

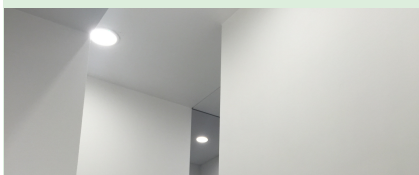
Summary

GCL were contracted by Skanska and Moor House Management Services (MHMS) who manage Moor House. The stairwell lighting of their prestigious building needed to be changed from twin compact fluorescent lamps to energy efficient LEDs, with added microwave sensor control. The new LED lamps would save the client money and also reduce the environmental impact.

The project raised many safety concerns and had to be completed within strict time constraints. GCL met the challenges head-on and excelled at the task.

Moor House tenants now benefit from:

- 70% reduction in running costs
- Quick return on investment
- High quality LED illumination



"Trying to find a solution to the fire escape lights was challenging, GCL provided the solution which has proven to work effectively and saves energy, we look forward to working with GCL on future energy saving projects!"

Madeleine Pugh, Moor House Management Services

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Case study: stairwells at Moor House

Changing stairwell lamps to LEDs with sensors, saves 70% of costs and improves energy-efficiency



The Requirements

Moor House is one of the largest buildings in the City of London, providing offices for global financial companies.

There are some 1600 office workers in the 21-storey building and two stairwells which were illuminated 24/7.

Stairwell maintenance is vitally important, as the stairs lead to the emergency exits. It is crucial that the stairwells are always illuminated (especially in the case of an emergency). However, the client Deka Immobilien, wanted to reduce lighting costs without compromising safety.

The client wanted:

- Compact fluorescent lamps to be replaced with low-energy LED lamps
- A sensor control, so that the lamps did not have to be illuminated 24/7
- Highly reactive doppler radar microwave sensor, which needed to cover all areas

At the same time, the client wanted to:

- Save money, while ensuring staff safety
- Reduce their carbon footprint
- Keep the same colour rendering

The Challenge

- GCL needed their engineers to keep the stairways clear during the project, in case the emergency exits were required
- GCL had to ensure engineer safety
- A highly responsive microwave sensor had to be sourced
- The project required 24/7 illumination, ensuring no black zones whilst the project was being carried out

The Solution

A permanently illuminated 1W LED was installed above the exit door to provide sufficient initial illumination.

Microwave sensors were installed on each half landing, which activates the stair luminaires immediately to ensure safe egress.

GCL engineers worked 24/7 to minimise disruption and always maintained clear stairways in case of emergency.



Benefits to the Client

Deka Immobilien is delighted with the 70% reduction in running costs achieved by GCL's solution.

This reduction was accomplished by:

- Using low-energy LED luminaires
- Reducing "lighting on-time" from 24 hours to 2 hours average per day
- A low maintenance system

To find out more, speak to one of our dedicated team on **020 3906 6070**