

## ***Standard* requalification project for Gavoi**

Information about **Light 804** – LLM Fortimo Technology product – Gavoi municipality installation



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## 1. Background

Gavorio it's a small timeless municipality on the Italian island of Sardinia. The historic centre, with its charming Romanesque San Gavino church, is more than worth a visit. Even so, time has not stood still here, and the municipality has made reducing its power consumption and CO2 impact a priority. For example, the town collaborated with a major supplier of solar power to equip a large public building with solar panels. And planning to install LED-based lighting ensured that municipality received a grant to replace the outdated luminaries.

## 2. The challenge

The existing lighting in Gavorio comprised high-pressure sodium lamps in two common wattages, 100W and 120W. The main disadvantage of these lamps is the unnatural yellow light. This light results in poor colour rendering of illuminated objects, and produces a lot of spill-over light, creating irritating light pollution and wasting energy. Opting for the Neri Lanterna PN804L321 has delivered two benefits for the price of one – improvements in the quality of light and a dramatic reduction in power consumption. The secret inside these attractively shaped, classically styled lanterns is the innovative Philips Fortimo LED linear light modules (LLM). Fortimo LED LLM system provides high-quality, natural white light that makes people feel safe and comfortable.



### 3. The solution

350 Light 804 luminaires equipped with Fortimo LED LLM were installed on 40 streets in Gavoi. Initially the municipality had reservations about switching to LEDs, expecting a harsh bluish light. Once the first lanterns were installed, it became clear that these doubts were completely unfounded. The pleasant, warm white light from the Fortimo LED LLM has excellent colour rendering. This ensures that even at night the village retains its characteristic and charming atmosphere. And thanks to the excellent optics the light only shines where it is needed.

### 4. Benefits

The residents especially appreciate the natural colours while the municipality is very pleased with the tremendous energy savings achieved with this lighting solution. When compared to the previous high-pressure sodium lamps, with power usage of 100W to 120W, the Fortimo LED LLM only consumes 53W, delivering a cost reduction of over 50%. The Fortimo LED LLM has a lifetime of 50,000 hours, compared to approximately 20,000 hours for high-pressure sodium lamps, which also cuts overall costs and significantly reduces maintenance expenditure.



## 5. Previous situation

