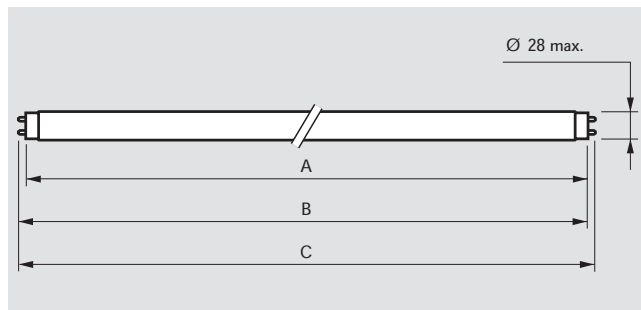
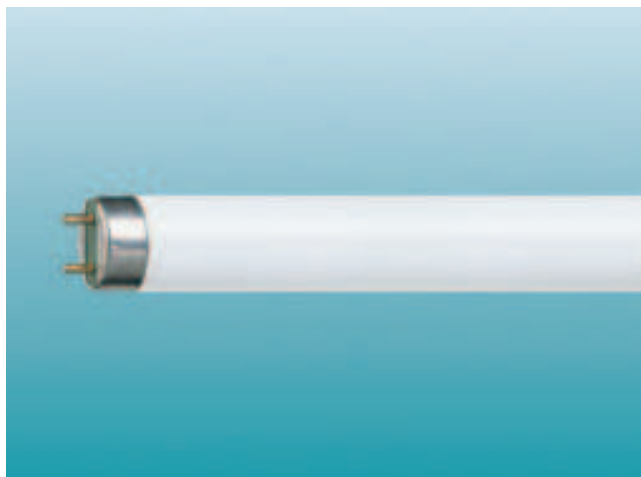




Dimensions in mm

Type	A max.	B min.	B max.	C max.
TL-D 18W	589.8	594.5	596.9	604.0
TL-D 23W/36W-1	970.0	974.7	977.1	984.2
TL-D 30W	894.6	899.3	901.7	908.8
TL-D 36W	1199.4	1204.1	1206.5	1213.6
TL-D 38W	1047.0	1051.7	1054.1	1061.2
TL-D 58W	1500.0	1504.7	1507.1	1514.2
TL-D 70W	1763.8	1768.5	1770.9	1778.0

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. MASTER 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 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 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 Super /80 colour lamps can be used on conventional gear or HF gear. The efficacy of an 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 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 Super /80 lamps contain only 3 mg of mercury (except for TL-D 70W type).

Recyclable

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

Green cap

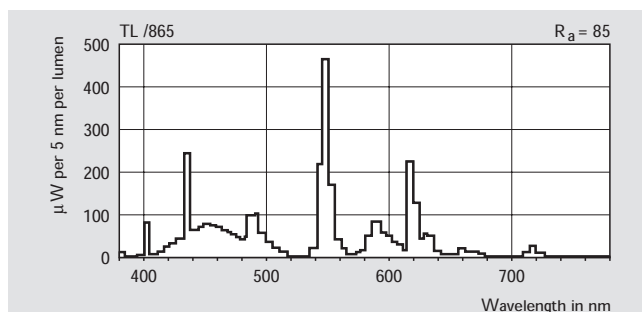
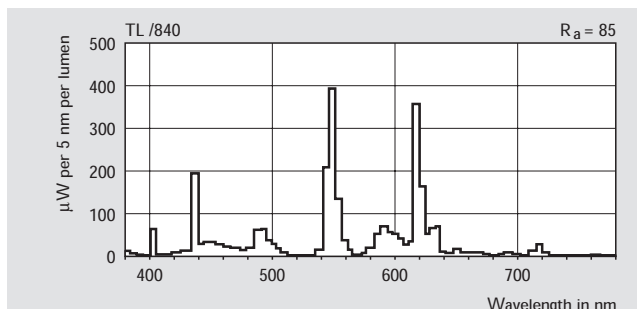
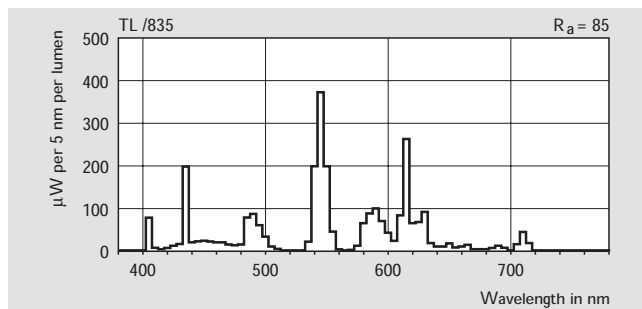
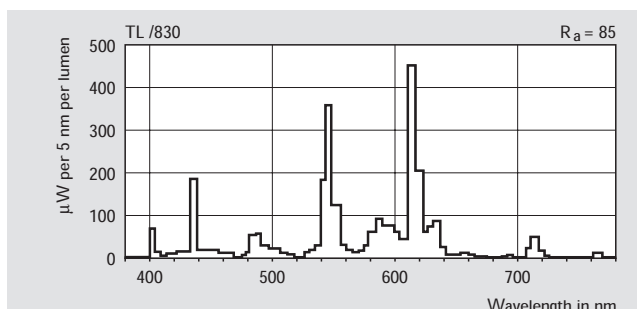
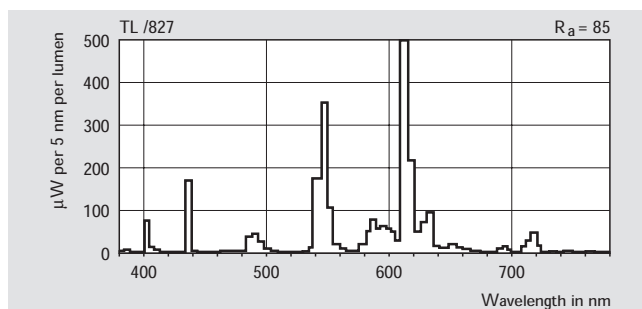


Commercial name	Type	Cap/ base	Lamp voltage ¹⁾	Lamp current ¹⁾	Colour designation	Correlated colour temperature	Lumen output ¹⁾	Average luminance ¹⁾	Nett weight	EOC
			V	A		K	lm	cd/cm ²	g	
/827										
MASTER TL-D Super 80	TL-D 18W /827	G13	59	0.36	INCAND. WHITE	2700	1350	1.00	100	631626
MASTER TL-D Super 80	TL-D 30W /827	G13	98	0.36	INCAND. WHITE	2700	2400	1.10	145	631800
MASTER TL-D Super 80	TL-D 36W /827	G13	103	0.44	INCAND. WHITE	2700	3350	1.25	186	631923
MASTER TL-D Super 80	TL-D 58W /827	G13	111	0.67	INCAND. WHITE	2700	5200	1.50	233	632104
/830										
MASTER TL-D Super 80	TL-D 18W /830	G13	59	0.36	WARM WHITE	3000	1350	1.00	100	631657
MASTER TL-D Super 80	TL-D 23W /830	G13	95	0.30	WARM WHITE	3000	2050	0.95	161	558633
MASTER TL-D Super 80	TL-D 30W /830	G13	98	0.36	WARM WHITE	3000	2400	1.10	145	631831
MASTER TL-D Super 80	TL-D 36W /830	G13	103	0.44	WARM WHITE	3000	3350	1.25	186	631954
MASTER TL-D Super 80	TL-D 36W-1 /830	G13	80	0.56	WARM WHITE	3000	3100	1.40	161	558749
MASTER TL-D Super 80	TL-D 38W /830	G13	104	0.43	WARM WHITE	3000	3350	1.40	162	558800
MASTER TL-D Super 80	TL-D 58W /830	G13	111	0.67	WARM WHITE	3000	5200	1.50	233	632135
MASTER TL-D Super 80	TL-D 70W /830	G13	132	0.69	WARM WHITE	3000	6200	1.50	272	615985

*) conventional gear

Commercial name	Type	Cap/ base	Lamp voltage ¹⁾ V	Lamp current ¹⁾ A	Colour designation	Correlated colour temperature K	Lumen output ¹⁾ lm	Average luminance ¹⁾ cd/cm ²	Nett weight g	EOC
/835										
MASTER TL-D Super 80	TL-D 18W /835	G13	59	0.36	WHITE	3500	1350	0.95	100	631688
MASTER TL-D Super 80	TL-D 36W /835	G13	103	0.44	WHITE	3500	3350	0.95	186	631985
MASTER TL-D Super 80	TL-D 58W /835	G13	111	0.67	WHITE	3500	5200	0.95	233	632166
MASTER TL-D Super 80	TL-D 70W /835	G13	132	0.69	WHITE	3500	6350	0.95	272	642738
/840										
MASTER TL-D Super 80	TL-D 18W /840	G13	59	0.36	COOL WHITE	4000	1350	1.00	100	631718
MASTER TL-D Super 80	TL-D 23W /840	G13	95	0.30	COOL WHITE	4000	2050	0.95	161	558701
MASTER TL-D Super 80	TL-D 30W /840	G13	98	0.36	COOL WHITE	4000	2400	1.10	145	631862
MASTER TL-D Super 80	TL-D 36W /840	G13	103	0.44	COOL WHITE	4000	3350	1.25	186	632012
MASTER TL-D Super 80	TL-D 36W-1 /840	G13	80	0.56	COOL WHITE	4000	3100	1.40	161	558770
MASTER TL-D Super 80	TL-D 38W /840	G13	104	0.43	COOL WHITE	4000	3350	1.40	162	558831
MASTER TL-D Super 80	TL-D 58W /840	G13	111	0.67	COOL WHITE	4000	5200	1.50	233	632197
MASTER TL-D Super 80	TL-D 70W /840	G13	132	0.69	COOL WHITE	4000	6200	1.50	272	615923
/865										
MASTER TL-D Super 80	TL-D 18W /865	G13	59	0.36	COOL DAYLIGHT	6500	1300	0.95	100	631770
MASTER TL-D Super 80	TL-D 30W /865	G13	98	0.36	COOL DAYLIGHT	6500	2300	1.05	145	631893
MASTER TL-D Super 80	TL-D 36W /865	G13	103	0.44	COOL DAYLIGHT	6500	3250	1.20	186	632074
MASTER TL-D Super 80	TL-D 58W /865	G13	111	0.67	COOL DAYLIGHT	6500	5000	1.45	233	632258

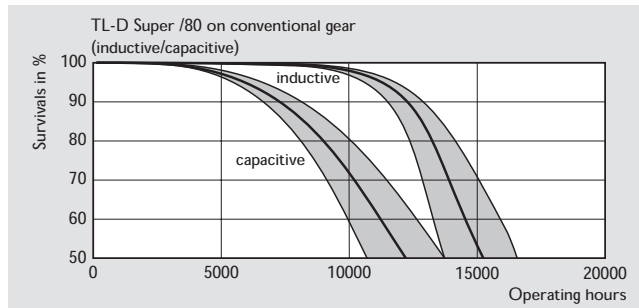
*) conventional gear



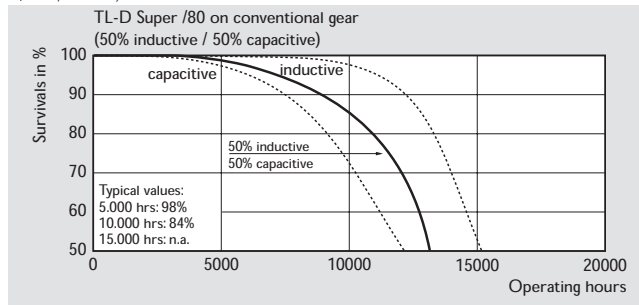
Spectral power distributions

Fluorescent lamps

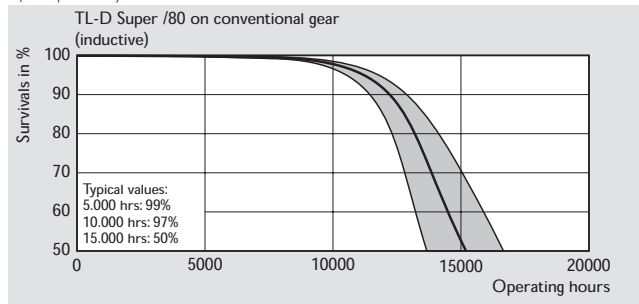
MASTER TL-D Super 80



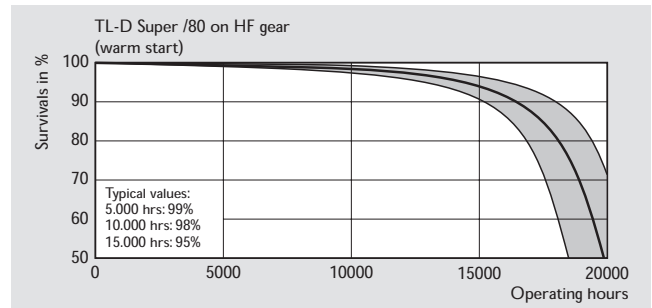
Life expectancy



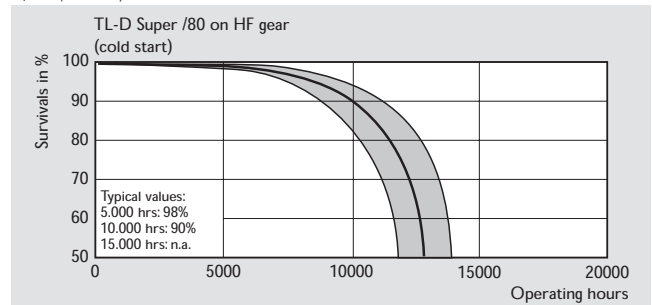
Life expectancy



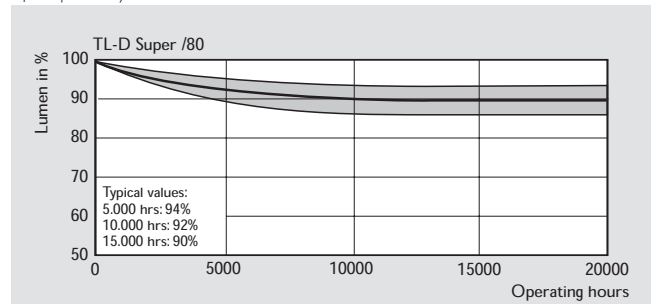
Life expectancy



Life expectancy



Life expectancy



Lumen maintenance

