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.



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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.

UP&DOWN

GARDEN

REFERENCES

POST









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





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



ERP Attestation of conformity: Fumagalli lamps fulfil the European Ecodesign Directive 2009/125/ EC and EU 2015/1428 about the energy performance requirements of energy related products. Lamp lumen maintenance factor after 6.000 hrs > 80%

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 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).





BULKHEAD

GARDEN

COMPANY

UP&DOWN

DOWNLIGHT

IN-GROUND

BRICKLIGHT

FLOODLIGHT

BOLLARD

POST

E27 HIGH POWER LED

TÜV- CB CERTIFIED LED MODULES

DOWNLIGHT

IN-GROUND

BRICKLIGHT

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

GOLD WIRE BONDING

 120 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.



• Opal color lens reducing dazzle.

fumagalli"

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



HEATSINK

- Made by white painted aluminum.
- Special design to grant a correct heat dissipation.



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.



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.





H. LED. HIP. 4K 50W 210mA 4000K 100-240V 50.60Hz 2312

		E27 HIGH POWER LED				
		POWER	15 W		30 W	
OUTDOOR USE OF MUNICIPALITY OF THE OWNER OWNER OF THE OWNER OWNE		LUMINOUS FLUX	1800 lm		3500 lm	
		SIZE & SOCKET			Ø100 — 165 E27	
PF +0.9	Illinn II	EFFICIENCY	120 L	.m/W	116L	m/W
CRI >80		VOLTAGE	100-2	240 V	100-2	240 V
019 1 3000 K	and and a second se	FREQUENCY	50/6	0 Hz	50/6	0 Hz
		CURRENT	130 mA		135 mA	
		POWER FACTOR	> 0,5		> 0,9	
		COLOR RENDERING INDEX RA	> 80		> 80	
		SDCM	< 6		< 6	
	A C E	BEAM ANGLE	200°		200°	
SILICONE PROTECTION			< 0,5"		< 1"	
DRIVER		WARM UP TIME	30.000			
	LVD EMC ERP 6000h	SWITCHING CYCLE			30.000	
INDOOR & OUTDOOR USE -30 +80 °С <u>90%</u> НИМІДТУ		LIFETIME	25.0		25.0	
		KELVIN	4000 K	3000 K	4000 K	3000 K
		REF. CODE	H3.LED.HIP.4K	H3.LED.HIP.3K	H2.LED.HIP.4K	H2.LED.HIP.3K
		COMPARISON	15W 1800 Lm	100W incandescent	30W 3500 Lm	= 50W HQI-SON
VOLTAGE SURGE RESISTANT				NE (***	SA A	0%
					ų -	<u>U</u>
		E27 HIGH POWER LED	50		() ()	
	ENERG ^{Y BA} erepris-texperies	E27 HIGH POWER LED	50	W	60	W
			50 5300	W	7000	W D lm
OUTDOOR & 20 Minute NDOOR USE ON Minute 50W 5000lm		POWER		W D lm		W D lm
DUTDOOR & 20° Harmetry INDOOR USE 20° Harmetry 50W 5000Lm		POWER LUMINOUS FLUX	5300 Ø118 E2 106 L	W D lm 185 27 m/W	7000 Ø138	W D lm 205
DUTDOOR & 20° Harder NDOOR USE 20° Harder 50W 5000Lm 100-2407 210 mA PF > 0.9		POWER LUMINOUS FLUX SIZE & SOCKET	5300 0118 E2	W D lm 185 27 m/W	7000 Ø138	W D lm 205 27 m/W
		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY	5300 Ø118 E2 106 L	W D lm 185 27 .m/W 240 V	7000 Ø138 E2 116 L	W D lm 205 27 m/W 240 V
DUTDOOR & 20° Harder NDOOR USE 20° Harder 50W 5000Lm 100-2407 210 mA PF > 0.9		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE	5300 Ø118 Ø118 E2 106 L 100-2	W D lm 185 27 	7000 0138 01 01 01 01 01 01 01 01 01 01	W D lm 205 27 m/W 240 V 0 Hz
		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY	5300 0118 01 0118 01	W D lm 185 27 	7000 0138 01 01 01 01 01 01 01 01 01 01	W D lm 205 27 m/W 240 V 0 Hz mA
		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT	5300 0118 E2 106 L 100-2 50/6 210	W D lm 185 27 .m/W 240 V 0 Hz mA 0,9	7000 Ø138 Ø138 E2 116 L 100-2 50/6 290	W D lm 205 27 m/W 240 V D Hz mA 0,9
		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT POWER FACTOR	5300 Ø118 Ø118 E2 106 L 100-2 50/6 210 > 0	W D lm 185 27 m/W 240 V 0 Hz mA 0,9 80	7000 Ø138 Ø138 E2 116 L 100-2 50/6 290 > 0	W D lm 205 27 m/W 240 V 00 Hz mA 0,9 30
		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT POWER FACTOR COLOR RENDERING INDEX RA	5300 0118 0118 E2 106 L 100-2 50/6 210 > 8	W D lm 185 27 m/W 240 V 0 Hz mA 0,9 80 6	7000 Ø138 Ø138 E2 116 L 100-2 50/6 290 > 0 > 8	W D lm 205 27 m/W 240 V 0 Hz mA 0,9 300 6
DUTDOOR & LAAAU		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT POWER FACTOR COLOR RENDERING INDEX RA SDCM	5300 0118 0118 E2 106 L 100-2 50/6 210 > 0 > 8 <	W D lm 185 27 m/W 240 V 0 Hz mA 0,9 30 6 0°	7000 0138 01 01 01 01 01 01 01 01 01 01	W D lm 205 27 m/W 240 V 0 Hz mA 0,9 30 6 6 0°
CUTDOOR & OCANON DOOR USE OCANON DOW SOOOLD DO-240V DO		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT POWER FACTOR COLOR RENDERING INDEX RA SDCM BEAM ANGLE	5300 0118	W D lm 185 27 m/W 240 V 0 Hz mA 0,9 80 6 0° 1″	7000 0138 014 015 015 015 015 015 015 015 015	W D lm 205 27 m/W 240 V 0 Hz mA 0,9 30 6 00° .5″
CUTDOOR & OCANON DOOR USE OCANON DOW SOOOLD DO-240V DO		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT POWER FACTOR COLOR RENDERING INDEX RA SDCM BEAM ANGLE WARM UP TIME	5300 0118 0118 E2 106 L 100-2 50/6 210 > 0 < 1 20 < 1	W D lm 185 27 185 27 185 27 27 240 V 240 V 240 V 0 Hz mA 0,9 80 6 0° 1" 000	7000 Ø138 Ø138 Ez 116 L 100-2 50/6 290 > 0 < 0 < 0	W D lm 205 205 27 m/W 240 V 0 Hz mA 0,9 30 6 00° .5″ 000
CUTDOOR & COMMING DOOR USE COMMING DOW SOOOLD TOU-240V TO		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT POWER FACTOR COLOR RENDERING INDEX RA SDCM BEAM ANGLE WARM UP TIME SWITCHING CYCLE	5300 0118 0118 E2 106 L 100-2 50/6 210 > 0 > 0 < 0 30.0	W D lm 185 27 185 27 185 27 27 240 V 240 V 240 V 0 Hz mA 0,9 80 6 0° 1" 000	7000 Ø138 Ø138 E2 116 L 100-2 50/6 290 > 0 < < < < < < < < < < 	W D lm 205 205 27 m/W 240 V 0 Hz mA 0,9 30 6 00° .5″ 000
CUTDOOR & OCANON DOOR USE OCANON DOW SOOOLD TOO-240V TOO-		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT POWER FACTOR COLOR RENDERING INDEX RA SDCM BEAM ANGLE WARM UP TIME SWITCHING CYCLE LIFETIME	5300 0118 0118 E2 106 L 100-2 50/6 210 > 10 210 > 0 30.0 25.0	W D lm 185 27 .m/W 240 V 0 Hz mA 0,9 80 6 0° 1″ 000 00 h	7000 Ø138 Ø138 E2 116 L 100-2 50/6 290 > 0 < 0 30.0 25.00	W D lm 205 27 m/W 240 V 0 Hz mA 0,9 30 6 00 57 000 00 h
Since Protection DUTDOOR & DOOLINE DOW SOOOLINE		POWER LUMINOUS FLUX SIZE & SOCKET EFFICIENCY VOLTAGE FREQUENCY CURRENT POWER FACTOR COLOR RENDERING INDEX RA SDCM BEAM ANGLE WARM UP TIME SWITCHING CYCLE LIFETIME KELVIN	5300 0118 0118 E2 106 L 100-2 50/6 210 > 0 < 0 < 0 < 0 < 0 < 0 < 0 < 0 <	W D lm D lm 185 27 m/W 240 V 0 Hz mA 0,9 30 6 0° 1" 000 00 h 3000 K H.LED.HIP.3K 70W HQI-SON	7000 Ø138 Ø138 E2 116 L 100-2 50/6 290 > 0 290 > 0 200 < 0 30.0 25.00 4000 K H4.LED.HIP.4K 60W =	W D lm 205 205 27 m/W 240 V 0 Hz mA 0,9 30 6 0° .5" 000 00 h 3000 K H4.LED.HIP.3K







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URBAN MODERN URBAN CLASSIC

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