



MASTER TL-D HF Super 80

MASTER TL-D HF Super 80 50W/840 1SL

The MASTER TL-D HF Super 80 lamp offers more lumens per watt and better color rendering than TL-D standard colors. Furthermore, it has a lower mercury content. The lamp is designed to be operated on special high-frequency electronic ballasts. It is not for general use.

Product data

• General Characteristics

System Description	High Frequency [High Frequency]
Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Bulb	T8 [26 mm]
Life to 10% fail	17000 hr
Preheat EL,3h	
Life to 10% fail	10000 hr
Nonpreh EL,3h	
Life to 50% fail	20000 hr
Preheat EL,3h	
Life to 50% fail	12000 hr
Nonpreh EL,3h	
LSF HF Preheat	99 %
2000h Rated,3h	
LSF HF Preheat	99 %
4000h Rated,3h	
LSF HF Preheat	99 %
6000h Rated,3h	
LSF HF Preheat	99 %
8000h Rated,3h	
LSF HF Preheat	99 %
12000h Rated,3h	
LSF HF Preheat	95 %
16000h Rated,3h	
LSF HF Preheat	50 %
20000h 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
Luminous Flux EL	5000 Lm
25°C, Rated	

Luminous Flux EL	5000 Lm
25°C, Nominal	
Lum Efficacy Rated	100 Lm/W
HF 25°C	
Luminance Average	1.44 cd/cm ²
EL	
LLMF HF 2000h	96 %
Rated	
LLMF HF 4000h	95 %
Rated	
LLMF HF 6000h	94 %
Rated	
LLMF HF 8000h	93 %
Rated	
LLMF HF 12000h	92 %
Rated	
LLMF HF 16000h	91 %
Rated	
LLMF HF 20000h	90 %
Rated	
Design Temperature	25 C
Chromaticity Coordinate X	384 -
Chromaticity Coordinate Y	383 -

• Electrical Characteristics

Lamp Wattage	50 W
Lamp Wattage EL	50.0 W
25°C, Rated	
Lamp Wattage EL	50 W
25°C, Nominal	
Lamp Voltage EL	142 V
25°C	
Lamp Current EL	0.355 A
25°C	



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Dimmable Yes

Overall Length C 1514.2 (max) mm
Diameter D 28 (max) mm

• Environmental Characteristics

Energy Efficiency Label (EEL) A+
Mercury (Hg) Content 2.0 mg
Energy consumption kWh/1000h 58 kWh

• Product Data

Order code 927925084014
Full product code 927925084014
Full product name MASTER TL-D HF Super 80 50W/840 1SL
Order product name MASTER TL-D HF Super 80 50W/840 1SL/25
Pieces per pack 1
Packing configuration 25
Packs per outerbox 25
Bar code on pack - EAN1 8711500631596
Bar code on outerbox - EAN3 8711500631602
Logistic code(s) - 12NC 927925084014
ILCOS code FDH-50/40/1B-L/P-G13-26/1500
Net weight per piece 186.000 gr

• Measuring Conditions

Calibration Current 0.355 A
HF Generator Rated Voltage 284 V
Resistor 400 ohm

• Product Dimensions

Base Face to Base 1500.0 (max) mm
Face A
Insertion Length B 1504.7 (min), 1507.1 (max) mm

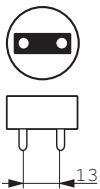
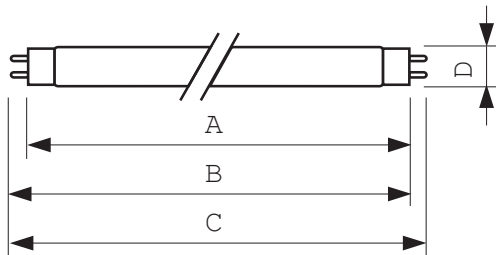
Warnings and Safety

- Special electronic gear must be used

Dimensional drawing

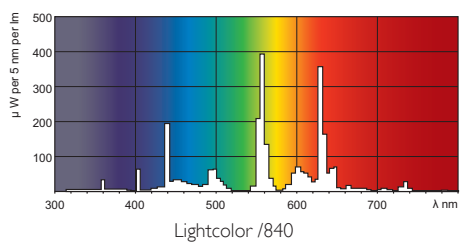
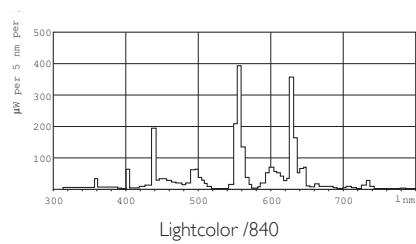
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Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL-D HF 50W/840	1500.0	1504.7	1507.1	1514.2	28



G13

Photometric data



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data subject to change