



## ENERGY SAVER

### GOAL :

To reduce the tension of the lighting network during the hours when the traffic is lowest :

- 1 / by decreasing the level of illumination by 40%
- 2 / by maintaining the luminous uniformity
- 3 / by decreasing energy consumption
- 4 / by decreasing maintenance costs by the increased lifespan of the lamps and components

### EXAMPLE IN FIGURES :

50 lamps 150W SHP installed after a circuit breaker of 18 Kw.

To calculate, let's take the example of lighting that functions 11 hours per night.

The energy consumption of lighting without VARILUX for one year is :

$$50 \times 0.150 \times 11 \times 365 = 30.112 \text{ KW}$$

With VARILUX, 7 hours per night, the annual consumption becomes :

$$(50 \times 0.150 \times 4 \times 365) + (50 \times 0.09 \times 7 \times 365) = 22.447 \text{ KW}$$

The average cost of consumed KW being approximately 0.11 €uros in France,

We obtain savings of :

$$(30.112 - 22.447) \times 0.11 = 843,15 \text{ euros}$$

### INSTALLATION :

The VARILUX is installed after the circuit breaker of the public lighting network.

It exists in three-phases or single-phase.

### CONCLUSION :

Amortization is carried out over 3 years, without taking into account the improvement of the lifespan of the lamps and components.