



# TUBE 105



## 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<sub>2</sub> Carbon Footprint on the market, reduce of CO<sub>2</sub>-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.



## Product data | GLT TUBE 105

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: 3 years

Socket/base: G13/T8  
 Cover: Milky, Diffuse, Clear  
 Length: 105 cm  
 Weight: 304 g  
 Dimensions: 106 cm x 2,8 cm Ø

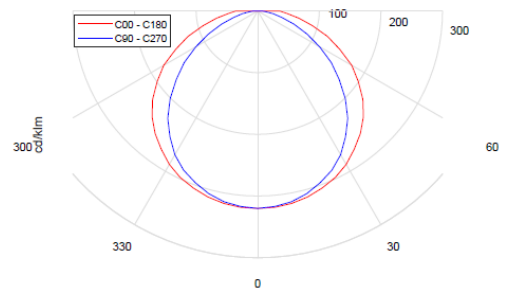
### Photometric characteristics

Beam angle: 90°, 120°, 150°  
 Lumen: 1.600 lm - 2.200 lm  
 Colour temperature: 3.000K, 4.000K, 5.000K  
 Colour rendering index: Ra 92 - Ra 94  
 L70 (70% luminous intensity): L70 = 130.000 hours

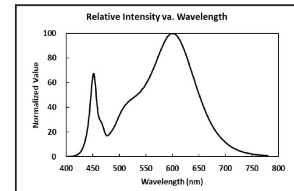
### Electrical characteristics

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

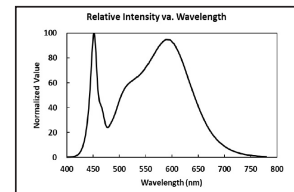
### light distribution



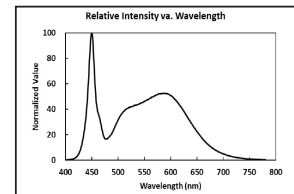
### light spectrum 3.000K



### light spectrum 4.000K



### light spectrum 5.000K



article-nr.	description	cover	colour temperature	luminous flux	EPREL-nr.	energy efficiency
1001100230202003	GLT TUBE 105 M 3K+	Milky 120°	3.000K	1.700 lm		A I G <b>D</b>
1001100240203003	GLT TUBE 105 M 4K++	Milky 120°	4.000K	2.200 lm	1389433	A I G <b>B</b>
1001100250203003	GLT TUBE 105 M 5K++	Milky 120°	5.000K	2.200 lm	1389436	A I G <b>B</b>
1001100530202003	GLT TUBE 105 D 3K+	Diffuse 150°	3.000K	1.600 lm		A I G <b>E</b>
1001100540203003	GLT TUBE 105 D 4K++	Diffuse 150°	4.000K	2.100 lm	1389438	A I G <b>C</b>
1001100550203003	GLT TUBE 105 D 5K++	Diffuse 150°	5.000K	2.100 lm	1389441	A I G <b>C</b>
1001100150203003	GLT TUBE 105 C 5K++	Clear 90°	5.000K	2.200 lm	1988279	A I G <b>C</b>

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.