

CASE STUDY



LIGHTING RETROFIT AT SIRENS AQUATIC SPORTS CLUB



PROJECT SUMMARY

Name of the project

Sirens Aquatic Sports Club

Type of Building

Sports Centre

Location

St. Paul's Bay, Malta

The Requirement

- Centralized Floodlights Control
- Dimming Floodlights
- Cost Efficiency
- Remote Access
- Ease of Use

Devices

- **Radiar ARD32**
DALI room controller for precise dimming
- **Senor E**
Range extender for effective communication
- **EDRPB**
Wireless Self-Powered 4 Button Switch for on-site control
- **Enor E**
Gateway With RTC, Ethernet & Astronomical Clock
- **Mobile App**
Easy commissioning and control via mobile devices.

BACKGROUND

Sirens Aquatic Sports Club, located in the beautiful Saint Paul's Bay in Malta, is one of the largest aquatic sports clubs in the region. The club was looking to upgrade the lighting system for their water polo pitch to improve the experience for their users and to adopt a more cost-efficient approach. They reached out to Lumos Controls through our partner, Altern Ltd., to find a smart solution.



OBJECTIVE

The main objectives of the project were:

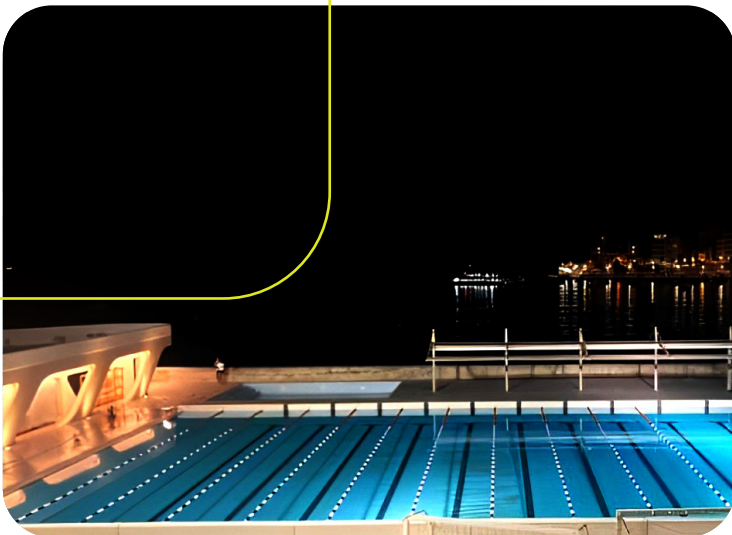
Centralized Control: Enable centralized control of all floodlights for streamlined operations. This helps in managing the entire lighting system more effectively.

Dimming Floodlights: Enhance the user experience by allowing adjustable lighting. This would help create a better ambiance during different times of the day and events.

Cost Efficiency: Reduce energy costs with an efficient lighting control system. This would contribute to the club's long-term savings.

Remote Access: Provide control access not only on-site but also remotely. This ensures flexibility and convenience for the club's management.

Ease of Use: Implement an easy-to-use system for employees to control the lights. This would simplify the daily operations and reduce the need for extensive training.



CHALLENGES

Implementing this project came with its own set of challenges:

Facility Operations: The facility could not be closed for the installation, requiring a quick and seamless setup.

DALI Cables: Difficulty in passing DALI cables for the controls.

Budget Constraints: Need for a cost-effective solution.

SOLUTION

To meet the client's requirements and overcome the challenges, Lumos Controls proposed and implemented the following solutions:

Radiar ARD32: 32 DALI Driver Room Controller

Installed on each pole, these DALI room controllers connected to all floodlight LED drivers, supporting up to 32 driver devices. This setup allowed precise dimming of the floodlights.

Senor E: Beacon & Range Extender

Used as a range extender, this device enabled effective communication between controllers placed 25 meters apart. Its bi-directional communication capability ensured reliable performance even through thick walls.

EDRPM: Wireless Self-Powered 4 Button Switch

A Wireless Self-Powered 4 Button Switch was installed in the control room. This switch enabled on-site control access and was easily configured via mobile devices, connecting seamlessly to the Lumos Controls cloud for data analytics.

Enor E: Gateway With RTC, Ethernet & Astronomical Clock

Installed to provide remote access, this WiFi Gateway connected the Lumos Controls ecosystem to the cloud. It ensured uninterrupted remote control, thanks to its built-in Real-Time Clock. Enor E also features scheduling and an astronomical clock for enhanced functionality.

Lumos Controls Mobile App: Lighting Control App

Configured on the client's mobile devices, this app enabled easy commissioning, configuration, and control of the smart lighting ecosystem from anywhere.

RESULT

The project was a success. Sirens Aquatic Sports Club was delighted with the quick installation process that didn't require closing the facilities. They appreciated the cost-effective solutions and the user-friendly interface of the Lumos Controls Mobile App. The new system not only enhanced the user experience with adjustable lighting but also provided significant energy savings and the convenience of remote access. Additionally, the centralized control system made managing the floodlights much simpler and more efficient for their staff.

