

Fluorescent lighting is efficient and economical. The efficacy (lumen/watt) of all fluorescent lamps is high compared to most other light sources.

Different luminaires are available for various purposes.

TL-D lamps are low-pressure mercury discharge lamps with a clear tubular 26 mm envelope.

The tube wall is internally covered with a mixture of fluorescent powders.

MASTER TL-D HF Super 80 colour lamps are produced with special fluorescent powder (/80 colours), which leads to a good colour rendering index (C.R.I. > 80) and a high efficacy. MASTER TL-D HF Super 80 colour lamps are used in 'human applications' like schools, offices, shops, factory halls and so on.

The use of /80 colour phosphors also results in a high initial lumen output and an excellent lumen maintenance.

The initial efficacy and the efficacy during lifetime is relatively high.

MASTER TL-D HF Super 80 colour lamps have an argon gas filling. They can be used on special HF gear.

The efficacy of a HF system is higher than conventional gear.

The colour designation of MASTER TL-D lamps creates a certain atmosphere. It varies from warm white to cool daylight.

The colour designation is determined by the colour temperature of the lamp.

MASTER TL-D HF Super 80 is a breakthrough in TL lighting.

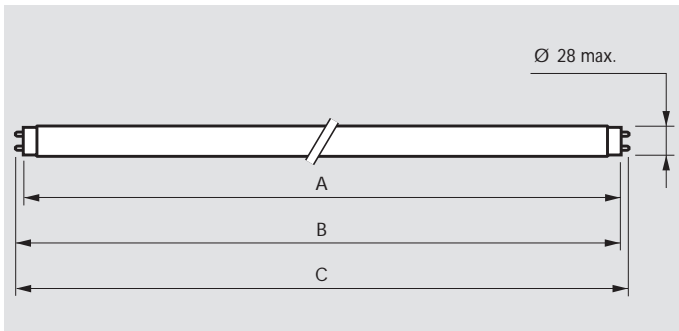
Advanced coating technology reduces the mercury absorption by the glass wall and the fluorescent powders.

As a result the lumen maintenance has been improved.

MASTER TL-D HF Super 80 lamps contain only 3 mg of mercury.

Recyclable

MASTER TL-D HF Super 80 lamps are recyclable: materials (glass, metal, fluorescent powder, mercury) from end-of-life lamps can be recycled in the production of new TL lamps if the right disassembly technology is used. All MASTER TL-D HF Super 80 lamps are produced with an end-cap with a green bottom plate to highlight the environmental benefits of these lamps, especially recyclability.



Dimensions in mm

Type	A max.	B min.	B max.	C min.
TL-D HF 16W	589.8	594.5	596.9	604.0
TL-D HF 32W	1199.4	1204.1	1206.5	1213.6
TL-D HF 50W	1500.0	1504.7	1507.1	1514.2

Green cap

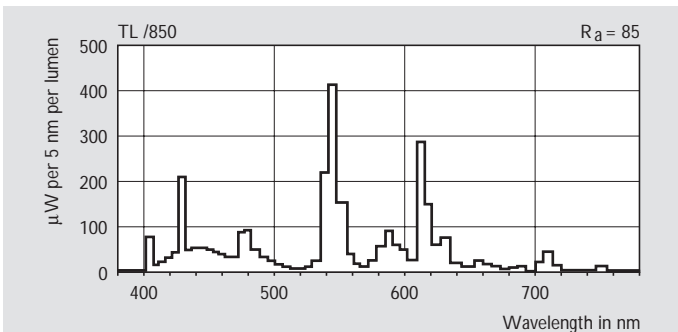
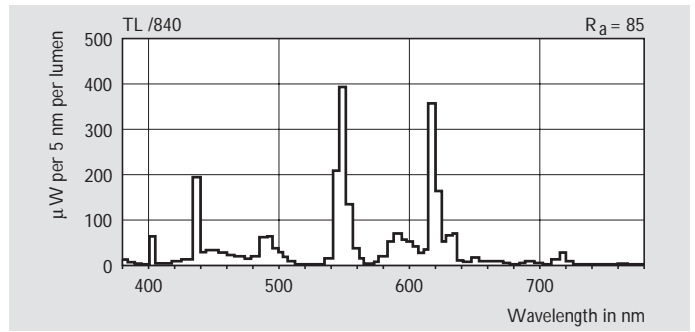
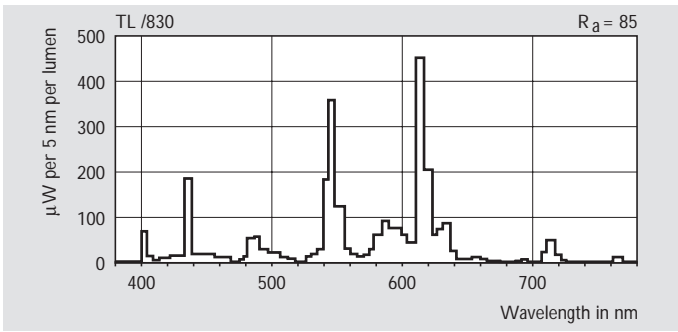


Commercial name	Type	Cap/ base	Lamp voltage ¹⁾	Lamp current ¹⁾	Colour designation	Correlated colour temperature K	Lumen output ¹⁾ lm	Average luminance ¹⁾ cd/cm ²	Nett weight g	EOC
			V	A						
/830										
MASTER TL-D Super 80 HF	TL-D HF 16W /830	G13	64	0.26	WARM WHITE	3000	1400	1.04	100	631442
MASTER TL-D Super 80 HF	TL-D HF 32W /830	G13	128	0.26	WARM WHITE	3000	3200	1.19	186	631503
MASTER TL-D Super 80 HF	TL-D HF 50W /830	G13	142	0.36	WARM WHITE	3000	5000	1.44	233	631565
/840										
MASTER TL-D Super 80 HF	TL-D HF 16W /840	G13	64	0.26	COOL WHITE	4000	1400	1.04	100	631473
MASTER TL-D Super 80 HF	TL-D HF 32W /840	G13	128	0.26	COOL WHITE	4000	3200	1.19	186	631534
MASTER TL-D Super 80 HF	TL-D HF 50W /840	G13	142	0.36	COOL WHITE	4000	5000	1.44	233	631596
/850										
MASTER TL-D Super 80 HF	TL-D HF 32W /850	G13	128	0.26	DAYLIGHT	5000	3010	1.10	186	641830
/865										
MASTER TL-D Super 80 HF	TL-D HF 32W /865	G13	128	0.26	COOL DAYLIGHT	6500	2920	1.10	186	559302

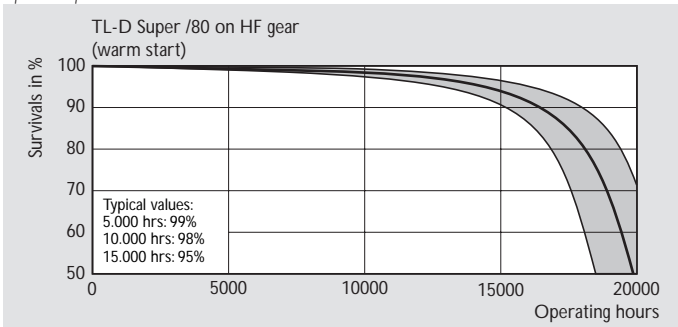
¹⁾ HF gear

Fluorescent lamps

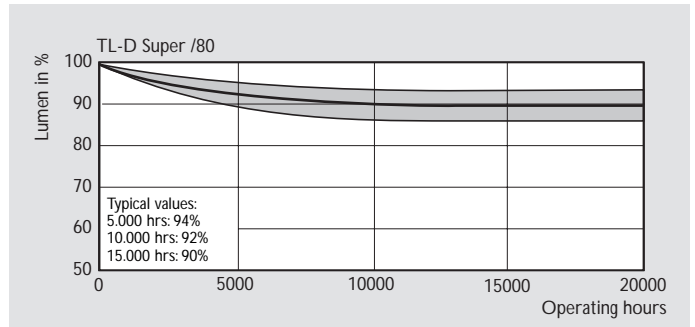
MASTER TL-D Super 80 HF



Spectral power distributions



Life expectancy



Lumen maintenance

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