

# *Switching to LEDs in demanding environments*



EXCELLENT LIGHTING, SAVING ENERGY

## From fluorescent to LED in a few steps

Have you been relying on our E1 lighting with high protection factor and would you like to move over to LEDs? ETAP has developed a renovation module, which you can use to switch your existing E1 installation to LEDs quickly and efficiently.

The E1 is THE reference for industrial lighting with high protection factor. The series features protection class IP65/IK08 and is at home in the most demanding environments: heavy industry, chemistry, humid environments, etc.

With the renovation module you can effortlessly switch to LEDs, without replacing the durable E1 luminaires. Thus not only saving time, but also costs.

### Why switch?

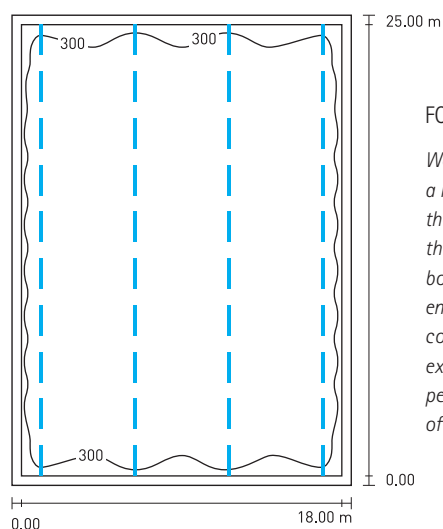
Lighting with LEDs offers a number of important advantages. They are much more energy-efficient, enabling you to save up to 40% energy. In addition they have a longer service life (50,000 h) than fluorescent lamps, reducing the maintenance cost to a minimum.

The E1 renovation module is fitted with two quality LED tubes, resistant against gas corrosion (EN60068-2-60) and with a long lifespan. Potentially defective lamps can be easily replaced.

### Existing housing, new light source

The switchover takes place in three easy steps (see box). The housing and connection are retained and only the reflector with the fluorescent lamps need to be replaced. As a result, no adjustments to the ceiling or electrical cabling is necessary. A suitable LED alternative is available for each existing lighting installation, with the correct light distribution and desired lighting level.

If you so wish, an ETAP team will visit you to analyse your specific scenario and carry out the renovation. Depending on the situation, cost recovery is possible as of 3 years.



### FOR EXAMPLE:

We replaced 40 E1 luminaires by as many LED modules in a maintenance hall measuring 18 x 25 metres. As a result, the specific power drops from 2.51 to 1.55 W/m<sup>2</sup>/100 lx whilst the lighting level remains nearly constant. This boils down to a total saving of 40% on energy costs. In addition, the maintenance cost for lamp replacement is non-existent. This equals a cost recovery period of 3.5 years (with an energy cost of 0.12 €/kWh).

Contact your  
ETAP advisor for  
detailed information.  
Should you wish, we  
will carry out the full  
renovation for you.

### FAST AND EASY INSTALLATION

3 installation steps:



Open the protective cover then remove the reflector with the fluorescent lamps and disconnect the plug.



Screw down the new brackets and connect the LED module (by simply plugging in).



Click the LED module in place and close the protective cover.