

## LED Downlighter Replacements Case Study - Hotel installation

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**A luxury hotel in South-West England decided to replace the 35W halogen downlights in the corridors, bedrooms and lobby areas with our replacement GU10 lamps which consume only 3.7W each, in an effort to reduce their carbon footprint and reduce their high electricity bills.**



A six-week trial was initially carried out, replacing approximately 200 lamps with our LED replacements and an **immediate reduction of over 70%** in total energy consumption was noticed in that part of the hotel. **Taking account of the other energy-consuming appliances in these areas it was estimated that their power usage on downlighting in this area had been reduced by over 85%.**

One member of hotel staff, when asked to comment on the aesthetics of the new lighting system, responded that they had not even noticed that a change had taken place. This was put down to the natural appearance of our LED replacements, which is due to the unique design of the lamp's LED array which effectively simulates the multi-faceted reflector of an ordinary halogen by emitting light in a diffuse beam from many points across the lamp face.

With the hotel's average daily usage, the saving of approximately 30W per lamp represented a reduction in electricity bill of over **£20 per lamp per year**. In addition, the monthly lamp replacement routine that was required with halogen downlighting has been completely eliminated, which has not only saved on cost of replacement halogen lamps but also on the labour required to change them.

**The lamps are being rolled out to the rest of the hotel in an ongoing programme of replacement and it is projected that when the lamps have been fully changed over, savings of close to £20,000 per annum will be achieved.**