



# MASTER TL-D Secura

## MASTER TL-D Secura 36W/840 1SL

This TL-D lamp has a protective coating that keeps glass and lamp components together in the event of accidental breakage. The lamp is easily identifiable by blue rings 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. The lamp has a Surlyn coating which blocks UV light. It is compliant with HACCP regulations.

### Product data

#### • General Characteristics

|                                |                                 |
|--------------------------------|---------------------------------|
| Cap-Base                       | G13 [Medium Bi-Pin Fluorescent] |
| Bulb                           | T8 [26 mm]                      |
| Life to 50% failures EM        | 15000 hr                        |
| Life to 50% fail Preheat EL,3h | 20000 hr                        |
| Life to 50% fail Nonpreh EL,3h | 12000 hr                        |
| Life to 10% fail Nonpreh EL,3h | 10000 hr                        |
| Life to 10% fail Preheat EL,3h | 17000 hr                        |
| Life to 10% failures EM        | 12000 hr                        |
| LSF EM 12000h Rated,3h cycle   | 90 %                            |
| LSF EM 8000h Rated, 3h cycle   | 95 %                            |
| LSF EM 6000h Rated, 3h cycle   | 96 %                            |
| LSF EM 4000h Rated, 3h cycle   | 97 %                            |
| LSF EM 2000h Rated, 3h cycle   | 99 %                            |

#### • Electrical Characteristics

|                               |         |
|-------------------------------|---------|
| Lamp Wattage                  | 36 W    |
| Dimmable                      | Yes     |
| Lamp Current EM 25°C          | 0.440 A |
| Lamp Wattage EM 25°C, Rated   | 36.0 W  |
| Lamp Wattage EM 25°C, Nominal | 36 W    |

|                      |       |
|----------------------|-------|
| Lamp Voltage EM 25°C | 103 V |
|----------------------|-------|

#### • Environmental Characteristics

|                               |        |
|-------------------------------|--------|
| Energy Efficiency Label (EEL) | A      |
| Mercury (Hg) Content          | 2.0 mg |

#### • Light Technical Characteristics

|                            |                        |
|----------------------------|------------------------|
| Color Code                 | 840 [CCT of 4000K]     |
| Color Rendering Index      | 85 Ra8                 |
| Color Designation (text)   | Cool White             |
| Color Temperature          | 4000 K                 |
| Chromaticity Coordinate X  | 381 -                  |
| Chromaticity Coordinate Y  | 379 -                  |
| Luminance Average EM       | 1.1 cd/cm <sup>2</sup> |
| Lum Efficacy Rated EM 25°C | 89 Lm/W                |
| LLMF EM 12000h Rated       | 91 %                   |
| LLMF EM 8000h Rated        | 93 %                   |
| LLMF EM 6000h Rated        | 94 %                   |
| LLMF EM 4000h Rated        | 95 %                   |
| LLMF EM 2000h Rated        | 96 %                   |



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Luminous Flux EM 25°C, Rated 3200 Lm  
 Luminous Flux EM 25°C, Nominal 3200 Lm  
 Design Temperature 25 C

• UV-related Characteristics

Erythema Radiation <=320nm 0.2 mW  
 Erythema Radiation >320nm 10 mW  
 Damage Factor D/fc 0.13 -

• Product Dimensions

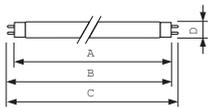
Base Face to Base Face A 1199.4 (max) mm  
 Insertion Length B 1204.1 (min), 1206.5 (max) mm  
 Overall Length C 1213.6 (max) mm

Diameter D 28 (max) mm

• Product Data

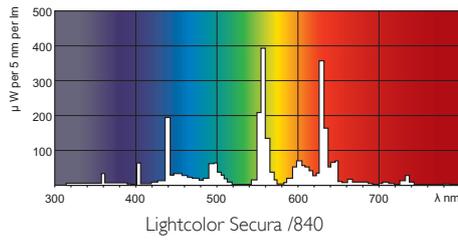
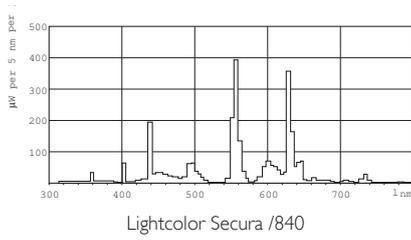
Order code 927921484076  
 Full product code 927921484076  
 Full product name MASTER TL-D Secura 36W/840 1SL  
 Order product name MASTER TL-D Secura 36W/840 1SL/25  
 Pieces per pack 1  
 Packing configuration 25  
 Packs per outerbox 25  
 Bar code on pack - EAN1 8711500640147  
 Bar code on outerbox - EAN3 8711500640154  
 Logistic code(s) - 12NC 927921484076  
 ILCOS code FD-36/40/1B-E-G13  
 Net weight per piece 195.500 gr

## Dimensional drawing



| Product             | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|---------------------|---------|---------|---------|---------|---------|
| TL-D 36W/840 Secura | 1199.4  | 1204.1  | 1206.5  | 1213.6  | 28      |

## 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, August 25  
data subject to change