



TUBE 90++



Areas of application

High-End GLT LED TUBE Made in Germany, sustainable and 90% recyclable:

- Industrial areas, for example production halls, warehouses, trade centers
- Offices, schools, hotels
- Wholesale stores, garages, public buildings

Product benefits GLT TUBE 90++

Highest quality and maximum energy saving:

- Double-capped LED retrofit lamp for suitable luminaires, fixtures and fittings according international norm IEC EN 62776.
- Up to 80% energy savings.
- Lowest CO₂ Carbon Footprint on the market, reduce of CO₂-output about 75%.
- Lifetime >50.000 hours (L70 = 130.000 hours).
- The high-performance power supply and overvoltage protection are integrated in the GLT LED TUBE.
- Samsung LEDs.
- CE conformity of the luminaire is maintained.
- Conversion possible as purchase, rental or leasing.

Double-capped LED retrofit lamp that can be used as a replacement for double-ended fluorescent lamps without requiring any internal changes to the luminaire (KVG/VVG luminaire).

Double-capped LED conversion lamp that can be used as a replacement for another type of lamp that requires modification of the luminaire (ECG luminaire). In this case, the ballast is bridged by a qualified electrician using the GLT-conversion kit supplied.

Sustainability

GLT LED TUBES - resource-saving and economical:

- Environmental Product Declaration (EPD) in accordance with international standards ISO 14025 and EN 15804, LED luminaires for measuring and evaluating the energy and environmental impact of lighting. Building block for corporate sustainability strategies.
- Made in Germany -research, development and production exclusively in Germany.
- All components can be replaced and repaired.
- GLT reusable system - we take back your old GLT LED TUBES.



Product data | GLT TUBE 90++

Certificates:CE, ENEC 05 DEKRA, EPD

Photobiological protection class:0

IK protection class:10

Operating temperature:-40°C to +70°C

Switching cycles before failure:>1.000.000

Warranty:5 years

Socket/base:G13/T8

Cover:Milky, Diffuse, Clear

Length:90 cm

Weight:277 g

Dimensions:90,8 cm x 2,8 cm Ø

Photometric characteristics

Beam angle:90°, 120°, 150°

Lumen:1.500 lm - 2.100 lm

Colour temperature:3.000K, 4.000K, 5.000K

Colour rendering index:Ra 92 - Ra 94

L70 (70% luminous intensity):L70 = 130.000 hours

Electrical characteristics

Input voltage:230 Volt

AC/DC-compatible:185 - 265 V

Consumption:14 W

Power supply:Integrated high-performance power supply

Operating frequency:50 - 60 Hz

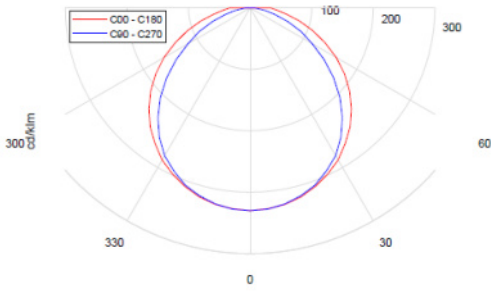
Lifetime:>50.000 hours

Power factor:>95

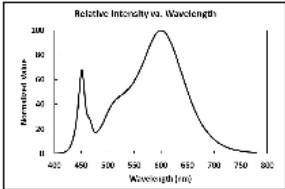
Power consumption:13,8 kWh/1.000 h

All article numbers are available with adjustable end caps from 0° to 90°. The technical specifications remain unchanged.

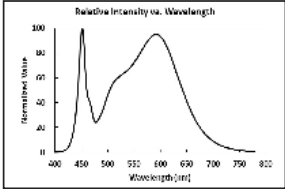
light distribution



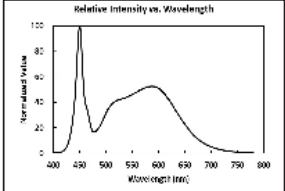
light spectrum 3.000K



light spectrum 4.000K



light spectrum 5.000K



| article-nr. | description | cover | colour temperature | luminous flux | EPREL-nr. | energy efficiency |
|------------------|--------------------|--------------|--------------------|---------------|-----------|---|
| 1001090230202003 | GLT TUBE 90 M 3K+ | Milky 120° | 3.000K | 1.600 lm | 1392604 | <div><div>A</div><div>I</div><div>G</div><div>E</div></div> |
| 1001090240203003 | GLT TUBE 90 M 4K++ | Milky 120° | 4.000K | 2.100 lm | 1392607 | <div><div>A</div><div>I</div><div>G</div><div>C</div></div> |
| 1001090250203003 | GLT TUBE 90 M 5K++ | Milky 120° | 5.000K | 2.100 lm | 1392609 | <div><div>A</div><div>I</div><div>G</div><div>C</div></div> |
| 1001090530202003 | GLT TUBE 90 D 3K+ | Diffuse 150° | 3.000K | 1.500 lm | | <div><div>A</div><div>I</div><div>G</div><div>E</div></div> |
| 1001090540203003 | GLT TUBE 90 D 4K++ | Diffuse 150° | 4.000K | 2.000 lm | 1392612 | <div><div>A</div><div>I</div><div>G</div><div>C</div></div> |
| 1001090550203003 | GLT TUBE 90 D 5K++ | Diffuse 150° | 5.000K | 2.000 lm | 1392613 | <div><div>A</div><div>I</div><div>G</div><div>C</div></div> |
| 1001090150203003 | GLT TUBE 90 C 5K++ | Clear 90° | 5.000K | 2.100 lm | 1988206 | <div><div>A</div><div>I</div><div>G</div><div>C</div></div> |

The luminaire complies with the basic requirements of the applicable EU directives and product safety law and carries the CE mark, ENEC 05 DEKRA and EPD. Please consult your consultant if the luminaire is to be used in chemically polluted environments, under increased ambient temperatures or high or condensing humidity.