

ECO•RAYS S

MAIN CHARACTERISTICS

Applications	Urban and street lighting.
Optic	STU-M / S: Asymmetrical optic for street, urban and cycle-path lighting. SV: Asymmetrical optic for narrow urban streets or highway entrance/exit turns. S05: Asymmetrical optic for street, urban and green areas lighting. S: Roto-symmetric 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: 158 lm/W @ 525mA, Tj=85°C, 4000K
Insulation class	II, I
Protection degree	IP66
Impact protection	IK08
LED modules	Removable.
Tilt angle	0°
Dimensions	Ø495x81mm
Weight	7 kg
Exposed surface	Side: 0.03m ² – Top: 0.17m ²
Mounting	Suspended on brackets 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

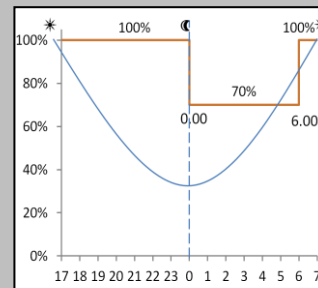
Rated voltage	220÷240V 50/60Hz
LED current	525mA, 700mA
Power factor	>0,9 (at full load)
Mains connection	External connector for cables max. 2.5mm ²
Surge protection	SPD integrated 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life. Pulse withstand: 10kV / 10kV CM/DM
Control system (options)	F: Fixed power not dimmable. DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. PLM: Power Line single point communication system. 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, 700mA)	≥100.000hr L90B10 ≥100.000hr L90, TM-21

MATERIALS

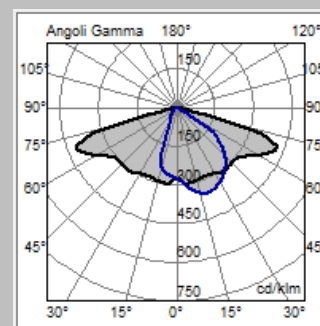
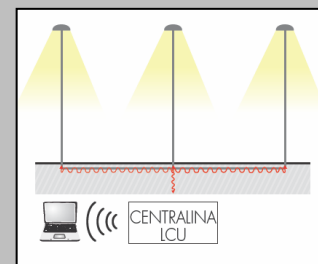
Fixing	Stainless steel screw.
Body	Die-cast aluminium UNI EN1706 powder painted.
Optic	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition. Alluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness.
Gasket	Polyurethane
Colour	Graphite Cod. 01

ECO•RAYS

DA Profile



PLM



STU-M Optic

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





LUMINAIRE	OPTIC	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)
ECO RAYS S 0R2C1 S 4.5-2M	S	3580	31.5	113	4118	26
ECO RAYS S 0R2C1 S 4.7-2M	S	4510	42	107	5274	36
ECO RAYS S 0R2C1 S05 4.5-2M	S05	3580	31.5	113	4118	26
ECO RAYS S 0R2C1 S05 4.50-1M	S05	1750	16	109	1954	12
ECO RAYS S 0R2C1 S05 4.7-1M	S05	2320	22.5	103	2637	18
ECO RAYS S 0R2C1 S05 4.7-2M	S05	4510	42	107	5274	36
ECO RAYS S 0R2C1 STU-M 4.5-2M	STU-M	3580	31.5	113	4118	26
ECO RAYS S 0R2C1 STU-M 4.50-1M	STU-M	1750	16	109	1954	12
ECO RAYS S 0R2C1 STU-M 4.7-1M	STU-M	2320	22.5	103	2637	18
ECO RAYS S 0R2C1 STU-M 4.7-2M	STU-M	4510	42	107	5274	36
ECO RAYS S 0R2C1 STU-S 4.5-2M	STU-S	3580	31.5	113	4118	26
ECO RAYS S 0R2C1 STU-S 4.50-1M	STU-S	1750	16	109	1954	12
ECO RAYS S 0R2C1 STU-S 4.7-1M	STU-S	2320	22.5	103	2637	18
ECO RAYS S 0R2C1 STU-S 4.7-2M	STU-S	4510	42	107	5274	36
ECO RAYS S 0R2C1 SV 4.5-2M	SV	3580	31.5	113	4118	26
ECO RAYS S 0R2C1 SV 4.50-1M	SV	1750	16	109	1954	12
ECO RAYS S 0R2C1 SV 4.7-1M	SV	2320	22.5	103	2637	18
ECO RAYS S 0R2C1 SV 4.7-2M	SV	4510	42	107	5274	36

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

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

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

Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%.



LUMINAIRE	OPTIC	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)
ECO RAYS S 0F2H1 S 3.5-2M	S	3430	30.5	112	4020	26
ECO RAYS S 0F2H1 S 3.7-2M	S	4390	40	109	5116	36
ECO RAYS S 0F2H1 S05 3.5-2M	S05	3430	30.5	112	4020	26
ECO RAYS S 0F2H1 S05 3.50-1M	S05	1670	16	104	1909	12
ECO RAYS S 0F2H1 S05 3.7-1M	S05	2250	21.5	104	2558	18
ECO RAYS S 0F2H1 S05 3.7-2M	S05	4390	40	109	5116	36
ECO RAYS S 0F2H1 STU-M 3.5-2M	STU-M	3430	30.5	112	4020	26
ECO RAYS S 0F2H1 STU-M 3.50-1M	STU-M	1670	16	104	1909	12
ECO RAYS S 0F2H1 STU-M 3.7-1M	STU-M	2250	21.5	104	2558	18
ECO RAYS S 0F2H1 STU-M 3.7-2M	STU-M	4390	40	109	5116	36
ECO RAYS S 0F2H1 STU-S 3.5-2M	STU-S	3430	30.5	112	4020	26
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ECO RAYS S 0F2H1 STU-S 3.7-1M	STU-S	2250	21.5	104	2558	18
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*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

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