

LED T8 PHF

Tubular lamps



DATA SHEET

Product information

The GE LED T8 Plastic HF range offers a safe, reliable and affordable energy saving alternative to 18W, 36W and 58W standard fluorescent T8 lamps. These highly efficient LED T8 tubes have an exceptionally high lumen output combined with 50,000-hour life span.

Available in 60cm, 120cm and 150cm lengths, GE LED T8 HF tubes can be used as a direct replacement for linear fluorescent tubes in existing luminaires operating on electronic control gear. To the great satisfaction of end-users, the upgraded fixtures will deliver huge energy savings and reduced operating costs driven by the low power consumption and the increased life of the LED T8 PHF tubes.

Specification Features

High Efficiency

- Outstanding efficiency up to 136 lm/W
- A+ energy efficiency rating
- Energy savings up to 60%

Long life

- 50,000hrs L70 rated life for reduced maintenance cost
- Lasts 2,5-3x longer than standard fluorescent lamps

High Quality light

- Light output up to 3400 lumen
- Excellent color rendering CRI 80+
- Instant on, no flicker

Easy retrofit

- Safe installation, directly fits into standard T8 LFL G13 sockets
- No modification done to luminaire

Environmentally friendly solution

- Free from harmful lead or mercury
- Fully compliant with material restriction requirements of RoHS

IEC Standards:

EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting
EN 61000-3-2	Limits for harmonic current emissions (equipment rated current ≤16A)
EN 61000-3-3	Limitation of voltage fluctuations and flicker in low voltage supply systems (equipment rated current ≤16A)
EN 61547	Specification for equipment for general lighting purposes. EMC Immunity requirements
EN 62493:2010	Assessment of lighting equipment related to human exposure to electromagnetic field
IEC 62471	Photo biological safety of lamps and lamp systems
IEC 60061-1	Lamp Caps
IEC 61195	IEC Based Safety Standard Requirements for Double-capped Fluorescent Lamps
IEC 60598-1	Luminaires – Part 1: General requirements and tests
IEC 60598-2	Luminaires – Part 2: Particular requirements (all sections)
IEC 62031	LED modules for general lighting-Safety specifications
IEC 61347-2-13	Particular requirements for DC or AC supplied electronic control gear for LED modules
IEC 62776	Double-capped LED lamps for general lighting services - Safety specifications

Electrical, Photometric and Lumen Maintenance test conducted as defined by IES LM-79-08 and IES LM-80-08 Test

Application areas



Offices



Industrial



Hospitality



Car Park



GE imagination at work

Specification summary

Rated Wattage (W)	Length (mm)	CCT (K)	Cap	Product Description	Rated Lumens (lm)	Life L70 (hrs)	CRI (Ra)	Energy Efficiency Class	Pack Qty (pcs)	Product Code
9	600	3000	G13	LED 9/T8 PHF 2ft/830 BX1/10	1100	50 000	80+	A+	10	93041502
		4000	G13	LED 9/T8 PHF 2ft/840 BX1/10	1200	50 000	80+	A+	10	93041503
		6500	G13	LED 9/T8 PHF 2ft/865 BX1/10	1200	50 000	80+	A+	10	93041504
18	1200	3000	G13	LED 18/T8 PHF 4ft/830 BX1/10	2100	50 000	80+	A+	10	93041505
		4000	G13	LED 18/T8 PHF 4ft/840 BX1/10	2300	50 000	80+	A+	10	93041836
		6500	G13	LED 18/T8 PHF 4ft/865 BX1/10	2300	50 000	80+	A+	10	93041837
25	1500	3000	G13	LED 25/T8 PHF 5ft/830 BX1/10	3150	50 000	80+	A+	10	93041838
		4000	G13	LED 25/T8 PHF 5ft/840 BX1/10	3400	50 000	80+	A+	10	93041839
		6500	G13	LED 25/T8 PHF 5ft/865 BX1/10	3400	50 000	80+	A+	10	93041840

Specifications

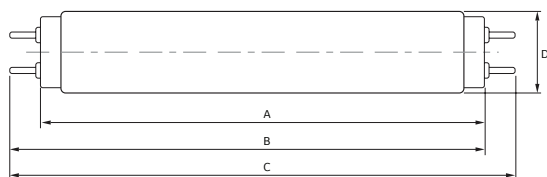
Nominal Voltage	50-110V
Operating frequency	25,000-85,000Hz
Power factor	≥ 0,90
Operating temperature range	-20°C ...+40°C
Starting time	< 0,5 s
Number of switching cycles	50,000
Lumen maintenance at B50	70%
Beam angle	150°
Dimmable	No
CCT Steps	<6

Operation and maintenance

Store and use the lamps the same way as standard fluorescent lamps.

- Lamps should be kept free from contamination.
- Switch off mains supply before installing/removing lamp.
- Good condition of the lamp-holder contacts is important to ensure proper operation of lamp.
- Use in fully enclosed fixtures may affect life performance.
- Not for use in emergency lighting circuits
- Tube can be operated with electronic ballasts; it can't be operated directly from mains voltage. (List of ballasts tested for compatibility can be found on <http://www.gelighting.com/LightingWeb/emea/products/highlights/led-tubes/product-features/>)

Dimensions [mm]



Maximum overall length [mm]	2ft	4ft	5ft
A	600	1200	1500
B	597	1207	1507
C	604	1213	1514,2
D	28	28	28
Weight [g]	150	280	350