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Chamaeleon Original



Project Overview

Chamaeleon LED retrofit of fire stairs in 32 story Sydney CBD residential strata, Hyde Park fixture and a standard fluorescent fixture, Towers, achieving energy savings of 93% and a 0.5 year return on investment.

Hyde Park Towers is a 32 story residential tower (with some commercial space) located on Elizabeth Street Sydney, between Liverpool and Goulburn Streets. The tower was one of five pilot sites selected for the City of Sydney's Smart Green Apartment program.

The existing lighting in these areas was a mixture of 18W and 36W single and double T8 fluorescent fixtures driven by electronic and magnetic ballasts. The original lighting

installation was an emergency fluorescent providing two maintained lights at each location. The lights operated 24/7 and had no energy saving controls.

The fire stairs were alarmed and were extremely low use areas that accessed each floor and the car park, thereby ideally suited to the Chamaeleon light that operated on a standby level of light during unoccupied periods.

"We were very pleased with the energy savings and payback results from this project and encourage other strata managers and Green Strata program participants to look seriously at the Chamaeleon."

> Allan J Hoy AM JP **Building Manager**

FAST FACTS

Project Payback:

ROI: 0.5 years (with Energy Savings **Certficates**)

Savings:

Energy Saved:



Electricity Saved: 81,571 kWh pa

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The Solution

enLighten Australia was awarded the contract to retrofit LED lighting in stairwells of the 23 residential apartment floors, 6 car park and 1 plant room levels.

156 fluorescent tubes were replaced with 82 Chamaeleon





Internal corridor with Chamaeleon LED light on standby mode

lights, generating lighting levels above Australian standard AS2293.3:2005 requirements of 80 lux.

Electricity consumption data logged by enLighten Australia indicated a 93.55% reduction in electricity usage across the fire stairs.

The Chamaeleon installation also resulted in an average 15% increase in power factor. Power factor improvements indicate an increase in the efficiency of the lighting circuit, which translates into substantial future reductions in Ausgrid's kVA energy demand charge.



About enLighten

Our passion is delivering energy savings through intelligent LED lighting solutions.

We are a privately owned Australian innovation company. The enLighten product range is designed by us and manufactured exclusively for us.



Fire stair - Chamaeleon light in full light mode

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