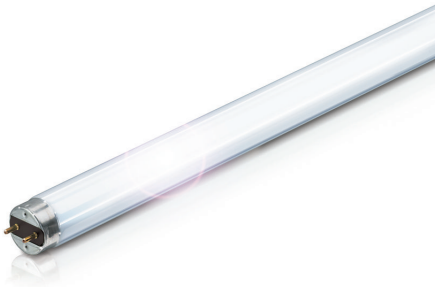
PHILIPS

Lighting



Efficient fluorescent lighting with improved color rendering

MASTER TL-D HF Super 80

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.

Benefits

- Relatively high efficacy, both initially and during lamp lifetime
- Smooth start
- Stable behavior in dimming operation with cool environments

Features

- Special lamp designed for High Frequency operation
- Highly efficient 3-band fluorescent coating
- Low mercury dose

Application

- Suitable for use in a wide range of luminaires for TL-D fluorescent lamps for 'human' applications such as schools, offices, shops, factory halls etc.

Warnings and Safety

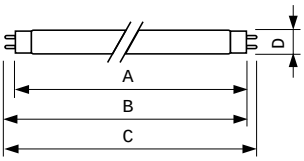
- Special electronic gear must be used
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

MASTER TL-D HF Super 80

Versions

G13, T8

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL-D HF Super 80 32W/840 SLV/25	28 mm	1199.4 mm	1206.5 mm	1204.1 mm	1213.6 mm
MASTER TL-D HF Super 80 16W/840 SLV/25	28 mm	589.8 mm	596.9 mm	594.5 mm	604 mm
MASTER TL-D HF Super 80 50W/840 SLV/25	28 mm	1500.0 mm	1507.1 mm	1504.7 mm	1514.2 mm

MASTER TL-D HF Super 80

Approval and Application	
Mercury (Hg) Content (Max)	2 mg
Mercury (Hg) Content (Nom)	2.0 mg

Controls and Dimming	
Dimmable	Yes

General Information	
Cap-Base	G13
Life To 50% Failures Preheat (Nom)	20000 h
LSF Preheat 16000 h Rated	95 %
LSF Preheat 20000 h Rated	50 %
LSF Preheat 2000 h Rated	99 %
LSF Preheat 4000 h Rated	99 %
LSF Preheat 6000 h Rated	99 %
LSF Preheat 8000 h Rated	99 %
System Description	High Frequency

Light Technical	
Chromaticity Coordinate X (Nom)	0.38
Chromaticity Coordinate Y (Nom)	0.38
Color Code	840
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 2000 h Rated	96 %
LLMF 20000 h Rated	90 %
LLMF 4000 h Rated	95 %
LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %

Mechanical and Housing	
Bulb Shape	T8

Temperature	
Design Temperature (Nom)	25 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927924084023	MASTER TL-D HF Super 80 16W/840 SLV/25	17 kWh
927924584023	MASTER TL-D HF Super 80 32W/840 SLV/25	33 kWh
927925084014	MASTER TL-D HF Super 80 50W/840 SLV/25	50 kWh

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927924084023	MASTER TL-D HF Super 80 16W/840 SLV/25	0.255 A	16.5 W
927924584023	MASTER TL-D HF Super 80 32W/840 SLV/25	0.255 A	32.4 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927925084014	MASTER TL-D HF Super 80 50W/840 SLV/25	0.355 A	50.0 W

Light Technical

MASTER TL-D HF Super 80

Order Code	Full Product Name	Color Rendering Index (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927924084023	MASTER TL-D HF Super 80 16W/840 SLV/25	82	87.5 lm/W	1400 lm	1400 lm
927924584023	MASTER TL-D HF Super 80 32W/840 SLV/25	82	100 lm/W	3120 lm	3200 lm
927925084014	MASTER TL-D HF Super 80 50W/840 SLV/25	81	100 lm/W	5000 lm	5000 lm