

# HIGH-END LIGHTING UNDERGROUND

## BICYCLE PARKING GARAGE IJBOULEVARD, AMSTERDAM

### KEY FACTS

#### LIGHT IN HARMONY WITH ARCHITECTURE

The flexible LED strips with self-adhesive backing perfectly complement the architectural design of the parking garage.

#### SIMPLE LIGHT MANAGEMENT

The LED strips can be easily connected with the OTI-DALI-DIM drivers combined with the DR-PFM 250/220-240/24/P to create a light management system.

#### FULLY SUSTAINABLE

With high energy efficiency and a lifespan of up to 60,000 hours, the LED strips make a significant contribution to sustainability, with reduced maintenance requirements.

#### IDEAL COLOR RENDERING

Thanks to a very good color rendering index (Ra: > 90) and a wide range of color temperatures, the LED strips provide optimal lighting for the bicycle garage.

#### LED STRIP SUPERIOR-1200 PROTECTED



#### DR-PFM 250/220-240/24/P OTI-DALI-DIM 1-4CH D



# FLEXIBLE SYSTEM FOR COMFORT AND SAFETY – THE LEDVANCE BICYCLE GARAGE LIGHTING

Parking in a new dimension: LEDVANCE designs and implements a LED Strip System for the underground bicycle parking garage, IJboulevard, in Amsterdam, combining innovative design, efficiency, and user orientation.

## THE CHALLENGE

Bicycles shape everyday life in Amsterdam. To create more parking spaces in the city, a large underground parking garage was built under the IJ Canal, capable of accommodating 4,000 bicycles. The parking garage required a modern lighting concept that would seamlessly integrate with the architectural design while combining energy efficiency and state-of-the-art technology with a high level of safety and comfort for the users.

## THE SOLUTION

The project was given to LEDVANCE based on the design and specifications of LEDVANCE products and on the competent advice and support provided. The lighting specialist subsequently developed and realized a comprehensive lighting concept. Considering the specific requirements on-site, the concept

primarily relied on more than 260 flexible 5-meter roles LEDVANCE IP67 LED strips, combining an attractive, individually controllable, and pleasant lighting pattern with high energy efficiency.

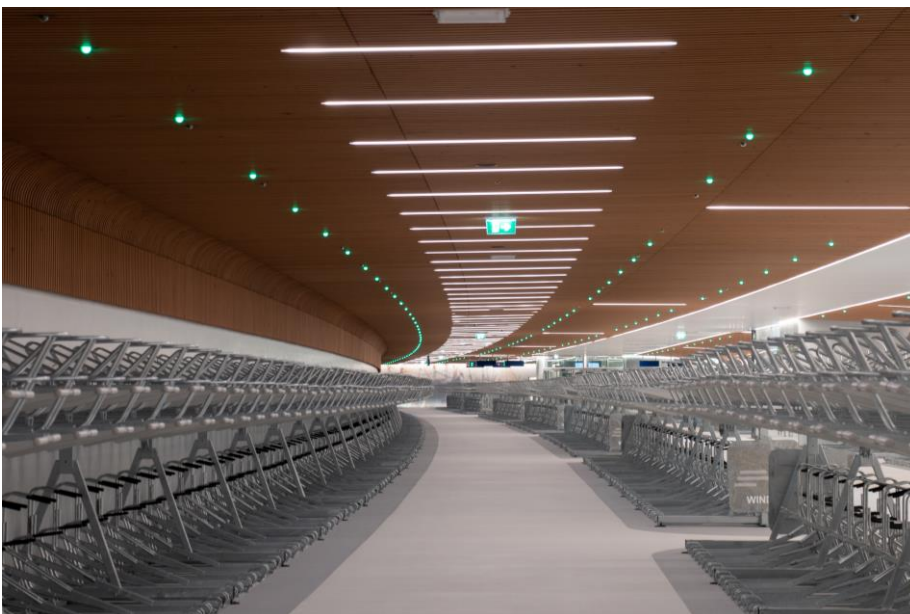
## THE BENEFITS

The deployed LED strips offer great design freedom due to their flexibility and self-adhesive backing, seamlessly integrating into the architectural design of the parking garage and enhancing its natural lighting aesthetic. With very high energy efficiency and a lifespan of up to 60,000 hours, the LED strips align perfectly with the sustainability and energy-saving concept of the bicycle parking garage while reducing maintenance efforts. The LED strips can be easily interconnected using the integrated cables on both sides and

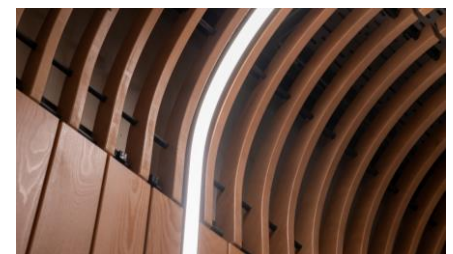
put together with the utilized OTI-DALI-DIM drivers combined with the DR-PFM 250W drivers to create a tailored light management system. With a 4000K color temperature the LED strips always provide the right amount of light.

## SUMMARY

LEDVANCE has developed and implemented a lighting concept for the IJboulevard parking garage in Amsterdam, located under the IJ Canal and capable of accommodating 4,000 bicycles. The used LED strips seamlessly integrate into the architectural design of the structure and impress as part of an innovative light management system, providing evenly distributed and flexible controllable lighting. With high energy efficiency and a long lifespan, the LED strips actively support the sustainability concept of the parking garage.



LEDVANCE IP67 flexible LED Strips light up the bicycle garage in Amsterdam.



LED Strips are combined with the architectural design.



The overall impression is an open and friendly looking place to pick up your bike.