



ECO•RAYS

ECO•RAYS TS

MAIN CHARACTERISTICS

Applications	Street and urban lighting.
Optic	S: Symmetrical optic for urban lighting and green areas. TS: Symmetrical optic for centre road lighting. Colour temperature: 4000K, 3000K, 2700K, 2200K (others in option) CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 185 lm/W @ 140mA, Tj=85°C, 4000K
Insulation class	II, I
Protection degree	IP66 IK08 total
Dimensions	See the drawing
Weight	max. 7 kg
Exposed surface	Side: 0.04m ² – Top: 0.17m ² SCx: 0.049 m ²
Mounting	Suspended installation on cable Ø5-12mm.
Tilt angle	Inclination on horizontal plane: ±15°. Rotation: 360° on vertical axis.
LED modules	Removable
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, PD EPRS 003 / EN 62722-2-1 2016 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)
Mains connection	Cable H07RN-F nx1.5mm ² Optional: connector M/F IP66/68 for cables max. 2.5mm ² , Ø max. 14mm
Surge protection	Up to 12kV With SPD: CL.II: 10kV / 10kV CM/DM CL.I: 12kV / 10kV CM/DM Without SPD: CL.II: 10kV / 6kV CM/DM CL.I: 10kV / 6kV CM/DM
SPD (optional)	12kV-10kA, type 2+3, 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. 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)	>100.000hr L90B10 >100.000hr L90, TM-21

MATERIALS

Fixing	Stainless steel AISI 316L
Body	Die-cast aluminium UNI EN1706 powder painted.
Optic	99.85% aluminium 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.
Gable gland	Metallic M20x1.5 - IP68
Gasket	Polyurethane
Colour	Graphite - Cod. 01

ECO RAYS TS 5P5 4000K

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX*(4000K, lm)	RATED LUMINAIRE POWER*(W)	LUMINAIRE EFFICACY (lm/W)	RATED LED FLUX*(4000K, lm)	RATED LED POWER*(W)	Ta MAX (°C)
ECO RAYS TS 5P5 7040.040-1M	TS	1220	8,5	143	1240	6,2	50
ECO RAYS TS 5P5 7040.050-1M		1490	10,2	146	1545	7,8	50
ECO RAYS TS 5P5 7040.060-1M		1770	11,9	148	1847	9,4	50
ECO RAYS TS 5P5 7040.070-1M		2040	13,6	149	2146	11	50
ECO RAYS TS 5P5 7040.080-1M		2330	15,4	151	2441	12,7	50
ECO RAYS TS 5P5 7040.090-1M		2610	17,2	151	2734	14,3	50
ECO RAYS TS 5P5 7040.100-1M		2890	19,1	151	3023	16	50
ECO RAYS TS 5P5 7040.120-1M		3450	22,9	150	3592	19,3	50
ECO RAYS TS 5P5 7040.140-1M		3990	26,8	148	4150	22,7	50
ECO RAYS TS 5P5 7040.160-1M		4500	30,8	146	4694	26,1	50
ECO RAYS TS 5P5 7040.180-1M		4980	34,8	143	5227	29,6	50
ECO RAYS TS 5P5 7040.200-1M		5410	38,8	139	5746	33,1	50
ECO RAYS TS 5P5 7040.040-2M		2430	16	151	2480	12,4	50
ECO RAYS TS 5P5 7040.050-2M		2980	19,5	152	3090	15,6	50
ECO RAYS TS 5P5 7040.060-2M		3540	23	153	3694	18,8	50
ECO RAYS TS 5P5 7040.070-2M		4100	26,6	154	4291	22	50
ECO RAYS TS 5P5 7040.080-2M		4660	30,1	154	4882	25,3	50
ECO RAYS TS 5P5 7040.090-2M		5220	33,8	154	5467	28,6	50
ECO RAYS TS 5P5 7040.100-2M		5780	37,4	154	6046	31,9	50
ECO RAYS TS 5P5 7040.120-2M		6880	44,8	153	7185	38,6	50
ECO RAYS TS 5P5 7040.140-2M		7940	52,3	151	8299	45,4	50
ECO RAYS TS 5P5 7040.160-2M	S	8950	59,9	149	9388	52,2	50
ECO RAYS TS 5P5 7040.180-2M		9890	67,7	146	10453	59,1	50
ECO RAYS TS 5P5 7040.200-2M		10750	75,6	142	11493	66,1	50
ECO RAYS TS 5P5 7040.040-2M		2380	16	148	2480	12,4	50
ECO RAYS TS 5P5 7040.050-2M		2920	19,5	149	3090	15,6	50
ECO RAYS TS 5P5 7040.060-2M		3460	23	150	3694	18,8	50
ECO RAYS TS 5P5 7040.070-2M		4010	26,6	150	4291	22	50
ECO RAYS TS 5P5 7040.080-2M		4560	30,1	151	4882	25,3	50
ECO RAYS TS 5P5 7040.090-2M		5110	33,8	151	5467	28,6	50
ECO RAYS TS 5P5 7040.100-2M		5650	37,4	151	6046	31,9	50
ECO RAYS TS 5P5 7040.120-2M		6720	44,8	149	7185	38,6	50
ECO RAYS TS 5P5 7040.140-2M		7760	52,3	148	8299	45,4	50
ECO RAYS TS 5P5 7040.160-2M		8750	59,9	146	9388	52,2	50
ECO RAYS TS 5P5 7040.180-2M		9670	67,7	142	10453	59,1	50
ECO RAYS TS 5P5 7040.200-2M		10510	75,6	139	11493	66,1	50

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory. Tq=25°C, Vin=230Vac, F/DA/DAC.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet. Tj=85°C.

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

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

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

ECO RAYS TS 5P5 3000K

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX*(3000K, lm)	RATED LUMINAIRE POWER*(W)	LUMINAIRE EFFICACY (lm/W)	RATED LED FLUX*(3000K, lm)	RATED LED POWER*(W)	Ta MAX (°C)
ECO RAYS TS 5P5 7030.040-1M	TS	1150	8,5	135	1166	6,2	50
ECO RAYS TS 5P5 7030.050-1M		1400	10,2	137	1452	7,8	50
ECO RAYS TS 5P5 7030.060-1M		1660	11,9	139	1736	9,4	50
ECO RAYS TS 5P5 7030.070-1M		1920	13,6	141	2017	11	50
ECO RAYS TS 5P5 7030.080-1M		2190	15,4	142	2295	12,7	50
ECO RAYS TS 5P5 7030.090-1M		2450	17,2	142	2570	14,3	50
ECO RAYS TS 5P5 7030.100-1M		2720	19,1	142	2842	16	50
ECO RAYS TS 5P5 7030.120-1M		3240	22,9	141	3377	19,3	50
ECO RAYS TS 5P5 7030.140-1M		3750	26,8	139	3901	22,7	50
ECO RAYS TS 5P5 7030.160-1M		4230	30,8	137	4413	26,1	50
ECO RAYS TS 5P5 7030.180-1M		4680	34,8	134	4913	29,6	50
ECO RAYS TS 5P5 7030.200-1M		5090	38,8	131	5402	33,1	50
ECO RAYS TS 5P5 7030.040-2M		2280	16	142	2332	12,4	50
ECO RAYS TS 5P5 7030.050-2M		2800	19,5	143	2905	15,6	50
ECO RAYS TS 5P5 7030.060-2M		3330	23	144	3472	18,8	50
ECO RAYS TS 5P5 7030.070-2M		3850	26,6	144	4034	22	50
ECO RAYS TS 5P5 7030.080-2M		4380	30,1	145	4589	25,3	50
ECO RAYS TS 5P5 7030.090-2M		4910	33,8	145	5139	28,6	50
ECO RAYS TS 5P5 7030.100-2M		5430	37,4	145	5683	31,9	50
ECO RAYS TS 5P5 7030.120-2M		6470	44,8	144	6754	38,6	50
ECO RAYS TS 5P5 7030.140-2M		7460	52,3	142	7801	45,4	50
ECO RAYS TS 5P5 7030.160-2M		8410	59,9	140	8825	52,2	50
ECO RAYS TS 5P5 7030.180-2M		9300	67,7	137	9826	59,1	50
ECO RAYS TS 5P5 7030.200-2M		10110	75,6	133	10803	66,1	50
ECO RAYS TS 5P5 7030.040-2M	S	2240	16	140	2332	12,4	50
ECO RAYS TS 5P5 7030.050-2M		2740	19,5	140	2905	15,6	50
ECO RAYS TS 5P5 7030.060-2M		3260	23	141	3472	18,8	50
ECO RAYS TS 5P5 7030.070-2M		3770	26,6	141	4034	22	50
ECO RAYS TS 5P5 7030.080-2M		4280	30,1	142	4589	25,3	50
ECO RAYS TS 5P5 7030.090-2M		4800	33,8	142	5139	28,6	50
ECO RAYS TS 5P5 7030.100-2M		5310	37,4	141	5683	31,9	50
ECO RAYS TS 5P5 7030.120-2M		6320	44,8	141	6754	38,6	50
ECO RAYS TS 5P5 7030.140-2M		7290	52,3	139	7801	45,4	50
ECO RAYS TS 5P5 7030.160-2M		8220	59,9	137	8825	52,2	50
ECO RAYS TS 5P5 7030.180-2M		9090	67,7	134	9826	59,1	50
ECO RAYS TS 5P5 7030.200-2M		9880	75,6	130	10803	66,1	50

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory. Tq=25°C, Vin=230Vac, F/DA/DAC.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet. Tj=85°C.

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

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

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

ECO RAYS TS 5P5 2700K

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX*(2700K, lm)	RATED LUMINAIRE POWER*(W)	LUMINAIRE EFFICACY (lm/W)	RATED LED FLUX*(2700K, lm)	RATED LED POWER*(W)	Ta MAX (°C)
ECO RAYS TS 5P5 7027.040-1M	TS	1100	8,5	129	1116	6,2	50
ECO RAYS TS 5P5 7027.050-1M		1340	10,2	131	1391	7,8	50
ECO RAYS TS 5P5 7027.060-1M		1590	11,9	133	1662	9,4	50
ECO RAYS TS 5P5 7027.070-1M		1840	13,6	135	1931	11	50
ECO RAYS TS 5P5 7027.080-1M		2090	15,4	135	2197	12,7	50
ECO RAYS TS 5P5 7027.090-1M		2350	17,2	136	2460	14,3	50
ECO RAYS TS 5P5 7027.100-1M		2600	19,1	136	2721	16	50
ECO RAYS TS 5P5 7027.120-1M		3100	22,9	135	3233	19,3	50
ECO RAYS TS 5P5 7027.140-1M		3590	26,8	133	3735	22,7	50
ECO RAYS TS 5P5 7027.160-1M		4050	30,8	131	4225	26,1	50
ECO RAYS TS 5P5 7027.180-1M		4480	34,8	128	4704	29,6	50
ECO RAYS TS 5P5 7027.200-1M		4870	38,8	125	5172	33,1	50
ECO RAYS TS 5P5 7027.040-2M		2190	16	136	2232	12,4	50
ECO RAYS TS 5P5 7027.050-2M		2680	19,5	137	2781	15,6	50
ECO RAYS TS 5P5 7027.060-2M		3190	23	138	3324	18,8	50
ECO RAYS TS 5P5 7027.070-2M		3690	26,6	138	3862	22	50
ECO RAYS TS 5P5 7027.080-2M		4200	30,1	139	4394	25,3	50
ECO RAYS TS 5P5 7027.090-2M		4700	33,8	139	4921	28,6	50
ECO RAYS TS 5P5 7027.100-2M		5200	37,4	139	5441	31,9	50
ECO RAYS TS 5P5 7027.120-2M		6190	44,8	138	6466	38,6	50
ECO RAYS TS 5P5 7027.140-2M		7150	52,3	136	7469	45,4	50
ECO RAYS TS 5P5 7027.160-2M		8060	59,9	134	8450	52,2	50
ECO RAYS TS 5P5 7027.180-2M		8900	67,7	131	9408	59,1	50
ECO RAYS TS 5P5 7027.200-2M		9680	75,6	128	10344	66,1	50
ECO RAYS TS 5P5 7027.040-2M	S	2140	16	133	2232	12,4	50
ECO RAYS TS 5P5 7027.050-2M		2630	19,5	134	2781	15,6	50
ECO RAYS TS 5P5 7027.060-2M		3120	23	135	3324	18,8	50
ECO RAYS TS 5P5 7027.070-2M		3610	26,6	135	3862	22	50
ECO RAYS TS 5P5 7027.080-2M		4100	30,1	136	4394	25,3	50
ECO RAYS TS 5P5 7027.090-2M		4600	33,8	136	4921	28,6	50
ECO RAYS TS 5P5 7027.100-2M		5090	37,4	136	5441	31,9	50
ECO RAYS TS 5P5 7027.120-2M		6050	44,8	135	6466	38,6	50
ECO RAYS TS 5P5 7027.140-2M		6980	52,3	133	7469	45,4	50
ECO RAYS TS 5P5 7027.160-2M		7870	59,9	131	8450	52,2	50
ECO RAYS TS 5P5 7027.180-2M		8700	67,7	128	9408	59,1	50
ECO RAYS TS 5P5 7027.200-2M		9460	75,6	125	10344	66,1	50

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory. Tq=25°C, Vin=230Vac, F/DA/DAC.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet. Tj=85°C.

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

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

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

ECO RAYS TS 5P5 2200K

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX*(2200K, lm)	RATED LUMINAIRE POWER*(W)	LUMINAIRE EFFICACY (lm/W)	RATED LED FLUX*(2200K, lm)	RATED LED POWER*(W)	Ta MAX (°C)
ECO RAYS TS 5P5 7022.040-1M	TS	990	8,5	116	1005	6,2	50
ECO RAYS TS 5P5 7022.050-1M		1210	10,2	118	1251	7,8	50
ECO RAYS TS 5P5 7022.060-1M		1430	11,9	120	1496	9,4	50
ECO RAYS TS 5P5 7022.070-1M		1660	13,6	122	1738	11	50
ECO RAYS TS 5P5 7022.080-1M		1880	15,4	122	1977	12,7	50
ECO RAYS TS 5P5 7022.090-1M		2110	17,2	122	2214	14,3	50
ECO RAYS TS 5P5 7022.100-1M		2340	19,1	122	2449	16	50
ECO RAYS TS 5P5 7022.120-1M		2790	22,9	121	2910	19,3	50
ECO RAYS TS 5P5 7022.140-1M		3230	26,8	120	3361	22,7	50
ECO RAYS TS 5P5 7022.160-1M		3650	30,8	118	3802	26,1	50
ECO RAYS TS 5P5 7022.180-1M		4030	34,8	115	4233	29,6	50
ECO RAYS TS 5P5 7022.200-1M		4380	38,8	112	4655	33,1	50
ECO RAYS TS 5P5 7022.040-2M		1970	16	123	2009	12,4	50
ECO RAYS TS 5P5 7022.050-2M		2420	19,5	124	2503	15,6	50
ECO RAYS TS 5P5 7022.060-2M		2870	23	124	2992	18,8	50
ECO RAYS TS 5P5 7022.070-2M		3320	26,6	124	3476	22	50
ECO RAYS TS 5P5 7022.080-2M		3780	30,1	125	3955	25,3	50
ECO RAYS TS 5P5 7022.090-2M		4230	33,8	125	4428	28,6	50
ECO RAYS TS 5P5 7022.100-2M		4680	37,4	125	4897	31,9	50
ECO RAYS TS 5P5 7022.120-2M		5570	44,8	124	5820	38,6	50
ECO RAYS TS 5P5 7022.140-2M		6430	52,3	122	6722	45,4	50
ECO RAYS TS 5P5 7022.160-2M		7250	59,9	121	7605	52,2	50
ECO RAYS TS 5P5 7022.180-2M		8010	67,7	118	8467	59,1	50
ECO RAYS TS 5P5 7022.200-2M		8710	75,6	115	9309	66,1	50
ECO RAYS TS 5P5 7022.040-2M	S	1930	16	120	2009	12,4	50
ECO RAYS TS 5P5 7022.050-2M		2360	19,5	121	2503	15,6	50
ECO RAYS TS 5P5 7022.060-2M		2810	23	122	2992	18,8	50
ECO RAYS TS 5P5 7022.070-2M		3250	26,6	122	3476	22	50
ECO RAYS TS 5P5 7022.080-2M		3690	30,1	122	3955	25,3	50
ECO RAYS TS 5P5 7022.090-2M		4140	33,8	122	4428	28,6	50
ECO RAYS TS 5P5 7022.100-2M		4580	37,4	122	4897	31,9	50
ECO RAYS TS 5P5 7022.120-2M		5450	44,8	121	5820	38,6	50
ECO RAYS TS 5P5 7022.140-2M		6290	52,3	120	6722	45,4	50
ECO RAYS TS 5P5 7022.160-2M		7090	59,9	118	7605	52,2	50
ECO RAYS TS 5P5 7022.180-2M		7830	67,7	115	8467	59,1	50
ECO RAYS TS 5P5 7022.200-2M		8510	75,6	112	9309	66,1	50

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory. Tq=25°C, Vin=230Vac, F/DA/DAC.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet. Tj=85°C.

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

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

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

ECO RAYS TS 4P4 4000K

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX*(4000K, lm)	RATED LUMINAIRE POWER*(W)	LUMINAIRE EFFICACY (lm/W)	RATED LED FLUX*(4000K, lm)	RATED LED POWER*(W)	Ta MAX (°C)
ECO RAYS TS 4P4 7040.050-1M	TS	1200	8,3	144	1236	6,2	50
ECO RAYS TS 4P4 7040.060-1M		1430	9,6	148	1477	7,5	50
ECO RAYS TS 4P4 7040.070-1M		1650	11	150	1716	8,8	50
ECO RAYS TS 4P4 7040.080-1M		1880	12,4	151	1953	10,1	50
ECO RAYS TS 4P4 7040.090-1M		2110	13,8	152	2187	11,4	50
ECO RAYS TS 4P4 7040.100-1M		2340	15,3	152	2418	12,8	50
ECO RAYS TS 4P4 7040.120-1M		2790	18,4	151	2874	15,4	50
ECO RAYS TS 4P4 7040.140-1M		3230	21,5	150	3320	18,1	50
ECO RAYS TS 4P4 7040.160-1M		3650	24,7	147	3755	20,9	50
ECO RAYS TS 4P4 7040.180-1M		4030	27,9	144	4181	23,6	50
ECO RAYS TS 4P4 7040.200-1M		4380	31	141	4597	26,4	50
ECO RAYS TS 4P4 7040.050-2M		2420	16	151	2472	12,5	50
ECO RAYS TS 4P4 7040.060-2M		2870	18,7	153	2955	15	50
ECO RAYS TS 4P4 7040.070-2M		3320	21,5	154	3433	17,6	50
ECO RAYS TS 4P4 7040.080-2M		3780	24,3	155	3906	20,3	50
ECO RAYS TS 4P4 7040.090-2M		4230	27,1	156	4374	22,9	50
ECO RAYS TS 4P4 7040.100-2M		4680	30	156	4837	25,5	50
ECO RAYS TS 4P4 7040.120-2M		5560	35,9	154	5748	30,9	50
ECO RAYS TS 4P4 7040.140-2M		6420	41,9	153	6639	36,3	50
ECO RAYS TS 4P4 7040.160-2M		7240	48	150	7511	41,8	50
ECO RAYS TS 4P4 7040.180-2M		8000	54,2	147	8362	47,3	50
ECO RAYS TS 4P4 7040.200-2M		8700	60,5	143	9194	52,9	50
ECO RAYS TS 4P4 7040.050-2M	S	2330	16	145	2472	12,5	50
ECO RAYS TS 4P4 7040.060-2M		2770	18,7	148	2955	15	50
ECO RAYS TS 4P4 7040.070-2M		3210	21,5	149	3433	17,6	50
ECO RAYS TS 4P4 7040.080-2M		3650	24,3	150	3906	20,3	50
ECO RAYS TS 4P4 7040.090-2M		4080	27,1	150	4374	22,9	50
ECO RAYS TS 4P4 7040.100-2M		4520	30	150	4837	25,5	50
ECO RAYS TS 4P4 7040.120-2M		5380	35,9	149	5748	30,9	50
ECO RAYS TS 4P4 7040.140-2M		6210	41,9	148	6639	36,3	50
ECO RAYS TS 4P4 7040.160-2M		7000	48	145	7511	41,8	50
ECO RAYS TS 4P4 7040.180-2M		7740	54,2	142	8362	47,3	50
ECO RAYS TS 4P4 7040.200-2M		8410	60,5	139	9194	52,9	50

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory. Tq=25°C, Vin=230Vac, F/DAC.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet. Tj=85°C.

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

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

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

ECO RAYS TS 4P4 3000K

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX*(3000K, lm)	RATED LUMINAIRE POWER*(W)	LUMINAIRE EFFICACY (lm/W)	RATED LED FLUX*(3000K, lm)	RATED LED POWER*(W)	Ta MAX (°C)
ECO RAYS TS 4P4 7030.050-1M	TS	1130	8,3	136	1162	6,2	50
ECO RAYS TS 4P4 7030.060-1M		1340	9,6	139	1389	7,5	50
ECO RAYS TS 4P4 7030.070-1M		1550	11	140	1613	8,8	50
ECO RAYS TS 4P4 7030.080-1M		1770	12,4	142	1836	10,1	50
ECO RAYS TS 4P4 7030.090-1M		1980	13,8	143	2056	11,4	50
ECO RAYS TS 4P4 7030.100-1M		2200	15,3	143	2273	12,8	50
ECO RAYS TS 4P4 7030.120-1M		2620	18,4	142	2702	15,4	50
ECO RAYS TS 4P4 7030.140-1M		3040	21,5	141	3120	18,1	50
ECO RAYS TS 4P4 7030.160-1M		3430	24,7	138	3530	20,9	50
ECO RAYS TS 4P4 7030.180-1M		3790	27,9	135	3930	23,6	50
ECO RAYS TS 4P4 7030.200-1M		4120	31	132	4321	26,4	50
ECO RAYS TS 4P4 7030.050-2M		2270	16	141	2324	12,5	50
ECO RAYS TS 4P4 7030.060-2M		2700	18,7	144	2778	15	50
ECO RAYS TS 4P4 7030.070-2M		3130	21,5	145	3227	17,6	50
ECO RAYS TS 4P4 7030.080-2M		3550	24,3	146	3671	20,3	50
ECO RAYS TS 4P4 7030.090-2M		3980	27,1	146	4111	22,9	50
ECO RAYS TS 4P4 7030.100-2M		4400	30	146	4547	25,5	50
ECO RAYS TS 4P4 7030.120-2M		5230	35,9	145	5403	30,9	50
ECO RAYS TS 4P4 7030.140-2M		6030	41,9	143	6241	36,3	50
ECO RAYS TS 4P4 7030.160-2M		6800	48	141	7060	41,8	50
ECO RAYS TS 4P4 7030.180-2M		7520	54,2	138	7861	47,3	50
ECO RAYS TS 4P4 7030.200-2M		8180	60,5	135	8643	52,9	50
ECO RAYS TS 4P4 7030.050-2M	S	2190	16	136	2324	12,5	50
ECO RAYS TS 4P4 7030.060-2M		2600	18,7	139	2778	15	50
ECO RAYS TS 4P4 7030.070-2M		3010	21,5	140	3227	17,6	50
ECO RAYS TS 4P4 7030.080-2M		3430	24,3	141	3671	20,3	50
ECO RAYS TS 4P4 7030.090-2M		3840	27,1	141	4111	22,9	50
ECO RAYS TS 4P4 7030.100-2M		4250	30	141	4547	25,5	50
ECO RAYS TS 4P4 7030.120-2M		5060	35,9	140	5403	30,9	50
ECO RAYS TS 4P4 7030.140-2M		5840	41,9	139	6241	36,3	50
ECO RAYS TS 4P4 7030.160-2M		6580	48	137	7060	41,8	50
ECO RAYS TS 4P4 7030.180-2M		7270	54,2	134	7861	47,3	50
ECO RAYS TS 4P4 7030.200-2M		7910	60,5	130	8643	52,9	50

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory. Tq=25°C, Vin=230Vac, F/DA/DAC.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet. Tj=85°C.

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

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

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

ECO RAYS TS 4P4 2700K

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX*(2700K, lm)	RATED LUMINAIRE POWER*(W)	LUMINAIRE EFFICACY (lm/W)	RATED LED FLUX*(2700K, lm)	RATED LED POWER*(W)	Ta MAX (°C)
ECO RAYS TS 4P4 7027.050-1M	TS	1080	8,3	130	1112	6,2	50
ECO RAYS TS 4P4 7027.060-1M		1280	9,6	133	1330	7,5	50
ECO RAYS TS 4P4 7027.070-1M		1490	11	135	1545	8,8	50
ECO RAYS TS 4P4 7027.080-1M		1690	12,4	136	1758	10,1	50
ECO RAYS TS 4P4 7027.090-1M		1900	13,8	137	1968	11,4	50
ECO RAYS TS 4P4 7027.100-1M		2110	15,3	137	2177	12,8	50
ECO RAYS TS 4P4 7027.120-1M		2510	18,4	136	2587	15,4	50
ECO RAYS TS 4P4 7027.140-1M		2910	21,5	135	2988	18,1	50
ECO RAYS TS 4P4 7027.160-1M		3280	24,7	132	3380	20,9	50
ECO RAYS TS 4P4 7027.180-1M		3630	27,9	130	3763	23,6	50
ECO RAYS TS 4P4 7027.200-1M		3940	31	127	4137	26,4	50
ECO RAYS TS 4P4 7027.050-2M		2180	16	136	2225	12,5	50
ECO RAYS TS 4P4 7027.060-2M		2580	18,7	137	2659	15	50
ECO RAYS TS 4P4 7027.070-2M		2990	21,5	139	3090	17,6	50
ECO RAYS TS 4P4 7027.080-2M		3400	24,3	139	3515	20,3	50
ECO RAYS TS 4P4 7027.090-2M		3810	27,1	140	3936	22,9	50
ECO RAYS TS 4P4 7027.100-2M		4210	30	140	4353	25,5	50
ECO RAYS TS 4P4 7027.120-2M		5010	35,9	139	5173	30,9	50
ECO RAYS TS 4P4 7027.140-2M		5780	41,9	137	5975	36,3	50
ECO RAYS TS 4P4 7027.160-2M		6510	48	135	6760	41,8	50
ECO RAYS TS 4P4 7027.180-2M		7200	54,2	132	7526	47,3	50
ECO RAYS TS 4P4 7027.200-2M		7830	60,5	129	8275	52,9	50
ECO RAYS TS 4P4 7027.050-2M	S	2100	16	131	2225	12,5	50
ECO RAYS TS 4P4 7027.060-2M		2490	18,7	133	2659	15	50
ECO RAYS TS 4P4 7027.070-2M		2890	21,5	134	3090	17,6	50
ECO RAYS TS 4P4 7027.080-2M		3280	24,3	134	3515	20,3	50
ECO RAYS TS 4P4 7027.090-2M		3680	27,1	135	3936	22,9	50
ECO RAYS TS 4P4 7027.100-2M		4070	30	135	4353	25,5	50
ECO RAYS TS 4P4 7027.120-2M		4840	35,9	134	5173	30,9	50
ECO RAYS TS 4P4 7027.140-2M		5590	41,9	133	5975	36,3	50
ECO RAYS TS 4P4 7027.160-2M		6300	48	131	6760	41,8	50
ECO RAYS TS 4P4 7027.180-2M		6960	54,2	128	7526	47,3	50
ECO RAYS TS 4P4 7027.200-2M		7570	60,5	125	8275	52,9	50

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory. Tq=25°C, Vin=230Vac, F/DA/DAC.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet. Tj=85°C.

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

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

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

ECO RAYS TS 4P4 2200K

LUMINAIRE	OPTIC	RATED LUMINAIRE FLUX*(2200K, lm)	RATED LUMINAIRE POWER*(W)	LUMINAIRE EFFICACY (lm/W)	RATED LED FLUX*(2200K, lm)	RATED LED POWER*(W)	Ta MAX (°C)
ECO RAYS TS 4P4 7022.050-1M	TS	970	8,3	116	1001	6,2	50
ECO RAYS TS 4P4 7022.060-1M		1160	9,6	120	1197	7,5	50
ECO RAYS TS 4P4 7022.070-1M		1340	11	121	1390	8,8	50
ECO RAYS TS 4P4 7022.080-1M		1520	12,4	122	1582	10,1	50
ECO RAYS TS 4P4 7022.090-1M		1710	13,8	123	1771	11,4	50
ECO RAYS TS 4P4 7022.100-1M		1900	15,3	124	1959	12,8	50
ECO RAYS TS 4P4 7022.120-1M		2260	18,4	122	2328	15,4	50
ECO RAYS TS 4P4 7022.140-1M		2620	21,5	121	2689	18,1	50
ECO RAYS TS 4P4 7022.160-1M		2950	24,7	119	3042	20,9	50
ECO RAYS TS 4P4 7022.180-1M		3270	27,9	117	3387	23,6	50
ECO RAYS TS 4P4 7022.200-1M		3550	31	114	3724	26,4	50
ECO RAYS TS 4P4 7022.050-2M		1960	16	122	2002	12,5	50
ECO RAYS TS 4P4 7022.060-2M		2330	18,7	124	2394	15	50
ECO RAYS TS 4P4 7022.070-2M		2690	21,5	125	2781	17,6	50
ECO RAYS TS 4P4 7022.080-2M		3060	24,3	125	3164	20,3	50
ECO RAYS TS 4P4 7022.090-2M		3430	27,1	126	3543	22,9	50
ECO RAYS TS 4P4 7022.100-2M		3790	30	126	3918	25,5	50
ECO RAYS TS 4P4 7022.120-2M		4510	35,9	125	4656	30,9	50
ECO RAYS TS 4P4 7022.140-2M		5200	41,9	124	5378	36,3	50
ECO RAYS TS 4P4 7022.160-2M		5860	48	122	6084	41,8	50
ECO RAYS TS 4P4 7022.180-2M		6480	54,2	119	6774	47,3	50
ECO RAYS TS 4P4 7022.200-2M		7050	60,5	116	7447	52,9	50
ECO RAYS TS 4P4 7022.050-2M	S	1890	16	118	2002	12,5	50
ECO RAYS TS 4P4 7022.060-2M		2240	18,7	119	2394	15	50
ECO RAYS TS 4P4 7022.070-2M		2600	21,5	120	2781	17,6	50
ECO RAYS TS 4P4 7022.080-2M		2950	24,3	121	3164	20,3	50
ECO RAYS TS 4P4 7022.090-2M		3310	27,1	122	3543	22,9	50
ECO RAYS TS 4P4 7022.100-2M		3660	30	122	3918	25,5	50
ECO RAYS TS 4P4 7022.120-2M		4360	35,9	121	4656	30,9	50
ECO RAYS TS 4P4 7022.140-2M		5030	41,9	120	5378	36,3	50
ECO RAYS TS 4P4 7022.160-2M		5670	48	118	6084	41,8	50
ECO RAYS TS 4P4 7022.180-2M		6270	54,2	115	6774	47,3	50
ECO RAYS TS 4P4 7022.200-2M		6810	60,5	112	7447	52,9	50

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory. Tq=25°C, Vin=230Vac, F/DAC.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet. Tj=85°C.

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

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

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