

GREENLED - CASE STUDY



Saving energy through sustainable lighting

LIGHTING ASSOCIATION – 94% energy reductions



In January 2008, Greenled conducted an energy consumption analysis carried out by Steve Poole, senior Lab Manager at the laboratories of The Lighting Association, the leading trade organisation for the UK lighting sector. The test consisted of measuring the energy consumed by 20 Greenled 4W Antares warm white downlighter LED lamps switched on for a full week (172 hours) as compared to the energy consumed by 20 standard 35W warm white halogen down-lighter lamps from a well-known European manufacturing company, over that same period.



Theoretically the Greenled downlighters (4W) should run off 89% of the energy required to run the halogens (35W). The results were overwhelming. The analysis demonstrated that the total energy consumed by the Greenled Antares downlighters during that period was 7.33 kWh; while the energy consumed by the halogen downlighters was 130.82 kWh. The Greenled lights actually consumed 94% less electricity than the halogens over this seven-day period.

The tests proved conclusively the reason for this positive discrepancy. Under formal test conditions, it was demonstrated that the Greenled 4W Antares GU10 downlighters actually drew only 3.7W each whilst the well-known branded halogen downlighters, clearly specified as 35W, actually drew 36.6W each. Although minor, these individual differences in wattage resulted in a significant extra saving in favour of the Greenled downlighter lamps.