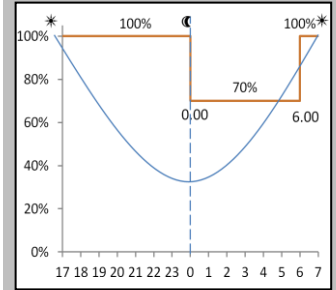


## ITALO 2

### MAIN CHARACTERISTICS

|                                 |  |
|---------------------------------|--|
| <b>Applications</b>             | Street lighting.   |
| <b>Optic</b>                    | STE-M/S: Asymmetrical optic for suburban street lighting.<br>STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting.<br>STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts.<br>SV: Asymmetrical optic for narrow urban streets or highway entrance/exit turns.<br>OP-DX/SX: Asymmetrical optic for crosswalks lighting.<br>S05: Asymmetrical optic for urban and street lighting.<br>STA/STA1: Asymmetrical optic for V and P categories.<br>Colour temperature: 4000K (optional 3000K, 5700K)   CRI ≥ 70<br>LOR= 100%, DLOR= 100%, ULOR= 0%<br>Photobiological safety class: EXEMPT GROUP<br>LED source efficiency: 168 lm/W @ 525mA, Tj=85°C, 4000K |
| <b>Insulation class</b>         | II, I  |
| <b>Protection degree</b>        | IP66   IK09 total  |
| <b>LED Modules</b>              | Removable / Replaceable  |
| <b>Tilt Angle</b>               | Post-top: 0°, +5°, +10°, +15°, +20°<br>Bracket: 0°, -5°, -10°, -15°, -20°<br>Bracket: +5°, 0°, -5°, -10°, -15°, -20° (only Ø33mm ÷ Ø60mm)  |
| <b>Dimensions&amp;weight</b>    | See the drawing – max. 12,5 kg   |
| <b>Exposed surface</b>          | Side: 0.08m <sup>2</sup> – Top: 0.3m <sup>2</sup>   SCx:0.06m <sup>2</sup>   |
| <b>Mounting</b>                 | Bracket or Post-top Ø60mm<br>Ø33mm ÷ Ø60mm (optional)   Ø60mm ÷ Ø76mm (optional)   |
| <b>Gear tray</b>                | Removable plate.   |
| <b>Operating temp.</b>          | -40°C / +50°C  |
| <b>Storage temp.</b>            | -40°C / +80°C  |
| <b>Main reference standards</b> | EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3   |

### DA Profile

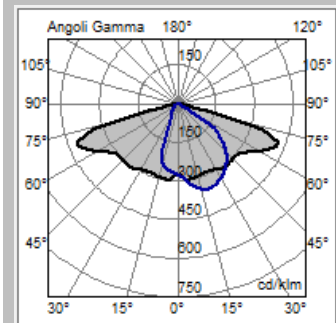


### ELECTRICAL CHARACTERISTICS

|   |  |
|---|--|
| <b>Rated voltage</b>                          | 220÷240V 50/60Hz (Standard tolerance +/-10%, other voltages and tolerances upon request)   |
| <b>Power factor</b>                           | >0,95 (at full load - F, DA, DAC)  |
| <b>On-load switch</b>                         | Included, with integrated cable clamp.   |
| <b>Mains connection</b>                       | For cables max section 4mm <sup>2</sup>  |
| <b>Surge protection</b>                       | SPD integrated 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life.<br>Pulse withstand: 10kV / 10kV CM/DM  |
| <b>Control system (options)</b>               | F: Fixed power not dimmable.<br>DA: Automatic dimming (virtual midnight) with default profile.<br>DAC: Custom DA profile.<br>FLC: Constant light flux.<br>WL: Wireless single point communication system.<br>DALI: Digital dimming interface DALI.<br>NEMA: Socket 7 pin (ANSI C136.41).<br>ZHAGA: Socket 4 pin (ZHAGA Book 18). |
| <b>Optical unit lifetime (Tq=25°C, 700mA)</b> | >100.000hr L90B10<br>>100.000hr L90, TM-21   |

### MATERIALS

|                     |  |
|---------------------|--|
| <b>Fixing</b>       | Die-cast aluminium UNI EN1706 powder painted.  |
| <b>Heat-sink</b>    |  |
| <b>Lower frame</b>  |  |
| <b>Upper canopy</b> |  |
| <b>Closure hook</b> | Extruded aluminium with stainless steel spring.  |
| <b>Optic</b>        | 99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition.<br>Alluminum grade class A+ (DIN EN 16268) |
| <b>Screen</b>       | Flat tempered glass, 5mm thickness.  |
| <b>Cable gland</b>  | Plastic M20x1.5 - IP68   |
| <b>Gasket</b>       | Polyurethane   |
| <b>Colour</b>       | Semi-gloss satin grey - Cod. 2B  |



STU-M Optic

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



| LUMINAIRE            | OPTIC                       | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) | RATED LED FLUX*<br>(Tj=85°C, 4000K, lm) | RATED LED POWER*<br>(Tj=85°C, W) |
|----------------------|-----------------------------|---|--|---------------------------------------|---|----------------------------------|
| ITALO 2 0F2H1 4.5-4M | S05<br>STU-M<br>STU-S<br>SV | 7150  | 57   | 125                                   | 8736                                    | 52                               |
| ITALO 2 0F2H1 4.5-5M |                             | 9430  | 72   | 130                                   | 10920                                   | 65                               |
| ITALO 2 0F2H1 4.5-6M |                             | 11110   | 85   | 130                                   | 13104                                   | 78                               |
| ITALO 2 0F2H1 4.5-7M |                             | 12920   | 99   | 130                                   | 15288                                   | 91                               |
| ITALO 2 0F2H1 4.5-8M |                             | 14750   | 113  | 130                                   | 17472                                   | 104                              |
| ITALO 2 0F2H1 4.7-4M | S05<br>STU-M<br>STU-S<br>SV | 8990  | 76   | 118                                   | 11060                                   | 72                               |
| ITALO 2 0F2H1 4.7-5M |                             | 11890   | 95   | 125                                   | 13825                                   | 90                               |
| ITALO 2 0F2H1 4.7-6M |                             | 14070   | 114  | 123                                   | 16590                                   | 108                              |
| ITALO 2 0F2H1 4.7-7M |                             | 16290   | 132  | 123                                   | 19355                                   | 126                              |
| ITALO 2 0F2H1 4.7-8M |                             | 18580   | 151  | 123                                   | 22120                                   | 144                              |
| ITALO 2 0F3 4.5-4M   | STE-M<br>STE-S<br>STW       | 9950  | 76   | 130                                   | 11800                                   | 68                               |
| ITALO 2 0F3 4.5-5M   |                             | 12720   | 95   | 133                                   | 14750                                   | 90                               |
| ITALO 2 0F3 4.5-6M   |                             | 15170   | 112  | 135                                   | 17700                                   | 108                              |
| ITALO 2 0F3 4.5-7M   |                             | 17590   | 131  | 134                                   | 20650                                   | 126                              |
| ITALO 2 0F3 4.5-8M   |                             | 20030   | 150  | 133                                   | 23600                                   | 144                              |
| ITALO 2 0F3 4.7-4M   | STE-M<br>STE-S<br>STW       | 12550   | 102  | 123                                   | 14940                                   | 96                               |
| ITALO 2 0F3 4.7-5M   |                             | 15950   | 127  | 125                                   | 18675                                   | 120                              |
| ITALO 2 0F3 4.7-6M   |                             | 19040   | 150  | 126                                   | 22410                                   | 144                              |
| ITALO 2 0F3 4.7-7M   |                             | 22130   | 175  | 126                                   | 26145                                   | 168                              |
| ITALO 2 0F3 4.7-8M   |                             | 25180   | 201  | 125                                   | 29880                                   | 192                              |

| LUMINAIRE          | OPTIC          | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac,<br>F/DA/DAC, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) | RATED LED FLUX*<br>(Tj=85°C, 4000K, lm) | RATED LED POWER*<br>(Tj=85°C, W) |
|--------------------|----------------|---|---|---------------------------------------|---|----------------------------------|
| ITALO 2 0F6 4.5-2M | OP-DX<br>OP-SX | 9950  | 76  | 130                                   | 11802                                   | 70                               |
| ITALO 2 0F6 4.5-3M |                | 15170   | 112   | 135                                   | 17703                                   | 105                              |
| ITALO 2 0F6 4.5-4M |                | 20030   | 150   | 133                                   | 23604                                   | 140                              |
| ITALO 2 0F6 4.7-2M | OP-DX<br>OP-SX | 12550   | 102   | 123                                   | 14940                                   | 94                               |
| ITALO 2 0F6 4.7-3M |                | 19040   | 150   | 126                                   | 22410                                   | 141                              |
| ITALO 2 0F2 4.5-4M | STA<br>STA1    | 6140  | 51  | 120                                   | 7868                                    | 48                               |
| ITALO 2 0F2 4.5-5M |                | 8280  | 64  | 129                                   | 9835                                    | 60                               |
| ITALO 2 0F2 4.5-6M |                | 9730  | 76  | 128                                   | 11802                                   | 72                               |
| ITALO 2 0F2 4.5-7M |                | 11310   | 88  | 128                                   | 13769                                   | 84                               |
| ITALO 2 0F2 4.5-8M |                | 12930   | 100   | 129                                   | 15736                                   | 96                               |
| ITALO 2 0F2 4.7-4M | STA<br>STA1    | 7720  | 67  | 114                                   | 9960                                    | 64                               |
| ITALO 2 0F2 4.7-5M |                | 10440   | 85  | 122                                   | 12450                                   | 80                               |
| ITALO 2 0F2 4.7-6M |                | 12330   | 101   | 122                                   | 14940                                   | 96                               |
| ITALO 2 0F2 4.7-7M |                | 14270   | 117   | 121                                   | 17430                                   | 112                              |
| ITALO 2 0F2 4.7-8M |                | 16280   | 134   | 121                                   | 19920                                   | 128                              |

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

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

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

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



| LUMINAIRE            | OPTIC                       | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 3000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) | RATED LED FLUX*<br>(Tj=85°C, 3000K, lm) | RATED LED POWER*<br>(Tj=85°C, W) |
|----------------------|-----------------------------|---|--|---------------------------------------|---|----------------------------------|
| ITALO 2 0F2H1 3.5-4M | S05<br>STU-M<br>STU-S<br>SV | 6650  | 57   | 117                                   | 8124                                    | 52                               |
| ITALO 2 0F2H1 3.5-5M |                             | 8770  | 72   | 122                                   | 10156                                   | 65                               |
| ITALO 2 0F2H1 3.5-6M |                             | 10330   | 85   | 122                                   | 12187                                   | 78                               |
| ITALO 2 0F2H1 3.5-7M |                             | 12020   | 99   | 121                                   | 14218                                   | 91                               |
| ITALO 2 0F2H1 3.5-8M |                             | 13720   | 113  | 121                                   | 16249                                   | 104                              |
| ITALO 2 0F2H1 3.7-4M | S05<br>STU-M<br>STU-S<br>SV | 8360  | 76   | 110                                   | 10286                                   | 72                               |
| ITALO 2 0F2H1 3.7-5M |                             | 11060   | 95   | 116                                   | 12857                                   | 90                               |
| ITALO 2 0F2H1 3.7-6M |                             | 13090   | 114  | 115                                   | 15429                                   | 108                              |
| ITALO 2 0F2H1 3.7-7M |                             | 15150   | 132  | 115                                   | 18000                                   | 126                              |
| ITALO 2 0F2H1 3.7-8M |                             | 17280   | 151  | 114                                   | 20572                                   | 144                              |
| ITALO 2 0F3 3.5-4M   | STE-M<br>STE-S<br>STW       | 9250  | 76   | 122                                   | 10974                                   | 72                               |
| ITALO 2 0F3 3.5-5M   |                             | 11830   | 95   | 125                                   | 13718                                   | 90                               |
| ITALO 2 0F3 3.5-6M   |                             | 14110   | 112  | 126                                   | 16461                                   | 108                              |
| ITALO 2 0F3 3.5-7M   |                             | 16360   | 131  | 125                                   | 19205                                   | 126                              |
| ITALO 2 0F3 3.5-8M   |                             | 18630   | 150  | 124                                   | 21948                                   | 144                              |
| ITALO 2 0F3 3.7-4M   | STE-M<br>STE-S<br>STW       | 11670   | 102  | 114                                   | 13894                                   | 96                               |
| ITALO 2 0F3 3.7-5M   |                             | 14830   | 127  | 117                                   | 17368                                   | 120                              |
| ITALO 2 0F3 3.7-6M   |                             | 17710   | 150  | 118                                   | 20841                                   | 144                              |
| ITALO 2 0F3 3.7-7M   |                             | 20580   | 175  | 118                                   | 24315                                   | 168                              |
| ITALO 2 0F3 3.7-8M   |                             | 23420   | 201  | 117                                   | 27788                                   | 192                              |

| LUMINAIRE          | OPTIC          | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 3000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac,<br>F/DA/DAC, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) | RATED LED FLUX*<br>(Tj=85°C, 3000K, lm) | RATED LED POWER*<br>(Tj=85°C, W) |
|--------------------|----------------|---|---|---------------------------------------|---|----------------------------------|
| ITALO 2 0F6 3.5-2M | OP-DX<br>OP-SX | 9250  | 76  | 122                                   | 9698                                    | 70                               |
| ITALO 2 0F6 3.5-3M |                | 14110   | 112   | 126                                   | 14547                                   | 105                              |
| ITALO 2 0F6 3.5-4M |                | 18630   | 150   | 124                                   | 19396                                   | 140                              |
| ITALO 2 0F6 3.7-2M | OP-DX<br>OP-SX | 11670   | 102   | 114                                   | 12276                                   | 94                               |
| ITALO 2 0F6 3.7-3M |                | 17710   | 150   | 118                                   | 18414                                   | 141                              |
| ITALO 2 0F2 3.5-4M | STA<br>STA1    | 5600  | 51  | 110                                   | 7317                                    | 48                               |
| ITALO 2 0F2 3.5-5M |                | 7550  | 64  | 118                                   | 9147                                    | 60                               |
| ITALO 2 0F2 3.5-6M |                | 8870  | 76  | 117                                   | 10976                                   | 72                               |
| ITALO 2 0F2 3.5-7M |                | 10310   | 88  | 117                                   | 12805                                   | 84                               |
| ITALO 2 0F2 3.5-8M |                | 11790   | 100   | 118                                   | 14634                                   | 96                               |
| ITALO 2 0F2 3.7-4M | STA<br>STA1    | 7040  | 68  | 104                                   | 9263                                    | 64                               |
| ITALO 2 0F2 3.7-5M |                | 9520  | 85  | 112                                   | 11579                                   | 80                               |
| ITALO 2 0F2 3.7-6M |                | 11240   | 101   | 111                                   | 13894                                   | 96                               |
| ITALO 2 0F2 3.7-7M |                | 13010   | 117   | 111                                   | 16210                                   | 112                              |
| ITALO 2 0F2 3.7-8M |                | 14840   | 134   | 111                                   | 18526                                   | 128                              |

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