Case study
Consum supermarkets

| Location | Valencia, Spain |
| Philips Lighting | MASTER LEDtube GA and SA, LuxSpace Accent |

PHILIPS

''The actual results we obtained following the renovation have exceeded our expectations. We now have a supermarket equipped with the best lighting technology on the market that is, in return, producing energy savings of 60% compared with the installation we had previously. We can now be proud as we are having the most efficiently lit supermarket in the whole of the Valencian Community.''

Javier Martínez Huedo, Director Maintenance Division, Development Department - Consum

Consum: committed to sustainability with the new 100% LED supermarket

Background

Consum is the largest supermarket chain along the Mediterranean coast of Spain, operating in the commercial distribution sector through the Consum and Consum Basic supermarkets, and the Charter franchises. As part of its environmental targets for this year, Consum plans to reduce its carbon footprint by 5% to combat climate change. This is the reason why they have adopted an energy efficiency plan based on making efficient use of its installations, using control-system monitoring, and this represents an active commitment to using efficient technologies.

The challenge

The Consum store offered ample possibilities for energy improvement through simple changes of bulbs and luminaires. Consum and Philips both agreed to use this installation as a testing platform for new solutions. Given its advanced consumption monitoring systems, the improvements resulting from the changes are easily measurable. Until now, Consum has been using energy-saving alternatives based on energy-saving fluorescent tubes (MASTER TL-D Eco) and MASTERColour Elite discharge lamps in its spotlights. At this store, for the first time the group has invested in making the jump to LED technology, showing once again that it is at the technological forefront within the food sector.

The solution

All fluorescent bulbs have been replaced with MASTER LEDtubes GA. The energy saving alone is more than 45%. The light quality and distribution make this product the ideal replacement for traditional fluorescent lighting. For the accent lighting (100W and 150W output) Philips suggested a combination of LuxSpace Accent 40W and 65W respectively. This directable luminaire allows stable adjustment and a secure fixture angle. Furthermore, for the walls and the cooler cabinets, the MASTER LEDtubes SA were used, equipped with the proper optics and sealing for this application type. This resulted in energy savings of more than 65%. This range is designed to be used in both positive cold and negative cold refrigerator displays. Its rotational fitting allows light to be directed to where it is needed and thereby make certain products stand out over others.

Benefits

On completion of the installation, the actual energy savings are higher than the initial forecasts. The consumption indicators, connected to the lighting, show reductions of around 65% in relation to those obtained prior to the installation of the Philips LED solutions. In addition, maintenance costs have dropped to zero from the moment the installation was completed because we have opted for a technology that will last more than 10 years without a single fault.