



# MASTER TL-D Super 80

MASTER TL-D Super 80 23W/840 1SL

The MASTER TL-D 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 can be operated in existing TL-D luminaires.

## Product data

### • General Characteristics

Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Cap-Base Information	Green Plate
Bulb	T8 [26 mm]
Life to 10% failures EM	12000 hr
Life to 10% fail Preheat EL,3h	17000 hr
Life to 10% fail Nonpreh EL,3h	10000 hr
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
LSF EM 2000h Rated, 3h cycle	99 %
LSF EM 4000h Rated, 3h cycle	99 %
LSF EM 6000h Rated, 3h cycle	99 %
LSF EM 8000h Rated, 3h cycle	99 %
LSF EM 12000h Rated,3h cycle	89 %
LSF EM 16000h Rated,3h cycle	33 %
LSF EM 20000h Rated,3h cycle	2 %

### • Light Technical Characteristics

Color Code	840 [CCT of 4000K]
Color Rendering Index	82 Ra8

Color Designation (text)	Cool White
Color Temperature	4000 K
Luminous Flux EM 25°C, Rated	2050 Lm
Luminous Flux EM 25°C, Nominal	2050 Lm
Lum Efficacy Rated EM 25°C	89 Lm/W
Luminance Average EM	0.95 cd/cm <sup>2</sup>
LLMF EM 2000h Rated	96 %
LLMF EM 4000h Rated	95 %
LLMF EM 6000h Rated	94 %
LLMF EM 8000h Rated	93 %
LLMF EM 12000h Rated	92 %
LLMF EM 16000h Rated	91 %
LLMF EM 20000h Rated	90 %
Design Temperature	25 C
Chromaticity Coordinate X	383 -
Chromaticity Coordinate Y	386 -

### • Electrical Characteristics

Lamp Wattage	23 W
Lamp Wattage EM 25°C, Nominal	23 W



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Lamp Wattage EM 25°C, Rated	23.0 W
Lamp Voltage EM 25°C	95 V
Lamp Current EM 25°C	0.295 A
Dimmable	Yes

### • Environmental Characteristics

Energy Efficiency Label (EEL)	A
Mercury (Hg) Content	2.0 mg
Energy consumption kWh/1000h	28 kWh

### • Product Dimensions

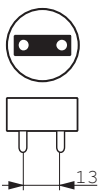
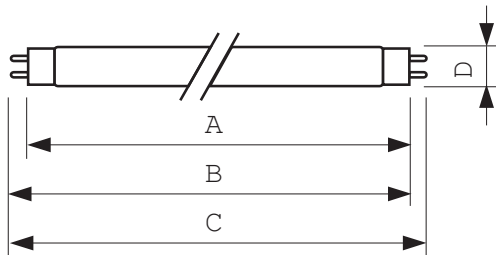
Base Face to Base Face A	970.0 (max) mm
Insertion Length B	974.7 (min), 977.1 (max) mm

Overall Length C	984.2 (max) mm
Diameter D	28 (max) mm

### • Product Data

Order code	927922584014
Full product code	927922584014
Full product name	MASTER TL-D Super 80 23W/840 1SL
Order product name	MASTER TL-D Super 80 23W/840 1SL/25
Pieces per pack	1
Packing configuration	25
Packs per outerbox	25
Bar code on pack - EAN1	8711500558701
Bar code on outerbox - EAN3	8711500558725
Logistic code(s) - 12NC	927922584014
ILCOS code	FD-23/40/1B-E-G13
Net weight per piece	120.000 gr

## Dimensional drawing



G13

### MASTER TL-D Super 80 23W/840 1SL

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL-D 23W/840	970.0	974.7	977.1	984.2	28

## Photometric data



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2015, February 23  
data subject to change