



# Bellecour Place, City of Lyon



## Existing Installation and Needs

The Place Bellecour is a large square in Lyon, France that serves as the city's focal point. This symbolic location is home to many special events throughout the year drawing tourists from all over. Because of its popularity the square must not only remain aesthetically pleasing but functional as well.

Place Bellecour, is part of a global renovation project launched by Grand Lyon, that includes renovation of public lighting led by the French light engineering office Les Eclairagistes Associés (LEA). The existing installation included 18 poles with four luminaires each at 18 meters high; two luminaires are equipped with 700W lamps that switch off at midnight and two luminaires equipped with 400W lamps that are always kept on.

The city had several different lighting needs including the need to improve the lighting to prevent shadow areas, the desire to save energy and the need to easily change the lighting depending on the event taking place in the square.



## The Solution

New installation is made of 12 poles (We-ef) equipped with 6 luminaires of 48 LEDs 120W (CRI XPG 3000°K) at 15 meters high. Each luminaire offers a diffused lighting and not a targeted lighting as before.

Eight of the poles are also equipped with traditional projectors to light the front walls and the south part of the square. Two poles in the center of the square are equipped with special projectors to illuminate the statue of King Louis XIV.



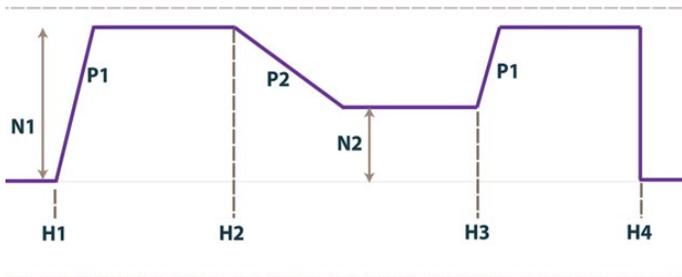
Installation also includes CityLone's driving system, comprised of one astronomical clock, one driving controller placed in the cabinet, one remote controller as well as SL31-EDA-ECS-P modules in each pole. This installation

allows the lighting to be dimmed or intensified according to the needs of the special event that is taking place.

Before the renovation, Lyon's public lighting would automatically turn on at 100% power. However with the new installation the power is decreased to 50% at midnight and returned to 100% at five o'clock in the morning. Each time a special event is planned a technician can come and modify the levels and times of dimming by simply using the astronomical clock and remote controller (modifications are validated until the next network cut).

All the below parameters can be modified:

- Hours:** H1-H4: Switch on and switch off of public lighting network  
H2-H3: Hours of beginning and end of dimming, parametered by the clock, can be modify
- Levels:** N1-N2: Level of lighting, can be modify with the remote controller
- Slopes:** P1: Slope of progressive lighting  
P2: Slope of progressive dimming (can be modify by the remote controller).



Schematic presentation of the system:

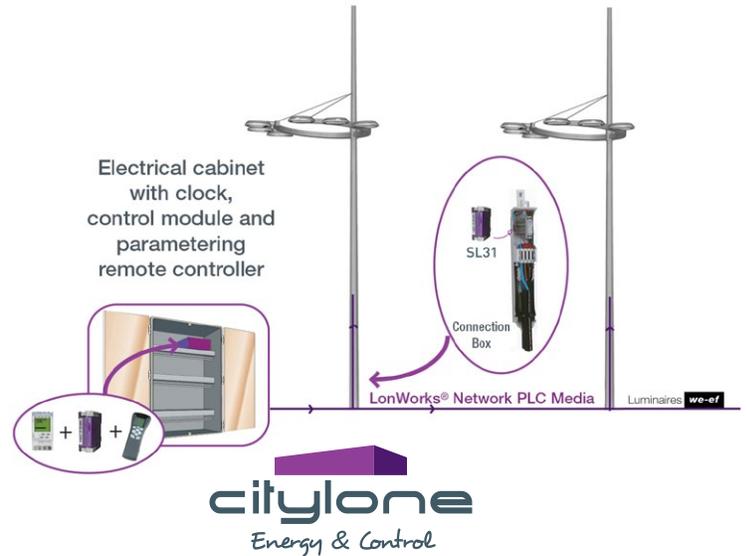


Photo presents old installation at right and new installation at left: changes in lighting can be easily noticed.



## Results

Lyon City's estimated energy savings after installation of the complete system is **133,000 kWh**. The City appreciates the flexibility and intuitiveness of the system as well as the savings on LED length life due to the dimming of the lights each night.

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