



MASTER PL-L Xtra Polar 4 Pin

MASTER PL-L Xtra Polar 24W/830/4P 1CT

Energy saving compact fluorescent lamps Compact long-arc low-pressure mercury discharge lamp Envelope consists of two parallel fluorescent tubes linked by a bridge

Product data

• Product Data

| | |
|-----------------------------|--|
| Order code | 927907683015 |
| Full product code | 927907683015 |
| Full product name | MASTER PL-L Xtra Polar 24W/830/4P 1CT |
| Order product name | MASTER PL-L Xtra Polar 24W/830/4P 1CT/25 |
| Pieces per pack | 1 |
| Packing configuration | 25 |
| Packs per outerbox | 25 |
| Bar code on pack - EAN1 | 8711500267726 |
| Bar code on outerbox - EAN3 | 8711500267733 |
| Logistic code(s) - 12NC | 927907683015 |
| ILCOS code | FSD-24/30/1B-E-2G11 |
| Net weight per piece | 82.000 gr |

• General Characteristics

| | |
|--------------------------------|----------|
| System Description | - |
| Cap-Base | 2G11 |
| Cap-Base Information | 4P |
| Life to 50% failures EM | 21000 hr |
| Life to 50% fail Preheat EL,3h | 36000 hr |
| Life to 50% fail Nonpreh EL,3h | 11000 hr |
| Life to 10% fail Nonpreh EL,3h | 7000 hr |
| Life to 10% fail Preheat EL,3h | 25000 hr |
| Life to 10% failures EM | 14000 hr |

| | |
|--------------------------------|------|
| LSF HF Preheat 20000h Rated,3h | 94 % |
| LSF HF Preheat 12000h Rated,3h | 98 % |
| LSF HF Preheat 8000h Rated,3h | 99 % |
| LSF HF Preheat 6000h Rated,3h | 99 % |
| LSF HF Preheat 4000h Rated,3h | 99 % |
| LSF HF Preheat 2000h Rated,3h | 99 % |
| LSF EM 20000h Rated,3h cycle | 58 % |
| LSF EM 16000h Rated,3h cycle | 88 % |
| LSF EM 12000h Rated,3h cycle | 95 % |
| LSF EM 8000h Rated,3h cycle | 97 % |
| LSF EM 6000h Rated,3h cycle | 98 % |
| LSF EM 4000h Rated,3h cycle | 99 % |
| LSF EM 2000h Rated,3h cycle | 99 % |
| LSF HF Preheat 16000h Rated,3h | 97 % |

• Electrical Characteristics

| | |
|----------------------|---------|
| Lamp Wattage | 24 W |
| Lamp Voltage EL 25°C | 87 V |
| Lamp Current EL 25°C | 0.345 A |
| Dimmable | Yes |



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| | |
|-------------------------------|---------|
| Lamp Current EM 25°C | 0.345 A |
| Lamp Wattage EL 25°C, Rated | 24.0 W |
| Lamp Wattage EL 25°C, Nominal | 24 W |
| Lamp Voltage EM 25°C | 87 V |

• Environmental Characteristics

| | |
|-------------------------------|--------|
| Energy Efficiency Label (EEL) | B |
| Mercury (Hg) Content | 3.0 mg |

• Light Technical Characteristics

| | |
|---------------------------|--------------------|
| Color Code | 830 [CCT of 3000K] |
| Color Rendering Index | 82 Ra8 |
| Color Designation (text) | Warm White |
| Color Temperature | 3000 K |
| Chromaticity Coordinate X | 440 - |
| Chromaticity Coordinate Y | 405 - |
| LLMF EM 20000h Rated | 88 % |
| LLMF EM 16000h Rated | 89 % |
| LLMF EM 12000h Rated | 90 % |
| LLMF EM 8000h Rated | 91 % |
| LLMF EM 6000h Rated | 92 % |
| LLMF EM 4000h Rated | 93 % |
| LLMF EM 2000h Rated | 94 % |
| LLMF HF 20000h Rated | 90 % |

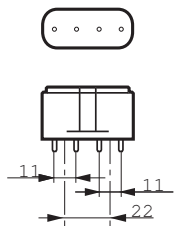
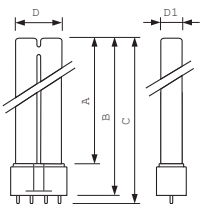
| | |
|--------------------------------|---------|
| LLMF HF 16000h Rated | 90 % |
| LLMF HF 12000h Rated | 91 % |
| LLMF HF 8000h Rated | 92 % |
| LLMF HF 6000h Rated | 93 % |
| LLMF HF 4000h Rated | 94 % |
| LLMF HF 2000h Rated | 95 % |
| Luminous Flux EL 25°C, Rated | 1800 Lm |
| Luminous Flux EL 25°C, Nominal | 1800 Lm |
| Lum Flux Rated HF 25°C,horiz | 1800 Lm |
| Lum Flux Nominal HF 25°C,horiz | 1800 Lm |
| Lum Efficacy Rated HF 25°C,hor | 75 Lm/W |
| Design Temperature | 18 C |
| Lum Efficacy Rated EM 25°C,hor | 75 Lm/W |
| Lum Flux Nominal EM 25°C,horiz | 1800 Lm |
| Lum Flux Rated EM 25°C,horiz | 1800 Lm |

• Product Dimensions

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|--------------------------|----------|
| Base Face to Base Face A | 290 mm |
| Insertion Length B | 315 mm |
| Overall Length C | 321.6 mm |
| Diameter D | 37.7 mm |
| Diameter D1 | 18 mm |

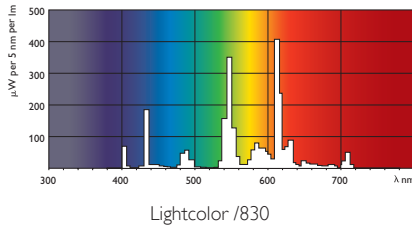
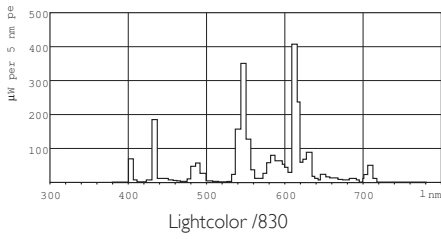
• Measuring Conditions

Dimensional drawing



| Product | A (Max) | B (Max) | C (Max) | D (Max) | D1 (Max) |
|-------------------------|---------|---------|---------|---------|----------|
| PL-L Xtra 24W/830/4P LT | 290 | 315 | 321.6 | 37.7 | 18 |

Photometric data



Lamps being part of this product family comply with Commission Regulation (EC) No 245/2009 – Ecodesign requirements, applicable from 13 April 2010.

1.3 Product information requirements on lamps

- Nominal and rated lamp wattage;
- Nominal and rated lamp luminous flux;
- Rated lamp efficacy at 100 h in standard conditions (25 °C, for T5 lamps at 35 °C). For fluorescent lamps both at 50 Hz (mains frequency) operation (where applicable) and at High Frequency (> 50 Hz) operation (where applicable) for the same rated luminous flux in all cases, indicating for High Frequency operation the calibration current of the test conditions and/or the rated voltage of the HF generator with the resistance. It shall be stated in a conspicuous manner that the power dissipated by auxiliary equipment such as ballasts is not included in the power consumed by the source;
- Rated lamp Lumen Maintenance Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
- Rated lamp Survival Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
- Lamp mercury content as X.X mg;
- Colour Rendering Index (Ra) of the lamp;
- Colour temperature of the lamp;
- Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C it shall be stated that the lamp is not suitable for indoor use at standard room temperatures;
- For fluorescent lamps without integrated ballast, the energy efficiency index(es) of ballasts as defined in Table 17 with which the lamp can operate.
See Table 17-EuP245.pdf for Table 17 – Energy efficiency index requirements for non-dimmable ballasts for fluorescent lamps.
For more information see: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:076:0017:0044:EN:PDF>



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2011, January 16
data subject to change