

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 combining in series Fumagalli GX53 lamps you get a powerful and efficient public lighting system both on classic and modern luminaries.



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.



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



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




E27 LED

TÜV- CB CERTIFIED LED MODULES



INDOOR & OUTDOOR USE

-30 +80 °C	90% HUMIDITY
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VOLTAGE SURGE RESISTANT 


LENS

- Opal color lens reducing dazzle.
- Made of UV stabilized resin material to avoid yellowing process.
- Special lens design for a better light distribution.



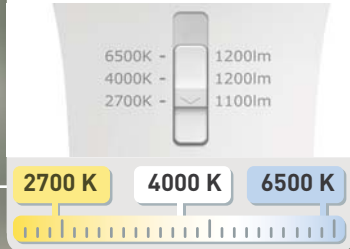
GOLD WIRE BONDING

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




CCT SETTABLE

- Switch settable in three different positions, to select the desired Kelvin temperature (2700K, 4000K, 6500K) and get a customized ambiance.
- 2700K, 4000K and 6500K led chips on 3 separate circuits to grant SDCM < 6.



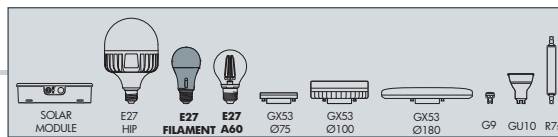
DRIVER 100-240V


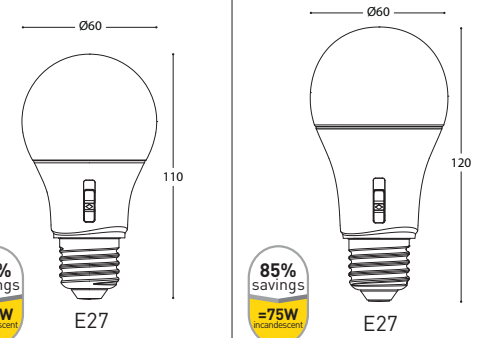
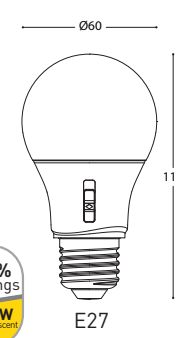
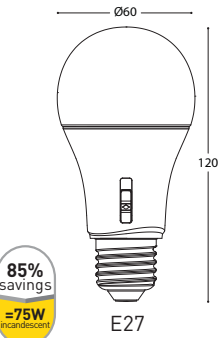
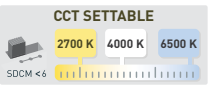
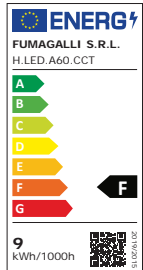


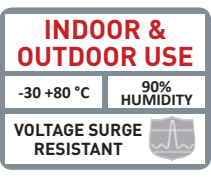
- IC isolated driver technology.
- Wide voltage range: **100-240V** +/- 10% tolerance to protect the driver both from voltage droop and voltage overshoot.


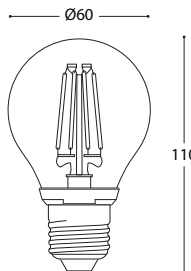
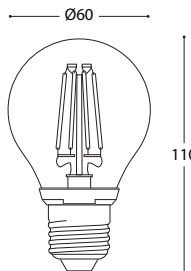

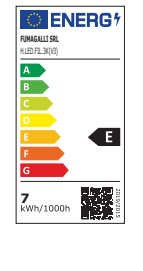


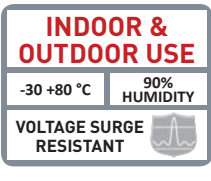



6500K - 1200lm
 4000K - 1200lm
 2700K - 1100lm





E27 LED A60- CCT SETTABLE				
	POWER	8,5 W	11 W	
	LUMINOUS FLUX (Φ TOTAL)	2700 K	840 lm	1100 lm
		4000 K	920 lm	1200 lm
	6500 K	920 lm	1200 lm	
	SIZE & SOCKET	 <p>86% savings =60W incandescent</p>	 <p>85% savings =75W incandescent</p>	
	VOLTAGE	100-240 V	100-240 V	
FREQUENCY		50/60 Hz	50/60 Hz	
DISPLACEMENT FACTOR		>0,5	>0,7	
PSTLM (NO FLICKER)		< 1	< 1	
SVM		0,4	0,4	
CRI		> 80	> 80	
SDCM		<6	<6	
LIFETIME		25.000 h	25.000 h	
EFFICIENCY CLASS		F	F	
REF. CODE		H.LED.A60.CCT	H2.LED.A60.CCT	
 <p>CCT SETTABLE 2700 K 4000 K 6500 K SDCM <6</p>	 <p>ENERGY+ FUMAGALLI S.R.L. H.LED.A60.CCT A B C D E F G 9 kWh/1000h</p>	 <p>CE LVD CB EMC ERP</p>	 <p>IECEE CB CERTIFICATE: SG PSB-LE-03297</p>	
 <p>INDOOR & OUTDOOR USE -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT</p>		<p>COMPLY WITH: EU 2019/2015 EU 2019/2020</p>		

E27 LED FILAMENT A60			
	POWER	6,5 W	
	LUMINOUS FLUX (Φ TOTAL)	2700 K	800 lm
	SIZE & SOCKET	 <p>89% savings =60W incandescent</p>	
	VOLTAGE	100-240 V	
FREQUENCY		50/60 Hz	
DISPLACEMENT FACTOR		>0,5	
CRI		> 80	
SWITCHING CYCLE		>100.000	
WARM UP TIME		≤ 0,5"	
LIFETIME		25.000 h	
EFFICIENCY CLASS		E	
REF. CODE		H.LED.FIL.3K	
 <p>CCT SETTABLE 2700 K 4000 K 6500 K SDCM <6</p>	 <p>ENERGY+ FUMAGALLI S.R.L. H.LED.FIL.3K A B C D E F G 7 kWh/1000h</p>	 <p>CE LVD CB EMC ERP</p>	 <p>IECEE CB CERTIFICATE: SG PSB-LE-03735</p>
 <p>INDOOR & OUTDOOR USE -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT</p>		<p>COMPLY WITH: EU 2019/2015 EU 2019/2020</p>	