

## COMPASS 1 TS

### MAIN CHARACTERISTICS

<b>Applications</b>	Street and urban lighting.
<b>Optic</b>	TS-S: Symmetrical optic for centre road lighting (narrow emission). TS-M: Symmetrical optic for centre road lighting (medium emission). TS-W: Symmetrical optic for centre road lighting (wide emission). TS-O3: Symmetrical optic for centre road lighting (extra wide emission). 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
<b>Insulation class</b>	II, I
<b>Protection degree</b>	IP66   IK08 total
<b>LED Modules</b>	Removable / Replaceable.
<b>Dimensions</b>	See the drawing
<b>Weight</b>	max 10.5 kg
<b>Exposed surface</b>	Side: 0.05m <sup>2</sup> – Top: 0.25m <sup>2</sup>
<b>Mounting</b>	Suspended installation on cable Ø5-12mm. Inclination on horizontal plane: ±15°. Rotation: 360° on vertical axis.
<b>Gear tray</b>	Removable plate.
<b>Operating temp.</b>	-40°C / +50°C
<b>Storage temperature</b>	-40°C / +80°C
<b>Main reference standards</b>	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3

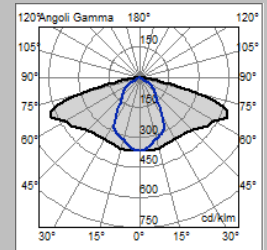


### ELECTRICAL CHARACTERISTICS

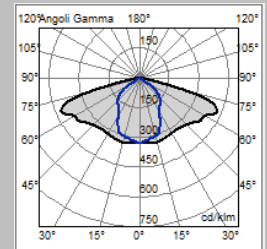
<b>Rated voltage</b>	220÷240V 50/60Hz
<b>Power factor</b>	>0,9 (at full load, F, DA, DAC)
<b>On-load switch</b>	Included, with integrated cable clamp.
<b>Mains connection</b>	Cable H07RN-F nx1.5mm <sup>2</sup> Optional: connector M/F IP66/68 for cables max. 2,5mm <sup>2</sup> , Ø max. 14mm. Option: pass-through with integrated double H07RN-F cable.
<b>Surge protection</b>	Up to 10kV   With SPD (optional) 10kV / 10kV CM/DM
<b>SPD (optional)</b>	10kV-10kA, type 2+3, with LED signal and thermo fuse to disconnect load at the end of life.
<b>Control system (options)</b>	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).
<b>Optical unit lifetime (Tq=25°C, 500mA)</b>	>100.000hr L90B10 >100.000hr L90, TM21

### MATERIALS

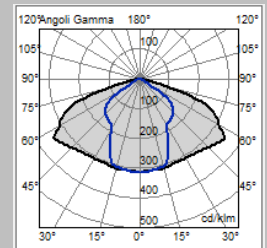
<b>Fixing</b>	Stainless steel.
<b>Body</b>	Die-cast aluminum UNI EN1706 powder painted.
<b>Closure hook</b>	
<b>Optic</b>	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
<b>Screen</b>	Flat tempered glass, 5mm thickness high transparency.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



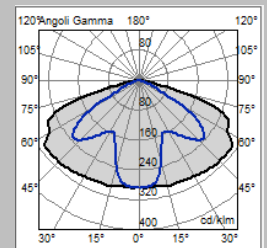
TS-S Optic



TS-M Optic



TS-W Optic



TS-O3 Optic

All the published photometrical data has been obtained according to applicable international standards





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 TS 2Z8 4.40-2M	TS-M	400	5700	40.5	140	6351	36
COMPASS 1 TS 2Z8 4.40-4M	TS-S TS-W		11180	79.5	140	12701	72
COMPASS 1 TS 2Z8 4.50-2M	TS-M		500	6950	51.5	134	7792
COMPASS 1 TS 2Z8 4.50-4M	TS-S TS-W	13370		100	133	15585	91
COMPASS 1 TS 2Z8 4.40-2M	TS-03	400	5590	40.5	138	6351	36
COMPASS 1 TS 2Z8 4.40-4M			10950	79.5	137	12701	72
COMPASS 1 TS 2Z8 4.50-2M	TS-03	500	6820	51.5	132	7792	46
COMPASS 1 TS 2Z8 4.50-4M			13100	100	131	15585	91

\*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.



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 TS 2Z8 3.40-2M	TS-M	400	5590	40.5	138	6224	36
COMPASS 1 TS 2Z8 3.40-4M	TS-S TS-W		10950	79.5	137	12447	72
COMPASS 1 TS 2Z8 3.50-2M	TS-M		500	6820	51.5	132	7636
COMPASS 1 TS 2Z8 3.50-4M	TS-S TS-W	13100		100	131	15273	91
COMPASS 1 TS 2Z8 3.40-2M	TS-03	400	5480	40.5	135	6224	36
COMPASS 1 TS 2Z8 3.40-4M			10730	79.5	134	12447	72
COMPASS 1 TS 2Z8 3.50-2M	TS-03	500	6680	51.5	129	7636	46
COMPASS 1 TS 2Z8 3.50-4M			12840	100	128	15273	91

\*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.