TECHNICAL DIVISION ECO RAYS S Rev. FEB-18



Applications

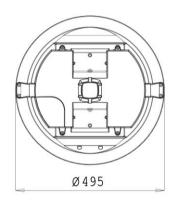
Insulation class

Protection degree

Impact protection LED modules

Tilt angle Dimensions

Optic



Urban and street lighting.

II, I

0°

IP66 IK08

Removable.

See the drawing

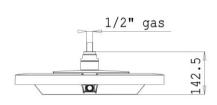
ECO•RAYS S

STU-M / S: Asymmetrical optic for street lighting (urban). S05: Symmetrical optic for urban and street lighting.

LED source efficiency: 158 lm/W @ 525mA, Tj=85°C, 4000K

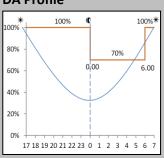
S: Symmetrical optic for urban and street lighting. Colour temperature: 4000K (3000K optional) | CRI ≥ 70 Photobiological safety class: EXEMPT GROUP

SV: Asymmetrical optic for narrow urban streets or highway entrance/exit turns.

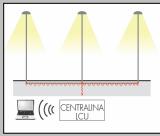


ECO·RAYS

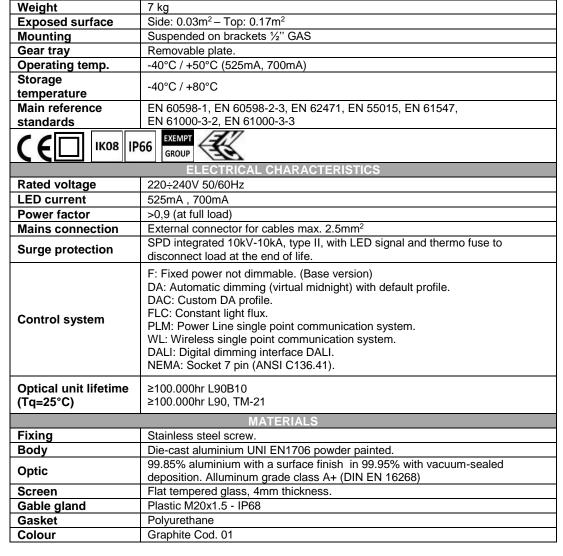
DA Profile

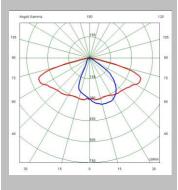


PLM



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STU-M Optic

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





4000K

LUMINAIRE	OPTICS	LED Current (mA)	RATED LUMINAIRE FLUX ¹ (Tq=25°C, 4000K, Im)	RATED LUMINAIRE POWER ¹ (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX ² (Tj=85°C, 4000K, lm)	RATED LED POWER ² (Tj=85°C, W)
ECO RAYS S 0R2C1 4.50-1M	S05 STU-M STU-S SV	525	1750	16	109	1954	12
ECO RAYS S 0R2C1 4.5-2M	S05 STU-M STU-S SV S	525	3580	31,5	114	4120	26
ECO RAYS S 0R2C1 4.7-1M	S05 STU-M STU-S SV	700	2320	22,5	103	2637	18
ECO RAYS S 0R2C1 4.7-2M	S05 STU-M STU-S SV S	700	4510	42	107	5274	35

3000K

LUMINAIRE	OPTICS	LED Current (mA)	RATED LUMINAIRE FLUX ¹ (Tq=25°C, 3000K, lm)	RATED LUMINAIRE POWER ¹ (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, Im/W)	RATED LED FLUX ² (Tj=85°C, 3000K, lm)	RATED LED POWER ² (Tj=85°C, W)
ECO RAYS S 0F2H1 3.50-1M	S05 STU-M STU-S SV	525	1580	15	105	1966	13
ECO RAYS S 0F2H1 3.5-2M	\$05 \$TU-M \$TU-S \$V \$	525	3250	30,5	107	3932	26
ECO RAYS S 0F2H1 3.7-1M	S05 STU-M STU-S SV	700	2130	21,5	99	2489	18
ECO RAYS S 0F2H1 3.7-2M	\$05 STU-M STU-S SV S	700	4150	40	104	4977	36

The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance. In particular, the luminaire efficiency (expressed in Im/W) must be calculated as the ratio between the output luminous flux of the luminaire and the power absorbed by the input power supply unit.

For the sake of completeness the tables also show the data of the nominal flux and power of the used LED.

Note: 1:Rated data obtained in laboratory | 2:Rated data extrapolated from LED manufacturer datasheet.

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

They will have to be confirmed in case of order.

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

LUMINAIRE	OPTICS	LED Current (mA)	INRUSH CURRENT Duration 50%pk (µs)	INRUSH CURRENT Peak (A)	MCB B-Type 10A / 16A / 25A	MCB C-Type 10A / 16A / 25A	SURGE PROTECTION CL.I (CM / DM, kV)	SURGE PROTECTION CL.II (CM / DM, kV)
ECO RAYS S 0R2C1 4.50-1M	S05 STU-M STU-S SV	525	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	9/10
ECO RAYS S 0R2C1 4.5-2M	S05 STU-M STU-S SV S	525	250	30	10 / 17 / 28	17 / 28 / 45	10 / 10	9/10
ECO RAYS S 0R2C1 4.7-1M	S05 STU-M STU-S SV	700	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	9/10
ECO RAYS S 0R2C1 4.7-2M	S05 STU-M STU-S SV S	700	250	30	10 / 17 / 28	17 / 28 / 45	10 / 10	9/10

NOTE 1: The number of luminaires under a three-phase MCB is calculated multiplying by 3 the number in the table. These values are based on data declared by power supply manufacturer and tested on worst case MCB model. An inrush current limiter (i.e. Finder SSR 77.11.x.xxx.8250 (15A) or 77.31.x.xxx.8050 model (30A)) can improve the max.number of luminaire under the MCB

NOTE 2: Power supply manufacturer never did any considerations about 50A or 63A MCB. So we can't declare anything about using of MCB higher than 25A.

