



PHILIPS

Case study

Madrid Barajas Airport

Madrid Barajas Airport

A perfect fit
for cost savings and
ease of installation



Located 12 km from the city center of Madrid, the Madrid Barajas airport services approximately 58 million passengers a year, making it Spain's busiest airport. The airport was looking to upgrade its common areas in Terminals 1, 2 and 3.

Customer challenge

The Madrid Barajas Airport had two main goals for the project: reduce energy costs and find a lighting solution that is easy to install without having to change the ceiling to accommodate for the new fittings. They were able to check both boxes with PerfectFit downlights.

Solution

The terminals had been previously lit by Philips QL induction lamps. New energy savings initiatives launched by the airport leadership focused on a more energy efficient solution. With 3D printing technology and LED lighting, the airport is well on its way to achieving its energy savings goals. Compared to the previous lighting installation, savings of over 50% have been achieved. And by adding Dynalite controls, the airport is able to save even more.

The second goal was a fast, easy and cost-effective installation. The cut out left by the old induction downlights was 270mm. New LED downlights typically have much smaller cut outs sizes, which presented a challenge. Now with 3D printing technology, the new energy-efficient LED downlights have been specifically made to fit the 270 mm ceiling hole from the previous installation. The new luminaires fit perfectly. Additionally, the lightweight nature of 3D printing makes installation simple.

The project involved the installation of 194 3D printed downlights, with plans to expand to additional areas in the near future.

“I am very happy with the downlights that we are using to replace the old induction lamps. We have installed them in a large area and they are luminous and aesthetically perfect. Installation was easy due to their low weight and exact fit in the cut outs left by the old fixtures. I will recommend it for future projects.”

Jorge Serrano del Pozo, Low Voltage Section Coordinator T123 AENA



Tailored for you

Designed to meet your specifications exactly, our #D printed luminaires are guaranteed to fit.



Hassle-free

We make it easy to get the downlights you need for your next projects. Easily configured online and installed in minutes.



Sustainable

You care about the environment. So do we. Our luminaires are 100% recyclable, and can be reused for other lighting projects.



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