



Case study

Eiteren Parking garage

Location
Philips Lighting

IJsselstein, the Netherlands
Pacific LED, Gondola LED, LuxSpace,
Vivare LED (outdoor) & Controls, Master TLD Xtreme



PHILIPS



“LED lighting is more energy efficient than traditional lighting. Especially as the lights dim when it detects that there are no people present. We save 50-60% on energy, screws and maintenance costs, and create an optimum sense of safety through the flexible dimming system.”

Inge Reindersma, IJsselstein Council



Continuous lighting lines and flexible dimming system for optimal safety in Eiteren's environmentally friendly parking garage



Project info

Customer

IJsselstein Council

Location

IJsselstein, the Netherlands

Architect

EGM Architecten Dordrecht

Installer

Kuipers Installatie

Philips products

Pacific LED2, Gondola LED, LuxSpace,

Vivare LED (outdoor) & Controls, MasterTLD Xtreme

Philips account manager

Robbert Verhagen

Philips lighting designers

Marco Rijdsijk, Sjef van Eggelen

Background

Following its motto 'Improve the Town Centre' the municipality of IJsselstein wanted to upgrade its facilities whilst maintaining and strengthening the historic centre. An important step was the phased redevelopment and expansion of the IJsselwaerde residential care centre. Phase one was reserved for the renovation of this historic building. Phase two for new build, including the construction of the Eiteren underground parking garage. This is situated partly under the new complex and includes 208 parking spaces. 45 of these are intended for visitors to IJsselwaerde and the rest for visitors to the town.

The challenge

"In the specifications we included an attractive lighting plan for the parking garage," says Roeland van Leeuwen, Assistant Supervisor and Director, on behalf of InterBouwConsult. "The idea was to use fluorescent fixtures interconnected with a continuous light line to achieve an optimal lighting effect. This proved to be impossible using traditional lighting as the lighting was too intense, the dimming system very poor, and the operational and usage costs were extortionate." When Van Leeuwen got in touch with Phillips via the project contractor BAM, everything changed. "Phillips wanted to help us create a continuous light line using a suitable LED solution. This meant that the original lighting design did not need to change. For all parties involved this was a dream scenario."

The solution

The robust, waterproof Pacific LED2 was used for the main ceiling lights. Due to their perfect beam control, high luminous flux of white light, simple installation and optimal dimming system, these are an ideal solution for parking garages. The same is true of the 'directional' LuxSpace, which ensures a uniform distribution when used in combination with the 'Pacific'. The bright, vandal-resistant LED Gondolas on the entrance hall ceiling complete the picture. Van Leeuwen: "We find it especially interesting that we can continue to work on this LED solution. It is probable that within the next 5 years, more energy-efficient LED fixtures will hit the market. If this is the case, then the present fixtures can be replaced."

Benefits

There are more advantages, agrees Inge Reindersma from the department of Municipal Projects. "LED lighting is more energy efficient than traditional lighting. Especially as the lights dim when it detects that there are no people present. We save 50-60% on energy, screws and maintenance costs, and create an optimum sense of safety through the flexible dimming system. Thanks to the continuous light line, Eiteren creates a more relaxing atmosphere. There are no dark corners." The solution fits in well with the town's sustainability goals and IJsselstein's pursuit to operate in a manner that is as climate neutral as possible. Reindersma: "We want to see if we can replace traditional lighting with LEDs in other public places. There is a lot of energy to be gained, especially in urban environments."



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