



DESCRIPTION

Firefly, clean energy, atmosphere lighting, Italian design. Firefly is designed for a public-private partnerships, as sort of "ambassador" of the values of respect for the environment and the real possibility of creating a city "on a human", more liveable and especially eco-compatible.

Firefly is able to store the solar energy accumulated during daylight hours and to turn it into electricity during the night as soon as twilight sensor activates. Firefly does not require maintenance.

The singular form is absolutely creative, a large transparent cube, unique as an artwork, allows Firefly to be easily inserted in an urban or modern or old town. As Firefly is transformed from day to night, transforms also its image, adapting to the environment.

Firefly as a firefly, absorbs the energy of the day to light the night, it's designed to be placed in the garden, in parks and in the mountains because they do not need to carry out excavation works and connection to distribution of electricity.

Firefly does not pollute the sky during the night and its original forms make it an object indicated not only for lighting but also to give to yourself or to your friends light a clean "no cost"

Firefly was exposed at "Modern & Contemporary ART Gallery" of Bergamo city

Patent pending: BG.20060000005 04/09/06
Designer: Arch. Fulvio Valsecchi

FIRE FLY

SOLAR URBAN LAMP:

- **Powered by solar cells**
- **Suitable for outdoor application, degree IP66**
- **Delayed twilight sensor**
- **Li-ion internal battery**
- **High efficiency power LED lamp**
- **Applicable to urban areas: parking, gardens, squares, cycling paths**

TECHNICAL FEATURES

Solar Cell

Quantity:.....n°3 cells
Technology:.....mono crystal silicon
Power: 12V 10W peak

Lamp

Quantity:.....1 face x 12 leds or 3 faces x 36 leds
Technology:.....high efficiency power leds
LED light power:.....90 Lumen
Lamp light power:.....1080Lumen
LAD life-time:.....50.000 h (20 years)

Battery integrated

Quantity:.....n°1 battery
Technology:.....Li-Ion, rechargeable
Technical data:..... 12V 24Ah
Autonomy:.....min. 3 days (without sun)
continuos with sun interval of at least 5hrs
Life-time:.....15 years
Dimensions:.....166X155X86mm
Weight:.....1,8 kg

Regulator

Protections:..... overload, over-discharge,
..... over-temperature, polarità inversion safe
Technical data:.....Max allowable current 5A

Movement and twilight sensor

Twilight threshold:..... regulation 1-350 lux
Delay settings:..... 0-7 hrs
Detection angle:.....110°
Max detecting distance.....8m

Structure:

Cube dimensions side:..... 46cm
Lamp material:.....plexiglass GS
Metal support:.....painted Zn steel
Cube weight:.....26kg
Support height:.....variable 2-3m



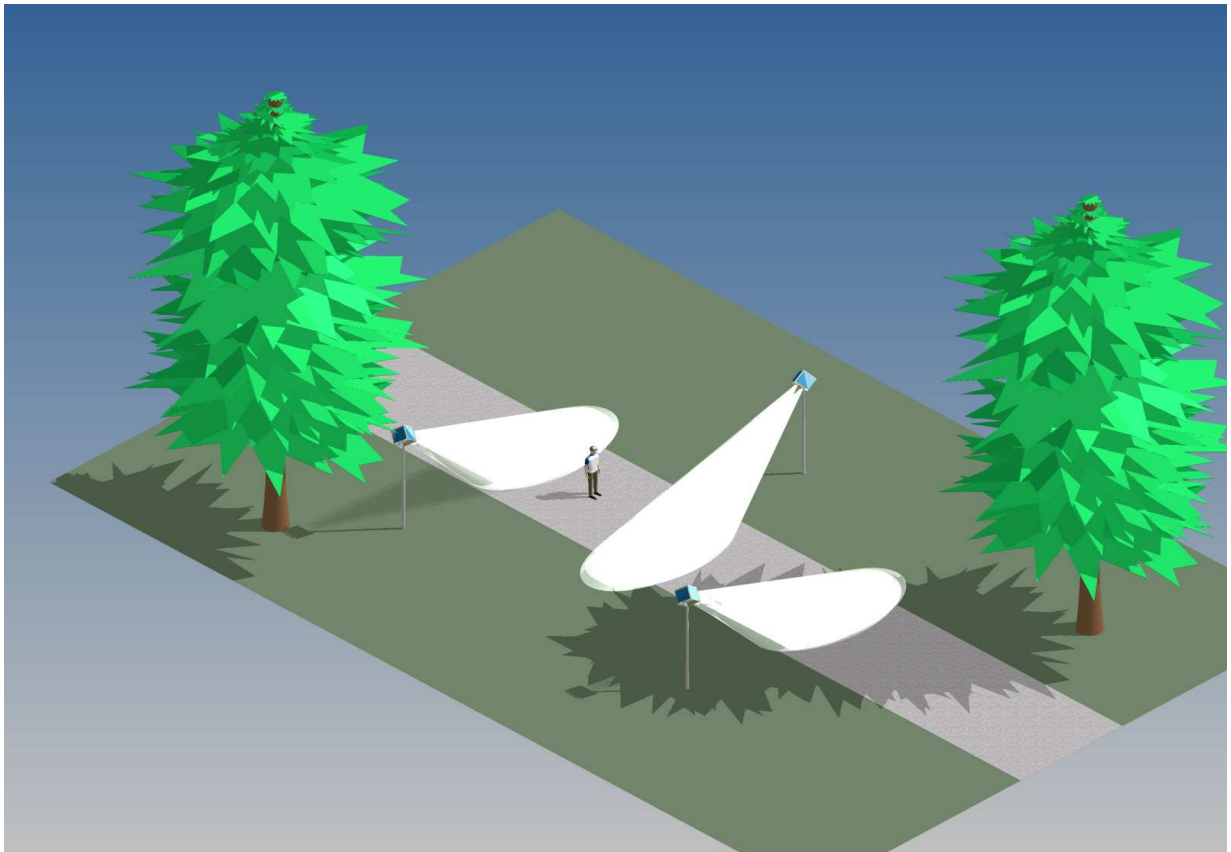
COMPARISON TABLE WITH A TRADITIONAL LAMP

		LED LAMP FIREFLY	TRADITIONA LAMP
LUMINOSITY	[lm]	1000	1000
EMISSIVITY	[lm/W]	140	13
ELECTRICAL POWER ABSORBED	[W]	7	80
YEARLY POWER CONSUMPTION	[kWh]	0	250
YEARLY COST OF ENERGY	[EURO]	0	50
YEARLY CO2 EMITTED	[Kg]	0	163
YEARLY CARBON UTILIZATION	[Kg]	0	55
YEARLY O2 SAVED	[Kg]	0	178
MAINTENANCE INTERVAL	[YEAR]	8	2
BATTERY DISPOSAL COST	[EURO]	1	0



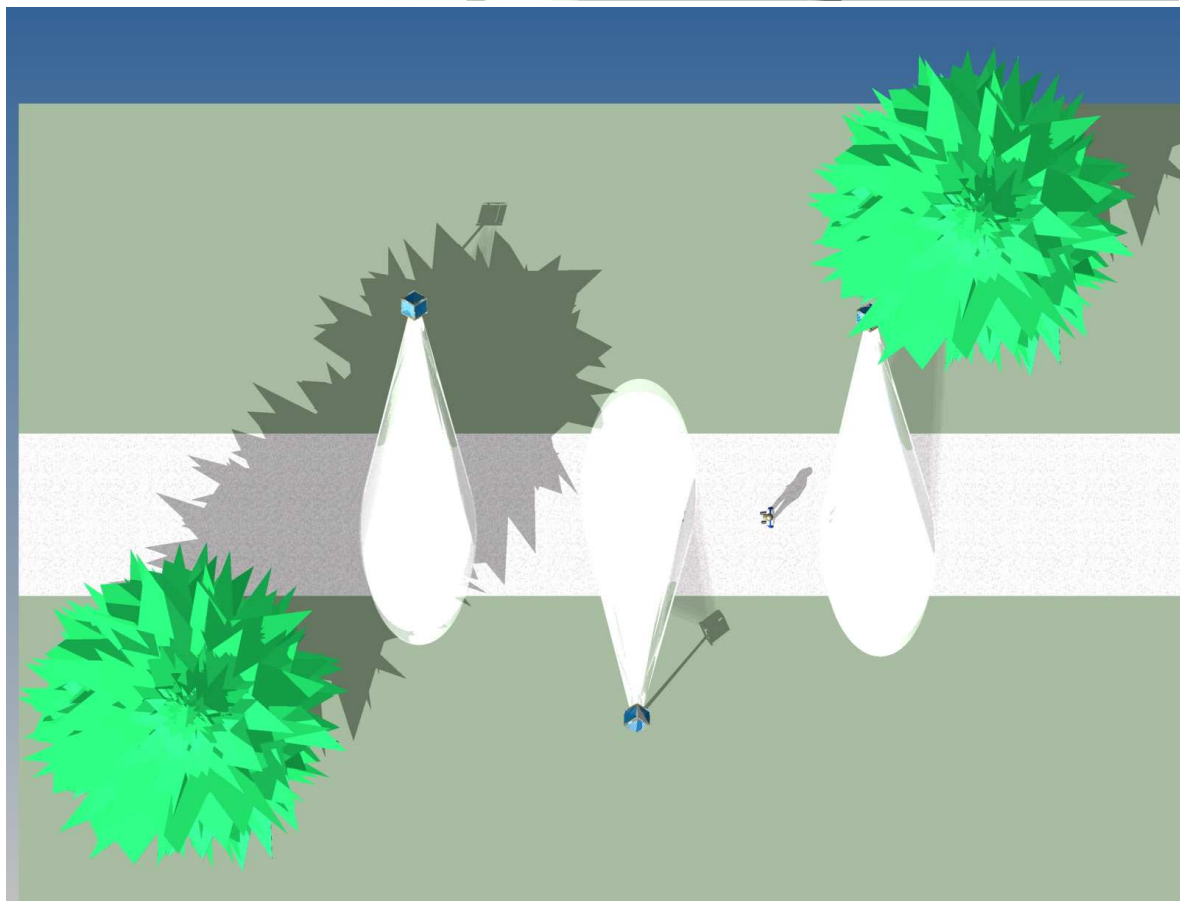
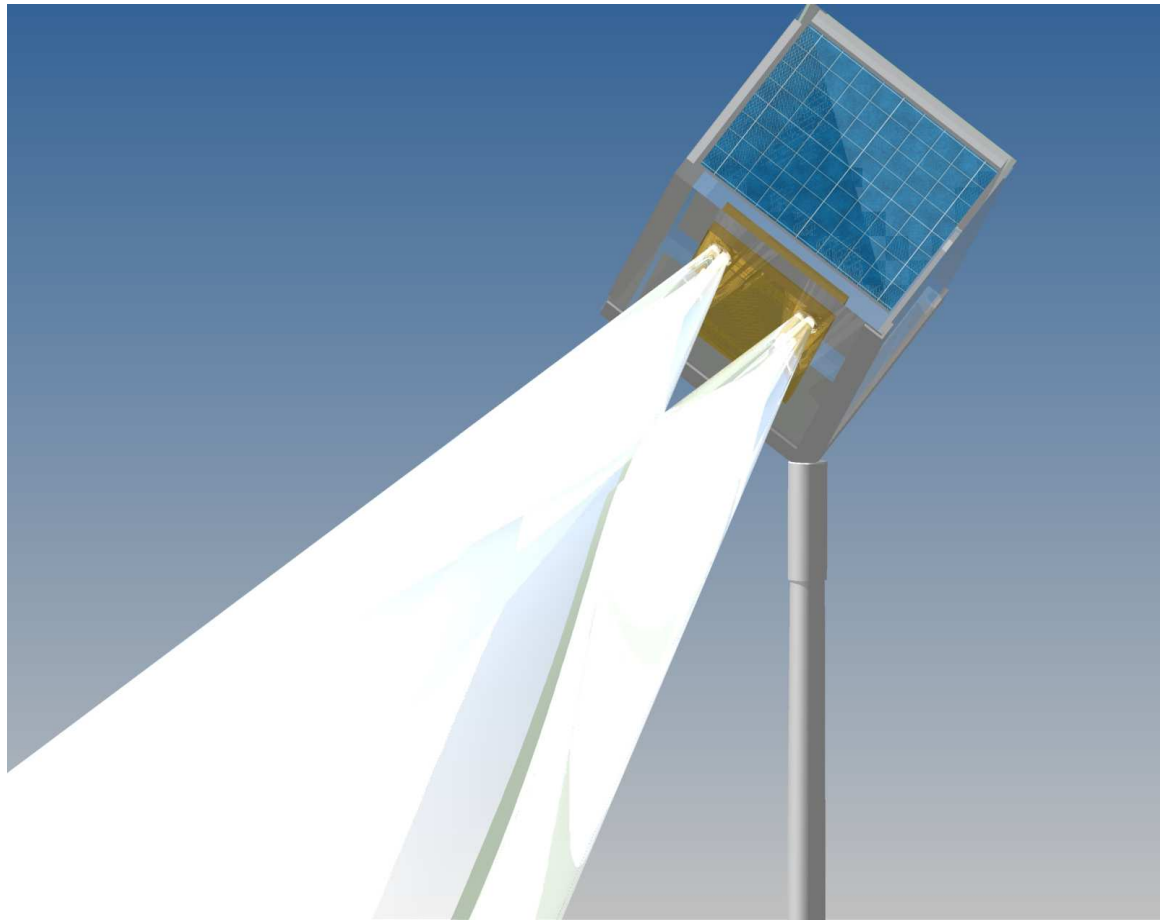
SOLAR CELL LI-ION LAMP

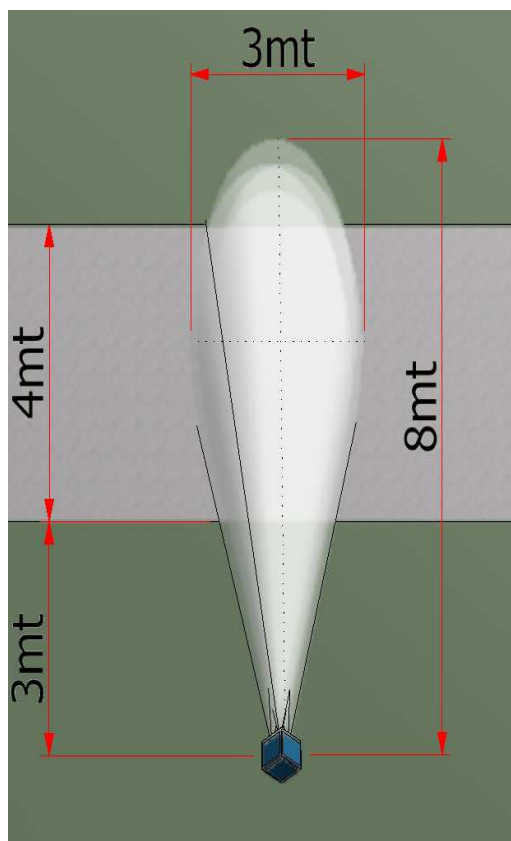
FIREFLY rev.E 24.01.14



SOLAR CELL LI-ION LAMP

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Illuminance on horizontal surface according to UNI10819

