

CASE STUDY

DOG SWAMP SHOPPING CENTRE



PROJECT SUMMARY

Goal

Achievement

>100%
LIGHTING UPLIFT

Increased Lighting

Lighting levels have more than doubled*



Energy Savings

45% reduction in lighting energy



CO₂ Reduction

17.71 tonnes reduced greenhouse gas emissions



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Lumitex Solution

Centre management required significant uplift in lighting levels to bring sparkle to the common areas of the shopping mall. After analysis of lighting simulations and careful consideration of glare control, Lumitex Retail Series downlights in 4000 Kelvin colour temperature were selected.

Despite the increased lighting levels, a substantial 45% energy savings was still achieved due to very efficient conversion of energy to light.

The 40 degree and 60 degree beam angle Retail Series fittings with deeply recessed LED chips provided excellent glare control that allowed the resulting illumination to become the feature, as opposed to a bright light in the ceiling being a distraction.

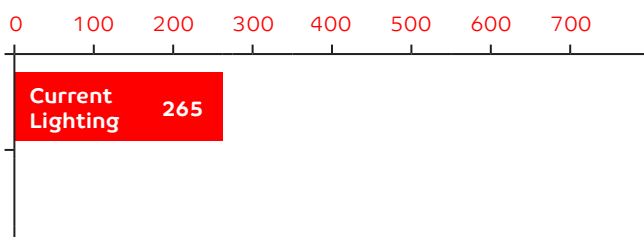


LumitexRetailSeries

Achievements

>100%	Uplift in light levels
45%	Percentage of lighting energy reduction
17.71 Tonnes	Reduction in annual greenhouse gas emissions
6.004kW	Reduction in maximum demand
16 554 kWhr	Energy reduction per annum

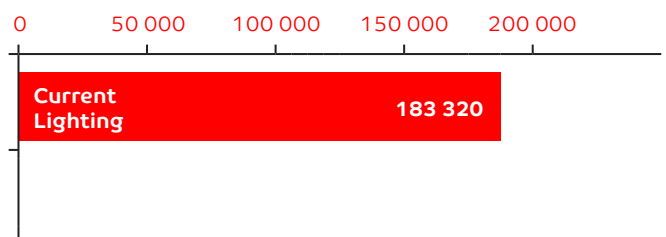
Spot Measurement (Lux)



Spot light level measurements have doubled

* Spot measurement taken at floor level
Tests carried out directly below old and new luminaires

Energy Usage over 5 Years (kWhr)



Testimonial

“We are extremely happy with the lights we have installed at Dog Swamp and are about to replace our car park lighting.” Tony Davis – Centre Manager