



LF/LS 28/29 iBox

MAIN CHARACTERISTICS

| | |
|----------------------------|---|
| Applications | Street and urban lighting |
| Optic | <p>STE-M/S: Asymmetrical optic for suburban street lighting. STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting. STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts. SV/SV2: Asymmetrical optic for very narrow urban streets or highway entrance/exit turns. S05: Asymmetrical optic for street, urban and green areas lighting. S: Symmetrical optic for urban lighting and green areas. TS: Symmetrical optic for centre road lighting. Colour temperature: 4000K (3000K optional) CRI ≥ 70 Photobiological safety class: EXEMPT GROUP LED source efficiency: 168 lm/W @ 525mA, Tj=85°C, 4000K</p> |
| Insulation class | II, I |
| Protection degree | Optical unit: IP66 Driver: IP67 IK08 |
| Dimensions | LF28/29: 530x460x820mm LS28/29: 530x460x930mm |
| Weight | max. 13 kg |
| Exposed surface | Side: 0.20m ² – Top: 0.19m ² |
| Installation | LF28/29: pole top installation for 1/2" GAS male. LS28/29: suspended installation for 1/2" GAS female. |
| Gear tray | Removable |
| Operating temp. | -40°C / +35°C |
| Storage temperature | -40°C / +80°C |
| Main reference | EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3 |



ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| Rated voltage | 220÷240V 50/60Hz |
| Power factor | >0,9 (at full load) |
| Mains Connection | Cable: H05RN-F 2/3x1mm ² Optional: connector M/F IP66/68 for cables max. 2,5mm ² , Ø max. 12mm |
| Surge protection | CL. II: 8kV / 10kV CM/DM CL. I: 8kV / 10kV CM/DM (optional) |
| Control system (optional) | F: Fixed power not dimmable. DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. D10: Dimming interface with 1-10V signal. |
| Optical unit lifetime (Ta=25°C, 700mA) | >100.000hr L90B10 >100.000hr L90, TM-21 |

MATERIALS

| | |
|-----------------|--|
| Fixing | LF28/29: Brass. LS28/29: Stainless steel tube. |
| Body | LF/LS28: Profiles: steel, upper dome: aluminium. LF/LS29: Profiles: brass, upper dome: copper. |
| Heatsink | Die-cast aluminum UNI EN1706 powder painted. |
| Optic | 99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268) |
| Screen | Flat tempered glass, 4mm thickness PCG |
| Colour | LF/LS28: Graphite - Cod. 01 LF/LS29: Brass |



| LUMINAIRE | OPTIC | LED CURRENT (mA) | RATED LUMINAIRE FLUX* (Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY (Tq=25°C, lm/W) | RATED LED FLUX* (Tj=85°C, 4000K, lm) | RATED LED POWER* (Tj=85°C, W) |
|-----------------------------------|-----------------------|------------------|--|---|------------------------------------|--------------------------------------|-------------------------------|
| LF-LS 28-29 iBox 0F2H1 4.5-1M PCG | S05 | 525 | 1430 | 16.5 | 86 | 2184 | 13 |
| LF-LS 28-29 iBox 0F2H1 4.5-2M PCG | STU-M | | 2800 | 31 | 90 | 4368 | 26 |
| LF-LS 28-29 iBox 0F2H1 4.5-3M PCG | STU-S | | 4200 | 45 | 93 | 6553 | 39 |
| LF-LS 28-29 iBox 0F2H1 4.5-4M PCG | SV SV2 TS | | 5430 | 58 | 93 | 8737 | 52 |
| LF-LS 28-29 iBox 0F2H1 4.7-1M PCG | S05 | 700 | 1840 | 22 | 83 | 2765 | 17 |
| LF-LS 28-29 iBox 0F2H1 4.7-2M PCG | STU-M | | 3590 | 41 | 87 | 5530 | 35 |
| LF-LS 28-29 iBox 0F2H1 4.7-3M PCG | STU-S | | 5340 | 59 | 90 | 8295 | 53 |
| LF-LS 28-29 iBox 0F2H1 4.7-4M PCG | SV SV2 TS | | 6830 | 77.5 | 88 | 11060 | 71 |
| LF-LS 28-29 iBox 0F3 4.5-1M PCG | STE-M STE-S STW | 525 | 1980 | 22 | 90 | 2950 | 17 |
| LF-LS 28-29 iBox 0F3 4.5-2M PCG | | | 3920 | 40 | 98 | 5901 | 34 |
| LF-LS 28-29 iBox 0F3 4.5-3M PCG | | | 5690 | 58 | 98 | 8851 | 52 |
| LF-LS 28-29 iBox 0F3 4.5-4M PCG | | | 7560 | 77.5 | 97 | 11802 | 69 |
| LF-LS 28-29 iBox 0F3 4.7-1M PCG | STE-M | 700 | 2490 | 28.5 | 87 | 3735 | 23 |
| LF-LS 28-29 iBox 0F3 4.7-2M PCG | STE-S | | 4960 | 53 | 93 | 7470 | 47 |
| LF-LS 28-29 iBox 0F3 4.7-3M PCG | STW | | 7160 | 77.5 | 92 | 11205 | 71 |
| LF-LS 28-29 iBox 0F3 4.5-1M PCG | S05 | 525 | 1900 | 22 | 86 | 2950 | 17 |
| LF-LS 28-29 iBox 0F3 4.5-2M PCG | | | 3760 | 40 | 94 | 5901 | 34 |
| LF-LS 28-29 iBox 0F3 4.5-3M PCG | | | 5460 | 58 | 94 | 8851 | 52 |
| LF-LS 28-29 iBox 0F3 4.5-4M PCG | | | 7260 | 77.5 | 93 | 11802 | 69 |
| LF-LS 28-29 iBox 0F3 4.7-1M PCG | S05 | 700 | 2390 | 28.5 | 83 | 3735 | 23 |
| LF-LS 28-29 iBox 0F3 4.7-2M PCG | | | 4760 | 53 | 89 | 7470 | 47 |
| LF-LS 28-29 iBox 0F3 4.7-3M PCG | | | 6870 | 77.5 | 88 | 11205 | 71 |



| LUMINAIRE | OPTIC | LED CURRENT (mA) | RATED LUMINAIRE FLUX* (Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY (Tq=25°C, lm/W) | RATED LED FLUX* (Tj=85°C, 4000K, lm) | RATED LED POWER* (Tj=85°C, W) |
|-----------------------------------|-------|------------------|--|---|------------------------------------|--------------------------------------|-------------------------------|
| LF-LS 28-29 iBox 0F2H1 4.5-2M PCG | S | 525 | 2800 | 31 | 90 | 4368 | 26 |
| LF-LS 28-29 iBox 0F2H1 4.5-4M PCG | | | 5430 | 58 | 93 | 8737 | 52 |
| LF-LS 28-29 iBox 0F2H1 4.7-2M PCG | S | 700 | 3590 | 41 | 87 | 5530 | 35 |
| LF-LS 28-29 iBox 0F2H1 4.7-4M PCG | | | 6830 | 77.5 | 88 | 11060 | 71 |

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

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

Values indicated in this technical sheet are to be considered rated values. Flux tolerance: ±7%. Power tolerance: ±10%.

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



| LUMINAIRE | OPTIC | LED CURRENT (mA) | RATED LUMINAIRE FLUX* (Tq=25°C, 3000K, lm) | RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY (Tq=25°C, lm/W) | RATED LED FLUX* (Tj=85°C, 3000K, lm) | RATED LED POWER* (Tj=85°C, W) |
|-----------------------------------|-----------------------|------------------|--|---|------------------------------------|--------------------------------------|-------------------------------|
| LF-LS 28-29 iBox 0F2H1 3.5-1M PCG | S05 | 525 | 1330 | 16.5 | 80 | 1990 | 13 |
| LF-LS 28-29 iBox 0F2H1 3.5-2M PCG | STU-M | | 2600 | 31 | 83 | 3981 | 26 |
| LF-LS 28-29 iBox 0F2H1 3.5-3M PCG | STU-S | | 3910 | 45 | 86 | 5972 | 39 |
| LF-LS 28-29 iBox 0F2H1 3.5-4M PCG | SV SV2 TS | | 5050 | 58 | 87 | 7963 | 52 |
| LF-LS 28-29 iBox 0F2H1 3.7-1M PCG | S05 | 700 | 1710 | 22 | 77 | 2520 | 17 |
| LF-LS 28-29 iBox 0F2H1 3.7-2M PCG | STU-M | | 3340 | 41 | 81 | 5040 | 35 |
| LF-LS 28-29 iBox 0F2H1 3.7-3M PCG | STU-S | | 4970 | 59 | 84 | 7560 | 53 |
| LF-LS 28-29 iBox 0F2H1 3.7-4M PCG | SV SV2 TS | | 6350 | 77.5 | 81 | 10080 | 71 |
| LF-LS 28-29 iBox 0F3 3.5-1M PCG | STE-M STE-S STW | 525 | 1840 | 22 | 83 | 2701 | 17 |
| LF-LS 28-29 iBox 0F3 3.5-2M PCG | | | 3650 | 40 | 91 | 5403 | 34 |
| LF-LS 28-29 iBox 0F3 3.5-3M PCG | | | 5290 | 58 | 91 | 8105 | 52 |
| LF-LS 28-29 iBox 0F3 3.5-4M PCG | | | 7030 | 77.5 | 90 | 10807 | 69 |
| LF-LS 28-29 iBox 0F3 3.7-1M PCG | STE-M | 700 | 2320 | 28.5 | 81 | 3420 | 23 |
| LF-LS 28-29 iBox 0F3 3.7-2M PCG | STE-S | | 4610 | 53 | 86 | 6840 | 47 |
| LF-LS 28-29 iBox 0F3 3.7-3M PCG | STW | | 6660 | 77.5 | 85 | 10260 | 71 |
| LF-LS 28-29 iBox 0F3 3.5-1M PCG | S05 | 525 | 1770 | 22 | 80 | 2701 | 17 |
| LF-LS 28-29 iBox 0F3 3.5-2M PCG | | | 3500 | 40 | 87 | 5403 | 34 |
| LF-LS 28-29 iBox 0F3 3.5-3M PCG | | | 5080 | 58 | 87 | 8105 | 52 |
| LF-LS 28-29 iBox 0F3 3.5-4M PCG | | | 6750 | 77.5 | 87 | 10807 | 69 |
| LF-LS 28-29 iBox 0F3 3.7-1M PCG | S05 | 700 | 2220 | 28.5 | 77 | 3420 | 23 |
| LF-LS 28-29 iBox 0F3 3.7-2M PCG | | | 4430 | 53 | 83 | 6840 | 47 |
| LF-LS 28-29 iBox 0F3 3.7-3M PCG | | | 6390 | 77.5 | 82 | 10260 | 71 |



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|-----------------------------------|-------|------------------|--|---|------------------------------------|--------------------------------------|-------------------------------|
| LF-LS 28-29 iBox 0F2H1 3.5-2M PCG | S | 525 | 2600 | 31 | 83 | 3981 | 26 |
| LF-LS 28-29 iBox 0F2H1 3.5-4M PCG | | | 5050 | 58 | 87 | 7963 | 52 |
| LF-LS 28-29 iBox 0F2H1 3.7-2M PCG | S | 700 | 3340 | 41 | 81 | 5040 | 35 |
| LF-LS 28-29 iBox 0F2H1 3.7-4M PCG | | | 6350 | 77.5 | 81 | 10080 | 71 |

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

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

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