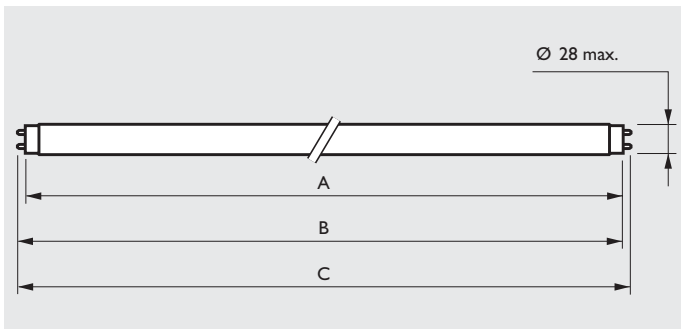


Fluorescent lamps

'TL'D SECURA Super /80 colours New Generation



Dimensions in mm

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



'TL'D SECURA Super /80 colour lamps are recyclable New Generation 26 mm diameter fluorescent lamps provided with a protective coating which keeps glass and other lamp components together in case of accidental lamp breakage.

'TL'D Super /80 New Generation coating technology ensures a high efficacy, good colour rendering (Ra=85) and low lumen depreciation.

An extra benefit is a further reduction of the already low UV emission. (<390 nm), e.g. PET* (permissible exposure time) > 1000 Klx•h.

'TL'D SECURA lamps are available as standard in warm white /830 (3000 K) and cool white /840 (4000 K) and are direct retrofit replacements for all Standard and Super /80 'TL'D lamps operating on high-frequency as well as conventional control gear. In their applications 'TL'D SECURA lamps can easily be recognized from a distance by the blue ring around one of the two lamp ends.

Applications

All lighting applications where contamination or damage as a consequence of lamp breakage should be prevented like:

- open food and beverage processes in industry, shops, supermarkets, professional kitchens, restaurants, etc.
- pharmaceutical industries, laboratories, clean-rooms, etc.
- health care facilities, operating rooms, etc.
- indoor sports halls or any other application with high risks of lamp breakage by external factors.

Application advice

The protective coating of 'TL'D SECURA consists of a high-quality synthetic material.

The behaviour and properties of any synthetic material may be influenced by prolonged exposure to chemicals, UV radiation and high temperatures. This requires some extra attention in potential 'TL'D SECURA applications:

- The protective main coating is a UV-stabilized copolymer of ethylene and methacryl acid with a high resistance to many chemical substances (detailed information is available on request).
- The 6 cm polyester end-sleeves, including the blue ring, provide extra protection at the hottest lamp spots and should never be removed.
- Prolonged high temperatures will lead to discolouring of the lamp coating at the lamp ends. Although the protective function will hardly degrade, the use of 'TL'D SECURA lamps close to heat sources (ovens etc.) is not recommended.
- The use of self-stopping lamp control systems is recommended. If normal glow-switch starters are applied, it is advised, at lamp or starter end-of-life, to switch off the lamp immediately and replace both lamp and starter.
- For optimum protection, it is advised to replace lamps every 10,000 operating hours, or earlier in case any damage to the coating is noticed.

Recyclable

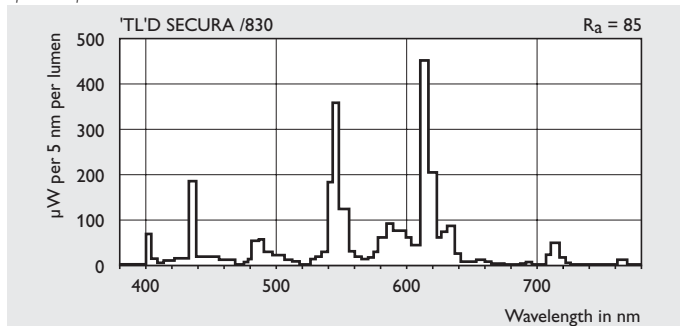
'TL'D SECURA Super /80 New Generation lamps are recyclable at end-of-life: the protective lamp coating can be stripped off and recycled. If the right disassembly technology for fluorescent lamps is applied, recycled materials can be used in the production of new 'TL' lamps.

Fluorescent lamps

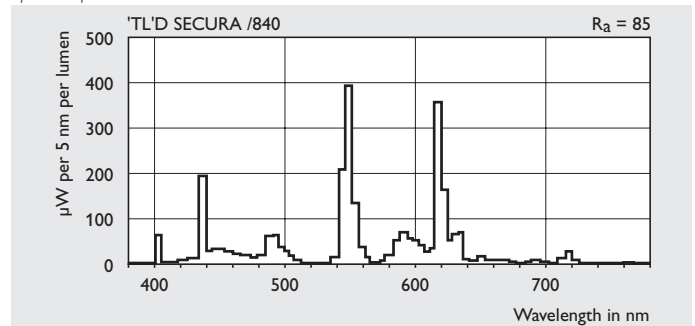
'TL'D SECURA Super /80 colours New Generation

Type	Lamp voltage	Lamp current	Cap/ base	Colour designation	Correlated colour temperature	Lumen output	Average luminance	UV-A	UV-B	D/fc	Nett weight	Ordering number	EOC
	V	A			K	lm	cd/cm ²	mW	mW		g		
/830													
'TL'D SECURA 18W	59	0.36	G13	WARM WHITE	3000	1300	1.00	<4	<0.1	<0.13	120	9279 204 83000	640062
'TL'D SECURA 36W	103	0.44	G13	WARM WHITE	3000	3200	1.25	<10	<0.2	<0.13	230	9279 214 83000	640123
'TL'D SECURA 58W	111	0.67	G13	WARM WHITE	3000	5000	1.50	<16	<0.3	<0.13	285	9279 224 83000	640161
/840													
'TL'D SECURA 18W	59	0.36	G13	COOL WHITE	4000	1300	1.00	<4	<0.1	<0.13	120	9279 204 84000	640109
'TL'D SECURA 36W	103	0.44	G13	COOL WHITE	4000	3200	1.25	<10	<0.2	<0.13	230	9279 214 84000	640147
'TL'D SECURA 58W	111	0.67	G13	COOL WHITE	4000	5000	1.50	<16	<0.3	<0.13	285	9279 224 84000	640185

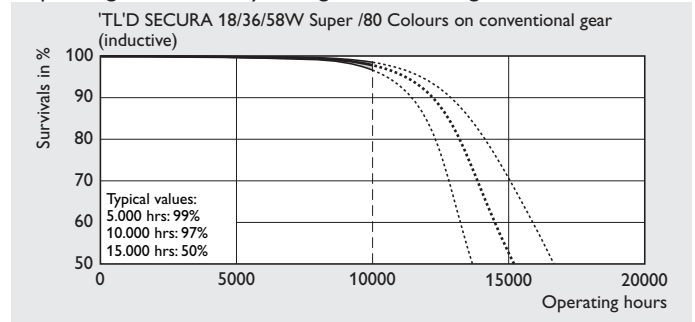
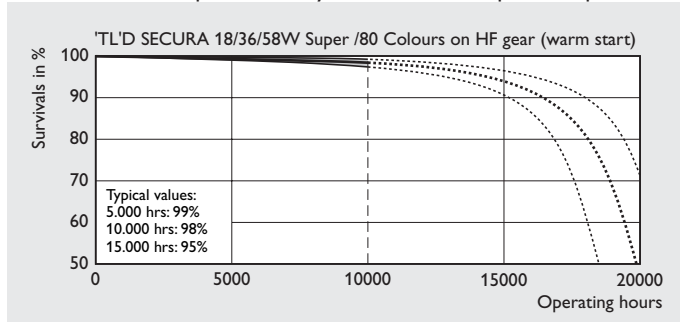
Spectral power distribution



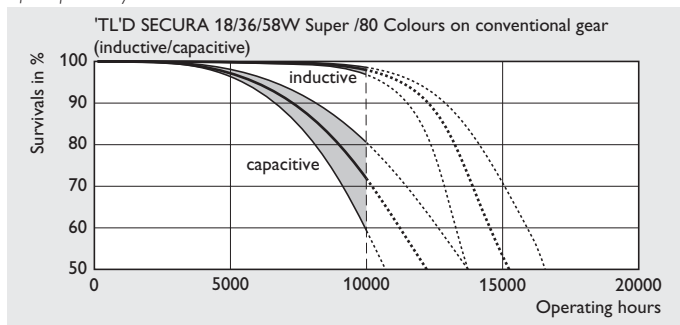
Spectral power distribution



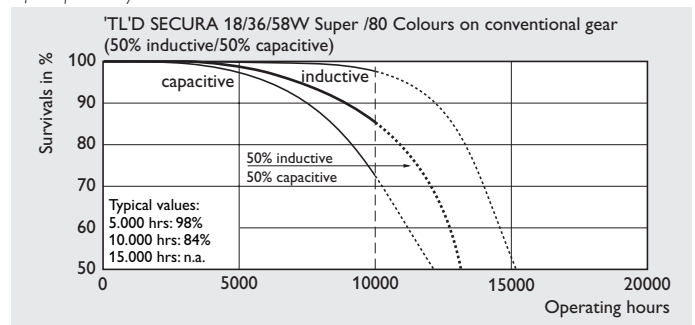
IMPORTANT: For optimum safety it is advised to replace lamps after 10,000 operating hours or if any damage to the coating is noticed.



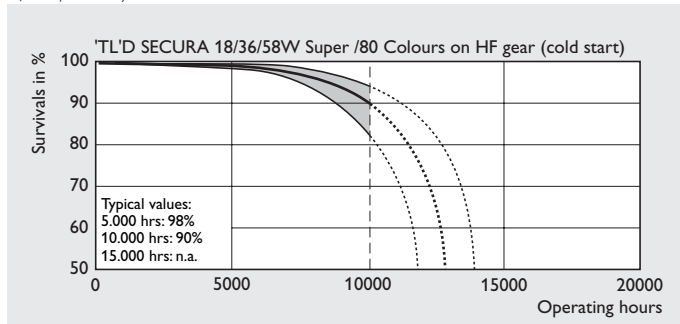
Life expectancy



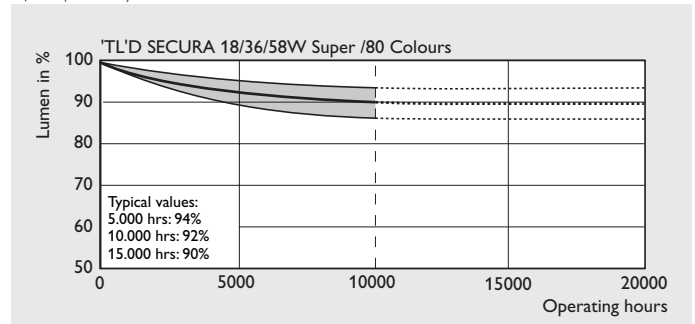
Life expectancy



Life expectancy



Life expectancy



Life expectancy

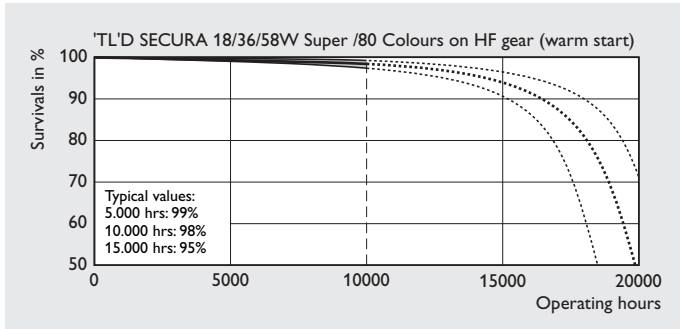
Lumen maintenance



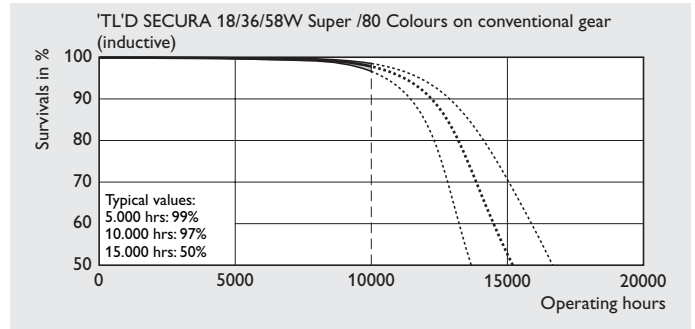
Fluorescent lamps

'TL'D SECURA Super /80 colours New Generation

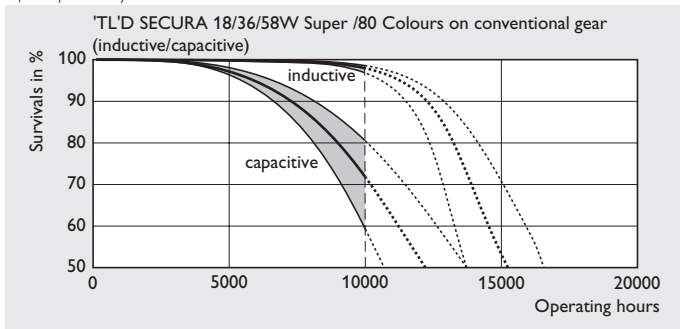
IMPORTANT: For optimum safety it is advised to replace lamps after 10,000 operating hours or if any damage to the coating is noticed.



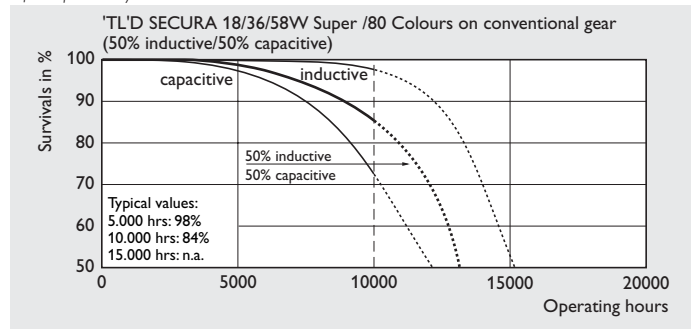
Life expectancy



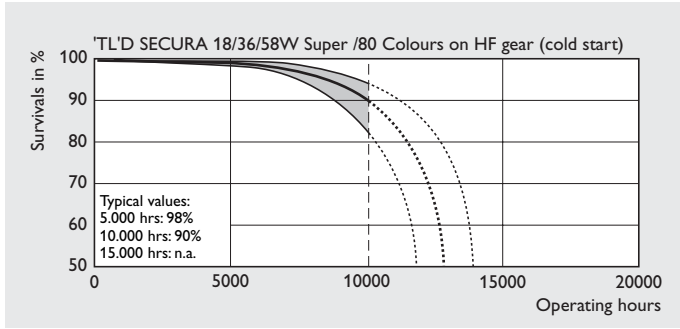
Life expectancy



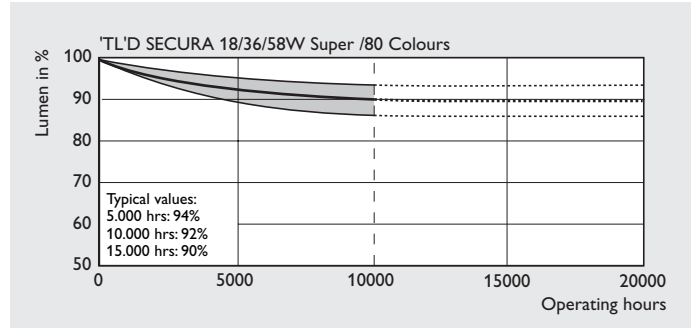
Life expectancy



Life expectancy



Life expectancy



Lumen maintenance