



ECO•RAYS

## ECO•RAYS S

## MAIN CHARACTERISTICS

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>             | Street and urban lighting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Optic</b>                    | <p>STE-M/S: Asymmetrical optic for suburban street lighting.</p> <p>STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting.</p> <p>STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts.</p> <p>SV: Asymmetrical optic for very narrow urban streets or highway entrance/exit turns.</p> <p>S05/S07: Asymmetrical optic for street, urban and green areas lighting.</p> <p>STA/STA1: Asymmetrical optic for wide urban road and cycle-path lighting.</p> <p>S: Symmetrical optic for urban lighting and green areas.</p> <p>Colour temperature: 4000K, 3000K, 2700K, 2200K (others in option)   CRI ≥ 70</p> <p>LOR= 100%, DLOR= 100%, ULOR= 0%</p> <p>Photobiological safety class: EXEMPT GROUP</p> <p>LED source efficiency: 185 lm/W @ 140mA, Tj=85°C, 4000K</p> |
| <b>Insulation class</b>         | II, I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protection degree</b>        | IP66   IK08 total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Dimensions</b>               | See the drawing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Weight</b>                   | max. 7 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Exposed surface</b>          | Side: 0.03m <sup>2</sup> – Top: 0.17m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Mounting</b>                 | Suspended on brackets 1/2" GAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tilt angle</b>               | 0°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>LED modules</b>              | Removable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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> | <p>EN 60598-1, EN 60598-2-3, EN 62471,</p> <p>PD EPRS 003 / EN 62722-2-1 2016</p> <p>EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



## ELECTRICAL CHARACTERISTICS

|                                        |                                                                                                                                                                                                                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rated voltage</b>                   | 220÷240V 50/60Hz                                                                                                                                                                                                                                                                                             |
| <b>Power factor</b>                    | >0,9 (at full load)                                                                                                                                                                                                                                                                                          |
| <b>Mains connection</b>                | <p>Cable H07RN-F nx1.5mm<sup>2</sup></p> <p>Optional: connector M/F IP66/68 for cables max. 2.5mm<sup>2</sup>, Ø max. 12mm</p>                                                                                                                                                                               |
| <b>Surge protection</b>                | <p>Up to 12kV</p> <p>With SPD: CL.II: 10kV / 10kV CM/DM   CL.I: 12kV / 10kV CM/DM</p> <p>Without SPD: CL.II: 10kV / 6kV CM/DM   CL.I: 10kV / 6kV CM/DM</p>                                                                                                                                                   |
| <b>SPD (optional)</b>                  | 12kV-10kA, type 2+3, with LED signal and thermo fuse to disconnect load at the end of life.                                                                                                                                                                                                                  |
| <b>Control system (options)</b>        | <p>F: Fixed power not dimmable.</p> <p>DA: Automatic dimming (virtual midnight) with default profile.</p> <p>DAC: Custom DA profile.</p> <p>FLC: Constant light flux.</p> <p>DALI: Digital dimming interface DALI.</p> <p>NEMA: Socket 7 pin (ANSI C136.41).</p> <p>ZHAGA: Socket 4 pin (ZHAGA Book 18).</p> |
| <b>Optical unit lifetime (Tq=25°C)</b> | <p>&gt;100.000hr L90B10</p> <p>&gt;100.000hr L90, TM-21</p>                                                                                                                                                                                                                                                  |

## MATERIALS

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

## ECO RAYS S 5P5 4000K

| LUMINAIRE                  | OPTIC | RATED<br>LUMINAIRE<br>FLUX*(4000K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(4000K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 5P5 7040.040-1M | S05   | 1190                                      | 8,5                             | 140                             | 1240                             | 6,2                    | 50          |
| ECO RAYS S 5P5 7040.050-1M |       | 1460                                      | 10,2                            | 143                             | 1545                             | 7,8                    | 50          |
| ECO RAYS S 5P5 7040.060-1M |       | 1730                                      | 11,9                            | 145                             | 1847                             | 9,4                    | 50          |
| ECO RAYS S 5P5 7040.070-1M |       | 2000                                      | 13,6                            | 147                             | 2146                             | 11                     | 50          |
| ECO RAYS S 5P5 7040.080-1M |       | 2280                                      | 15,4                            | 148                             | 2441                             | 12,7                   | 50          |
| ECO RAYS S 5P5 7040.090-1M |       | 2550                                      | 17,2                            | 148                             | 2734                             | 14,3                   | 50          |
| ECO RAYS S 5P5 7040.100-1M |       | 2830                                      | 19,1                            | 148                             | 3023                             | 16                     | 50          |
| ECO RAYS S 5P5 7040.120-1M |       | 3370                                      | 22,9                            | 147                             | 3592                             | 19,3                   | 50          |
| ECO RAYS S 5P5 7040.140-1M |       | 3900                                      | 26,8                            | 145                             | 4150                             | 22,7                   | 50          |
| ECO RAYS S 5P5 7040.160-1M |       | 4400                                      | 30,8                            | 142                             | 4694                             | 26,1                   | 50          |
| ECO RAYS S 5P5 7040.180-1M |       | 4870                                      | 34,8                            | 139                             | 5227                             | 29,6                   | 50          |
| ECO RAYS S 5P5 7040.200-1M |       | 5290                                      | 38,8                            | 136                             | 5746                             | 33,1                   | 50          |
| ECO RAYS S 5P5 7040.040-2M |       | 2380                                      | 16                              | 148                             | 2480                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7040.050-2M |       | 2920                                      | 19,5                            | 149                             | 3090                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7040.060-2M |       | 3460                                      | 23                              | 150                             | 3694                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7040.070-2M |       | 4010                                      | 26,6                            | 150                             | 4291                             | 22                     | 50          |
| ECO RAYS S 5P5 7040.080-2M |       | 4560                                      | 30,1                            | 151                             | 4882                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7040.090-2M |       | 5110                                      | 33,8                            | 151                             | 5467                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7040.100-2M |       | 5650                                      | 37,4                            | 151                             | 6046                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7040.120-2M |       | 6720                                      | 44,8                            | 149                             | 7185                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7040.140-2M |       | 7760                                      | 52,3                            | 148                             | 8299                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7040.160-2M | STE-M | 8750                                      | 59,9                            | 146                             | 9388                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7040.180-2M |       | 9670                                      | 67,7                            | 142                             | 10453                            | 59,1                   | 50          |
| ECO RAYS S 5P5 7040.200-2M |       | 10510                                     | 75,6                            | 139                             | 11493                            | 66,1                   | 50          |
| ECO RAYS S 5P5 7040.040-1M |       | 1220                                      | 8,5                             | 143                             | 1240                             | 6,2                    | 50          |
| ECO RAYS S 5P5 7040.050-1M |       | 1490                                      | 10,2                            | 146                             | 1545                             | 7,8                    | 50          |
| ECO RAYS S 5P5 7040.060-1M |       | 1770                                      | 11,9                            | 148                             | 1847                             | 9,4                    | 50          |
| ECO RAYS S 5P5 7040.070-1M |       | 2040                                      | 13,6                            | 149                             | 2146                             | 11                     | 50          |
| ECO RAYS S 5P5 7040.080-1M |       | 2330                                      | 15,4                            | 151                             | 2441                             | 12,7                   | 50          |
| ECO RAYS S 5P5 7040.090-1M |       | 2610                                      | 17,2                            | 151                             | 2734                             | 14,3                   | 50          |
| ECO RAYS S 5P5 7040.100-1M |       | 2890                                      | 19,1                            | 151                             | 3023                             | 16                     | 50          |
| ECO RAYS S 5P5 7040.120-1M |       | 3450                                      | 22,9                            | 150                             | 3592                             | 19,3                   | 50          |
| ECO RAYS S 5P5 7040.140-1M |       | 3990                                      | 26,8                            | 148                             | 4150                             | 22,7                   | 50          |
| ECO RAYS S 5P5 7040.160-1M |       | 4500                                      | 30,8                            | 146                             | 4694                             | 26,1                   | 50          |
| ECO RAYS S 5P5 7040.180-1M |       | 4980                                      | 34,8                            | 143                             | 5227                             | 29,6                   | 50          |
| ECO RAYS S 5P5 7040.200-1M |       | 5410                                      | 38,8                            | 139                             | 5746                             | 33,1                   | 50          |
| ECO RAYS S 5P5 7040.040-2M |       | 2430                                      | 16                              | 151                             | 2480                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7040.050-2M |       | 2980                                      | 19,5                            | 152                             | 3090                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7040.060-2M |       | 3540                                      | 23                              | 153                             | 3694                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7040.070-2M |       | 4100                                      | 26,6                            | 154                             | 4291                             | 22                     | 50          |
| ECO RAYS S 5P5 7040.080-2M |       | 4660                                      | 30,1                            | 154                             | 4882                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7040.090-2M | S     | 5220                                      | 33,8                            | 154                             | 5467                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7040.100-2M |       | 5780                                      | 37,4                            | 154                             | 6046                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7040.120-2M |       | 6880                                      | 44,8                            | 153                             | 7185                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7040.140-2M |       | 7940                                      | 52,3                            | 151                             | 8299                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7040.160-2M |       | 8950                                      | 59,9                            | 149                             | 9388                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7040.180-2M |       | 9890                                      | 67,7                            | 146                             | 10453                            | 59,1                   | 50          |
| ECO RAYS S 5P5 7040.200-2M |       | 10750                                     | 75,6                            | 142                             | 11493                            | 66,1                   | 50          |
| ECO RAYS S 5P5 7040.040-2M |       | 2380                                      | 16                              | 148                             | 2480                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7040.050-2M |       | 2920                                      | 19,5                            | 149                             | 3090                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7040.060-2M |       | 3460                                      | 23                              | 150                             | 3694                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7040.070-2M |       | 4010                                      | 26,6                            | 150                             | 4291                             | 22                     | 50          |
| ECO RAYS S 5P5 7040.080-2M |       | 4560                                      | 30,1                            | 151                             | 4882                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7040.090-2M |       | 5110                                      | 33,8                            | 151                             | 5467                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7040.100-2M |       | 5650                                      | 37,4                            | 151                             | 6046                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7040.120-2M |       | 6720                                      | 44,8                            | 149                             | 7185                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7040.140-2M |       | 7760                                      | 52,3                            | 148                             | 8299                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7040.160-2M |       | 8750                                      | 59,9                            | 146                             | 9388                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7040.180-2M |       | 9670                                      | 67,7                            | 142                             | 10453                            | 59,1                   | 50          |
| ECO RAYS S 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/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 S 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 S 5P5 7030.040-1M | S05   | 1120                             | 8,5                       | 131                       | 1166                       | 6,2                 | 50          |
| ECO RAYS S 5P5 7030.050-1M |       | 1370                             | 10,2                      | 134                       | 1452                       | 7,8                 | 50          |
| ECO RAYS S 5P5 7030.060-1M |       | 1630                             | 11,9                      | 136                       | 1736                       | 9,4                 | 50          |
| ECO RAYS S 5P5 7030.070-1M |       | 1880                             | 13,6                      | 138                       | 2017                       | 11                  | 50          |
| ECO RAYS S 5P5 7030.080-1M |       | 2140                             | 15,4                      | 138                       | 2295                       | 12,7                | 50          |
| ECO RAYS S 5P5 7030.090-1M |       | 2400                             | 17,2                      | 139                       | 2570                       | 14,3                | 50          |
| ECO RAYS S 5P5 7030.100-1M |       | 2660                             | 19,1                      | 139                       | 2842                       | 16                  | 50          |
| ECO RAYS S 5P5 7030.120-1M |       | 3170                             | 22,9                      | 138                       | 3377                       | 19,3                | 50          |
| ECO RAYS S 5P5 7030.140-1M |       | 3670                             | 26,8                      | 136                       | 3901                       | 22,7                | 50          |
| ECO RAYS S 5P5 7030.160-1M |       | 4140                             | 30,8                      | 134                       | 4413                       | 26,1                | 50          |
| ECO RAYS S 5P5 7030.180-1M |       | 4580                             | 34,8                      | 131                       | 4913                       | 29,6                | 50          |
| ECO RAYS S 5P5 7030.200-1M |       | 4970                             | 38,8                      | 128                       | 5402                       | 33,1                | 50          |
| ECO RAYS S 5P5 7030.040-2M |       | 2240                             | 16                        | 140                       | 2332                       | 12,4                | 50          |
| ECO RAYS S 5P5 7030.050-2M |       | 2740                             | 19,5                      | 140                       | 2905                       | 15,6                | 50          |
| ECO RAYS S 5P5 7030.060-2M |       | 3260                             | 23                        | 141                       | 3472                       | 18,8                | 50          |
| ECO RAYS S 5P5 7030.070-2M |       | 3770                             | 26,6                      | 141                       | 4034                       | 22                  | 50          |
| ECO RAYS S 5P5 7030.080-2M |       | 4280                             | 30,1                      | 142                       | 4589                       | 25,3                | 50          |
| ECO RAYS S 5P5 7030.090-2M |       | 4800                             | 33,8                      | 142                       | 5139                       | 28,6                | 50          |
| ECO RAYS S 5P5 7030.100-2M |       | 5310                             | 37,4                      | 141                       | 5683                       | 31,9                | 50          |
| ECO RAYS S 5P5 7030.120-2M |       | 6320                             | 44,8                      | 141                       | 6754                       | 38,6                | 50          |
| ECO RAYS S 5P5 7030.140-2M |       | 7290                             | 52,3                      | 139                       | 7801                       | 45,4                | 50          |
| ECO RAYS S 5P5 7030.160-2M | STE-M | 8220                             | 59,9                      | 137                       | 8825                       | 52,2                | 50          |
| ECO RAYS S 5P5 7030.180-2M |       | 9090                             | 67,7                      | 134                       | 9826                       | 59,1                | 50          |
| ECO RAYS S 5P5 7030.200-2M |       | 9880                             | 75,6                      | 130                       | 10803                      | 66,1                | 50          |
| ECO RAYS S 5P5 7030.040-1M |       | 1150                             | 8,5                       | 135                       | 1166                       | 6,2                 | 50          |
| ECO RAYS S 5P5 7030.050-1M |       | 1400                             | 10,2                      | 137                       | 1452                       | 7,8                 | 50          |
| ECO RAYS S 5P5 7030.060-1M |       | 1660                             | 11,9                      | 139                       | 1736                       | 9,4                 | 50          |
| ECO RAYS S 5P5 7030.070-1M |       | 1920                             | 13,6                      | 141                       | 2017                       | 11                  | 50          |
| ECO RAYS S 5P5 7030.080-1M |       | 2190                             | 15,4                      | 142                       | 2295                       | 12,7                | 50          |
| ECO RAYS S 5P5 7030.090-1M |       | 2450                             | 17,2                      | 142                       | 2570                       | 14,3                | 50          |
| ECO RAYS S 5P5 7030.100-1M |       | 2720                             | 19,1                      | 142                       | 2842                       | 16                  | 50          |
| ECO RAYS S 5P5 7030.120-1M |       | 3240                             | 22,9                      | 141                       | 3377                       | 19,3                | 50          |
| ECO RAYS S 5P5 7030.140-1M |       | 3750                             | 26,8                      | 139                       | 3901                       | 22,7                | 50          |
| ECO RAYS S 5P5 7030.160-1M |       | 4230                             | 30,8                      | 137                       | 4413                       | 26,1                | 50          |
| ECO RAYS S 5P5 7030.180-1M |       | 4680                             | 34,8                      | 134                       | 4913                       | 29,6                | 50          |
| ECO RAYS S 5P5 7030.200-1M |       | 5090                             | 38,8                      | 131                       | 5402                       | 33,1                | 50          |
| ECO RAYS S 5P5 7030.040-2M |       | 2280                             | 16                        | 142                       | 2332                       | 12,4                | 50          |
| ECO RAYS S 5P5 7030.050-2M |       | 2800                             | 19,5                      | 143                       | 2905                       | 15,6                | 50          |
| ECO RAYS S 5P5 7030.060-2M |       | 3330                             | 23                        | 144                       | 3472                       | 18,8                | 50          |
| ECO RAYS S 5P5 7030.070-2M |       | 3850                             | 26,6                      | 144                       | 4034                       | 22                  | 50          |
| ECO RAYS S 5P5 7030.080-2M |       | 4380                             | 30,1                      | 145                       | 4589                       | 25,3                | 50          |
| ECO RAYS S 5P5 7030.090-2M | S     | 4910                             | 33,8                      | 145                       | 5139                       | 28,6                | 50          |
| ECO RAYS S 5P5 7030.100-2M |       | 5430                             | 37,4                      | 145                       | 5683                       | 31,9                | 50          |
| ECO RAYS S 5P5 7030.120-2M |       | 6470                             | 44,8                      | 144                       | 6754                       | 38,6                | 50          |
| ECO RAYS S 5P5 7030.140-2M |       | 7460                             | 52,3                      | 142                       | 7801                       | 45,4                | 50          |
| ECO RAYS S 5P5 7030.160-2M |       | 8410                             | 59,9                      | 140                       | 8825                       | 52,2                | 50          |
| ECO RAYS S 5P5 7030.180-2M |       | 9300                             | 67,7                      | 137                       | 9826                       | 59,1                | 50          |
| ECO RAYS S 5P5 7030.200-2M |       | 10110                            | 75,6                      | 133                       | 10803                      | 66,1                | 50          |
| ECO RAYS S 5P5 7030.040-2M |       | 2240                             | 16                        | 140                       | 2332                       | 12,4                | 50          |
| ECO RAYS S 5P5 7030.050-2M |       | 2740                             | 19,5                      | 140                       | 2905                       | 15,6                | 50          |
| ECO RAYS S 5P5 7030.060-2M |       | 3260                             | 23                        | 141                       | 3472                       | 18,8                | 50          |
| ECO RAYS S 5P5 7030.070-2M |       | 3770                             | 26,6                      | 141                       | 4034                       | 22                  | 50          |
| ECO RAYS S 5P5 7030.080-2M |       | 4280                             | 30,1                      | 142                       | 4589                       | 25,3                | 50          |
| ECO RAYS S 5P5 7030.090-2M |       | 4800                             | 33,8                      | 142                       | 5139                       | 28,6                | 50          |
| ECO RAYS S 5P5 7030.100-2M |       | 5310                             | 37,4                      | 141                       | 5683                       | 31,9                | 50          |
| ECO RAYS S 5P5 7030.120-2M |       | 6320                             | 44,8                      | 141                       | 6754                       | 38,6                | 50          |
| ECO RAYS S 5P5 7030.140-2M |       | 7290                             | 52,3                      | 139                       | 7801                       | 45,4                | 50          |
| ECO RAYS S 5P5 7030.160-2M |       | 8220                             | 59,9                      | 137                       | 8825                       | 52,2                | 50          |
| ECO RAYS S 5P5 7030.180-2M |       | 9090                             | 67,7                      | 134                       | 9826                       | 59,1                | 50          |
| ECO RAYS S 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/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 S 5P5 2700K

| LUMINAIRE                  | OPTIC | RATED<br>LUMINAIRE<br>FLUX*(2700K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(2700K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 5P5 7027.040-1M | S05   | 1070                                      | 8,5                             | 125                             | 1116                             | 6,2                    | 50          |
| ECO RAYS S 5P5 7027.050-1M |       | 1310                                      | 10,2                            | 128                             | 1391                             | 7,8                    | 50          |
| ECO RAYS S 5P5 7027.060-1M |       | 1560                                      | 11,9                            | 131                             | 1662                             | 9,4                    | 50          |
| ECO RAYS S 5P5 7027.070-1M |       | 1800                                      | 13,6                            | 132                             | 1931                             | 11                     | 50          |
| ECO RAYS S 5P5 7027.080-1M |       | 2050                                      | 15,4                            | 133                             | 2197                             | 12,7                   | 50          |
| ECO RAYS S 5P5 7027.090-1M |       | 2300                                      | 17,2                            | 133                             | 2460                             | 14,3                   | 50          |
| ECO RAYS S 5P5 7027.100-1M |       | 2550                                      | 19,1                            | 133                             | 2721                             | 16                     | 50          |
| ECO RAYS S 5P5 7027.120-1M |       | 3040                                      | 22,9                            | 132                             | 3233                             | 19,3                   | 50          |
| ECO RAYS S 5P5 7027.140-1M |       | 3510                                      | 26,8                            | 130                             | 3735                             | 22,7                   | 50          |
| ECO RAYS S 5P5 7027.160-1M |       | 3960                                      | 30,8                            | 128                             | 4225                             | 26,1                   | 50          |
| ECO RAYS S 5P5 7027.180-1M |       | 4380                                      | 34,8                            | 125                             | 4704                             | 29,6                   | 50          |
| ECO RAYS S 5P5 7027.200-1M |       | 4760                                      | 38,8                            | 122                             | 5172                             | 33,1                   | 50          |
| ECO RAYS S 5P5 7027.040-2M |       | 2140                                      | 16                              | 133                             | 2232                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7027.050-2M |       | 2630                                      | 19,5                            | 134                             | 2781                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7027.060-2M |       | 3120                                      | 23                              | 135                             | 3324                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7027.070-2M |       | 3610                                      | 26,6                            | 135                             | 3862                             | 22                     | 50          |
| ECO RAYS S 5P5 7027.080-2M |       | 4100                                      | 30,1                            | 136                             | 4394                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7027.090-2M |       | 4600                                      | 33,8                            | 136                             | 4921                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7027.100-2M |       | 5090                                      | 37,4                            | 136                             | 5441                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7027.120-2M |       | 6050                                      | 44,8                            | 135                             | 6466                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7027.140-2M |       | 6980                                      | 52,3                            | 133                             | 7469                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7027.160-2M | STE-M | 7870                                      | 59,9                            | 131                             | 8450                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7027.180-2M |       | 8700                                      | 67,7                            | 128                             | 9408                             | 59,1                   | 50          |
| ECO RAYS S 5P5 7027.200-2M |       | 9460                                      | 75,6                            | 125                             | 10344                            | 66,1                   | 50          |
| ECO RAYS S 5P5 7027.040-1M |       | 1100                                      | 8,5                             | 129                             | 1116                             | 6,2                    | 50          |
| ECO RAYS S 5P5 7027.050-1M |       | 1340                                      | 10,2                            | 131                             | 1391                             | 7,8                    | 50          |
| ECO RAYS S 5P5 7027.060-1M |       | 1590                                      | 11,9                            | 133                             | 1662                             | 9,4                    | 50          |
| ECO RAYS S 5P5 7027.070-1M |       | 1840                                      | 13,6                            | 135                             | 1931                             | 11                     | 50          |
| ECO RAYS S 5P5 7027.080-1M |       | 2090                                      | 15,4                            | 135                             | 2197                             | 12,7                   | 50          |
| ECO RAYS S 5P5 7027.090-1M |       | 2350                                      | 17,2                            | 136                             | 2460                             | 14,3                   | 50          |
| ECO RAYS S 5P5 7027.100-1M |       | 2600                                      | 19,1                            | 136                             | 2721                             | 16                     | 50          |
| ECO RAYS S 5P5 7027.120-1M |       | 3100                                      | 22,9                            | 135                             | 3233                             | 19,3                   | 50          |
| ECO RAYS S 5P5 7027.140-1M |       | 3590                                      | 26,8                            | 133                             | 3735                             | 22,7                   | 50          |
| ECO RAYS S 5P5 7027.160-1M |       | 4050                                      | 30,8                            | 131                             | 4225                             | 26,1                   | 50          |
| ECO RAYS S 5P5 7027.180-1M |       | 4480                                      | 34,8                            | 128                             | 4704                             | 29,6                   | 50          |
| ECO RAYS S 5P5 7027.200-1M |       | 4870                                      | 38,8                            | 125                             | 5172                             | 33,1                   | 50          |
| ECO RAYS S 5P5 7027.040-2M |       | 2190                                      | 16                              | 136                             | 2232                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7027.050-2M |       | 2680                                      | 19,5                            | 137                             | 2781                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7027.060-2M |       | 3190                                      | 23                              | 138                             | 3324                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7027.070-2M |       | 3690                                      | 26,6                            | 138                             | 3862                             | 22                     | 50          |
| ECO RAYS S 5P5 7027.080-2M |       | 4200                                      | 30,1                            | 139                             | 4394                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7027.090-2M | S     | 4700                                      | 33,8                            | 139                             | 4921                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7027.100-2M |       | 5200                                      | 37,4                            | 139                             | 5441                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7027.120-2M |       | 6190                                      | 44,8                            | 138                             | 6466                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7027.140-2M |       | 7150                                      | 52,3                            | 136                             | 7469                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7027.160-2M |       | 8060                                      | 59,9                            | 134                             | 8450                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7027.180-2M |       | 8900                                      | 67,7                            | 131                             | 9408                             | 59,1                   | 50          |
| ECO RAYS S 5P5 7027.200-2M |       | 9680                                      | 75,6                            | 128                             | 10344                            | 66,1                   | 50          |
| ECO RAYS S 5P5 7027.040-2M |       | 2140                                      | 16                              | 133                             | 2232                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7027.050-2M |       | 2630                                      | 19,5                            | 134                             | 2781                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7027.060-2M |       | 3120                                      | 23                              | 135                             | 3324                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7027.070-2M |       | 3610                                      | 26,6                            | 135                             | 3862                             | 22                     | 50          |
| ECO RAYS S 5P5 7027.080-2M |       | 4100                                      | 30,1                            | 136                             | 4394                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7027.090-2M |       | 4600                                      | 33,8                            | 136                             | 4921                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7027.100-2M |       | 5090                                      | 37,4                            | 136                             | 5441                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7027.120-2M |       | 6050                                      | 44,8                            | 135                             | 6466                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7027.140-2M |       | 6980                                      | 52,3                            | 133                             | 7469                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7027.160-2M |       | 7870                                      | 59,9                            | 131                             | 8450                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7027.180-2M |       | 8700                                      | 67,7                            | 128                             | 9408                             | 59,1                   | 50          |
| ECO RAYS S 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/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 S 5P5 2200K

| LUMINAIRE                  | OPTIC | RATED<br>LUMINAIRE<br>FLUX*(2200K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(2200K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 5P5 7022.040-1M |       | 960                                       | 8,5                             | 112                             | 1005                             | 6,2                    | 50          |
| ECO RAYS S 5P5 7022.050-1M |       | 1180                                      | 10,2                            | 115                             | 1251                             | 7,8                    | 50          |
| ECO RAYS S 5P5 7022.060-1M |       | 1400                                      | 11,9                            | 117                             | 1496                             | 9,4                    | 50          |
| ECO RAYS S 5P5 7022.070-1M |       | 1620                                      | 13,6                            | 119                             | 1738                             | 11                     | 50          |
| ECO RAYS S 5P5 7022.080-1M |       | 1850                                      | 15,4                            | 120                             | 1977                             | 12,7                   | 50          |
| ECO RAYS S 5P5 7022.090-1M |       | 2070                                      | 17,2                            | 120                             | 2214                             | 14,3                   | 50          |
| ECO RAYS S 5P5 7022.100-1M |       | 2290                                      | 19,1                            | 119                             | 2449                             | 16                     | 50          |
| ECO RAYS S 5P5 7022.120-1M |       | 2730                                      | 22,9                            | 119                             | 2910                             | 19,3                   | 50          |
| ECO RAYS S 5P5 7022.140-1M |       | 3160                                      | 26,8                            | 117                             | 3361                             | 22,7                   | 50          |
| ECO RAYS S 5P5 7022.160-1M | S05   | 3560                                      | 30,8                            | 115                             | 3802                             | 26,1                   | 50          |
| ECO RAYS S 5P5 7022.180-1M | S07   | 3940                                      | 34,8                            | 113                             | 4233                             | 29,6                   | 50          |
| ECO RAYS S 5P5 7022.200-1M | STA   | 4280                                      | 38,8                            | 110                             | 4655                             | 33,1                   | 50          |
| ECO RAYS S 5P5 7022.040-2M | STA1  | 1930                                      | 16                              | 120                             | 2009                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7022.050-2M | STE-S | 2360                                      | 19,5                            | 121                             | 2503                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7022.060-2M | STU-S | 2810                                      | 23                              | 122                             | 2992                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7022.070-2M |       | 3250                                      | 26,6                            | 122                             | 3476                             | 22                     | 50          |
| ECO RAYS S 5P5 7022.080-2M |       | 3690                                      | 30,1                            | 122                             | 3955                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7022.090-2M |       | 4140                                      | 33,8                            | 122                             | 4428                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7022.100-2M |       | 4580                                      | 37,4                            | 122                             | 4897                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7022.120-2M |       | 5450                                      | 44,8                            | 121                             | 5820                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7022.140-2M |       | 6290                                      | 52,3                            | 120                             | 6722                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7022.160-2M |       | 7090                                      | 59,9                            | 118                             | 7605                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7022.180-2M |       | 7830                                      | 67,7                            | 115                             | 8467                             | 59,1                   | 50          |
| ECO RAYS S 5P5 7022.200-2M |       | 8510                                      | 75,6                            | 112                             | 9309                             | 66,1                   | 50          |
| ECO RAYS S 5P5 7022.040-1M |       | 990                                       | 8,5                             | 116                             | 1005                             | 6,2                    | 50          |
| ECO RAYS S 5P5 7022.050-1M |       | 1210                                      | 10,2                            | 118                             | 1251                             | 7,8                    | 50          |
| ECO RAYS S 5P5 7022.060-1M |       | 1430                                      | 11,9                            | 120                             | 1496                             | 9,4                    | 50          |
| ECO RAYS S 5P5 7022.070-1M |       | 1660                                      | 13,6                            | 122                             | 1738                             | 11                     | 50          |
| ECO RAYS S 5P5 7022.080-1M |       | 1880                                      | 15,4                            | 122                             | 1977                             | 12,7                   | 50          |
| ECO RAYS S 5P5 7022.090-1M |       | 2110                                      | 17,2                            | 122                             | 2214                             | 14,3                   | 50          |
| ECO RAYS S 5P5 7022.100-1M |       | 2340                                      | 19,1                            | 122                             | 2449                             | 16                     | 50          |
| ECO RAYS S 5P5 7022.120-1M |       | 2790                                      | 22,9                            | 121                             | 2910                             | 19,3                   | 50          |
| ECO RAYS S 5P5 7022.140-1M |       | 3230                                      | 26,8                            | 120                             | 3361                             | 22,7                   | 50          |
| ECO RAYS S 5P5 7022.160-1M |       | 3650                                      | 30,8                            | 118                             | 3802                             | 26,1                   | 50          |
| ECO RAYS S 5P5 7022.180-1M | STE-M | 4030                                      | 34,8                            | 115                             | 4233                             | 29,6                   | 50          |
| ECO RAYS S 5P5 7022.200-1M | STU-M | 4380                                      | 38,8                            | 112                             | 4655                             | 33,1                   | 50          |
| ECO RAYS S 5P5 7022.040-2M | SV    | 1970                                      | 16                              | 123                             | 2009                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7022.050-2M | STW   | 2420                                      | 19,5                            | 124                             | 2503                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7022.060-2M |       | 2870                                      | 23                              | 124                             | 2992                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7022.070-2M |       | 3320                                      | 26,6                            | 124                             | 3476                             | 22                     | 50          |
| ECO RAYS S 5P5 7022.080-2M |       | 3780                                      | 30,1                            | 125                             | 3955                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7022.090-2M |       | 4230                                      | 33,8                            | 125                             | 4428                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7022.100-2M |       | 4680                                      | 37,4                            | 125                             | 4897                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7022.120-2M |       | 5570                                      | 44,8                            | 124                             | 5820                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7022.140-2M |       | 6430                                      | 52,3                            | 122                             | 6722                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7022.160-2M |       | 7250                                      | 59,9                            | 121                             | 7605                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7022.180-2M |       | 8010                                      | 67,7                            | 118                             | 8467                             | 59,1                   | 50          |
| ECO RAYS S 5P5 7022.200-2M |       | 8710                                      | 75,6                            | 115                             | 9309                             | 66,1                   | 50          |
| ECO RAYS S 5P5 7022.040-2M |       | 1930                                      | 16                              | 120                             | 2009                             | 12,4                   | 50          |
| ECO RAYS S 5P5 7022.050-2M |       | 2360                                      | 19,5                            | 121                             | 2503                             | 15,6                   | 50          |
| ECO RAYS S 5P5 7022.060-2M |       | 2810                                      | 23                              | 122                             | 2992                             | 18,8                   | 50          |
| ECO RAYS S 5P5 7022.070-2M |       | 3250                                      | 26,6                            | 122                             | 3476                             | 22                     | 50          |
| ECO RAYS S 5P5 7022.080-2M |       | 3690                                      | 30,1                            | 122                             | 3955                             | 25,3                   | 50          |
| ECO RAYS S 5P5 7022.090-2M |       | 4140                                      | 33,8                            | 122                             | 4428                             | 28,6                   | 50          |
| ECO RAYS S 5P5 7022.100-2M | S     | 4580                                      | 37,4                            | 122                             | 4897                             | 31,9                   | 50          |
| ECO RAYS S 5P5 7022.120-2M |       | 5450                                      | 44,8                            | 121                             | 5820                             | 38,6                   | 50          |
| ECO RAYS S 5P5 7022.140-2M |       | 6290                                      | 52,3                            | 120                             | 6722                             | 45,4                   | 50          |
| ECO RAYS S 5P5 7022.160-2M |       | 7090                                      | 59,9                            | 118                             | 7605                             | 52,2                   | 50          |
| ECO RAYS S 5P5 7022.180-2M |       | 7830                                      | 67,7                            | 115                             | 8467                             | 59,1                   | 50          |
| ECO RAYS S 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 S 4P4 4000K

| LUMINAIRE                  | OPTIC                       | RATED<br>LUMINAIRE<br>FLUX*(4000K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(4000K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-----------------------------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 4P4 7040.050-1M | S05<br>S07<br>STE-S         | 1160                                      | 8,3                             | 139                             | 1236                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7040.060-1M |                             | 1380                                      | 9,6                             | 143                             | 1477                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7040.070-1M |                             | 1600                                      | 11                              | 145                             | 1716                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7040.080-1M |                             | 1820                                      | 12,4                            | 146                             | 1953                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7040.090-1M |                             | 2040                                      | 13,8                            | 147                             | 2187                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7040.100-1M |                             | 2260                                      | 15,3                            | 147                             | 2418                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7040.120-1M |                             | 2700                                      | 18,4                            | 146                             | 2874                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7040.140-1M |                             | 3120                                      | 21,5                            | 145                             | 3320                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7040.160-1M |                             | 3520                                      | 24,7                            | 142                             | 3755                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7040.180-1M |                             | 3890                                      | 27,9                            | 139                             | 4181                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7040.200-1M |                             | 4230                                      | 31                              | 136                             | 4597                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7040.050-2M |                             | 2330                                      | 16                              | 145                             | 2472                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7040.060-2M |                             | 2770                                      | 18,7                            | 148                             | 2955                             | 15                     | 50          |
| ECO RAYS S 4P4 7040.070-2M |                             | 3210                                      | 21,5                            | 149                             | 3433                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7040.080-2M |                             | 3650                                      | 24,3                            | 150                             | 3906                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7040.090-2M |                             | 4080                                      | 27,1                            | 150                             | 4374                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7040.100-2M |                             | 4520                                      | 30                              | 150                             | 4837                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7040.120-2M |                             | 5380                                      | 35,9                            | 149                             | 5748                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7040.140-2M |                             | 6210                                      | 41,9                            | 148                             | 6639                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7040.160-2M |                             | 7000                                      | 48                              | 145                             | 7511                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7040.180-2M |                             | 7740                                      | 54,2                            | 142                             | 8362                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7040.200-2M |                             | 8410                                      | 60,5                            | 139                             | 9194                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7040.050-1M | STA<br>STA1<br>STU-S        | 1180                                      | 8,3                             | 142                             | 1236                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7040.060-1M |                             | 1400                                      | 9,6                             | 145                             | 1477                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7040.070-1M |                             | 1620                                      | 11                              | 147                             | 1716                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7040.080-1M |                             | 1840                                      | 12,4                            | 148                             | 1953                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7040.090-1M |                             | 2070                                      | 13,8                            | 150                             | 2187                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7040.100-1M |                             | 2290                                      | 15,3                            | 149                             | 2418                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7040.120-1M |                             | 2730                                      | 18,4                            | 148                             | 2874                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7040.140-1M |                             | 3160                                      | 21,5                            | 146                             | 3320                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7040.160-1M |                             | 3570                                      | 24,7                            | 144                             | 3755                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7040.180-1M |                             | 3940                                      | 27,9                            | 141                             | 4181                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7040.200-1M |                             | 4280                                      | 31                              | 138                             | 4597                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7040.050-2M |                             | 2360                                      | 16                              | 147                             | 2472                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7040.060-2M |                             | 2800                                      | 18,7                            | 149                             | 2955                             | 15                     | 50          |
| ECO RAYS S 4P4 7040.070-2M |                             | 3240                                      | 21,5                            | 150                             | 3433                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7040.080-2M |                             | 3690                                      | 24,3                            | 151                             | 3906                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7040.090-2M |                             | 4130                                      | 27,1                            | 152                             | 4374                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7040.100-2M |                             | 4570                                      | 30                              | 152                             | 4837                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7040.120-2M |                             | 5440                                      | 35,9                            | 151                             | 5748                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7040.140-2M |                             | 6280                                      | 41,9                            | 149                             | 6639                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7040.160-2M |                             | 7080                                      | 48                              | 147                             | 7511                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7040.180-2M |                             | 7820                                      | 54,2                            | 144                             | 8362                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7040.200-2M |                             | 8500                                      | 60,5                            | 140                             | 9194                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7040.050-1M | STE-M<br>STU-M<br>SV<br>STW | 1200                                      | 8,3                             | 144                             | 1236                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7040.060-1M |                             | 1430                                      | 9,6                             | 148                             | 1477                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7040.070-1M |                             | 1650                                      | 11                              | 150                             | 1716                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7040.080-1M |                             | 1880                                      | 12,4                            | 151                             | 1953                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7040.090-1M |                             | 2110                                      | 13,8                            | 152                             | 2187                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7040.100-1M |                             | 2340                                      | 15,3                            | 152                             | 2418                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7040.120-1M |                             | 2790                                      | 18,4                            | 151                             | 2874                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7040.140-1M |                             | 3230                                      | 21,5                            | 150                             | 3320                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7040.160-1M |                             | 3650                                      | 24,7                            | 147                             | 3755                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7040.180-1M |                             | 4030                                      | 27,9                            | 144                             | 4181                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7040.200-1M |                             | 4380                                      | 31                              | 141                             | 4597                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7040.050-2M |                             | 2420                                      | 16                              | 151                             | 2472                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7040.060-2M |                             | 2870                                      | 18,7                            | 153                             | 2955                             | 15                     | 50          |
| ECO RAYS S 4P4 7040.070-2M |                             | 3320                                      | 21,5                            | 154                             | 3433                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7040.080-2M |                             | 3780                                      | 24,3                            | 155                             | 3906                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7040.090-2M |                             | 4230                                      | 27,1                            | 156                             | 4374                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7040.100-2M |                             | 4680                                      | 30                              | 156                             | 4837                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7040.120-2M |                             | 5560                                      | 35,9                            | 154                             | 5748                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7040.140-2M |                             | 6420                                      | 41,9                            | 153                             | 6639                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7040.160-2M |                             | 7240                                      | 48                              | 150                             | 7511                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7040.180-2M |                             | 8000                                      | 54,2                            | 147                             | 8362                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7040.200-2M |                             | 8700                                      | 60,5                            | 143                             | 9194                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7040.050-2M | S                           | 2330                                      | 16                              | 145                             | 2472                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7040.060-2M |                             | 2770                                      | 18,7                            | 148                             | 2955                             | 15                     | 50          |
| ECO RAYS S 4P4 7040.070-2M |                             | 3210                                      | 21,5                            | 149                             | 3433                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7040.080-2M |                             | 3650                                      | 24,3                            | 150                             | 3906                             | 20,3                   | 50          |

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| LUMINAIRE                  | OPTIC | RATED<br>LUMINAIRE<br>FLUX*(4000K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(4000K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 4P4 7040.090-2M |       | 4080                                      | 27,1                            | 150                             | 4374                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7040.100-2M |       | 4520                                      | 30                              | 150                             | 4837                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7040.120-2M |       | 5380                                      | 35,9                            | 149                             | 5748                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7040.140-2M |       | 6210                                      | 41,9                            | 148                             | 6639                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7040.160-2M |       | 7000                                      | 48                              | 145                             | 7511                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7040.180-2M |       | 7740                                      | 54,2                            | 142                             | 8362                             | 47,3                   | 50          |
| ECO RAYS S 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/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 S 4P4 3000K

| LUMINAIRE                  | OPTIC                       | RATED<br>LUMINAIRE<br>FLUX*(3000K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(3000K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-----------------------------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 4P4 7030.050-1M | S05<br>S07<br>STE-S         | 1090                                      | 8,3                             | 131                             | 1162                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7030.060-1M |                             | 1300                                      | 9,6                             | 135                             | 1389                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7030.070-1M |                             | 1500                                      | 11                              | 136                             | 1613                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7030.080-1M |                             | 1710                                      | 12,4                            | 137                             | 1836                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7030.090-1M |                             | 1920                                      | 13,8                            | 139                             | 2056                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7030.100-1M |                             | 2120                                      | 15,3                            | 138                             | 2273                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7030.120-1M |                             | 2530                                      | 18,4                            | 137                             | 2702                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7030.140-1M |                             | 2930                                      | 21,5                            | 136                             | 3120                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7030.160-1M |                             | 3310                                      | 24,7                            | 134                             | 3530                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7030.180-1M |                             | 3660                                      | 27,9                            | 131                             | 3930                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7030.200-1M |                             | 3980                                      | 31                              | 128                             | 4321                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7030.050-2M |                             | 2190                                      | 16                              | 136                             | 2324                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7030.060-2M |                             | 2600                                      | 18,7                            | 139                             | 2778                             | 15                     | 50          |
| ECO RAYS S 4P4 7030.070-2M |                             | 3010                                      | 21,5                            | 140                             | 3227                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7030.080-2M |                             | 3430                                      | 24,3                            | 141                             | 3671                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7030.090-2M |                             | 3840                                      | 27,1                            | 141                             | 4111                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7030.100-2M |                             | 4250                                      | 30                              | 141                             | 4547                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7030.120-2M |                             | 5060                                      | 35,9                            | 140                             | 5403                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7030.140-2M |                             | 5840                                      | 41,9                            | 139                             | 6241                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7030.160-2M |                             | 6580                                      | 48                              | 137                             | 7060                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7030.180-2M |                             | 7270                                      | 54,2                            | 134                             | 7861                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7030.200-2M |                             | 7910                                      | 60,5                            | 130                             | 8643                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7030.050-1M | STA<br>STA1<br>STU-S        | 1110                                      | 8,3                             | 133                             | 1162                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7030.060-1M |                             | 1310                                      | 9,6                             | 136                             | 1389                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7030.070-1M |                             | 1520                                      | 11                              | 138                             | 1613                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7030.080-1M |                             | 1730                                      | 12,4                            | 139                             | 1836                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7030.090-1M |                             | 1940                                      | 13,8                            | 140                             | 2056                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7030.100-1M |                             | 2150                                      | 15,3                            | 140                             | 2273                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7030.120-1M |                             | 2570                                      | 18,4                            | 139                             | 2702                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7030.140-1M |                             | 2970                                      | 21,5                            | 138                             | 3120                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7030.160-1M |                             | 3350                                      | 24,7                            | 135                             | 3530                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7030.180-1M |                             | 3710                                      | 27,9                            | 132                             | 3930                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7030.200-1M |                             | 4020                                      | 31                              | 129                             | 4321                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7030.050-2M |                             | 2220                                      | 16                              | 138                             | 2324                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7030.060-2M |                             | 2630                                      | 18,7                            | 140                             | 2778                             | 15                     | 50          |
| ECO RAYS S 4P4 7030.070-2M |                             | 3050                                      | 21,5                            | 141                             | 3227                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7030.080-2M |                             | 3470                                      | 24,3                            | 142                             | 3671                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7030.090-2M |                             | 3880                                      | 27,1                            | 143                             | 4111                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7030.100-2M |                             | 4300                                      | 30                              | 143                             | 4547                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7030.120-2M |                             | 5110                                      | 35,9                            | 142                             | 5403                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7030.140-2M |                             | 5900                                      | 41,9                            | 140                             | 6241                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7030.160-2M |                             | 6650                                      | 48                              | 138                             | 7060                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7030.180-2M |                             | 7350                                      | 54,2                            | 135                             | 7861                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7030.200-2M |                             | 7990                                      | 60,5                            | 132                             | 8643                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7030.050-1M | STE-M<br>STU-M<br>SV<br>STW | 1130                                      | 8,3                             | 136                             | 1162                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7030.060-1M |                             | 1340                                      | 9,6                             | 139                             | 1389                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7030.070-1M |                             | 1550                                      | 11                              | 140                             | 1613                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7030.080-1M |                             | 1770                                      | 12,4                            | 142                             | 1836                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7030.090-1M |                             | 1980                                      | 13,8                            | 143                             | 2056                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7030.100-1M |                             | 2200                                      | 15,3                            | 143                             | 2273                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7030.120-1M |                             | 2620                                      | 18,4                            | 142                             | 2702                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7030.140-1M |                             | 3040                                      | 21,5                            | 141                             | 3120                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7030.160-1M |                             | 3430                                      | 24,7                            | 138                             | 3530                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7030.180-1M |                             | 3790                                      | 27,9                            | 135                             | 3930                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7030.200-1M |                             | 4120                                      | 31                              | 132                             | 4321                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7030.050-2M |                             | 2270                                      | 16                              | 141                             | 2324                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7030.060-2M |                             | 2700                                      | 18,7                            | 144                             | 2778                             | 15                     | 50          |
| ECO RAYS S 4P4 7030.070-2M |                             | 3130                                      | 21,5                            | 145                             | 3227                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7030.080-2M |                             | 3550                                      | 24,3                            | 146                             | 3671                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7030.090-2M |                             | 3980                                      | 27,1                            | 146                             | 4111                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7030.100-2M |                             | 4400                                      | 30                              | 146                             | 4547                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7030.120-2M |                             | 5230                                      | 35,9                            | 145                             | 5403                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7030.140-2M |                             | 6030                                      | 41,9                            | 143                             | 6241                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7030.160-2M |                             | 6800                                      | 48                              | 141                             | 7060                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7030.180-2M |                             | 7520                                      | 54,2                            | 138                             | 7861                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7030.200-2M |                             | 8180                                      | 60,5                            | 135                             | 8643                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7030.050-2M | S                           | 2190                                      | 16                              | 136                             | 2324                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7030.060-2M |                             | 2600                                      | 18,7                            | 139                             | 2778                             | 15                     | 50          |
| ECO RAYS S 4P4 7030.070-2M |                             | 3010                                      | 21,5                            | 140                             | 3227                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7030.080-2M |                             | 3430                                      | 24,3                            | 141                             | 3671                             | 20,3                   | 50          |

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| LUMINAIRE                  | OPTIC | RATED<br>LUMINAIRE<br>FLUX*(3000K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(3000K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 4P4 7030.090-2M |       | 3840                                      | 27,1                            | 141                             | 4111                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7030.100-2M |       | 4250                                      | 30                              | 141                             | 4547                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7030.120-2M |       | 5060                                      | 35,9                            | 140                             | 5403                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7030.140-2M |       | 5840                                      | 41,9                            | 139                             | 6241                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7030.160-2M |       | 6580                                      | 48                              | 137                             | 7060                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7030.180-2M |       | 7270                                      | 54,2                            | 134                             | 7861                             | 47,3                   | 50          |
| ECO RAYS S 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 S 4P4 2700K

| LUMINAIRE                  | OPTIC                       | RATED<br>LUMINAIRE<br>FLUX*(2700K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(2700K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-----------------------------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 4P4 7027.050-1M | S05<br>S07<br>STE-S         | 1050                                      | 8,3                             | 126                             | 1112                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7027.060-1M |                             | 1240                                      | 9,6                             | 129                             | 1330                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7027.070-1M |                             | 1440                                      | 11                              | 130                             | 1545                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7027.080-1M |                             | 1640                                      | 12,4                            | 132                             | 1758                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7027.090-1M |                             | 1840                                      | 13,8                            | 133                             | 1968                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7027.100-1M |                             | 2030                                      | 15,3                            | 132                             | 2177                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7027.120-1M |                             | 2430                                      | 18,4                            | 132                             | 2587                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7027.140-1M |                             | 2810                                      | 21,5                            | 130                             | 2988                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7027.160-1M |                             | 3170                                      | 24,7                            | 128                             | 3380                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7027.180-1M |                             | 3510                                      | 27,9                            | 125                             | 3763                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7027.200-1M |                             | 3810                                      | 31                              | 122                             | 4137                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7027.050-2M |                             | 2100                                      | 16                              | 131                             | 2225                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7027.060-2M |                             | 2490                                      | 18,7                            | 133                             | 2659                             | 15                     | 50          |
| ECO RAYS S 4P4 7027.070-2M |                             | 2890                                      | 21,5                            | 134                             | 3090                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7027.080-2M |                             | 3280                                      | 24,3                            | 134                             | 3515                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7027.090-2M |                             | 3680                                      | 27,1                            | 135                             | 3936                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7027.100-2M |                             | 4070                                      | 30                              | 135                             | 4353                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7027.120-2M |                             | 4840                                      | 35,9                            | 134                             | 5173                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7027.140-2M |                             | 5590                                      | 41,9                            | 133                             | 5975                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7027.160-2M |                             | 6300                                      | 48                              | 131                             | 6760                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7027.180-2M |                             | 6960                                      | 54,2                            | 128                             | 7526                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7027.200-2M |                             | 7570                                      | 60,5                            | 125                             | 8275                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7027.050-1M | STA<br>STA1<br>STU-S        | 1060                                      | 8,3                             | 127                             | 1112                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7027.060-1M |                             | 1260                                      | 9,6                             | 131                             | 1330                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7027.070-1M |                             | 1460                                      | 11                              | 132                             | 1545                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7027.080-1M |                             | 1660                                      | 12,4                            | 133                             | 1758                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7027.090-1M |                             | 1860                                      | 13,8                            | 134                             | 1968                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7027.100-1M |                             | 2060                                      | 15,3                            | 134                             | 2177                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7027.120-1M |                             | 2460                                      | 18,4                            | 133                             | 2587                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7027.140-1M |                             | 2840                                      | 21,5                            | 132                             | 2988                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7027.160-1M |                             | 3210                                      | 24,7                            | 129                             | 3380                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7027.180-1M |                             | 3550                                      | 27,9                            | 127                             | 3763                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7027.200-1M |                             | 3850                                      | 31                              | 124                             | 4137                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7027.050-2M |                             | 2130                                      | 16                              | 133                             | 2225                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7027.060-2M |                             | 2520                                      | 18,7                            | 134                             | 2659                             | 15                     | 50          |
| ECO RAYS S 4P4 7027.070-2M |                             | 2920                                      | 21,5                            | 135                             | 3090                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7027.080-2M |                             | 3320                                      | 24,3                            | 136                             | 3515                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7027.090-2M |                             | 3720                                      | 27,1                            | 137                             | 3936                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7027.100-2M |                             | 4110                                      | 30                              | 137                             | 4353                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7027.120-2M |                             | 4900                                      | 35,9                            | 136                             | 5173                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7027.140-2M |                             | 5650                                      | 41,9                            | 134                             | 5975                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7027.160-2M |                             | 6370                                      | 48                              | 132                             | 6760                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7027.180-2M |                             | 7040                                      | 54,2                            | 129                             | 7526                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7027.200-2M |                             | 7650                                      | 60,5                            | 126                             | 8275                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7027.050-1M | STE-M<br>STU-M<br>SV<br>STW | 1080                                      | 8,3                             | 130                             | 1112                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7027.060-1M |                             | 1280                                      | 9,6                             | 133                             | 1330                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7027.070-1M |                             | 1490                                      | 11                              | 135                             | 1545                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7027.080-1M |                             | 1690                                      | 12,4                            | 136                             | 1758                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7027.090-1M |                             | 1900                                      | 13,8                            | 137                             | 1968                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7027.100-1M |                             | 2110                                      | 15,3                            | 137                             | 2177                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7027.120-1M |                             | 2510                                      | 18,4                            | 136                             | 2587                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7027.140-1M |                             | 2910                                      | 21,5                            | 135                             | 2988                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7027.160-1M |                             | 3280                                      | 24,7                            | 132                             | 3380                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7027.180-1M |                             | 3630                                      | 27,9                            | 130                             | 3763                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7027.200-1M |                             | 3940                                      | 31                              | 127                             | 4137                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7027.050-2M |                             | 2180                                      | 16                              | 136                             | 2225                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7027.060-2M |                             | 2580                                      | 18,7                            | 137                             | 2659                             | 15                     | 50          |
| ECO RAYS S 4P4 7027.070-2M |                             | 2990                                      | 21,5                            | 139                             | 3090                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7027.080-2M |                             | 3400                                      | 24,3                            | 139                             | 3515                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7027.090-2M |                             | 3810                                      | 27,1                            | 140                             | 3936                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7027.100-2M |                             | 4210                                      | 30                              | 140                             | 4353                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7027.120-2M |                             | 5010                                      | 35,9                            | 139                             | 5173                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7027.140-2M |                             | 5780                                      | 41,9                            | 137                             | 5975                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7027.160-2M |                             | 6510                                      | 48                              | 135                             | 6760                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7027.180-2M |                             | 7200                                      | 54,2                            | 132                             | 7526                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7027.200-2M |                             | 7830                                      | 60,5                            | 129                             | 8275                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7027.050-2M | S                           | 2100                                      | 16                              | 131                             | 2225                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7027.060-2M |                             | 2490                                      | 18,7                            | 133                             | 2659                             | 15                     | 50          |
| ECO RAYS S 4P4 7027.070-2M |                             | 2890                                      | 21,5                            | 134                             | 3090                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7027.080-2M |                             | 3280                                      | 24,3                            | 134                             | 3515                             | 20,3                   | 50          |

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| LUMINAIRE                  | OPTIC | RATED<br>LUMINAIRE<br>FLUX*(2700K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(2700K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 4P4 7027.090-2M |       | 3680                                      | 27,1                            | 135                             | 3936                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7027.100-2M |       | 4070                                      | 30                              | 135                             | 4353                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7027.120-2M |       | 4840                                      | 35,9                            | 134                             | 5173                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7027.140-2M |       | 5590                                      | 41,9                            | 133                             | 5975                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7027.160-2M |       | 6300                                      | 48                              | 131                             | 6760                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7027.180-2M |       | 6960                                      | 54,2                            | 128                             | 7526                             | 47,3                   | 50          |
| ECO RAYS S 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 S 4P4 2200K

| LUMINAIRE                  | OPTIC                       | RATED<br>LUMINAIRE<br>FLUX*(2200K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(2200K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-----------------------------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 4P4 7022.050-1M | S05<br>S07<br>STE-S         | 940                                       | 8,3                             | 113                             | 1001                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7022.060-1M |                             | 1120                                      | 9,6                             | 116                             | 1197                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7022.070-1M |                             | 1290                                      | 11                              | 117                             | 1390                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7022.080-1M |                             | 1470                                      | 12,4                            | 118                             | 1582                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7022.090-1M |                             | 1650                                      | 13,8                            | 119                             | 1771                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7022.100-1M |                             | 1830                                      | 15,3                            | 119                             | 1959                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7022.120-1M |                             | 2180                                      | 18,4                            | 118                             | 2328                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7022.140-1M |                             | 2530                                      | 21,5                            | 117                             | 2689                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7022.160-1M |                             | 2850                                      | 24,7                            | 115                             | 3042                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7022.180-1M |                             | 3150                                      | 27,9                            | 112                             | 3387                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7022.200-1M |                             | 3430                                      | 31                              | 110                             | 3724                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7022.050-2M |                             | 1890                                      | 16                              | 118                             | 2002                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7022.060-2M |                             | 2240                                      | 18,7                            | 119                             | 2394                             | 15                     | 50          |
| ECO RAYS S 4P4 7022.070-2M |                             | 2600                                      | 21,5                            | 120                             | 2781                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7022.080-2M |                             | 2950                                      | 24,3                            | 121                             | 3164                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7022.090-2M |                             | 3310                                      | 27,1                            | 122                             | 3543                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7022.100-2M |                             | 3660                                      | 30                              | 122                             | 3918                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7022.120-2M |                             | 4360                                      | 35,9                            | 121                             | 4656                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7022.140-2M |                             | 5030                                      | 41,9                            | 120                             | 5378                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7022.160-2M |                             | 5670                                      | 48                              | 118                             | 6084                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7022.180-2M |                             | 6270                                      | 54,2                            | 115                             | 6774                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7022.200-2M |                             | 6810                                      | 60,5                            | 112                             | 7447                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7022.050-1M | STA<br>STA1<br>STU-S        | 950                                       | 8,3                             | 114                             | 1001                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7022.060-1M |                             | 1130                                      | 9,6                             | 117                             | 1197                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7022.070-1M |                             | 1310                                      | 11                              | 119                             | 1390                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7022.080-1M |                             | 1490                                      | 12,4                            | 120                             | 1582                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7022.090-1M |                             | 1670                                      | 13,8                            | 121                             | 1771                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7022.100-1M |                             | 1850                                      | 15,3                            | 120                             | 1959                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7022.120-1M |                             | 2210                                      | 18,4                            | 120                             | 2328                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7022.140-1M |                             | 2560                                      | 21,5                            | 119                             | 2689                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7022.160-1M |                             | 2890                                      | 24,7                            | 117                             | 3042                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7022.180-1M |                             | 3190                                      | 27,9                            | 114                             | 3387                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7022.200-1M |                             | 3470                                      | 31                              | 111                             | 3724                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7022.050-2M |                             | 1910                                      | 16                              | 119                             | 2002                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7022.060-2M |                             | 2270                                      | 18,7                            | 121                             | 2394                             | 15                     | 50          |
| ECO RAYS S 4P4 7022.070-2M |                             | 2630                                      | 21,5                            | 122                             | 2781                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7022.080-2M |                             | 2990                                      | 24,3                            | 123                             | 3164                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7022.090-2M |                             | 3340                                      | 27,1                            | 123                             | 3543                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7022.100-2M |                             | 3700                                      | 30                              | 123                             | 3918                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7022.120-2M |                             | 4410                                      | 35,9                            | 122                             | 4656                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7022.140-2M |                             | 5090                                      | 41,9                            | 121                             | 5378                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7022.160-2M |                             | 5730                                      | 48                              | 119                             | 6084                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7022.180-2M |                             | 6340                                      | 54,2                            | 116                             | 6774                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7022.200-2M |                             | 6890                                      | 60,5                            | 113                             | 7447                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7022.050-1M | STE-M<br>STU-M<br>SV<br>STW | 970                                       | 8,3                             | 116                             | 1001                             | 6,2                    | 50          |
| ECO RAYS S 4P4 7022.060-1M |                             | 1160                                      | 9,6                             | 120                             | 1197                             | 7,5                    | 50          |
| ECO RAYS S 4P4 7022.070-1M |                             | 1340                                      | 11                              | 121                             | 1390                             | 8,8                    | 50          |
| ECO RAYS S 4P4 7022.080-1M |                             | 1520                                      | 12,4                            | 122                             | 1582                             | 10,1                   | 50          |
| ECO RAYS S 4P4 7022.090-1M |                             | 1710                                      | 13,8                            | 123                             | 1771                             | 11,4                   | 50          |
| ECO RAYS S 4P4 7022.100-1M |                             | 1900                                      | 15,3                            | 124                             | 1959                             | 12,8                   | 50          |
| ECO RAYS S 4P4 7022.120-1M |                             | 2260                                      | 18,4                            | 122                             | 2328                             | 15,4                   | 50          |
| ECO RAYS S 4P4 7022.140-1M |                             | 2620                                      | 21,5                            | 121                             | 2689                             | 18,1                   | 50          |
| ECO RAYS S 4P4 7022.160-1M |                             | 2950                                      | 24,7                            | 119                             | 3042                             | 20,9                   | 50          |
| ECO RAYS S 4P4 7022.180-1M |                             | 3270                                      | 27,9                            | 117                             | 3387                             | 23,6                   | 50          |
| ECO RAYS S 4P4 7022.200-1M |                             | 3550                                      | 31                              | 114                             | 3724                             | 26,4                   | 50          |
| ECO RAYS S 4P4 7022.050-2M |                             | 1960                                      | 16                              | 122                             | 2002                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7022.060-2M |                             | 2330                                      | 18,7                            | 124                             | 2394                             | 15                     | 50          |
| ECO RAYS S 4P4 7022.070-2M |                             | 2690                                      | 21,5                            | 125                             | 2781                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7022.080-2M |                             | 3060                                      | 24,3                            | 125                             | 3164                             | 20,3                   | 50          |
| ECO RAYS S 4P4 7022.090-2M |                             | 3430                                      | 27,1                            | 126                             | 3543                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7022.100-2M |                             | 3790                                      | 30                              | 126                             | 3918                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7022.120-2M |                             | 4510                                      | 35,9                            | 125                             | 4656                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7022.140-2M |                             | 5200                                      | 41,9                            | 124                             | 5378                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7022.160-2M |                             | 5860                                      | 48                              | 122                             | 6084                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7022.180-2M |                             | 6480                                      | 54,2                            | 119                             | 6774                             | 47,3                   | 50          |
| ECO RAYS S 4P4 7022.200-2M |                             | 7050                                      | 60,5                            | 116                             | 7447                             | 52,9                   | 50          |
| ECO RAYS S 4P4 7022.050-2M | S                           | 1890                                      | 16                              | 118                             | 2002                             | 12,5                   | 50          |
| ECO RAYS S 4P4 7022.060-2M |                             | 2240                                      | 18,7                            | 119                             | 2394                             | 15                     | 50          |
| ECO RAYS S 4P4 7022.070-2M |                             | 2600                                      | 21,5                            | 120                             | 2781                             | 17,6                   | 50          |
| ECO RAYS S 4P4 7022.080-2M |                             | 2950                                      | 24,3                            | 121                             | 3164                             | 20,3                   | 50          |

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| LUMINAIRE                  | OPTIC | RATED<br>LUMINAIRE<br>FLUX*(2200K,<br>lm) | RATED<br>LUMINAIRE<br>POWER*(W) | LUMINAIRE<br>EFFICACY<br>(lm/W) | RATED LED<br>FLUX*(2200K,<br>lm) | RATED LED<br>POWER*(W) | Ta MAX (°C) |
|----------------------------|-------|-------------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------|-------------|
| ECO RAYS S 4P4 7022.090-2M |       | 3310                                      | 27,1                            | 122                             | 3543                             | 22,9                   | 50          |
| ECO RAYS S 4P4 7022.100-2M |       | 3660                                      | 30                              | 122                             | 3918                             | 25,5                   | 50          |
| ECO RAYS S 4P4 7022.120-2M |       | 4360                                      | 35,9                            | 121                             | 4656                             | 30,9                   | 50          |
| ECO RAYS S 4P4 7022.140-2M |       | 5030                                      | 41,9                            | 120                             | 5378                             | 36,3                   | 50          |
| ECO RAYS S 4P4 7022.160-2M |       | 5670                                      | 48                              | 118                             | 6084                             | 41,8                   | 50          |
| ECO RAYS S 4P4 7022.180-2M |       | 6270                                      | 54,2                            | 115                             | 6774                             | 47,3                   | 50          |
| ECO RAYS S 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/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.