

# CASESTUDY

BY MINILAMPE

## CUSTOM-MADE LIGHTING SOLUTIONS

## RAILWAYS

### REGIO2N FLEET LED READING LIGHT SYSTEM

#### TRAIN INTERIOR LIGHTING



#### DESIGN DEVELOPMENT MANUFACTURING



#### THE REQUIREMENT

An equipment manufacturer develops the seats of the new regional train expected in Ile-de-France, the REGIO2N train manufactured by BOMBARDIER. This equipment manufacturer wishes to improve the functional and aesthetical qualities of train cars by designing new seats with high-quality material, innovative design and new interior lighting technologies. He plans as specified in BOMBARDIER technical specifications a 72V DC LED lighting system (under seat lighting system) to improve passenger comfort and the well-being.

#### ISSUE.

■ To support this equipment manufacturer by offering a custom-made and economical solution, develop and manufacture the LED lighting system.

#### THE SOLUTION

With its Research & Development Department, its production unit and its laboratory located in France, MINILAMPE is an historical manufacturer of the Railways sector. MINILAMPE is recognized for its capability to provide lighting custom-made solutions for train interior.

The equipment manufacturer has chosen MINILAMPE to design its 72V DC LED lighting bespoke system that meets the technical constraints, and which is EN50155/EN45545 certified, within the customer's deadlines.

#### THE RESULT

- Reduction of maintenance costs. Life is 60 000 hrs.
- Complete lighting system solution that integrates electronics, mechanics and cabling.
- Improvement of functionality and design. Ergonomic LED lighting system for comfort lighting.

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