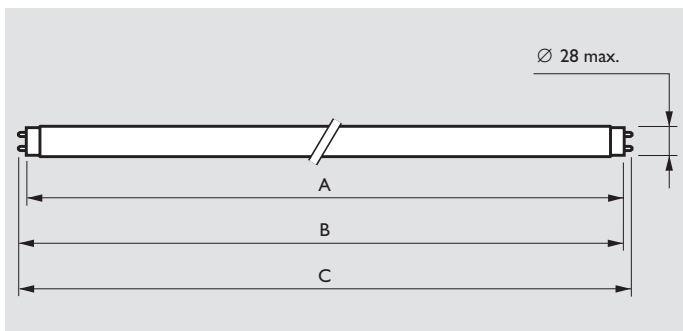
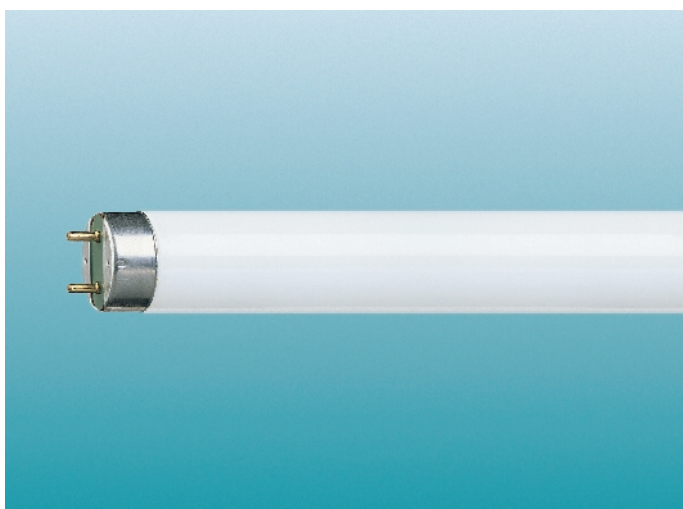


Fluorescent lamps

MASTER 'TL'D Super 80



Dimensions in mm

Type	A max.	B min.	B max.	C max.
'TL'D 15W	437.4	442.1	444.5	451.6
'TL'D 16W	720.0	724.7	727.1	734.2
'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.

'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.

'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.

'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.

'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 '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.

'TL'D 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.

'TL'D Super /80 New Generation lamps contain only 3 mg of mercury (except for 'TL'D 70W type).

Recyclable

'TL'D 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 'TL'D 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		Colour designation	Correlated colour temperature	Lumen output ¹⁾	Average luminance ²⁾	Nett weight	EOC
			voltage ³⁾	current ¹⁾						
			V	A	K		lm	cd/cm ²	g	
/827										
MASTER TL-D Super 80	'TL'D 15W /827	G13	51	0.34	INCAND. LIGHT	2700	1000	1.00	76	702784
MASTER TL-D Super 80	'TL'D 16W /827	G13	95	0.20	INCAND. LIGHT	2700	1200	0.75	125	641571
MASTER TL-D Super 80	'TL'D 18W /827 NG	G13	59	0.36	INCAND. LIGHT	2700	1350	1.00	100	631626
MASTER TL-D Super 80	'TL'D 23W /827	G13				2700	2050			558602
MASTER TL-D Super 80	'TL'D 30W /827 NG	G13	98	0.36	INCAND. LIGHT	2700	2400	1.10	145	631800
MASTER TL-D Super 80	'TL'D 36W /827 NG	G13	103	0.44	INCAND. LIGHT	2700	3350	1.25	186	631923
MASTER TL-D Super 80	'TL'D 58W /827 NG	G13	111	0.67	INCAND. LIGHT	2700	5200	1.50	233	632104
/830										
MASTER TL-D Super 80	'TL'D 15W /830	G13	51	0.34	WARM WHITE	3000	1000	1.00	76	702791
MASTER TL-D Super 80	'TL'D 18W /830 NG	G13	59	0.36	WARM WHITE	3000	1350	1.00	100	631657
MASTER TL-D Super 80	'TL'D 23W /830 NG	G13	95	0.30	WARM WHITE	3000	2050	0.95	161	558633
MASTER TL-D Super 80	'TL'D 30W /830 NG	G13	98	0.36	WARM WHITE	3000	2400	1.10	145	631831
MASTER TL-D Super 80	'TL'D 36W /830 NG	G13	103	0.44	WARM WHITE	3000	3350	1.25	186	631954
MASTER TL-D Super 80	'TL'D 36W-1 /830 NG	G13	80	0.56	WARM WHITE	3000	3100	1.40	161	558749
MASTER TL-D Super 80	'TL'D 38W /830 NG	G13	104	0.43	WARM WHITE	3000	3350	1.40	162	558800
MASTER TL-D Super 80	'TL'D 58W /830 NG	G13	111	0.67	WARM WHITE	3000	5200	1.50	233	632135
MASTER TL-D Super 80	'TL'D 70W /830 NG	G13	132	0.69	WARM WHITE	3000	6200	1.50	272	615985

*) conventional gear



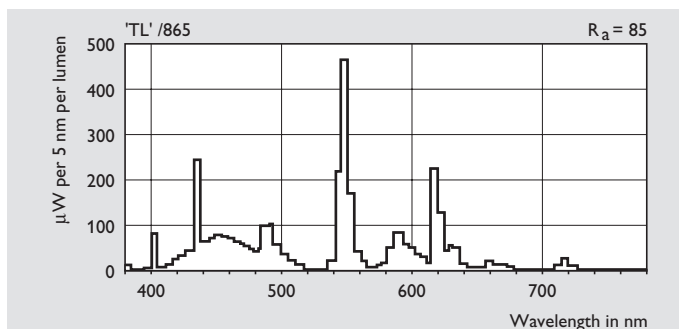
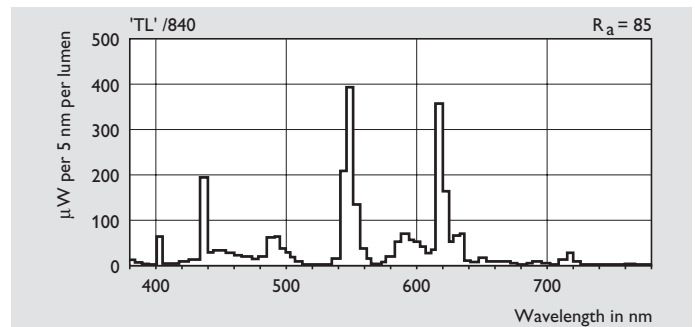
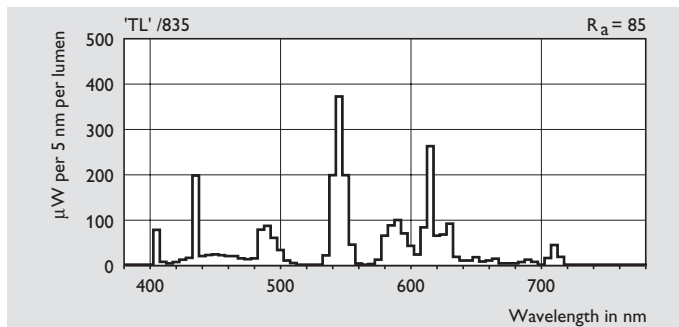
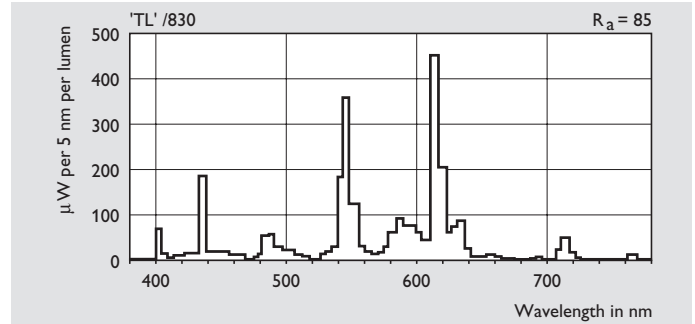
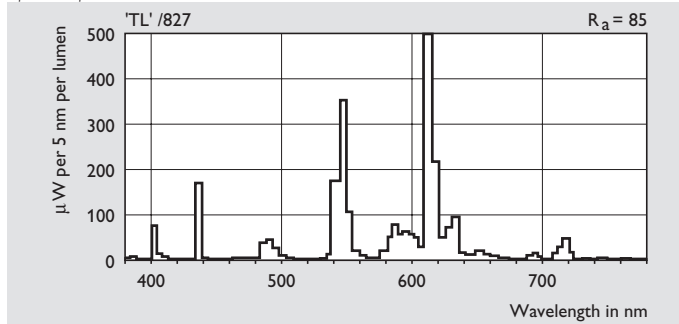
Fluorescent lamps

MASTER 'TL'D Super 80

Commercial name	Type	Cap/ base	Lamp voltage ¹⁾	Lamp current ¹⁾	Colour designation	Correlated colour temperature K	Lumen output ²⁾ lm	Average luminance ³⁾ cd/cm ²	Nett weight g	EOC
			V	A						
/835										
MASTER TL-D Super 80	'TL'D 18W /835 NG	G13	59	0.36	WHITE 3500	3500	1350	0.95	100	631688
MASTER TL-D Super 80	'TL'D 36W /835 NG	G13	103	0.44	WHITE 3500	3500	3350	0.95	186	631985
MASTER TL-D Super 80	'TL'D 58W /835 NG	G13	111	0.67	WHITE 3500	3500	5200	0.95	233	632166
MASTER TL-D Super 80	'TL'D 70W /835	G13	132	0.69	WHITE 3500	3500	6350	0.95	272	642738
/840										
MASTER TL-D Super 80	'TL'D 15W /840	G13	51	0.34	COOL WHITE	4000	1000	1.00	76	702807
MASTER TL-D Super 80	'TL'D 18W /840 NG	G13	59	0.36	COOL WHITE	4000	1350	1.00	100	631718
MASTER TL-D Super 80	'TL'D 23W /840 NG	G13	95	0.30	COOL WHITE	4000	2050	0.95	161	558701
MASTER TL-D Super 80	'TL'D 30W /840 NG	G13	98	0.36	COOL WHITE	4000	2400	1.10	145	631862
MASTER TL-D Super 80	'TL'D 36W /840 NG	G13	103	0.44	COOL WHITE	4000	3350	1.25	186	632012
MASTER TL-D Super 80	'TL'D 36W-1 /840 NG	G13	80	0.56	COOL WHITE	4000	3100	1.40	161	558770
MASTER TL-D Super 80	'TL'D 38W /840 NG	G13	104	0.43	COOL WHITE	4000	3350	1.40	162	558831
MASTER TL-D Super 80	'TL'D 58W /840 NG	G13	111	0.67	COOL WHITE	4000	5200	1.50	233	632197
MASTER TL-D Super 80	'TL'D 70W /840 NG	G13	132	0.69	COOL WHITE	4000	6200	1.50	272	615923
/865										
MASTER TL-D Super 80	'TL'D 18W /865 NG	G13	59	0.36	COOL DAYLIGHT	6500	1300	0.95	100	631770
MASTER TL-D Super 80	'TL'D 30W /865 NG	G13	98	0.36	COOL DAYLIGHT	6500	2300	1.05	145	631893
MASTER TL-D Super 80	'TL'D 36W /865 NG	G13	103	0.44	COOL DAYLIGHT	6500	3250	1.20	186	632074
MASTER TL-D Super 80	'TL'D 58W /865 NG	G13	111	0.67	COOL DAYLIGHT	6500	5000	1.45	233	632258

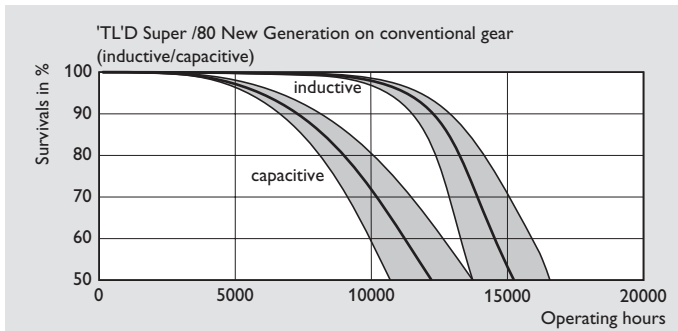
¹⁾ conventional gear

Spectral power distributions

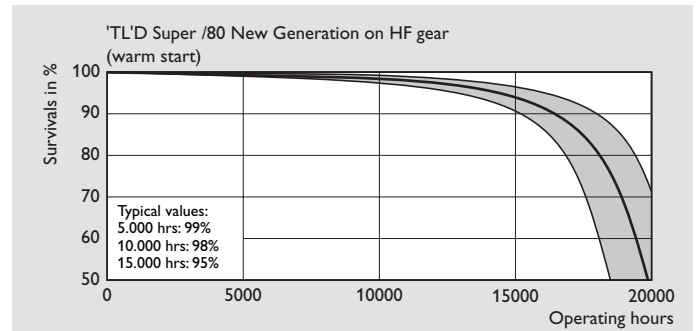


Fluorescent lamps

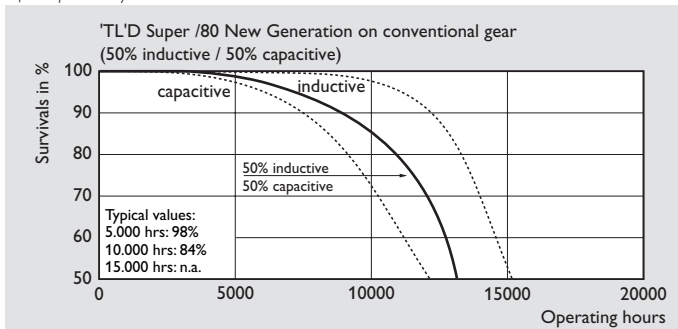
MASTER 'TL'D Super 80



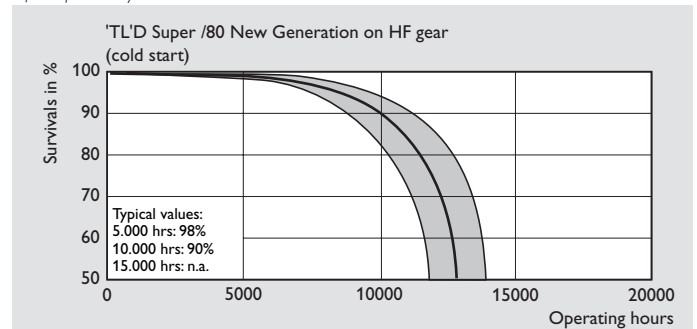
Life expectancy



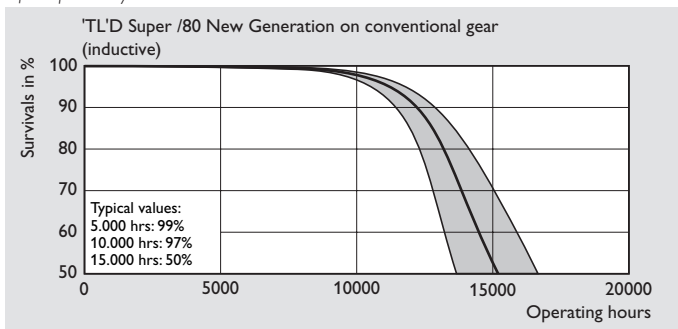
Life expectancy



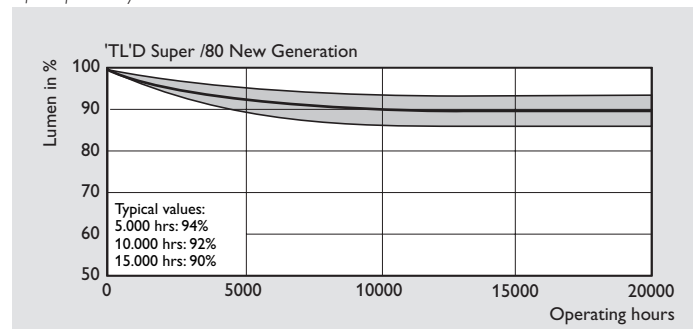
Life expectancy



Life expectancy



Life expectancy



Lumen maintenance

