



2020

 **LUXON**  
LED

# Case Study

Modernization of the lighting system for PSB  
Mrówka Sulejów

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## Material warehouse network construction and stores with home and garden sector

PSB KENPOL Sulejów is one of the stores of the network that belongs to the PSB Group. Moreover, it is one of the largest and fastest growing wholesalers of building materials and stores in the home and garden sector. The company decided to replace the lighting in the sales hall in order to ensure better visibility of products for consumers. PSB Mrówka Sulejów is a modern market that focuses on the highest quality of products, while providing customers with a wide range of solutions. Professional building materials and accessories for interior design allow not only to carry out the renovation, but also to change their arrangement. After a request to prepare an offer for lighting replacement, the company entrusted us with the execution of the project.





# Challenges

Change of lighting on existing cable routes. What kind of luminaires improve the appearance of products and ensure aesthetics in the sales hall at the same time?

The contract concerned the modernization of lighting in the sales hall with the use of existing cable routes, so as not to generate additional costs due to the installation of new cables and new assembly elements. As a result, the luminaires had to be designed in such a way that their assembly would be 1 to 1. Moreover, the customer expected high safety in terms of low failure rate of LED luminaires while ensuring improved light intensity at the same time.

It was also essential to illuminate not only large but also small elements in order to highlight them, without using additional spots. Another significant demand of the client was a competitive price, while maintaining high quality of the final effect. Eventually, flexible luminaires were to be created, which would be perfectly integrated into the existing infrastructure, allowing the goods to be properly displayed.



# Implementation and solutions

Individual solutions with a highly aesthetic luminaire and low UGR with smart control

After analyzing the client's guidelines and based on the parameters obtained, we suggested LumiLine 3.0 luminaires to the company as a solution to render the correct level of colors. The diffuser used in the luminaire allowed to illuminate also small elements using the main lighting. Thus, it was possible to highlight them, without the necessity of using additional spots.

The luminaires were installed on the existing cable routes, which allowed to reduce the costs of the assembly. Due to the fact that the LumiLine luminaire can be connected in a line or a system of squares, we achieved an aesthetic effect with high quality lighting of products.



# Customer benefits

We have fulfilled the client's requirements

- High lighting savings,
- Evenly distributed lighting,
- High color rendering,
- Improved visibility of seasonal goods,
- Failure-free performance during the warranty,
- 5-year warranty on luminaires.

# Implementatnion

## Summary

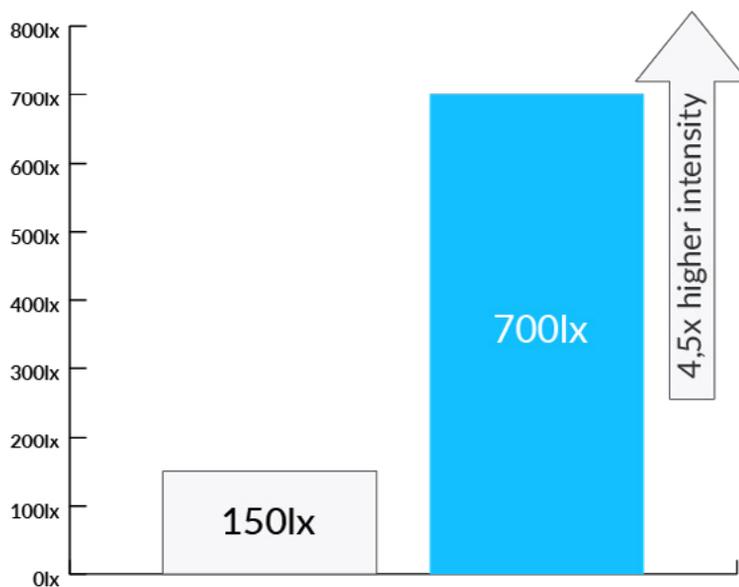
Reduction of energy consumption



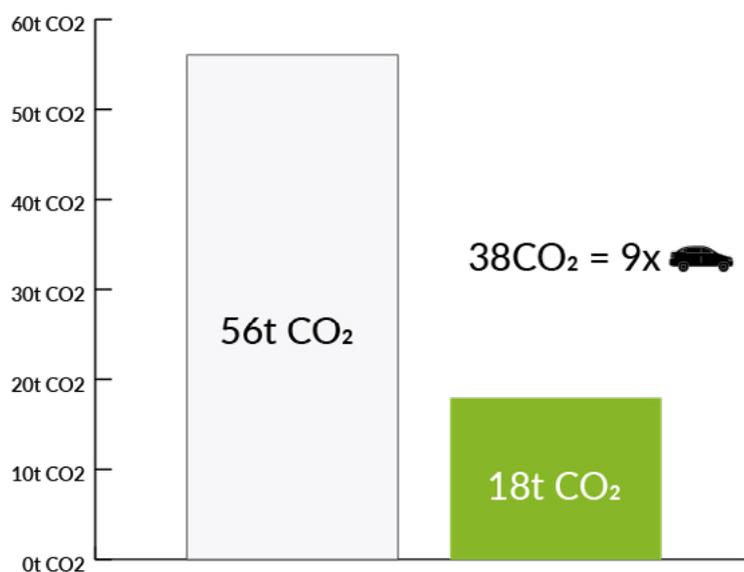
Lighting modernization contributed to a threefold reduction in electricity consumption, while the intensity from one hundred and fifty lux has been increased to seven hundred



Kamil Frątczak  
Expert Key Account Manager



An average 4,5-fold increase of light intensity



Annual reduction of CO2 emissions from 56 tons to 18 tons



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