

Dimensions in mm

Type	A max.	B min.	B max.	C max.
TL-D Reflex 18W	589.8	594.5	596.9	604.0
TL-D Reflex 36W	1199.4	1204.1	1206.5	1213.6
TL-D Reflex 58W	1500.0	1504.7	1507.1	1514.2

MASTER TL-D Reflex Super 80 colours lamps are equipped with a partly transparent internal reflector of 200 degrees, leaving a 'window' of 160 degrees. The generated light can thereby be directly concentrated in the direction it is needed, making an external reflector around the lamp (almost) superfluous. The highly efficient 3-band fluorescent powder mixture applied ensures a good colour rendering ($R_a = 85$). MASTER TL-D Reflex lamps are standard available in warm white /830 (3000 K), cool white /840 (4000 K) and cool daylight /865 (6500 K). MASTER TL-D Reflex lamps are direct retrofit for all Standard and Super /80 TL-D lamps operating on high frequency as well as conventional control gear. In MASTER TL-D Reflex Super 80 lamps the latest coating technology is applied, which ensures high lumen maintenance.

Recyclable

MASTER TL-D Reflex 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.

Applications

General lighting:

- E.g. where cost-effective luminaire solutions like TL battens without reflectors are used. MASTER TL-D Reflex lamps offer in this case up to 50% more efficient lighting solutions at relatively low investment cost.
- Upgrading of light output efficiency of luminaires with poor or hardly any reflector solutions, e.g. waterproof luminaires, tube lights, wall-washers, etc.
- In particular when applied in environments where dust accumulation is an issue, the light output of MASTER TL-D Reflex lamps is hardly affected.

Indirect and up lighting

Task lighting:

suspended light tubes, etc.

Display and shelf lighting:

optimum lighting levels without use of inconvenient additional reflectors.

Agricultural lighting:

e.g. phytotrons, tissue culture, etc.

Sign lighting:

edge lighting, translucent billboards, etc.

Specially designed ceiling systems:

translucent ceilings, skirts, coves, etc.

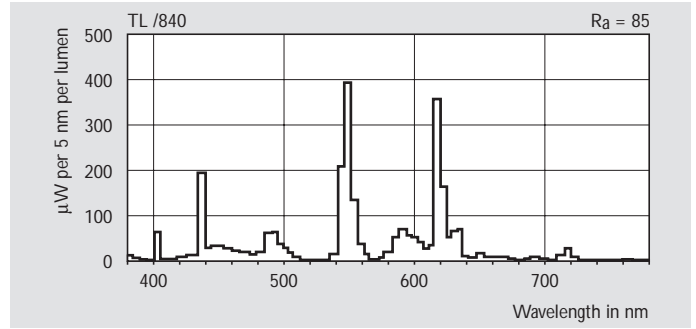
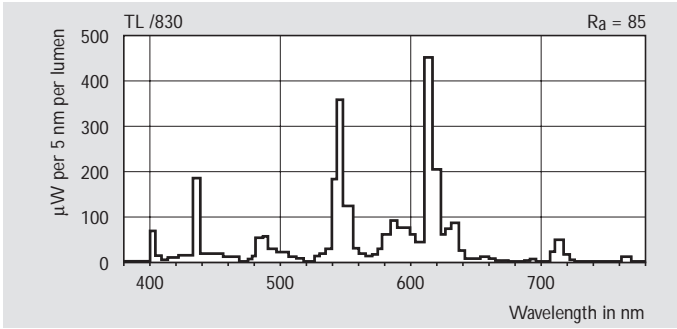
Slimline designs:

reflectorless tube luminaire systems.

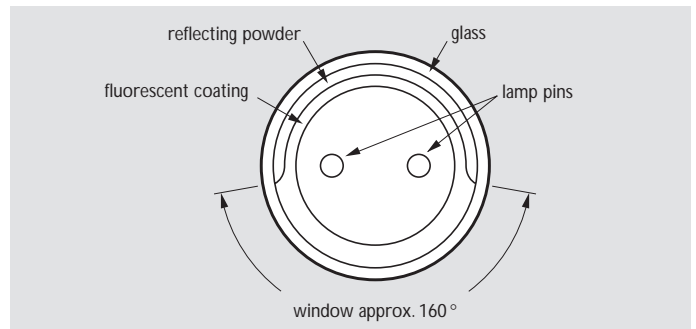
Commercial name	Type	Cap/base	Lamp voltage V	Lamp current A	Colour designation	Correlated colour temperature K	Lumen output lm	Average luminance cd/cm ²	Nett weight g	EOC
/830										
MASTER TL-D Reflex	TL-D 18W /830-R	G13	59	0.36	WARM WHITE	3000	1350	1.75	100	636447
MASTER TL-D Reflex	TL-D 36W /830-R	G13	103	0.44	WARM WHITE	3000	3350	2.19	186	559494
MASTER TL-D Reflex	TL-D 58W /830-R	G13	111	0.67	WARM WHITE	3000	5200	2.62	233	559579
/840										
MASTER TL-D Reflex	TL-D 18W /840-R	G13	59	0.36	COOL WHITE	4000	1350	1.75	100	636478
MASTER TL-D Reflex	TL-D 36W /840-R	G13	103	0.44	COOL WHITE	4000	3350	2.19	186	559531
MASTER TL-D Reflex	TL-D 58W /840-R	G13	111	0.67	COOL WHITE	4000	5200	2.62	233	559623
/865										
MASTER TL-D Reflex	TL-D 18W /865-R	G13	59	0.36	COOL DAYLIGHT	6500	1300	1.66	100	260291
MASTER TL-D Reflex	TL-D 36W /865-R	G13	103	0.44	COOL DAYLIGHT	6500	3250	2.10	186	260314
MASTER TL-D Reflex	TL-D 58W /865-R	G13	111	0.67	COOL DAYLIGHT	6500	5000	2.54	233	260338

Fluorescent lamps

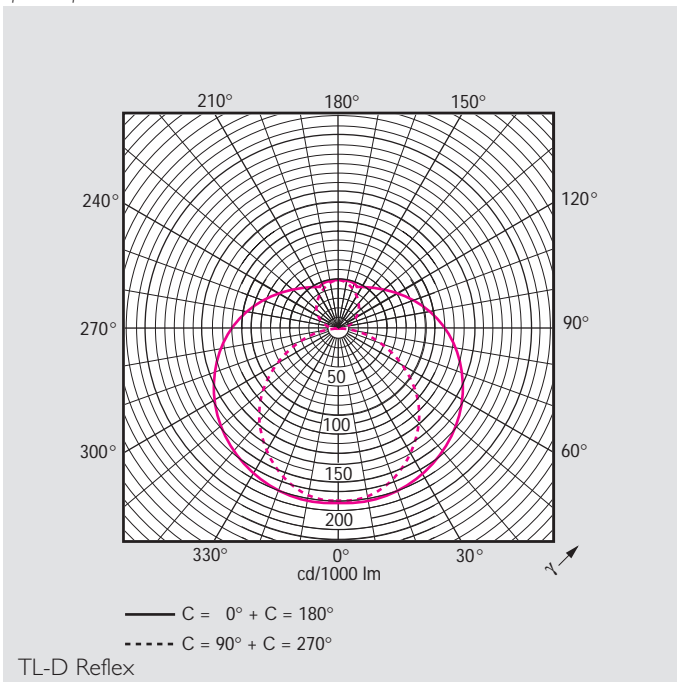
MASTER TL-D Reflex



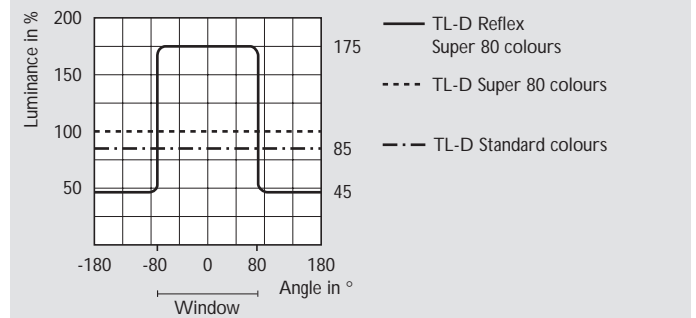
Spectral power distributions



Cross-section TL-D Reflex

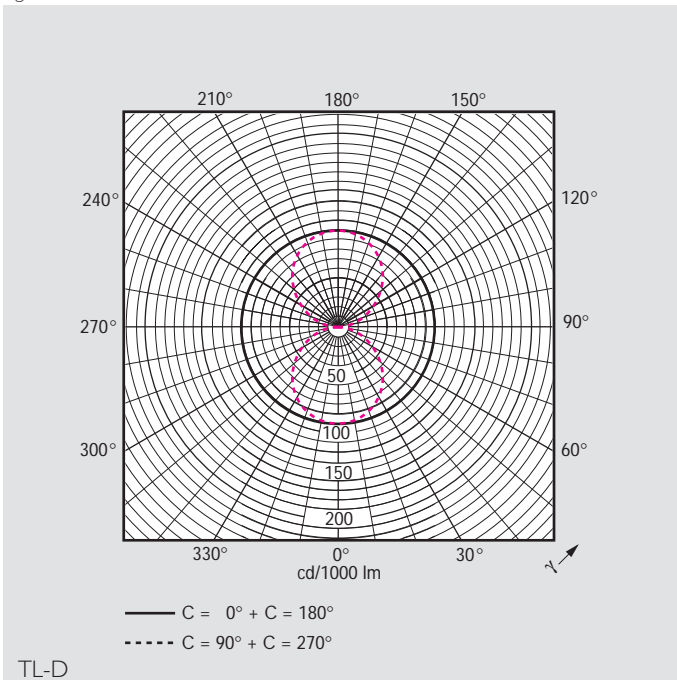


TL-D Reflex



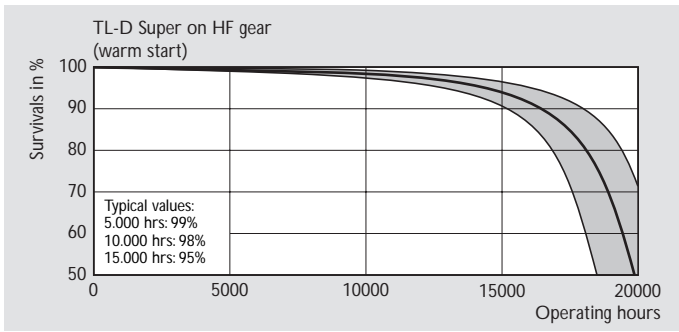
Light distributions

Surface luminance

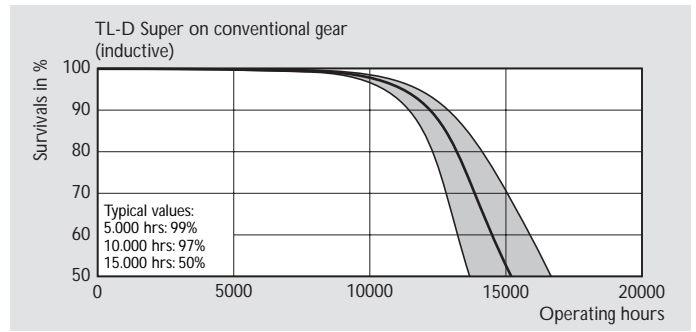


TL-D

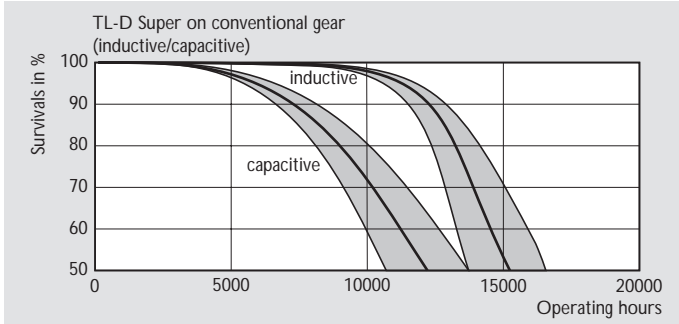




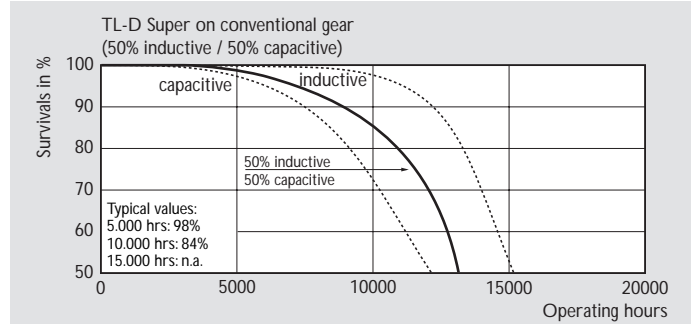
Life expectancy



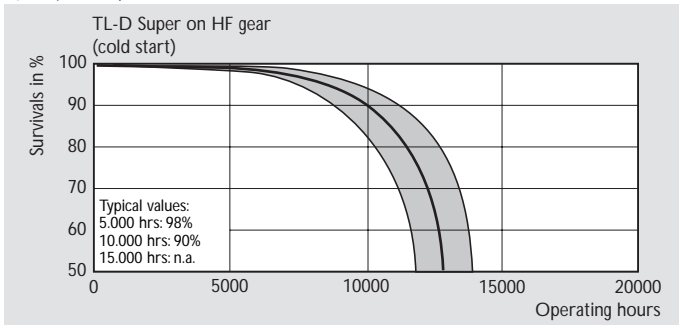
Life expectancy



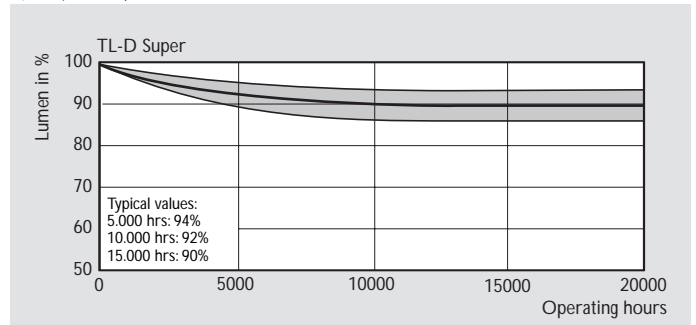
Life expectancy



Life expectancy



Life expectancy



Lumen maintenance