour temperature: 4000K / 3000K / 2200K  
Type of optics: asymmetrical street ST-01, LA-01  
front & back asymmetrical street ST-01+LA-01  
rotosymmetric RS-01  
asymmetrical LT-06  
comfort CO-01

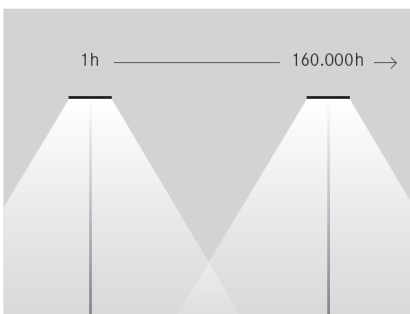


**Profile standard**  
700 mA 525 mA 350 mA  
**Mid** (mezzanotte virtuale - *virtual midnight* - virtuellen mitternacht)  
Ex. code: 01OR....HM4

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**Constant Lumen Output CLO (on request)**

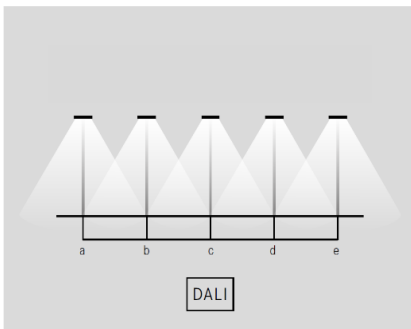
The aim of the CLO is to compensate the natural deterioration of the luminous flux of the LEDs. Through a gradual pre-programmed increase in current, the luminous flux is maintained over time and in any case never drops below pre-set limits.



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**Group Management: DALI (on request)**

**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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**Remote Management (on request)**

PLC (Power Line Communication) and wireless remote-control systems allow remote luminous flux dimming, system monitoring and the display of consumption statistics and faults. In addition to reducing consumption and running costs, remote management systems provide an infrastructure that can be used to host other local systems or services that are compatible with the latest smart lighting projects.

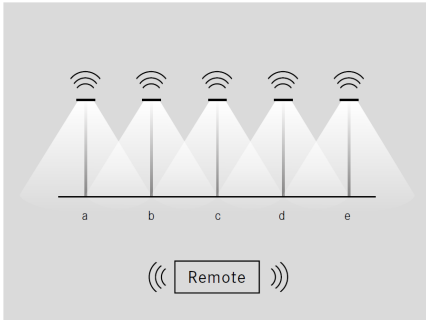
**PLC** — Via PLC, without additional wiring in the system, it is possible to communicate with every single light point. The system allows each individual unit to be monitored and consumption profiles to be modified remotely.

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**Agathos**

Options: TP-UP / SO-DOWN  
Colour temperature: 4000K / 3000K / 2200K  
Type of optics: asymmetrical street ST-01, LA-01  
front & back asymmetrical street ST-01+LA-01  
rotosymmetric RS-01  
asymmetrical LT-06  
comfort CO-01

**Wireless** — The wireless remote management system allows simple and unlimited remote management of units via a pre-existing system. Wireless technology allows each individual unit to be monitored and consumption profiles to be modified.



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