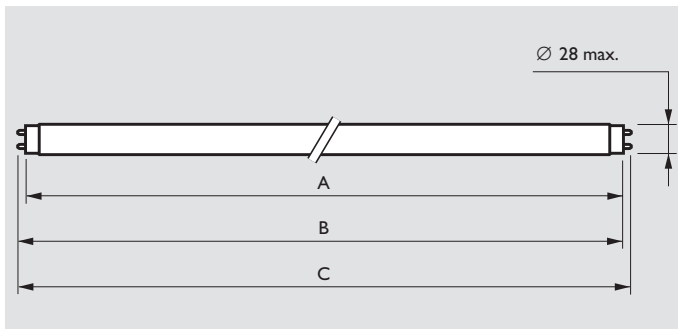
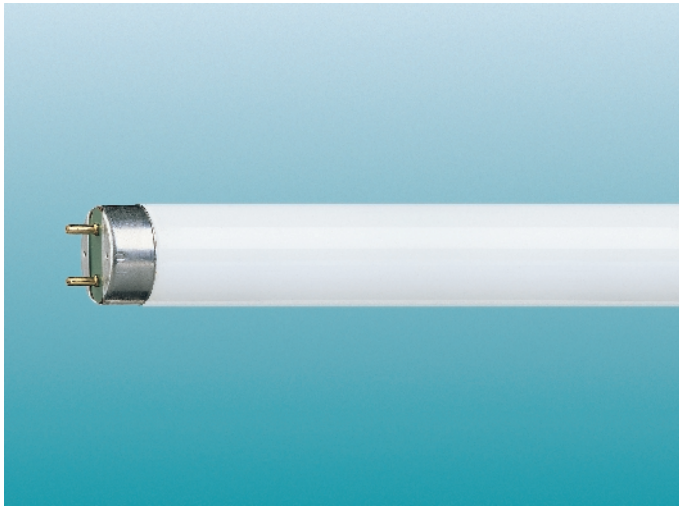


# Fluorescent lamps

## MASTER 'TL'D Super 80 HF



Dimensions in mm

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

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 NG 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 NG 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 NG 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 '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 New Generation 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 NG lamps contain only 3 mg of mercury.

### Recyclable

'TL'D HF Super /80 New Generation 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 New Generation lamps are produced with an end-cap with a green bottom plate to highlight the environmental benefits of these lamps, especially recyclability.

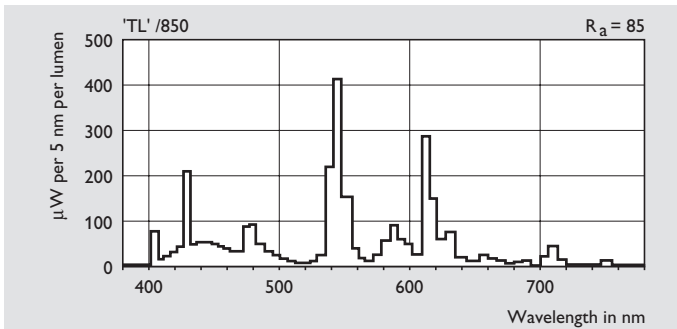
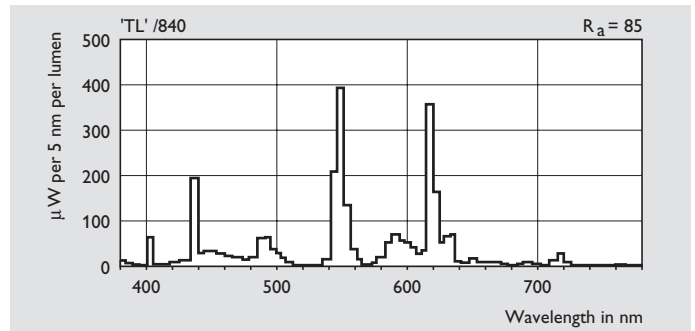
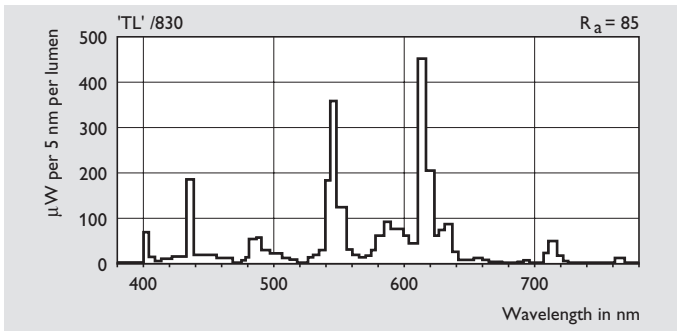
Commercial name	Type	Cap/ base	Lamp voltage <sup>1)</sup> V	Lamp current <sup>1)</sup> A	Colour designation	Correlated colour temperature K	Lumen output <sup>1)</sup> lm	Average luminance <sup>1)</sup> cd/cm <sup>2</sup>	Nett weight g	EOC
<b>/830</b>										
MASTER TL-D Super 80 HF	MASTER 'TL'D HF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

<sup>1)</sup> HF gear

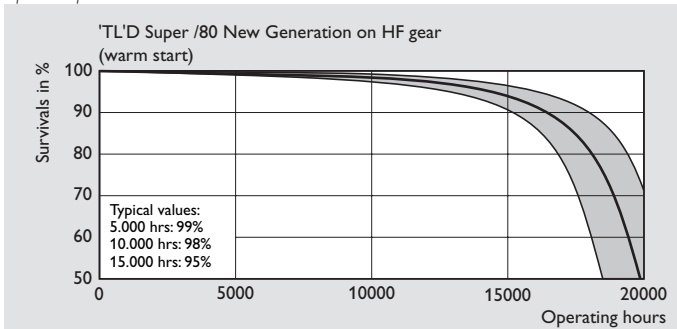


# Fluorescent lamps

# MASTER 'TL'D Super 80 HF



Spectral power distributions



Life expectancy



Lumen maintenance