



More than just lighting at Europe's largest port

Port of Barcelona

Thanks to the new connected LED solution, the whole area of the main port in the Mediterranean is much brighter and more welcoming, providing a greater sense of comfort and safety to both the residents and tourists.

“The CityTouch system enables us to do proactive maintenance and ensure that the lights are always on when needed. No more dark shadows during the night.”

Josep Lluís Gómez, Head of Barcelona Area, Citelum Ibérica.

Meeting diverse requirements

Being a very popular tourist destination in its own as well as enjoying a high volume of cruise ship traffic, the Port Authorities were looking for ways to make the area even more welcoming. The Port Authorities realized that the old HID lighting installation was very out of date and consumed a lot of energy. Together with Philips they selected a connected LED solution, which improved their operations, helped them reduce energy consumption and also ticked the boxes on two other key objectives they wanted to meet:

- **Increased comfort - and sense of safety for both the residents and tourists.**
- **A more exciting and memorable experience, to enhance the visitor welcome.**

A clear solution

Due to the various dimensions and shapes of the different areas in the port, it was very challenging at first for the Port Authority to find a light source that could deliver a highly uniform light distribution. After all, disturbing shadow effects or poor light levels wouldn't help to increase comfort or enhance the sense of safety. Philips recommended the use of the ClearFlood Large luminaire using the optimized Ledgine optical platform. Thanks to its highly application-specific optical solution, uniform lighting could be delivered even in areas that had unique dimensions and requirements. Using ClearFlood Large floodlights with this sort of optical solution resulted in very high uniformity (on average above 1.4). Now, the whole area is much brighter and more welcoming, providing a greater sense of comfort and safety to both the residents and tourists.

Optimizing operations

In addition to decreasing energy consumption, the Port Authority became very interested in increasing efficiency of other processes and operations, for which remote lighting management provided a good option. This would not only mean they could save even more energy but also streamline operations and enable more proactive and efficient maintenance. For this reason, the Port of Barcelona also decided to opt for the CityTouch remote lighting management software, which provides insights and forecasts on the use and state of the lighting installation, to optimize operations even further.

Exploring the benefits of color-changing lighting

In order to improve the image of the port and deliver a more interesting experience to visitors, the Port Authorities also decided to explore the benefits of color-changing architectural lighting.

A pilot installation was made on the main bridge at the port. Next to high quality light and color consistency, the port was looking for a system that could also ensure the same lighting effects would be displayed over the whole bridge, even when it was open, thereby getting separated into two pieces. For this, Philips recommended Color Kinetics fixtures be used in combination with a wireless control system, giving the port full flexibility.

“The Port of Barcelona has very much appreciated the high quality, uniform lighting combined with the remote lighting management option.”

Josep Lluís Gómez, Head of Barcelona Area. Citelum Ibérica



Energy efficiency

The new connected LED solution allowed to optimize energy consumption, using 50% less energy compared to the old HID lighting installation.



Efficient maintenance and improved operational efficiency

The remote lighting management software provides information on maintenance, optimizing operations and enabling a more proactive approach.



Increased comfort

Thanks to the highly uniform light distribution it was possible to increase comfort throughout the port for both the residents and tourists.



Improved image

The port can now deliver a more interesting experience to visitors and has an improved image thanks to the color changing architectural lighting installed on the main bridge.

About the Port of Barcelona

The Port of Barcelona is the main port in the Mediterranean in terms of cruise ship traffic and the world's fourth largest, second only to ports in the Caribbean. Some 4 million people pass through the Port of Barcelona every year.