



MASTER TL5 High Output Secura

MASTER TL5 HO Secura 49W/840 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	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 -

Luminous Flux Lamp EL 25°C	4250 Lm
Luminous Efficacy EL Top, 35°C	99 Lm/W
Luminance Average EL Top, 35°C	2.3 cd/cm ²
Luminous Flux Lamp EL 35°C	4850 Lm
Luminance Average EL 25°C	2.0 cd/cm ²
Lum Efficacy Rated HF 25°C	85.5 Lm/W
Lum Efficacy Rated HF 35°C	99 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	49 W
Lamp Voltage EL 25°C	195 V
Lamp Current EL 25°C	0.255 A



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MASTER TL5 High Output Secura

Dimmable	Yes
Lamp Current EL 35°C	0.260 A
Lamp Wattage EL 25°C, Rated	49.7 W
Lamp Wattage EL 35°C, Rated	49.3 W
Lamp Wattage EL 25°C, Nominal	49 W

• Environmental Characteristics

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

• Measuring Conditions

Calibration Current	0.255 A
HF Generator Rated Voltage	390 V
Resistor	765 ohm

• Product Dimensions

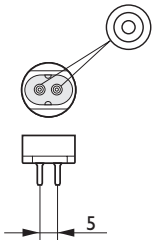
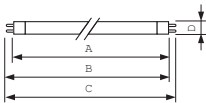
Base Face to Base Face A	1449.0 (max) mm
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Insertion Length B	1453.7 (min), 1456.1 (max) mm
Overall Length C	1463.2 (max) mm
Diameter D	17 (max) mm

• Product Data

Order code	927927684018
Full product code	927927684018
Full product name	MASTER TL5 HO Secura 49W/840 UNP
Order product name	MASTER TL5 HO Secura 49W/840 UNP/40
Pieces per pack	1
Packing configuration	40
Packs per outerbox	40
Bar code on pack - EAN1	8711500952271
Bar code on outerbox - EAN3	8711500952288
Logistic code(s) - 12NC	927927684018
ILCOS code	FDH-49/40/1B-L/P-G5-16/1450
Net weight per piece	132.000 gr

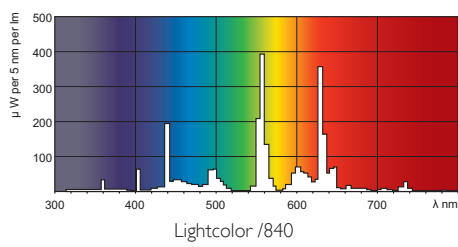
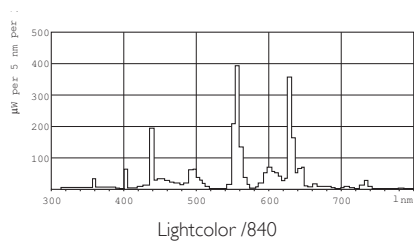
Dimensional drawing



G5, T5

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HO Secura 49W/840	1449.0	1453.7	1456.1	1463.2	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>



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data subject to change