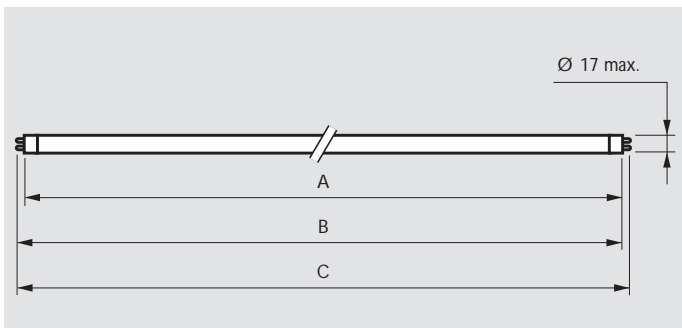


Fluorescent lamps

TL5 HO 90 de Luxe colours



Dimensions in mm

Type	A max.	B min.	B max.	C max.
TL5 HO 24W	549.0	553.7	556.1	563.2
TL5 HO 54W	1149.0	1153.7	1156.1	1163.2
TL5 HO 49W	1449.0	1453.7	1456.1	1463.2

Note: The circumscription (including the warp) of the lamps is 17 mm.

Definition

TL5 lamps are fluorescent lamps with a diameter of 16 mm, which is 40% thinner than the diameter of existing TL-D lamps.

Description

- TL5 /90 lamps are designed for system miniaturization.
- TL5 /90 lamps are produced with a special fluorescent powder mix, which leads to an excellent colour rendering index (CRI > 90).
 - If a so-called cut-off HF electronic ballast without additional electrode heating (designed on nominal lamps specifications) is used, the maximum lumen output of the lamp will be reached at approx. 35 °C in free-burning position.
 - TL5 /90 lamps are especially designed for operation with electronic gear: Due to the high lamp voltages, 50 Hz is not recommended or supported.

Characteristics

- Philips quality implies an optimum lamp quality:
- A high lumen output of 4000 lumen (at the top).
 - A lumen maintenance comparable to that of with TL5 /80 colours.
 - A colour rendering index of > 90.
 - A low mercury dose.

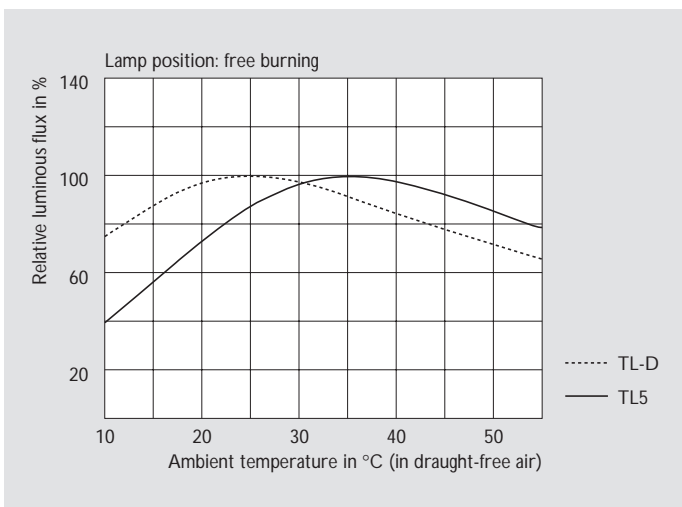
- At a 3 hours switching cycle, the lamps will last for 20,000 burning hours if operated on appropriate HF warm-start ballasts.
- The lamps are well-suited for dimming.
- The lamps can be ignited from - 15 °C to + 50 °C ambient temperature, and compared with TL-D lamps have low striation, even at low temperatures as compared to TL-D lamps.

Applications

The TL5 lamps allow more compact and efficient systems. The smaller lamp of the TL5 HO /90 range offers exciting opportunities for architectural lighting and customized solutions. The colour rendering index of the TL5 HO /90 lamps makes them suited for applications where a high colour recognition is needed, such as: first aid and treatment rooms in hospitals, printing rooms, jewellery manufacturing, hairdressing, dentists, museums, shops and various others.

General remarks

- Nominal luminous flux and electrical specifications are defined at an ambient temperature of 25 °C in a free-burning position on reference ballast.
- At the top of the lumen curve, 12-14% higher more lumen output can be expected, compared with 25 °C conditions.
- Efficacy (lm/W) and luminance are defined at the top of the lumen curve (approx. 35 °C).
- The lamps require an end-of-life switch-off function.
- Only 500 volt marked G5 holders to be used.
- The G5 cap contains marking dents to enable correct positioning during at lamp mounting.

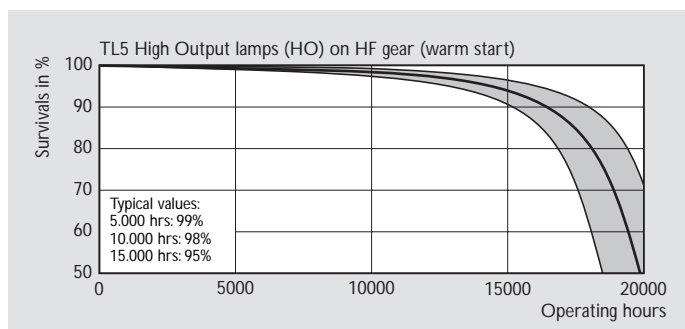


The TL5 lamp is optimized for temperature conditions that may be expected in TL5 luminaires (35 °C). The TL-D lamp is optimized for an ambient temperature of 25 °C.

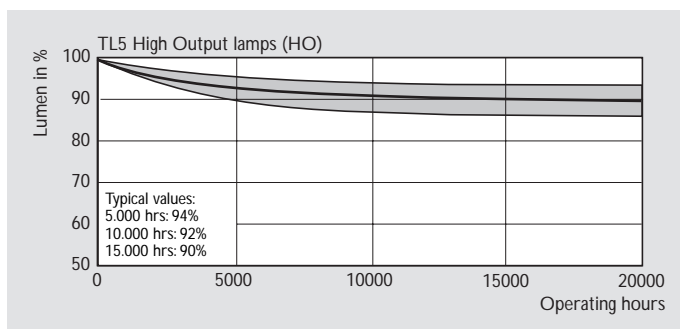
Fluorescent lamps

TL5 HO 90 de Luxe colours

Type	Cap/base	Lamp voltage V	Lamp current mA	Nominal lumen output (25°C) lm	Colour designation	Corr. colour temperature K	Efficacy top lumens lm/W	Average luminance at top cd/cm ²	Nett weight g	EOC
TL5 HO 24W /940	G5	80	300	1400	cool white	4000	71	2.0	55	868954
TL5 HO 24W /965	G5	80	300	1300	cool daylight	6500	67	1.9	55	261304
TL5 HO 54W /940	G5	118	460	3500	cool white	4000	75	2.3	110	869050
TL5 HO 54W /965	G5	118	460	3450	cool daylight	6500	71	2.2	110	869838
TL5 HO 49W /940	G5	195	255	3500	cool white	4000	79	1.8	140	868978
TL5 HO 49W /965	G5	195	255	3450	cool daylight	6500	75	1.8	140	869722



Life expectancy



Lumen maintenance

