



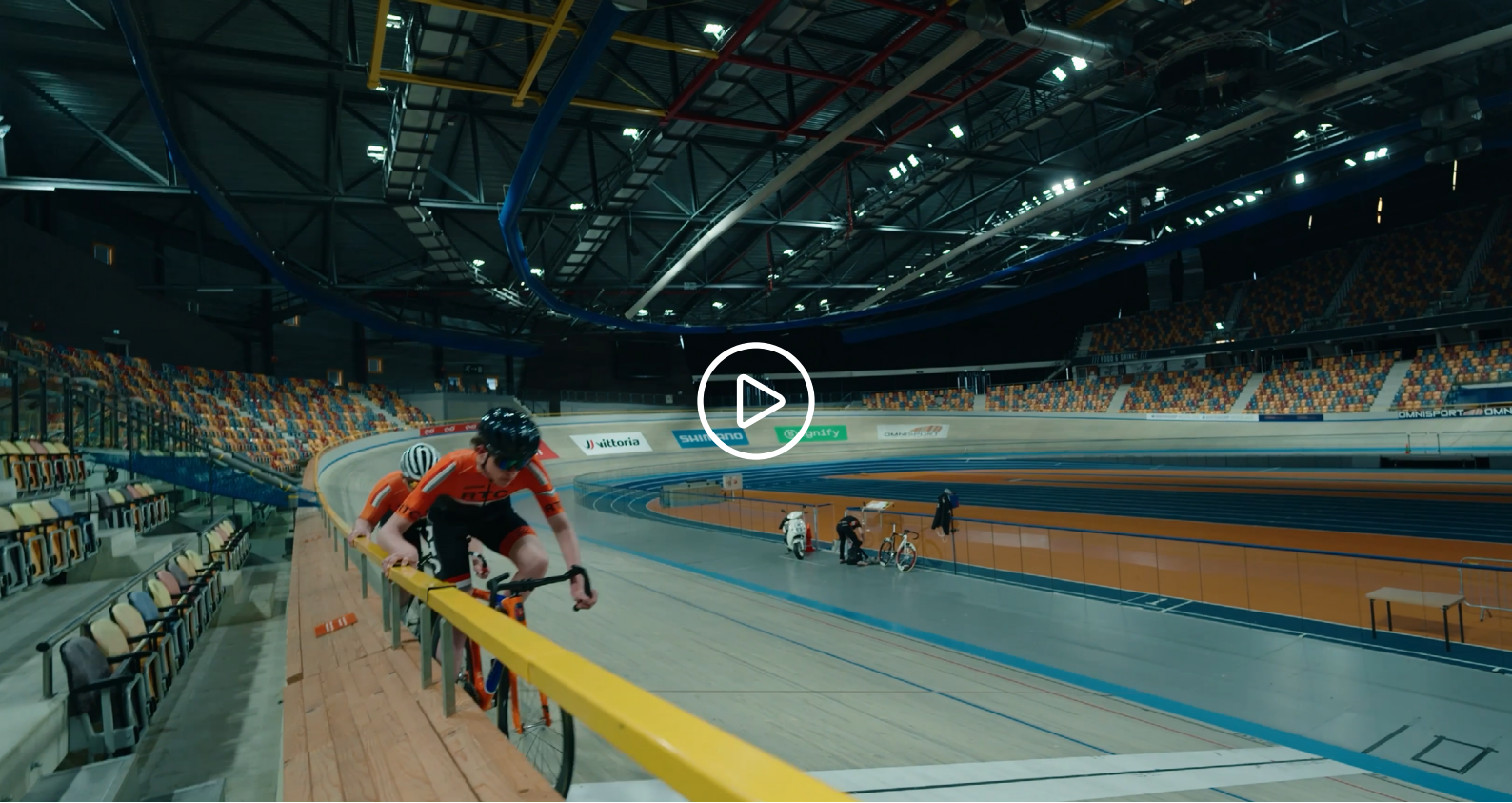
Case study: Apeldoorn, the Netherlands

# Versatile sports lighting for Omnisport

Illuminating the top indoor sports facility in the Netherlands with Signify Interact

In partnership with:





Signify case study video

Omnisport Apeldoorn is not only the official training location for the Dutch national track cycling team, it also hosts the European and World Championships for indoor athletics, volleyball, and tennis. Now, Omnisport aims to become the number one professional indoor sports facility in the Netherlands by providing optimal lighting conditions for each of the sports it hosts, and for its broadcasting partners.

### Customer needs

With its previous lighting installation, Omnisport Apeldoorn had little flexibility and limited control. It wasn't possible, for example, to illuminate specific areas of the venue—either all the lights were switched on, or they were all switched off. To improve the lighting conditions for both athletes and spectators, the venue needed a solution with greater flexibility.

The sports events held at Omnisport Apeldoorn are broadcast to audiences all over the world, so they also needed on-site lighting that can stay up to date and compliant with strict standards for televised events, which the previous lighting installation was unable to do.

Additionally, the venue saw an opportunity to reduce energy consumption by upgrading to a more efficient lighting solution.



“

The moment the lights came on was really 'Wow!' and it was an astonishing feeling—the athletes were blown away by the intensity of the light.

**Heidi Smale**

Branch Manager, Oostendorp Nederland

## The solution

After studying the specific needs of Omnisport Apeldoorn, Signify proposed a best-in-class sports lighting solution. In line with its commitment to sustainability, Signify designed a more energy-efficient lighting system, and even shipped the new luminaires directly to the venue to keep transport-related carbon emissions to a minimum. In total, 275 new ArenaVision luminaires were installed on site by Oostendorp Nederland, the biggest recreational sports installer for Signify worldwide.

Omnisport can control and monitor the new lighting system easily using the Signify Interact connected lighting system for sports. Users can adjust the lighting depending on which sport is being played and where. The system is designed to work with as few luminaires as possible by allowing independent illumination of different zones defined within the facility. It's no longer necessary to light up the entire space if only the cycling track is being used, for example. The zoning scheme ensures the best possible lighting conditions for each sport while reducing the building's energy consumption drastically.

### Lighting that's over 60% more energy-efficient\*

The significant potential improvement in energy efficiency was one of the deciding factors for bringing the venue's lighting renovation forward to 2023. The original plan was to wait until 2025/2026, when the previously installed lights were due to reach the end of their useful life.

With its new lighting system, Omnisport Apeldoorn has been able to cut energy consumption for lighting by

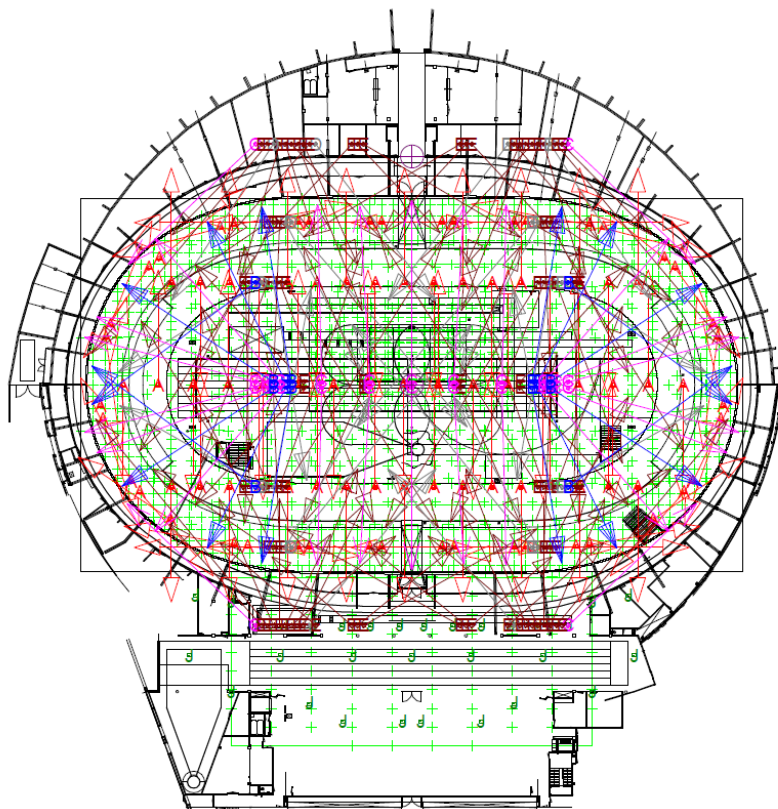


60%\*. This figure doesn't take into account the further energy savings that can be achieved through zoning and dimming, both of which techniques prevent overlighting of unused areas.

### Lighting that meets broadcasting requirements

Optimized lighting for each sport helps the venue to fulfill the strict lighting criteria required by broadcasters. This is important because Omnisport Apeldoorn hosts and broadcasts both national and international sporting events—when the Dutch track cycling team performs, it attracts a large audience.

To guarantee the best viewing experience for fans at home, the newly installed ArenaVision luminaires provide high-quality white light at the required color temperature of 5700 K, with excellent color rendering at CRI 90 or above.



## Lighting for immersive experiences

In addition to providing the best possible lighting conditions for sports and broadcasters, the Interact connected lighting system and ArenaVision floodlights have up to eight preset white-light-only light shows that can create an immersive atmosphere at events.

For more elaborate color-changing light shows, the system is designed to work seamlessly with third-party entertainment lighting, allowing event organizers to incorporate their own luminaires temporarily into the wider lighting system by simply plugging them in.

\* The total energy reduction calculation includes (i) a 35% decrease in installed power consumption, from 408 kW consumed by the old installation to 267 kW consumed at full power by 275 installed Philips ArenaVision gen3.5 floodlights, and (ii) a 25% dimming from 2064 lux at full power to 1540 lux in operation, which translates to an additional 25% less watts consumed in operation.



## Project details

- Omnisport Apeldoorn has already cut its energy consumption by 60%\*
- Oostendorp installed 275 Philips ArenaVision gen3.5 LED floodlights from Signify
- The venue can optimize its lighting to use the minimum number of luminaires for each sport
- Broadcasting requirements are met to guarantee high-quality viewing for all the sports fans at home
- Up to 8 preset white-light light shows and plug-and-play design that allows for integration with third-party entertainment lighting



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