



ZUMTOBEL



Mondelēz Belgium*

Adding value all the way down the line: a TECTON continuous-row lighting system and a LITENET control system make this lighting solution efficient and flexible.

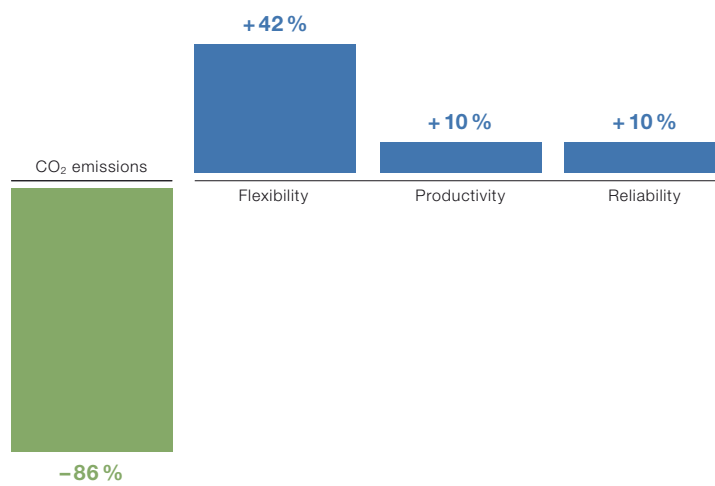
* Mondelēz Belgium Biscuits
Production NV



Better light, lower energy consumption

The internationally well-known Mondelēz International biscuits are produced in a plant that operates 24 hours a day – in this recently renovated 85 m long sawtooth-roof building in Herentals, among other locations. The changeover from luminaires with TECTON T26 fluorescent lamps to a TECTON T16 continuous-row lighting system with LUXMATE LITENET daylight-based control is achieving extraordinary levels of efficiency. Daily energy consumption has been slashed from 829 kWh to 117 kWh. The second objective of this lighting refurbishment was to increase the lighting intensity in order to meet the specifications of the EN 12464 standard. A big improvement in adaptability was achieved thanks to the flexibility of the lighting solution: TECTON luminaires and sensors can be relocated simply, as required; the lighting management system makes it possible to modify each individual parameter at the press of a button.

zumtobel.com/Industrialighting



Mondelēz Belgium Biscuits Production NV, Herentals | BE
Electrical installations: WELEC elektro techniek n.v., Westerlo | BE
Lighting solution: TECTON continuous-row lighting system, LUXMATE
LITENET central daylight- and presence-based control system

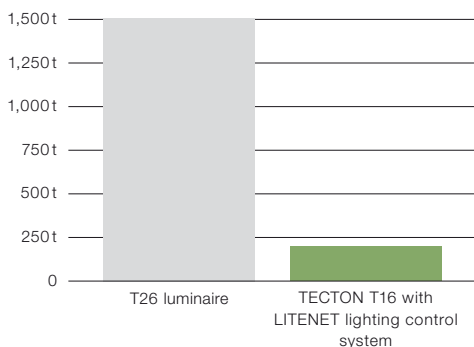
1. CO₂ efficiency and cost efficiency

-86% CO₂

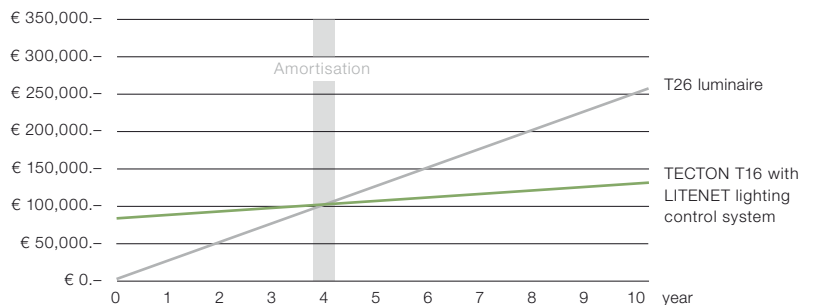
Luminaires and lighting management reduce energy consumption

When the time came to refurbish their lighting, Mondelēz Belgium wanted more light but significantly lower energy consumption. The TECTON continuous-row lighting system is a suitable solution for any manufacturing and storage area with sufficiently high luminous intensity levels to deliver lighting from a height of 6 metres. Compared with the previously installed luminaires with T26 fluorescent lamps, the T16 continuous-row system consumes 42 percent less electricity. A whopping 86 percent cut in electricity bills is achieved by also using a LUXMATE LITENET lighting management system. Parts of the manufacturing workshop are brightened up by the glazed saw-tooth roof, other areas are only used on a temporary basis. An intelligent combination of daylight, presence detectors and IR sensors is making sure that CO₂ emissions will shrink by 1,300 tonnes over the next ten years.

CO₂ emissions over service life (10 years)



Payback period: 4 years (total cost)



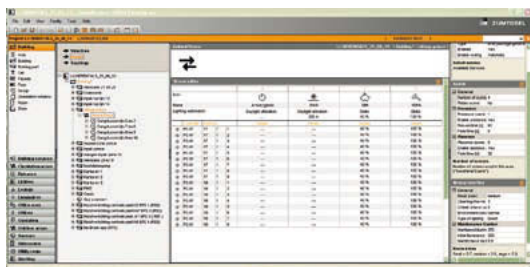
2. Flexibility

+42%

Dual flexibility thanks to plug&play system and control system

Biscuit production lines are frequently reconfigured. This means that critical workstations that need extra light tend to move around. The entire lighting installation and all the daylight sensors and presence detectors in Herentals are monitored by the central LITENET server. In the event of organisational or technical manufacturing changes, Mondelēz Belgium can respond immediately – by making the appropriate settings at the press of a button. Another benefit: TECTON luminaires and sensors are simply suspended from the trunking. One click is enough to make both mechanical and electrical connections. This means that modules can be relocated or rearranged quickly and easily at any time.

At the press of a button: adjustment is really easy using LITENET INBUILD Pro software



3. Productivity

+ 10 %

Lighting that works for hygiene and a sense of well-being

The lighting situation in Mondelēz Belgium manufacturing building was quite unsatisfactory before refurbishment. In many places, illuminance levels barely reached 150 lx. Higher illuminance levels were absolutely necessary in order to make it possible to pay requisite attention to foodstuff hygiene and avoid accidents. 100 lx is sufficient in the warehouse, and 400 lx is provided for food production. This easily meets the targets in EN 12464. Superior lighting quality also ensures that staff members feel at ease and a high level of productivity is achieved.

Better performance thanks to more light



Food production
400 lx

Warehouse 100 lx

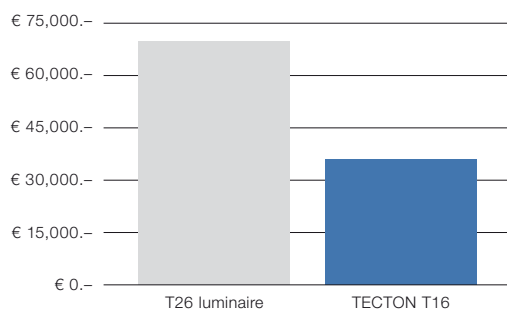
4. Reliability

+ 10 %

Always under control

Central monitoring of the lighting system by the LITENET lighting control system means that Mondelēz Belgium facility managers can keep an eye on every luminaire and every sensor at all times. Their objective is to ensure ideal lighting conditions at all times, without any interruption if possible. At Mondelēz Belgium, TECTON uses T16 fluorescent lamps to produce light. Significantly less is spent on maintenance work thanks to the small number of lamp failures and a low failure rate. Unambiguous indications provided by the lighting management system ensure a fast, reliable response to any faults. The reliability of all luminaires, emergency luminaires and the lighting control system is backed up by Zumtobel's five-year guarantee.

Maintenance costs over service life (10 years)





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Top quality – with a five-year guarantee.

As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products subject to registration within 90 days from the invoice date and in accordance with the terms of guarantee at zumtobel.com/guarantee.

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