GE Lighting

Product information
The T3 8,000 hours CFL Globe lamps ensure excellent light quality and reliable energy savings. Due to its round shape, light is evenly distributed, providing high luminous flux to any indoor or outdoor environment.

Features
Compact Fluorescent Lamps (CFL) have an important role to play in the future of lighting, helping to protect the environment by using less energy and creating less CO₂ emissions. In addition, CFL lamps contribute to the reduction of maintenance costs, ensuring that financial benefits are enjoyed alongside environmental benefits.

There are a variety of performance advantages afforded by GE Lighting CFL lamps. They use almost 80% less energy and last eight times longer than their incandescent predecessors, are rated energy class ‘A’ and offer high quality light.

With continuing technological advancements and miniaturisation, today’s CFL Globe lamps are similar to the incandescent lamps that they replace to ensure that they are discreet – yet high performing.

- 8,000 hours life
- Evenly distributed light
- ‘A’ energy class

Application areas
CFL Globe T3 8,000 lamps hours are recommended for general indoor applications such as:

- Home lighting
- Retail lighting
- Hotels
- Restaurants
- Corridors, hallways

Product range
Globe T3 8,000 hours lamps are available in a range of:

- 15, 20 and 23 wattages
- E27 cap
- Warm (2700K) and Cool (4000K) colours
- Box pack
Compliance

Standards

- IEC 60061-1: Lamp caps and holders together with gauges for the control of interchangeability and safety
- IEC or EN 60969: Self ballasted lamps for general lighting services – performance requirements
- IEC or EN 60968: Self-ballasted lamps for general lighting services – safety requirements
- EN 50285: Energy labelling of household lamps
- CIE S 009/E:2002: Photobiological safety of lamps and lamp systems
- EN 61547: Requirement for general lighting purposes – EMC immunity requirement
- EN 55015 or CISPR 15: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- EN 61000-3-2: Electromagnetic compatibility (EMC) – Part 3-2: Limits – limits for harmonic current emissions (equipment input current up to and including 16A per phase)
- EN 61000-3-3: Electromagnetic compatibility (EMC) – Part 3-3: Limits – limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current up to 16A

European Directives:

- Safety: Low Voltage (LVD) 2006/95/EC
- Electromagnetic Compatibility: (EMC) 2004/108/EC
- RoHS: Directive 2011/65/EC on Restrictions of the use of certain Hazardous Substances (RoHS)
- REACH: Commission Regulation 453/2010/EC on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Basic data

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*Rated wattage, life and lumen are equivalent to nominal values, which are indicated on product packaging

Survival rate and lumen maintenance

![Life Expectancy and Lumen Maintenance Globe T3](image)

Test condition: 50Hz 230V 3 hours cycling - according to IEC60969
Influence of ambient temperature on light output

Photometrical and light parameters of a fluorescent lamp depend on the mercury vapor pressure inside the lamp. Mercury vapor pressure in turn is controlled by temperature. When installed in a luminaire, the temperature of the air surrounding the lamp cap changes and this can affect the light output of the lamp. The effects of changes in ambient temperature for a typical lamp are shown on the graph.

Additional information – EuP Compliance

**Incandescent watt equivalence:** select the preferred wattage to enjoy the same light output as the original incandescent bulb while at the same time achieving significant energy savings. The Basic Data table and the updated EuP packaging include the CFL-Incandescent wattage equivalences according to the new EuP luminous flux standards.

**Switching cycle:** switching endurance is a minimum 3000 cycles based on official EU standard – one minute on, three minutes off. **Globe T3 8,000 hours switching cycle: 10,000**

**Starting time:** the time needed for the lamp to start fully and remain alight. GE Lighting’s CFL lamps are usually instant light on. Starting categories are: instant on (<0.3sec), quick (0.3-1sec), standard (1-1.5sec). **Globe T3 8,000 hours starting time: quick**
**Power Factor:** ratio of the measured active input power to the product of the supply voltage (r.m.s.) and the supply current (r.m.s.). Measures how efficiently the current is being converted into real power. Lamps of power factor >0.9 are referred to as High Power Factor lamps, below that as Low Power Factor lamps. All CFL lamps above 25 watts sold in EU need to be High Power Factor lamp.

**Mercury content:** GE Lighting’s CFL lamps contain a minimised level of mercury, some of our best-in class lamps as low as 0.9mg vs. the max. 5.0mg allowed by RoHS.

**Warm-up:** GE Lighting’s CFL lamps are usually characterised by fast warm-up times. Warm-up categories at 60% lumen are: fast (<30sec), standard (30-60sec) and slow (60-120sec).

**Globe T3 8,000 hours: slow warm-up (<120sec)**

**Non-dimmable**

**Dimming:** not recommended to use with dimmers.

**220-240V 50Hz:** all lamps operate on 220-240 Volt [-10%; +6%], 50 Hertz

**Globe T3 8,000 hours: power factor: >0.5**

**Application information**

**Ambient temperature range:** temperature at which a lighting product can be safely used and can meet the claimed rated life. Outside of this temperature range, the product might still operate, although the life could be reduced. **Globe T3 8,000 hours ambient operating temperature range: -20-50°C**

**Minimum starting temperature:** the lowest temperature condition at which the product can reliably start at within 3sec at 230V. **Globe T3 8,000 hours minimum starting temperature: -20°C**

**Cautionary notices**

**Enclosed fixture:** usage in enclosed fixture may reduce life. Not recommended in totally enclosed fixture.

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