TUBE 90

Areas of application

High-End 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

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 CO_2 Carbon Footprint on the market, reduce of CO_2-output about 75%.
- Lifetime >50.000 hours.
- The high-performance power supply and overvoltage protection are integrated in the GLT 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 TUBES - resource-saving and economical:

- Environmental Product Declaration (EPD) in accordance with international standards ISO 14025 and EN 15804. Certified by the Institut Bauen und Umwelt e.V. as a LED light source for sustainable construction.
- 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 TUBES.

German LED Tech GmbH I Allmersbacher Str. 50 I D-71546 Aspach I info@germanledtech.com I www.germanledtech.com

DS_GLT TUBE 90_EN_01.04.2024_V5.0 - illustrations similar, subject to technical changes

Product data | GLT TUBE 90

Certificates:	CE, ENEC 05 DEKRA, EPD
Photobiolocical protection class:	0
IK protection class:	10
Operating temperature:	-40°C to +70°C
Switching cycles before failure:	>1.000.000
Warranty:	3 years
Socket/base:	G13/T8
Cover:	Milky, Diffuse, Clear
Length:	90 cm
Weight:	277 g
Dimensions:	90,8 cm x 2,8 cm Ø

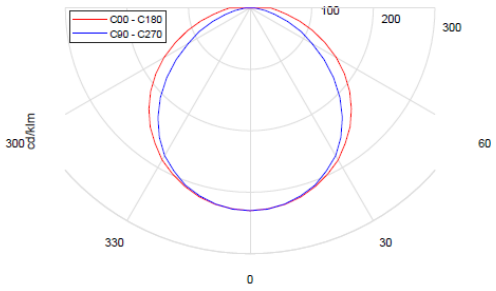
Photometric characteristics

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

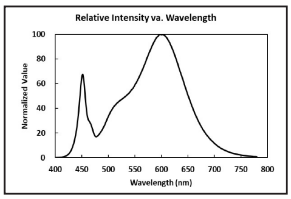
Electrical characteristics

Input voltage:	230 Volt
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

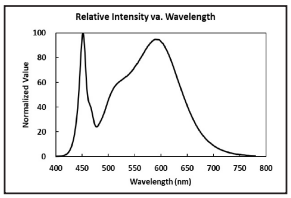
light distribution



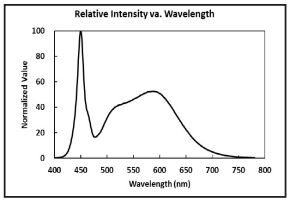
light spectrum 3.000K



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	E
1001090240203003	GLT TUBE 90 M 4K++	Milky 120°	4.000K	2.100 lm	1392607	C
1001090250203003	GLT TUBE 90 M 5K++	Milky 120°	5.000K	2.100 lm	1392609	C
1001090530202003	GLT TUBE 90 D 3K+	Diffuse 150°	3.000K	1.500 lm		E
1001090540203003	GLT TUBE 90 D 4K++	Diffuse 150°	4.000K	2.000 lm	1392612	C
1001090550203003	GLT TUBE 90 D 5K++	Diffuse 150°	5.000K	2.000 lm	1392613	C
1001090150203003	GLT TUBE 90 C 5K++	Clear 90°	5.000K	2.100 lm	1988206	C

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.