

LED External Lighting Upgrade – Isambard Complex



Isambard Complex: The residential complex saw completion in 2008, which created 1,340 rooms on the west side of the campus. The accommodation is divided into 17 blocks and offers en-suite rooms, specially adapted rooms and studio flats for couples.

Light Installation: Over 120 outdoor LED lamps have been installed across site one. The map identifies the areas in which lamps were installed.

Project Details

The problem: Prior to the installation, street lighting across site one was provided by SON lamps (sodium vapour lamps). A SON lamp is a gas discharge lamp that uses sodium to produce light. They were commonly used in outdoor areas, however they produce a dark yellow glow which is generally a low quality light. Additionally SON lamps are not as energy efficient compared to newer LED technologies.

The Solution: The University has installed modern LED street lamps from the [Highway Diamond Elite](#) collection. The new LEDs are far more energy efficient and have a longer life span leading to less maintenance requirements.



Potential Cost Savings: The project is estimated to save just under 14 tonnes of CO₂ annually. Cost savings are approximately £10,500 annually.

The project has an estimated payback of 3.3 years.



SONs Lamppost



LED Lamppost