

# Lighting Audit

Less power consumption, better quality

## ■ Surprising reduction in power consumption

The new generation of lighting systems offers surprisingly large savings. The return on investment of a 'relighting' project can reach a factor of three to five. The lighting comfort often increases too, and this has a positive effect on safety, productivity and welfare in the workplace. Is the light intensity too low, the light badly distributed, are there annoying reflections or is there direct glare? This can be solved and moreover, the new appliances are much easier to maintain.

## ■ A brief summary of the possibilities

Relighting is not often high on the agenda. And there's a good reason for that - you have other priorities to focus on. But that's a pity. Why not let an external expert draw up a list of the relighting possibilities for your company, and assess the situation yourself? A preliminary study of this kind guarantees that any investment you make in a relighting project will give the maximum return.

## ■ Make use of independent experts

When carrying out a preliminary study of this kind you will probably want guarantees as to the relevance and neutrality of the study. The lighting experts of Laborelec can give you these guarantees. They work from their own, extensive expertise, are entirely independent of the manufacturers and installers, and are well aware of the latest standards and specifications. They will spend a half-day at your company to assess the situation, and then give a series of concrete proposals to increase the output and quality of your lighting system.

## ■ From measurements to specifications

Our lighting experts quickly and efficiently find the relighting measures with the shortest payback times, the best lighting quality and the lowest maintenance requirements. They base these proposals on measurements, background knowledge, manufacturers' data and computer simulations. They take account of your main priorities and of your investment possibilities. This results in clear and well-organised specifications for your installation.

## ■ A few examples of relighting measures

### ■ Energy-saving bulbs to replace light bulbs

The light output of an energy-saving bulb is 5 times higher than that of an ordinary light bulb. Some brands may even last 12 times longer.

### ■ The latest generation of fluorescent tubes

The current fluorescent tubes (still known popularly as "neon" tubes) have a very high light output (up to 104 lm/W) and a very long life. As opposed to the old generation they give a more pleasant light and a better colour rendering index. Not only that, but they are more environmentally friendly.



The technical Competence Center  
in energy processes and energy use.  
**From innovation to operational assistance.**



We will help you to find the best possible lighting system with the lowest possible power consumption.

#### ■ Efficient mirror optics

Efficient mirror optics concentrate the light where it is most needed. This means that the number of lamps can be reduced without affecting lighting levels. Savings of up to 30% can be realised. Moreover, they enable to control glare.

#### ■ Electronic ballasts

Electronic ballasts consume 60% less power than conventional ballasts. Moreover, they increase the life of lamps and consume no reactive energy. They do not cause noise pollution, they start the light without flickering and give stable light with no stroboscopic effect.

#### ■ Intelligent light managing systems

Think about dimmers, timers and movement detectors. In many cases these systems can generate considerable energy savings. They can be implemented centrally or locally.

#### ■ Complex technology

Lighting technology is developing at a fast pace, sometimes giving rise to new difficulties, such as compatibility between different appliances. Our Laborelec experts are well aware of the latest developments and can solve all problems of this type with ease. They are also well versed in the latest standards and know exactly how to interpret them in practice.

#### ■ Objective recommendations

When dimensioning installations our experts use the leading manufacturers' databanks. They calculate quality and profitability with an independent simulation software. Their complete independence from the manufacturers is your guarantee of objective advice.



#### Five reasons for you to choose Laborelec:

- you have one-stop shopping for your energy needs;
- you get access to more than 40 years of experience;
- you get rapid service with reliable solutions;
- you increase the profitability of your installations;
- you benefit from independent and confidential advice.

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