



# MASTER TL-D HF Super 80

MASTER TL-D HF Super 80 16W/840 1SL

Fluorescent lamps with a diameter of 26 mm and argon gas filling

## Product data

### • General Characteristics

System Description	High Frequency [High Frequency]
Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Bulb	T8 [26 mm]
Life to 50% fail	20000 hr
Preheat EL,3h	
Life to 50% fail	12000 hr
Nonpreh EL,3h	
Life to 10% fail	10000 hr
Nonpreh EL,3h	
Life to 10% fail	17000 hr
Preheat EL,3h	
LSF HF Preheat	50 %
20000h Rated,3h	
LSF HF Preheat	91 %
16000h Rated,3h	
LSF HF Preheat	93 %
12000h Rated,3h	
LSF HF Preheat	95 %
8000h Rated,3h	
LSF HF Preheat	97 %
6000h Rated,3h	
LSF HF Preheat	98 %
4000h Rated,3h	
LSF HF Preheat	99 %
2000h Rated,3h	

### • Electrical Characteristics

Lamp Wattage	16 W
Lamp Voltage EL	64 V
25°C	
Lamp Current EL	0.255 A
25°C	
Dimmable	Yes
Lamp Wattage EL	16.0 W
25°C. Rated	

Lamp Wattage EL	16 W
25°C, Nominal	

### • Environmental Characteristics

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

### • Light Technical Characteristics

Color Code	840 [CCT of 4000K]
Color Rendering	85 Ra8
Index	
Color Designation	Cool White
(text)	
Color Temperature	4000 K
Chromaticity Coordinate X	384 -
Chromaticity Coordinate Y	381 -
Luminance Average	1.04 cd/cm2
EL	
Lum Efficacy Rated	87.5 Lm/W
HF 25°C	
LLMF HF 20000h	89 %
Rated	
LLMF HF 16000h	90 %
Rated	
LLMF HF 12000h	91 %
Rated	
LLMF HF 8000h	93 %
Rated	
LLMF HF 6000h	94 %
Rated	



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LLMF HF 4000h Rated	95 %
LLMF HF 2000h Rated	96 %
Luminous Flux EL 25°C, Rated	1400 Lm
Luminous Flux EL 25°C, Nominal	1400 Lm
Design Temperature	25 C

## • Product Dimensions

Base Face to Base Face A	589.8 (max) mm
Insertion Length B	594.5 (min), 596.9 (max) mm
Overall Length C	604 (max) mm
Diameter D	28 (max) mm

## • Measuring Conditions

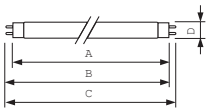
Calibration Current	0.255 A
HF Generator Rated Voltage	128 V

Resistor 250 ohm

## • Product Data

Order code	927924084023
Full product code	927924084023
Full product name	MASTER TL-D HF Super 80 16W/ 840 1SL
Order product name	MASTER TL-D HF Super 80 16W/ 840 1SL/25
Pieces per pack	1
Packing configuration	25
Packs per outerbox	25
Bar code on pack - EAN1	8711500631473
Bar code on outerbox - EAN3	8711500631480
Logistic code(s) - 12NC	927924084023
ILCOS code	FDH-16/40/1B-L/P-G13-26/600
Net weight per piece	78.400 gr

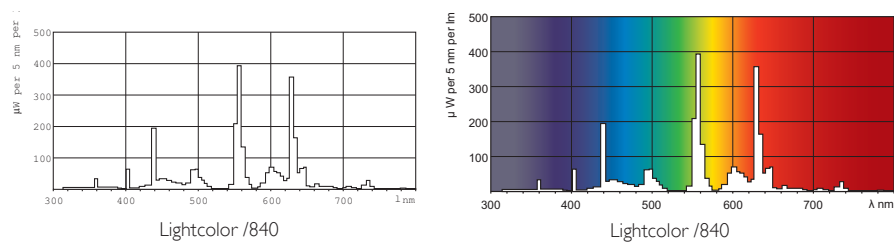
## Dimensional drawing



Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL-D HF 16W/840	589.8	594.5	596.9	604	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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data subject to change