



RENEWABLE
SOLUTIONS
Lighting

Better lighting for better learning

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Case Study

Ripple Primary School



Location: Barking Essex

Pupils: 1185

Headteacher's name: Roger Mitchell

Consultant: Richard Wilding

School background

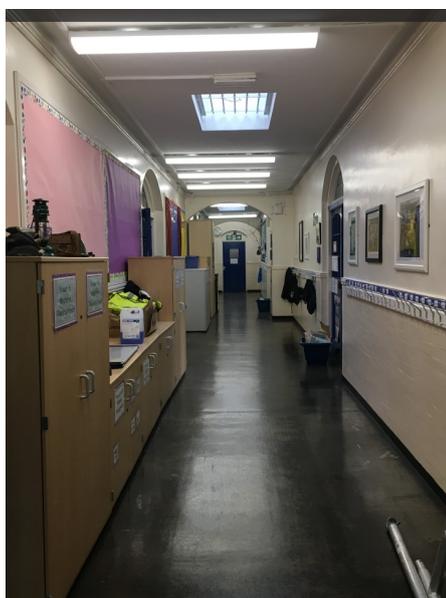
Ripple is a very happy and welcoming school with a community focussed outlook and are committed to the safety and care of all pupils and their families.

As one of the largest primary schools in the UK, with a school population of over 1,100 across two sites, they are able to provide an exciting range of learning opportunities for their children and a very high level of support for their families



School's previous Lighting situation

The school's existing lighting was a mixture of out-dated fluorescent tubes and bulkhead lights. They were expensive to run and the cost of maintaining them was high. Many rooms, in particular the 6 school halls, have high ceilings which require specialist access equipment, increasing the cost of maintenance further.



Solution

After researching the advantages of LED lighting, Ripple Primary School decided to replace their existing fluorescent fixtures with the highest performance LED products manufactured by Luceco Ltd. The money to fund the new lights, was already in the schools budget and being spent on wasted energy. The School lowered energy cost by 70% and zeroed ongoing maintenance costs, allowing the school to fund the new lights using a Department for Education approved Operating Rental without increasing expenditure.

The school now has new LED lighting throughout the building keeping classrooms properly lit. Sensors add to the savings and the whole school has a brighter and more up to date feel.

End Result

With over 850 LED lamps installed, Ripple Primary now has improved classroom lighting, reduced energy consumption by 70% or £37,678 per year and requires zero hours of maintenance time changing lamps.

Project Facts

Lighting Retrofit
Efficiency Upgrade

Energy & Maintenance Cost Savings	£37678
Power Savings (kW/h)	188694
reduction in CO2 emissions (tonne)	96
Revenue generated from savings over the project lifespan	£902202

Applied Technologies

LED Lamps, Presence / absence / Lux level detection

Numbers reflect annual project savings based on prior energy consumption, electric rates and specific usage hours. Savings for individual schools may vary

