GEMINI LIGHTING SOLUTIONS



CLIENT CASE STUDY

STRATFORD WATERFRONT PPRR

2023 -2024 London

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OVERVIEW



Gemini Lighting Solutions (GLS) delivered a fully integrated lighting control system for the Stratford Waterfront Public Realm Redevelopment (PPRR). The extensive new landscaped site is a key strategic regeneration programme for the London Legacy Development Corporation (LLDC) and includes a waterfront promenade, podium and street lighting, canopies, planters, ramps, gobos and a land bridge.

This complex array of lighting and control requirements called for a versatile and scalable technology, so Dynalite was the natural solution.

THE CONCEPT

The client required intelligent lighting that could be managed both on-site and remotely, with robust support for energy efficiency, ambient colour control, emergency monitoring and diverse connectivity types across a large, outdoor urban environment.

GLS designed a responsive control system that balances aesthetics, functionality, and sustainability through DALI dimming (both broadcast and addressed), DMX colour shift and fade capabilities, trailing edge dimming, movement detection, and photocell controls.

Dynalite's flexible infrastructure allowed the integration of DyNet, DALI and IP networks, enabling seamless site-wide communication and system monitoring.

CLIENT COLLABORATION

GLS worked directly with Dalkia (formerly Imtech). Working through the lighting types, mounting strategies, control options and network integration, GLS helped refine the design into a complete, high-functioning lighting control scheme.

OVERCOMING CHALLENGES

The sheer scope of the site required a carefully co-ordinated approach to connectivity, distribution, and installation. With multiple types of luminaires, varying levels of ambient light, and frequent changes in public use, GLS tailored a system that could adapt and evolve.

Remote access via Dynalite's System Manager GUI provided site managers with full control and oversight, allowing the system to be monitored and adjusted without physical access - crucial for public realm installations.

DYNALITE PRODUCTS

- DDBC320 – DALI Controllers
- DDBC1200 – DALI Broadcast Controllers
- DDNG485 – DMX Controllers
- DMC4 – Phase Dimming Racks
- PDDEG-S – Ethernet Gateways
- System Manager – Graphical User Interface
- DUS360CS-D – DALI Sensors
- DLLI8I8O – DyNet Switch Interfaces
- DPMI940-D – DALI Switch Interfaces
- DDNG232 – Network Gateways
- DUS360CR/CS & DUS90CS – DyNet Multi-Sensors

WHY GEMINI LIGHTING SOLUTIONS?

GLS was selected because it offered the most comprehensive and technically sound lighting control design for this complex urban project. From concept through to detailed specification, our team worked collaboratively with Dalkia's electrical design engineer to craft a system aligned with the site-wide electrical distribution, containment, lighting performance and budget plan.

