



MASTER TL5 High Output Secura

MASTER TL5 HO Secura 54W/830 UNP

This TL5 High Output Secura lamp (tube diameter 16 mm) has a protective coating that keeps glass and lamp components together in the event of accidental breakage. The lamp is easily identifiable by a blue ring at one end. Application areas are all places where glass shatters can disturb operations and can have an impact on product and people safety, e.g. the food and beverage industry. This lamp is compliant with HACCP regulations and supports HACCP certification.

Product data

• General Characteristics

| | |
|----------------------|-------------|
| System Description | High Output |
| Cap-Base | G5 |
| Cap-Base Information | Green Plate |
| Bulb | T5 [16 mm] |
| Life to 50% fail | 24000 hr |
| Preheat EL,3h | |
| Life to 10% fail | 19000 hr |
| Preheat EL,3h | |
| LSF HF Preheat | 85 % |
| 20000h Rated,3h | |
| LSF HF Preheat | 94 % |
| 16000h Rated,3h | |
| LSF HF Preheat | 95 % |
| 12000h Rated,3h | |
| LSF HF Preheat | 97 % |
| 8000h Rated,3h | |
| LSF HF Preheat | 98 % |
| 6000h Rated,3h | |
| LSF HF Preheat | 98 % |
| 4000h Rated,3h | |
| LSF HF Preheat | 99 % |
| 2000h Rated,3h | |

• Light Technical Characteristics

| | |
|---------------------------|--------------------|
| Color Code | 830 [CCT of 3000K] |
| Color Rendering Index | 85 Ra8 |
| Color Designation (text) | Warm White |
| Color Temperature | 3000 K |
| Chromaticity Coordinate X | 438 - |
| Chromaticity Coordinate Y | 403 - |

| | |
|--------------------------------|------------------------|
| Luminous Flux Lamp EL 25°C | 4450 Lm |
| Luminous Efficacy EL Top, 35°C | 93 Lm/W |
| Luminance Average EL Top, 35°C | 2.9 cd/cm ² |
| Luminous Flux Lamp EL 35°C | 5000 Lm |
| Lum Efficacy Rated HF 25°C | 82 Lm/W |
| Lum Efficacy Rated HF 35°C | 93 Lm/W |
| LLMF HF 20000h Rated | 88 % |
| LLMF HF 16000h Rated | 90 % |
| LLMF HF 12000h Rated | 91 % |
| LLMF HF 8000h Rated | 93 % |
| LLMF HF 6000h Rated | 94 % |
| LLMF HF 4000h Rated | 96 % |
| LLMF HF 2000h Rated | 96 % |
| Design Temperature | 35 C |

• Electrical Characteristics

| | |
|----------------------|---------|
| Lamp Wattage | 54 W |
| Lamp Voltage EL 25°C | 118 V |
| Lamp Current EL 25°C | 0.460 A |
| Dimmable | Yes |



MASTER TL5 High Output Secura

| | |
|----------------------------------|---------|
| Lamp Current EL 35°C | 0.460 A |
| Lamp Wattage EL 25°C, Rated | 54.3 W |
| Lamp Wattage EL 35°C, Rated | 53.8 W |
| Lamp Wattage EL 25°C, Nominal | 54 W |

• Environmental Characteristics

| | |
|----------------------------------|--------|
| Energy Efficiency Label (EEL) | A |
| Mercury (Hg) Content | 1.4 mg |

• Measuring Conditions

| | |
|-------------------------------|---------|
| Calibration Current | 0.460 A |
| HF Generator Rated Voltage | 235 V |
| Resistor | 255 ohm |

• Product Dimensions

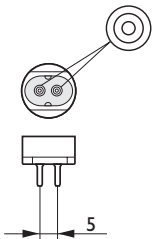
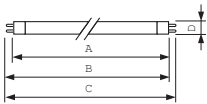
| | |
|-----------------------------|-----------------|
| Base Face to Base Face A | 1149.0 (max) mm |
|-----------------------------|-----------------|

| | |
|--------------------|-------------------------------|
| Insertion Length B | 1153.7 (min), 1156.1 (max) mm |
| Overall Length C | 1163.2 (max) mm |
| Diameter D | 17 (max) mm |

• Product Data

| | |
|--------------------------------|--|
| Order code | 927929183018 |
| Full product code | 927929183018 |
| Full product name | MASTER TL5 HO Secura 54W/830 UNP |
| Order product name | MASTER TL5 HO Secura 54W/830 UNP/40 |
| Pieces per pack | 1 |
| Packing configuration | 40 |
| Packs per outerbox | 40 |
| Bar code on pack - EAN1 | 8711500952295 |
| Bar code on outerbox - EAN3 | 8711500952301 |
| Logistic code(s) - 12NC | 927929183018 |
| ILCOS code | FDH-54/30/1B-L/P-G5-16/1150 |
| Net weight per piece | 162.900 gr |

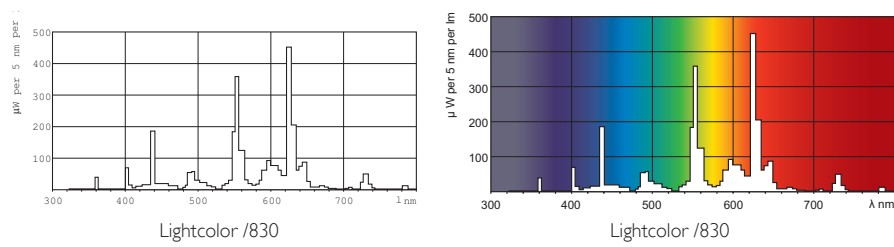
Dimensional drawing



G5, T5

| Product | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|-----------------------|---------|---------|---------|---------|---------|
| TL5 HO Secura 54W/830 | 1149.0 | 1153.7 | 1156.1 | 1163.2 | 17 |

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

- a) Nominal and rated lamp wattage;
 - b) Nominal and rated lamp luminous flux;
 - c) 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;
 - d) 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;
 - e) 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;
 - f) Lamp mercury content as X.X mg;
 - g) Colour Rendering Index (Ra) of the lamp;
 - h) Colour temperature of the lamp;
 - i) 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;
 - j) 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>



© 2011 Koninklijke Philips Electronics N.V.
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners.

www.philips.com/lighting

2011, November 6
data subject to change