

TRADITION AND INNOVATION

EDUARDO TORROJA INSTITUTE OF CONSTRUCTION SCIENCES, MADRID

KEY FACTS

HIGHEST QUALITY

The LED solutions from LEDVANCE enable optimized light quality in the various areas of the institute.

LESS MAINTENANCE

The lifespan of LED luminaires, such as the Damp Proof used here, can reach up to 70,000 hours, reducing costs for future maintenance and control tasks.

AVANT-GARDE AND TRADITION

All LED solutions, especially the PL 1200 DALI in the lobbies, have been installed while respecting the original architecture.

ADAPTED TO EVERYTHING

From LED strips to moisture-resistant luminaires, LEDVANCE's wide portfolio of solutions enables comprehensive adaptation to every need and regulation.

PANEL CMFT 1200 P 33W 830 DALI



DAMP PROOF 1500 46W 830 IP65 GY



DESIGNING LIGHT EFFICIENTLY AND FLEXIBLY

In a historic building like the Eduardo Torroja Institute in Madrid, avant-garde and tradition go hand in hand. The innovative LED solutions from LEDVANCE perfectly adapt to the needs of each space, significantly increase the quality of light, and reduce maintenance effort sustainably.

CHALLENGE

The Eduardo Torroja Institute of Construction Sciences (IETCC) is dedicated to scientific research and technological development in the field of construction and its materials.

Located in a 1934 building in Madrid, the institute sought a renovation of its original lighting to adapt to modern times. The goal was to equip the historic luminaires with efficient LED technology and integrate them into the building's control system while preserving the original design

SOLUTION

The engineering firm entrusted LEDVANCE with the project due to its wide range of lighting solutions tailored to the various application spaces within the facility, ranging from offices to industrial areas for material testing, as well as outdoor lighting.

Over 600 Panel PFM 600 DALI luminaires and over 200 Damp Proof 1500 46W luminaires were installed, along with PFM 1200 LED strips, among others. Not only was the original design preserved in the selection of luminaires and lamps, but thanks to the modernization, the lighting now complies with current regulations and is much more energy-efficient.

BENEFITS

The Panel PFM DALI luminaires meet the requirements of rooms with high ceilings due to their luminous power (4,320 lm), and they also satisfy the needs of lower rooms by adjusting the luminous flux through the DALI system.

The DALI lamp solutions from LEDVANCE's portfolio fit perfectly with the institute's historic luminaires, seamlessly integrating into the building's control system. As a result, the center has achieved increased efficiency while maintaining its architectural identity.

Furthermore, with the PFM LED Strip, the center has been able to significantly reduce maintenance work thanks to their longer nominal lifespan.

SUMMARY

LEDVANCE equips the buildings of the Eduardo Torroja Institute of Construction Sciences in Madrid with a variety of efficient LED lamps and luminaires, integrating them into the internal control system while preserving the existing design. Through this modernization, the institute's lighting once again complies with current regulations on workplace safety and energy efficiency.

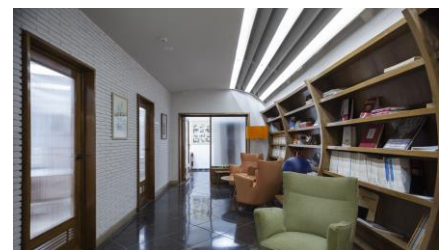
„The modernization of the institute's lighting system posed a significant challenge for all involved for over two years. However, LEDVANCE made a significant contribution to achieving the project's goals by offering a portfolio of high-quality products, establishing a trusted cooperation with the planning and installation teams, and providing competent advice.“

Pilar Gracia
Project Leader

Additionally, the client benefits from significantly improved light quality and reduced maintenance costs.



The entrance hall is illuminated with 1200 panels and LED lamps from LEDVANCE



LEDVANCE's PFM LED Strips in the executive lobby



LED projectors from LEDVANCE for the facade