

LED Lighting Case Study – Fashion Retail

Maggie T Metro, Hyde Park South Australia 5061

23rd July 2015



Fashion Retail Store LED Lighting Conversion

Opportunity:

Maggie T Metro were looking at ways to reduce their overall operating costs, and one area they targeted for improvement, was lighting. With the existing ageing installation continually driving up maintenance costs, due the halogen and fluorescent light fittings constantly requiring re-lamping, a decision was made to explore an LED lighting conversion. Southern LED Solutions had previously trialed LED light fittings throughout the store, to showcase to Maggie T the higher quality light output and superior lifespan over halogens and fluorescents, the next step was to assess the current lighting installation, and outline the advantages of making the switch, including financial gain.

Southern LED Solutions Role:

The first step was an on-site assessment on the existing lighting installation to determine the following factors:

- Types of current store lighting (eg; halogen, fluorescent), wattage of existing fittings and colour temperatures (important for fashion retail).
- Total number of light fittings per type.
- Days per week lights operated and running hours per day, including electricity \$ rate (power provided by Maggie T).

The next step was to review of all the data gathered, consolidate findings, and present a proposal for Maggie T to consider, regarding an LED lighting conversion for the Metro store. The proposal outlined the following elements:

- An in-depth understanding of the current lighting installation.
- A proposed LED lighting solution (best-fit) which minimised changeover costs, and maximised savings (cost & environmental) whilst maintaining aesthetics.
- A clear overview of the estimated savings, both cost and environmental (CO2 reduction), broken down in to individual lighting types for full transparency.
- The estimated maintenance savings to be achieved by switching to LED lighting, due to the far superior lifespan.
- The estimated return on investment (ROI), which was 1.6 years in this scenario, plus estimated savings post ROI period (approx. \$30K).

Success:

After reviewing the overall operating costs (power bills) post LED lighting changeover, and comparing the numbers, it was confirmed that Maggie Metro had reduced their overall daily power consumption by 34kWh per day, and overall monthly running cost by a huge **57%**. At this savings rate, the real ROI is likely to be around **0.6 years**, which is 1 year less than originally estimated. These savings and estimated ROI are and will be a huge advantage for Maggie T Metro moving forward. Since the Metro store changeover, Southern LED Solutions has been working with Maggie T regarding other store conversions Australia wide.

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The LED Changeover Detail:

Below is the detail of the lighting changeover, showing the type and quantity of fittings converted to LED.

41 x 50W Halogen Downlights



41 x 13W LED Downlights

39 x 36W Fluorescent Tubes



39 x 22W LED Tube Lights

6 x 52W CFL Shoplights



6 x 25W LED Shoplights

Contact

For any questions or queries regarding this case study please don't hesitate to contact:

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“We look forward to partnering with you for all your LED lighting needs”

