FUMAGALLI LED LAMPS

MODULAR SYSTEM

Innovative **TÜV certified LED lamps** with standard E27, GX53 ,R7s, GU10 or G9 lamp holder to get a very efficient LED lighting system. Heatsink and driver are built-in the lamps. LED modules can be easily replaced without the help of a qualified technician. Available in different wattage versions and color temperature. Moreover combing in series Fumagalli GX53 lamps you get a powerful and efficient public lighting system both on classic and modern luminaries.

Safety tested · Production monitored · TÜV SÜD · tuv-sud.com/ps-cert · CE · CB · LVD · EMC · ERP · RoHS REACH compliant



BENEFITS:

- **COST SAVING:** long-life and efficient LED light sources.
- **BUILT-IN DRIVER:** quick and easy lamp replacement.
- **GREAT FLEXIBILITY:** standard lamp holder.
- **FUTURE-PROOFED LUMINARIES:** performances easy to upgrade to latest technology developments.
- **SUITABLE FOR OUTDOOR USE:** driver fully protected against heat and humidity by silicone paste.
- **TÜV CERTIFIED QUALITY:** Production monitored, CE marked, LVD and EMC tested, in compliance with the European Ecodesign Directive (ERP) and with RoHS and REACH directives. CB certified.





Power surges resistant

- **Wide voltage range (100-240V)** to protect the driver both from voltage droop and voltage overshoot, which are quite frequent in case of outdoor installations.
- **Double 400V capacitors** and multiple resistances to withstand power surges.
- **Silicone paste** to avoid – in case of voltage swings- the vibration of the electronic components of the driver and the consequent risk of components unsoldering.

Heat resistant - Working temperature -30°+80°C

- **Gold wire bonding:** Chips connected by pure gold wires, which are able to withstand at the highest and lowest temperatures and at temperature fluctuations between day and night. The gold wire bonding can grant a lumens maintenance factor > 80%.
- **Silicone paste:** Thermoconductive silicone paste with metal powder inside for helping heat dissipation and avoid overheating problems and for protecting the electronic components in case of high and low temperatures.

Humidity resistant - Weatherproof driver for a longer lifetime

- **Silicone paste:** The driver is fully enclosed in a special silicone paste, which ensures the highest driver protection against moisture and humidity up to 90%, both unavoidable in outdoor installations.

LVD TESTED

LVD Certificate: *Fumagalli lamps fulfil the Low Voltage Directive 2014/35/EU, therefore are CE marked and comply with safety requirements like protection against electrical shock, moisture and heat resistance, resistance to flame and ignition.*

EMC TESTED

EMC Certificate: *Fumagalli lamps meet the Electromagnetic Compatibility Directive 2014/30/EU and its amendments.*

NEW ERP

New ERP Attestation of conformity: *Fumagalli lamps fulfil the NEW European Ecodesign Directive EU 2019/2020, which sets stricter energy efficiency requirements, new verification tolerances and other factors such as bulb lifetime and warm-up time.*

CB IECEE CB SCHEME

IECEE CB Certificate: *Fumagalli lamps meet the International System for Conformity and Certification of Electrotechnical Equipment allowing direct market access in more than 50 countries all over the world.*

RoHS REACH COMPLIANT

RoHS REACH compliant: *Fumagali lamps fulfil the RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendements and the REACH regulation (EC) No. 1907/2006, regarding the concentration of Very High Concern Substances (SVHC).*

Tested according to :
EN 62560:2012/A11: 2019
IEC/TR 62778:2014
EN 62493:2015/A1: 2022







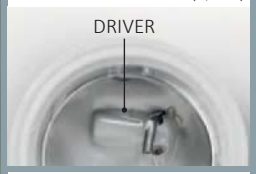
Saudi Standards

Fumagalli lamps meet the Saudi energy efficiency and functionality requirements according to SASO Directive 2870:2018/ADM1:2021. A SASO version packaging with Energy Efficiency label, according to 6.000 hours EEI test report, is available upon request.

GU10 LED

TÜV- CB CERTIFIED LED MODULES

SILICONE PROTECTION (4,8 W)



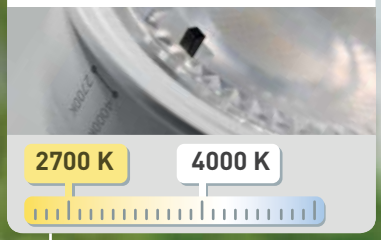
INDOOR & OUTDOOR USE

-30 +80 °C | 90% HUMIDITY

VOLTAGE SURGE RESISTANT

CCT SETTABLE

- Switch settable in two different positions, to select the desired Kelvin temperature (2700K, 4000K) and get a customized ambiance.
- 2700k and 4000K led chips on 2 separate circuits to grant SDCM < 6.



LENS

- Frosted lens with prismatic shape reducing dazzle.
- Made of UV stabilized PMMA to avoid yellowing process.





GOLD WIRE BONDING

- LED chips connected by pure **gold wires** able to withstand at the highest and lowest temperatures and granting a **lumens maintenance factor > 80%**.
- SMD 3528 LED.



HEATSINK

- Made by aluminum and designed to grant a correct heat dissipation.



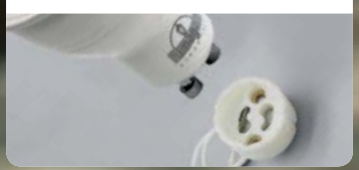
DRIVER 100-240V

- IC isolated driver technology.
- Wide voltage range: **100-240V** +/- 10% tolerance to protect the driver both from voltage droop and voltage overshoot.
- **Double 400V capacitors** and multiple resistances to withstand power surges.



GU10 LAMPHOLDER

- Quick and easy lamp replacement and version upgrade.
- Made of ceramic material to resist up to 250°.
- VDE certified.



THERMOCONDUCTIVE SILICONE PASTE

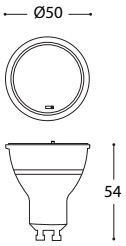
- To protect the driver against moisture and humidity up to **90%**, granting a longer product lifetime
- To help heat dissipation thanks to the metal powder inside the paste, granting **-30°+80°C** working temperature.
- To avoid the vibration and the unsoldering of the electronic components of the driver.



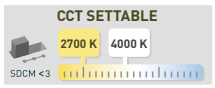
IECEE CB CERTIFICATE

GU10 LED - CCT SETTABLE



POWER		2,9 W
LUMINOUS FLUX (Φ TOTAL)	2700 K	360 lm
	4000 K	390 lm
SIZE & SOCKET		

LUMINOUS FLUX (Φ USE 90°)	280 lm
VOLTAGE	100-240 V
FREQUENCY	50/60 Hz
DISPLACEMENT FACTOR	>0,95
PSTLM (NO FLICKER)	<1
SVM	0,4
CRI	> 80
SDCM	<5
BEAM ANGLE	48°
SWITCHING CYCLE	> 25.000
WARM UP TIME	⩽ 0,5"
LIFETIME	25.000 h
EFFICIENCY CLASS	E
REF. CODE	H.LED.GU10.CCT



INDOOR & OUTDOOR USE
-20 +40 °C | 90% HUMIDITY
VOLTAGE SURGE RESISTANT



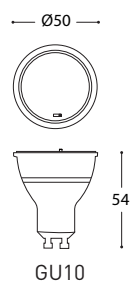
COMPLY WITH:
EU 2019/2015
EU 2019/2020

TÜV SÜD
CE LVD EMC
CB ERP

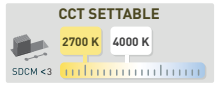
IECEE CB CERTIFICATE:
SG PSB-LE-06599

GU10 LED - CCT SETTABLE



POWER		4,8 W
LUMINOUS FLUX (Φ TOTAL)	2700 K	580 lm
	4000 K	625 lm
SIZE & SOCKET		

LUMINOUS FLUX (Φ USE 90°)	450 lm
VOLTAGE	100-240 V
FREQUENCY	50/60 Hz
DISPLACEMENT FACTOR	>0,95
PSTLM (NO FLICKER)	<1
SVM	0,4
CRI	> 80
SDCM	<5
BEAM ANGLE	47°
SWITCHING CYCLE	> 25.000
WARM UP TIME	⩽ 0,5"
LIFETIME	25.000 h
EFFICIENCY CLASS	E
REF. CODE	H2.LED.GU10.CCT



SILICONE PROTECTION
DRIVER



INDOOR & OUTDOOR USE
-30 +80 °C | 90% HUMIDITY
VOLTAGE SURGE RESISTANT



COMPLY WITH:
EU 2019/2015
EU 2019/2020

TÜV SÜD
CE LVD EMC
CB ERP

IECEE CB CERTIFICATE:
SG PSB-LE-06599

*SASO version available upon request.