GEMINI LIGHTING SOLUTIONS



CLIENT CASE STUDY

WOOLWICH WAVES LEISURE CENTRE

2024-25

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OVERVIEW

Gemini Lighting Solutions (GLS) delivered an intelligent lighting control solution for Woolwich Waves Leisure Centre, one of the UK's largest urban leisure facilities and a key part of the Royal Borough of Greenwich's regeneration plans for Woolwich town centre. The large-scale, multi-purpose leisure complex includes swimming pools, spa facilities, sports halls, gym and studio spaces, community areas and hospitality facilities. GLS designed and commissioned a Dynalite lighting control system capable of supporting the diverse operational and environmental requirements across the building, while also improving energy efficiency and day-to-day management.



THE CONCEPT

The lighting control strategy focused on creating a flexible, user-friendly system that could adapt to the varying functions and occupancy levels throughout the leisure centre.The Dynalite network supports sensors, scene setting, and touchscreen scheduling as well as local SELV switches which are ideal for public sports venues, while the Dynalite DALI network communicates with the luminaires and provides emergency lighting monitoring to give both operational efficiency and occupant comfort.

Reception staff are able to manage selected areas through touchscreen controls and scheduling interfaces, while the graphical System Manager front end provides an overall operational view of the lighting across the facility. Integration with the client booking system allows lighting operation to align with scheduled activities and room usage, helping reduce unnecessary energy consumption while ensuring spaces are correctly lit when required.

CLIENT COLLABORATION

GLS worked closely with Morgan Sindall, Halsion Ltd and consulting engineers Van Zyl & de Villiers throughout the project. A collaborative approach ensured the lighting controls aligned with the wider building systems and operational goals of the facility, while maintaining the flexibility required across the various activity spaces within the development.
The completed project forms part of a landmark regeneration scheme that delivers long-term value to both the client and the local community.

OVERCOMING CHALLENGES

As one of the UK's largest urban leisure developments, Woolwich Waves required a lighting control system capable of supporting a wide range of activity spaces with differing operational requirements.
The project involved integrating lighting controls across multiple areas including pools, fitness spaces, studios and community rooms, all while maintaining simple and intuitive operation for staff.
Careful coordination was also required to integrate lighting controls with the client booking system, ensuring spaces responded dynamically to scheduled activities.
The scale and complexity of the facility demanded a robust, scalable solution that could support both day-to-day operation and long-term energy efficiency objectives.

DYNALITE PRODUCTS

- PDTS – Touchscreen control interface
- System Manager GUI – Graphical front-end software
- DDBC 320-DALI and DDBC 120-DALI Controllers
- PA6BPE – Antumbra Scene Set Switches
- DUS360CR & DUS360CS – DyNet Multi-Sensors
- DLLI8I8O – Dry Contact Interfaces

WHY GEMINI LIGHTING SOLUTIONS?

GLS was selected for its expertise in delivering scalable Dynalite lighting control solutions for complex commercial and public-sector environments.
Our ability to combine intuitive user control with advanced system integration ensured Woolwich Waves received a future-ready lighting control system tailored to the operational needs of a modern leisure facility.
By working collaboratively throughout the project, GLS delivered a solution that supports energy efficiency, operational flexibility and long-term reliability.

