

COMPASS 1

MAIN CHARACTERISTICS

Applications	Street and urban lighting.
Optic	STU-S: Asymmetrical optic for street, urban and cycle-path lighting (narrow emission). STU-M: Asymmetrical optic for street, urban and cycle-path lighting (medium emission). STU-W: Asymmetrical optic for wide urban and suburban road lighting. S03: Asymmetrical optic for wide urban and suburban road lighting. S: Symmetrical optic for urban lighting and green areas. Colour temperature: 4000K (3000K optional) CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 174 lm/W @ 400mA, Tj=85°C, 4000K
Insulation class	II, I
Protection degree	IP66 IK08 total
LED Modules	Removable / Replaceable
Dimensions	See the drawing
Weight	max 10.5 kg
Exposed surface	Side: 0.05m ² – Top: 0.25m ²
Mounting	TP/BR: Installation on post top Ø48-60mm - on bracket: Ø42-60mm. Post top inclination: 0°, +5°, +10°, +15°, +20°. Bracket inclination: +5°, 0°, -5°, -10°, -15°, -20°. TP: Installation on post top ø60-76-102mm. Post top inclination: 0°, +5°, +10°, +15°, +20°. AM: Wall mounting. Inclination: 0°, +5°, +10°, +15°, +20°. S: Suspended installation on bracket 1/2" GAS.
Gear tray	Removable plate.
Operating temp.	-40°C / +50°C
Storage temperature	-40°C / +80°C
Main reference standards	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3



ELECTRICAL CHARACTERISTICS

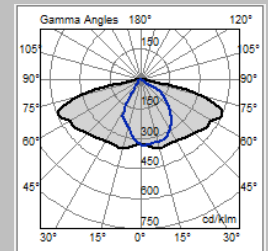
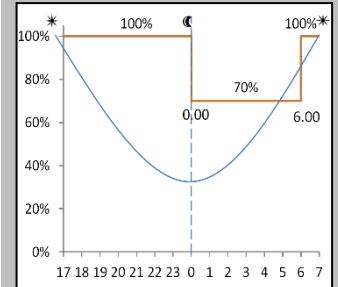
Rated voltage	220÷240V 50/60Hz
Power factor	>0,9 (at full load, F, DA, DAC)
On-load switch	Included, with integrated cable clamp.
Mains connection	For cables max section 4mm ²
Surge protection	Up to 10kV With SPD (optional) 10kV / 10kV CM/DM
SPD (optional)	10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life.

Control system (options)	F: Fixed power not dimmable. DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. WL: Wireless single point communication system. DALI: Digital dimming interface DALI. NEMA: Socket 7 pin (ANSI C136.41). ZHAGA: Socket 4 pin (ZHAGA Book 18).
Optical unit lifetime (Tq=25°C, 500mA)	>100.000hr L90B10 >100.000hr L90, TM21

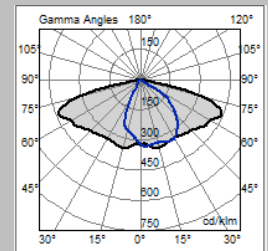
MATERIALS

Fixing	Die-cast aluminum UNI EN1706 powder painted.
Body	
Closure hook	
Optic	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 5mm thickness high transparency.
Cable gland	Plastic M20x1.5 - IP68
Gasket	Polyurethane
Colour	Graphite - Cod. 01

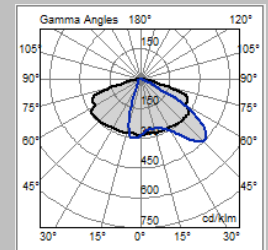
DA Profile



STU-S Optic



STU-M Optic

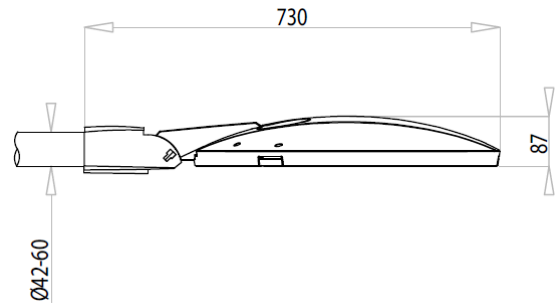
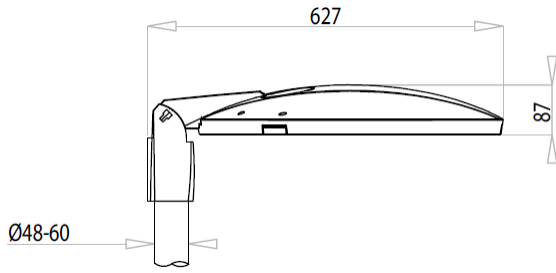


S03 Optic

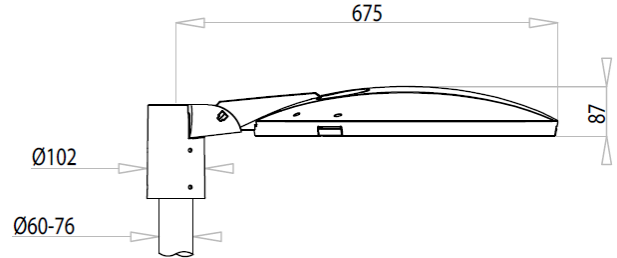
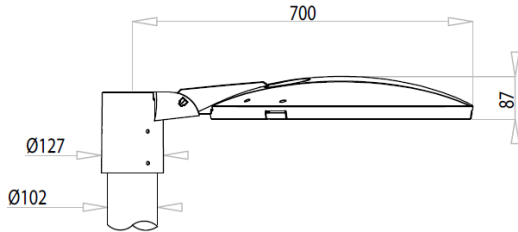
All the published photometrical data has been obtained according to EN 13032-1



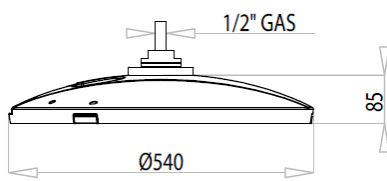
TP-BR



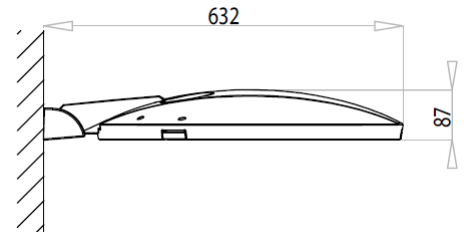
TP



S



AM





LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 4000K, lm)	RATED LED POWER* (Tj=85°C, W)
COMPASS 1 2Z8 4.40-1M	STU-M STU-S STU-W	400	2830	21.5	131	3184	18
COMPASS 1 2Z8 4.40-2M			5700	40.5	140	6368	36
COMPASS 1 2Z8 4.40-3M			8490	59.5	142	9552	54
COMPASS 1 2Z8 4.40-4M			11180	79.5	140	12736	72
COMPASS 1 2Z8 4.50-1M	STU-M STU-S STU-W	500	3420	27	126	3899	23
COMPASS 1 2Z8 4.50-2M			6950	51.5	134	7798	46
COMPASS 1 2Z8 4.50-3M			10250	75.5	135	11697	69
COMPASS 1 2Z8 4.50-4M			13370	100	133	15596	92
COMPASS 1 2Z8 4.40-1M	S03	400	2780	21.5	129	3184	18
COMPASS 1 2Z8 4.40-2M			5590	40.5	138	6368	36
COMPASS 1 2Z8 4.40-3M			8320	59.5	139	9552	54
COMPASS 1 2Z8 4.40-4M			10950	79.5	137	12736	72
COMPASS 1 2Z8 4.50-1M	S03	500	3350	27	124	3899	23
COMPASS 1 2Z8 4.50-2M			6820	51.5	132	7798	46
COMPASS 1 2Z8 4.50-3M			10050	75.5	133	11697	69
COMPASS 1 2Z8 4.50-4M			13100	100	131	15596	92
COMPASS 1 2Z8 4.40-2M	S	400	5590	40.5	138	6368	36
COMPASS 1 2Z8 4.40-4M			10950	79.5	137	12736	72
COMPASS 1 2Z8 4.50-2M	S	500	6820	51.5	132	7798	46
COMPASS 1 2Z8 4.50-4M			13100	100	131	15596	92

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

Values indicated in this technical sheet are to be considered rated values. Flux tolerance: ±7%. Power tolerance: ±5%.

Power tolerance with ZHAGA version or power supply D4i/SR: ±10%.

The characteristics of the product listed above are subjected to change without notice.



LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 3000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 3000K, lm)	RATED LED POWER* (Tj=85°C, W)
COMPASS 1 2Z8 3.40-1M	STU-M STU-S STU-W	400	2780	21.5	129	3089	18
COMPASS 1 2Z8 3.40-2M			5590	40.5	138	6178	36
COMPASS 1 2Z8 3.40-3M			8320	59.5	139	9267	54
COMPASS 1 2Z8 3.40-4M			10950	79.5	137	12356	72
COMPASS 1 2Z8 3.50-1M	STU-M STU-S STU-W	500	3350	27	124	3782	23
COMPASS 1 2Z8 3.50-2M			6820	51.5	132	7564	46
COMPASS 1 2Z8 3.50-3M			10050	75.5	133	11346	69
COMPASS 1 2Z8 3.50-4M			13100	100	131	15128	92
COMPASS 1 2Z8 3.40-1M	S03	400	2720	21.5	126	3089	18
COMPASS 1 2Z8 3.40-2M			5480	40.5	135	6178	36
COMPASS 1 2Z8 3.40-3M			8150	59.5	136	9267	54
COMPASS 1 2Z8 3.40-4M			10730	79.5	134	12356	72
COMPASS 1 2Z8 3.50-1M	S03	500	3280	27	121	3782	23
COMPASS 1 2Z8 3.50-2M			6680	51.5	129	7564	46
COMPASS 1 2Z8 3.50-3M			9840	75.5	130	11346	69
COMPASS 1 2Z8 3.50-4M			12840	100	128	15128	92
COMPASS 1 2Z8 3.40-2M	S	400	5480	40.5	135	6178	36
COMPASS 1 2Z8 3.40-4M			10730	79.5	134	12356	72
COMPASS 1 2Z8 3.50-2M	S	500	6680	51.5	129	7564	46
COMPASS 1 2Z8 3.50-4M			12840	100	128	15128	92

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

Values indicated in this technical sheet are to be considered rated values. Flux tolerance: $\pm 7\%$. Power tolerance: $\pm 5\%$.

Power tolerance with ZHAGA version or power supply D4i/SR: $\pm 10\%$.

The characteristics of the product listed above are subjected to change without notice.