

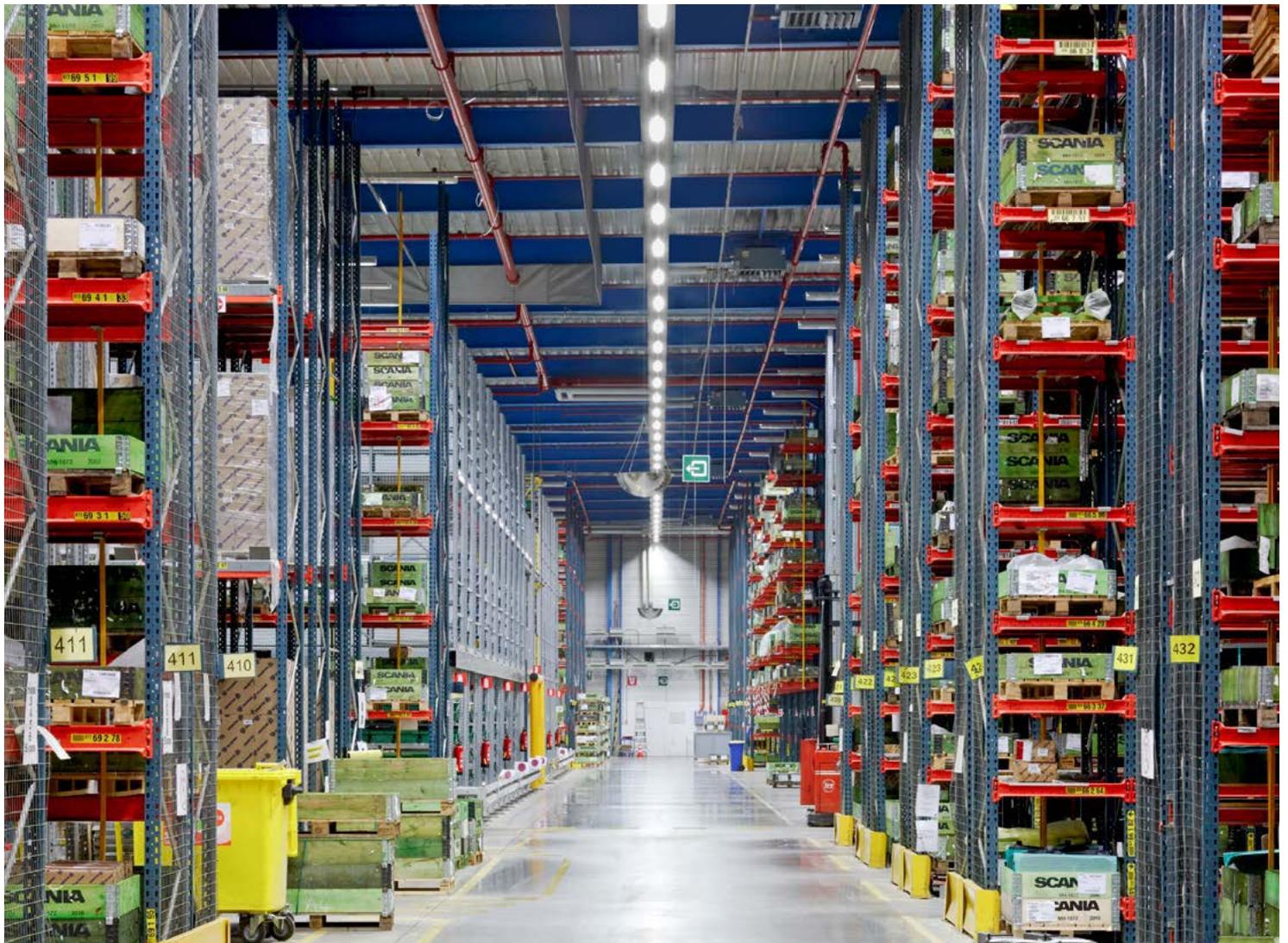


ZUMTOBEL



Scania Parts Logistics

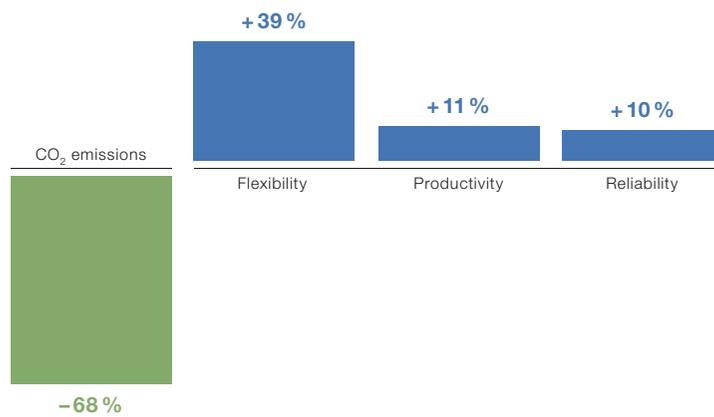
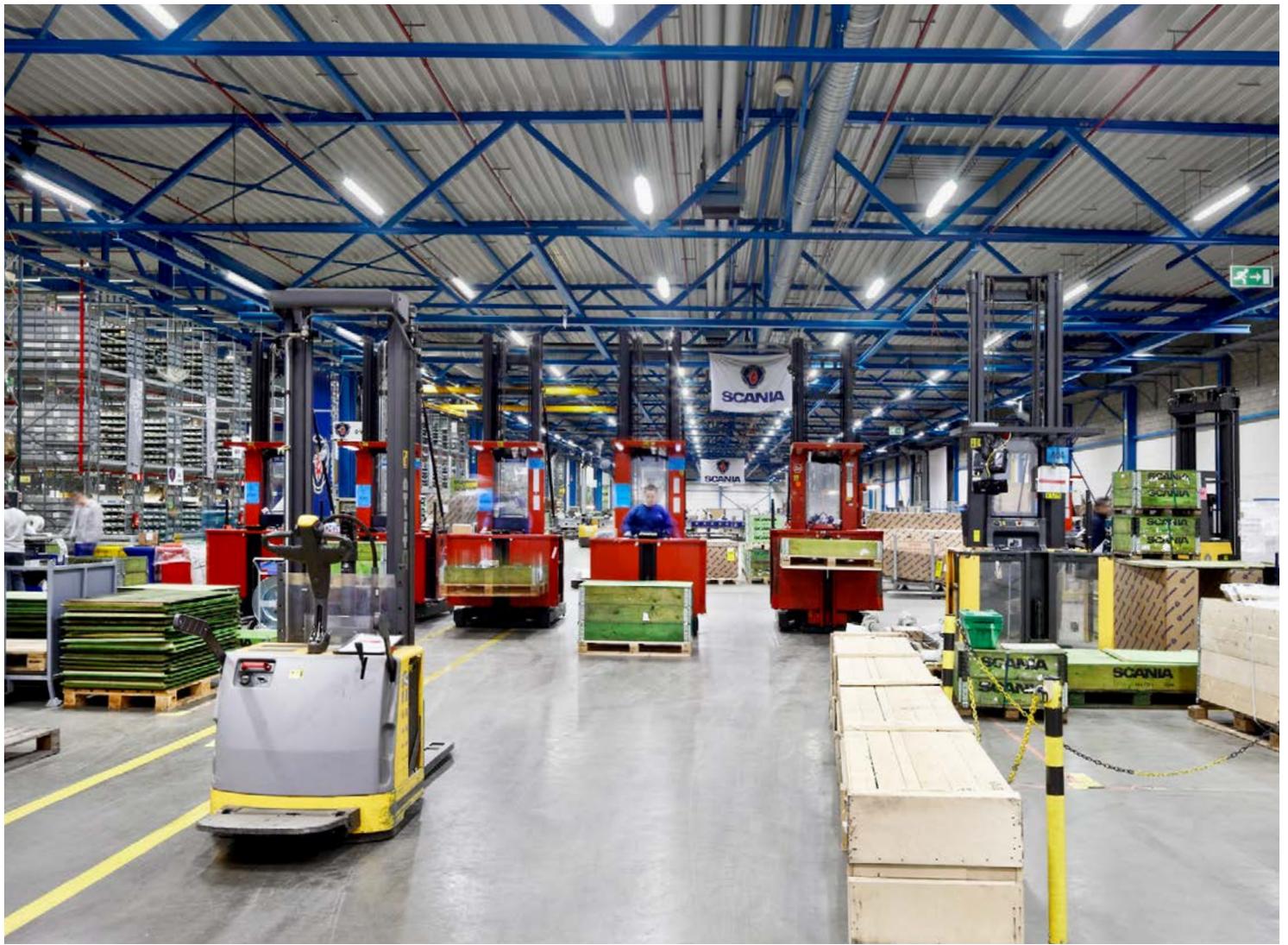
An efficient lighting solution for a dynamic company with dynamic structures: flexible continuous-row system with presence detection and built-in emergency luminaires.



The fastest way

The Scania Parts Centre covers a total area of 100,000m² and is the heart of this international logistics company which handles the global distribution of all Scania parts. Just as they had done three years before when the lighting in the existing buildings was refurbished, decision makers opted for a professional Zumtobel lighting concept for the newly built distribution hall. The huge new 37,500m² building is divided up into zones for order picking and high-bay storage for large and small parts. The smart feature of the lighting solution is a combination of 140 skylights to ensure as much daylight as possible, 1,735 dimmable TECTON T16 luminaires and 210 cleverly used presence detectors in the long rows of racking.

zumtobel.com/Industriallighting



Scania Parts Logistics, Opglabbeek | BE

Architects: Helsen & Van Com Architecten, Hasselt | BE
Technology & energy consultants: Archimedes N.V., Keerbergen | BE
Lighting solution: TECTON continuous-row lighting system with T16 continuous-row luminaires, TECTON PST presence detectors and ONLITE RESCLITE emergency luminaires

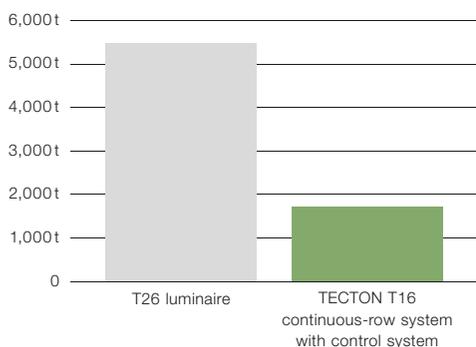
1. CO₂ efficiency and cost efficiency

–68% CO₂

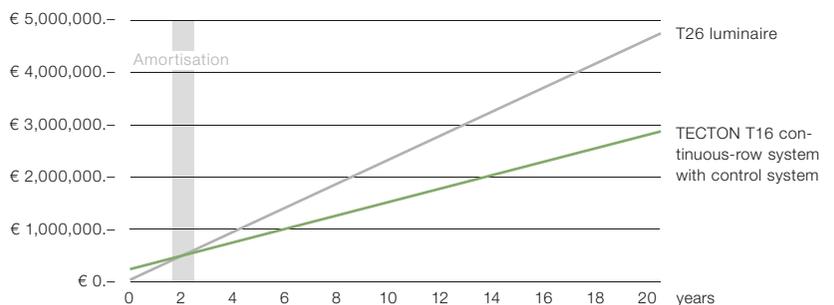
Luminaire and lighting control system reduce energy consumption

An annual energy consumption of just 9.30 kWh per square metre makes this eleven metre high distribution hall an exemplary model of an efficient lighting solution. The starting point for this is a roof structure that enables plenty of natural daylight through skylights. Dimmable TECTON T16 luminaires adjust perfectly to suit the available amount of daylight and ensure a constant lighting level – which is adapted to suit the particular visual task in hand. When individual areas in the stores are temporarily not in use, strategically well positioned presence detectors switch the lights off. Compared with lighting using T26 fluorescent lamps, this lighting solution with a TECTON continuous-row system and a lighting control system will cut CO₂ emissions by 3,700 tonnes over a 20-year period.

CO₂ emissions over service life (20 years)



Payback period: 2 years (total cost)



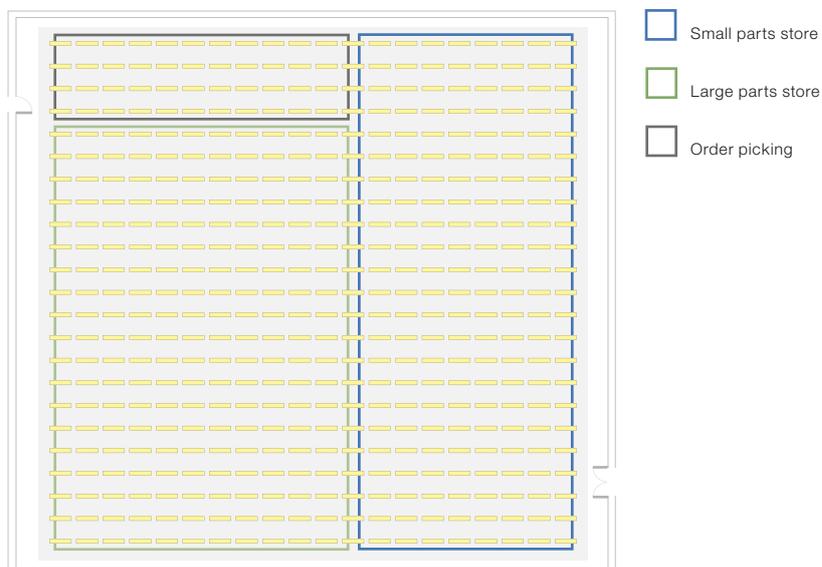
2. Flexibility

+39 %

Flexible thanks to plug & play system and presence detection

TECTON modules are simply suspended from the trunking. One click is enough to make both mechanical and electrical connections. If rows of racking are rearranged or storage and order picking areas are reconfigured, TECTON can be adapted quickly to cope with new requirements. The lighting modules and PST presence detectors can be relocated or rearranged quickly and easily at any time. The sensor settings are adjusted simply by using an IR remote control. Dimmability is used to illuminate various zones with just the right illuminance level in each case: 300 lx for order picking, 150 lx and 100 lx for the storing.

Click in anywhere as required: TECTON luminaires and sensors



3. Productivity

+ 11 %

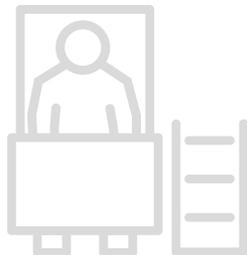
Intelligently controlled

Time is a precious resource in Scania logistics centres. The customer often needs his spare parts in a hurry but there must be no mistakes due to rushing. In both these respects, the right lighting is crucial. A lighting level that is sufficiently high for a particular visual task boosts motivation and aids concentration. Even though the lighting is switched off when an area is not in use, the installed presence detectors have a delay time of 15 minutes to ensure that goods can be stored and retrieved conveniently during the specified time windows.

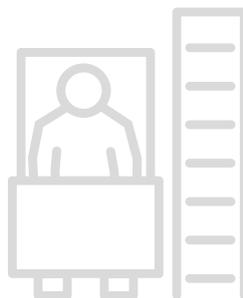
Light that is perfect for particular visual tasks



Order picking 300 lx



Small parts store 150 lx



Large parts store 100 lx

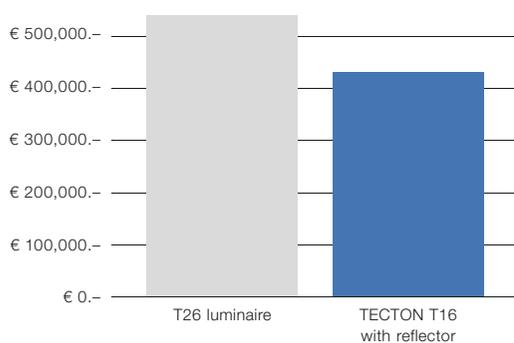
4. Reliability

+ 10 %

It keeps on running. In an emergency too.

There are two aspects to reliability in manufacturing bays and warehouses. The first task is to ensure ideal lighting conditions at all times, without any interruption if possible. At Scania Parts, TECTON uses T16 fluorescent lamps to produce light. Significantly less effort is spent on maintenance work thanks to the small number of lamp failures and low failure rate. The second aspect of reliability concerns the emergency lighting. Despite high ceiling heights, the RESCLITE LED emergency luminaires guide people outside to safety in an emergency. The best thing about it is that the emergency lighting is fully integrated into the flexible TECTON system. 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 (20 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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