

# Safran

Case Study





## Safran - Producer of gears for Boeing and Airbus passenger planes

Safran Transmission Systems Poland is one of the leaders of the aviation industry who has been manufacturing components for aircraft engines since 2001. The company cooperates with over 30 Polish suppliers and employs ca. 900 employees. The production process takes place in three large factories located in Poland. Skanska Company, the general contractor who created new buildings for Safran, asked Luxon to work with them to select the appropriate lighting system for the new object built next to the existing production hall. After successful collaboration with Skanska company, Luxon received a direct query from Safran, who asked them to modernize their existing lighting systems in older buildings.



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**LOCATION**

Poland

**NAME**

Safran Transmissions System

**PICTURES**

Property of Luxon

**COMMISSIONING**

DJP Sp. z o.o. - Lead brought by Luxon

**LUMINAIRES**

Luxon ([Luxonled.eu](http://Luxonled.eu))

**CASAMBI UNITS**

1.560





## Challenge

1. Factory is in use round-the-clock so any new installation could not disturb operating conditions.
2. All new luminaires had to be installed to use the existing wiring system
3. The investor was looking to optimise the energy consumption

## Solution

Casambi was installed first and foremost because it is a wireless lighting control solution, so the existing cable routes for lighting did not have to be touched. Because of the intelligence of Casambi the commissioning phase of the new solution could be done without disturbing the operating conditions.

## Installation

1540 high-efficiency luminaires with high IP-class and low glare rating were installed. Casambi CBU-ASD was installed next to the fixture in an IP67 box to ensure a good communication distance.

Each luminaire is controlled individually, and it is possible to change the lighting in specific areas, thus improving the working conditions according to the production requirements. The end client felt Casambi was easy and practical. 16 High Bay Wide Detection sensors from Danlers were installed for daylight management.

Installation costs were reduced as no additional signal cable had to be installed in the old cable ducts. Costs were also kept low as production didn't have to stop due to easy installation procedures

### LUMINAIRES

Luxon Industrial 73W, 4000K	490 pcs
Luxon Ultima LED 54W, 4000K	525 pcs
Luxon Ultima LED 84W, 4000K	525 pcs

### PRECENSE DETECTORS

Danlers CBU HBWD sensors	16 pcs
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### USER INTERFACE

Casambi App on Smartphone

Number of Casambi nodes:	1556 pcs
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## Benefits

- Significant reduction of energy consumption and lower operating costs
- A wireless control system that enables the user to adjust the parameters of the luminaires
- A 1:1 replacement of the luminaires without changing the existing electrical installation
- Improvement in light intensity of up to 300%
- Lower UGR and improved working conditions

### ENERGY SAVINGS

Reduction in electricity consumption costs

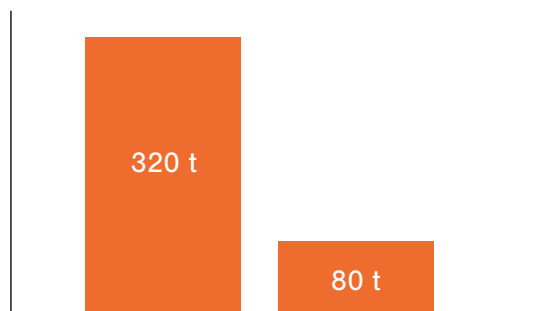
20%



### REDUCTION OF CO<sub>2</sub>

Reduction in electricity consumption costs

240 t/year



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”Thanks to the modernization of lighting, we were able to reduce carbon dioxide emissions by about 240 tons per year, and at the same time we managed to reduce costs due to electricity consumption by about 20%”

Piotr Juszczuk  
Maintenance manager

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CASAMBI