

# CASE STUDY

**Product:** Light Eco® 4.8

**Customer:** Macquarie Franklins Fresh

**Customer Contact:** Available upon request

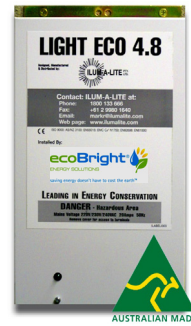
**Location:** Macquarie Shopping Centre, Ryde NSW 2113 Australia

**Investment:** AUD\$11,550

**Annual Savings:** AUD\$8,080

**Return On Investment:** 70% (simple payback = 17 months)

**Greenhouse gas savings per year:** 86 Tonnes of CO<sub>2</sub> equivalent



## Project Description:

The Macquarie Franklins Fresh has over 1000, 58 watt, tri-phosphor fluorescent lights in twin fittings. The supermarket refurbishment included power factor correction and the incorporation of a building management system. Lighting throughout the supermarket is excellent as can be seen in the photographs attached. This store's lighting operates for up to 18 hours each day. An ideal application for the use of Light Eco® products.

Light Eco® units were progressively installed and measurements taken at installation showed an average saving of 29.7% in a range of 26% to 34%. This calculated to an annual saving of 96 MWhrs, and over \$8,000 directly with anticipated further savings of \$5,500.

An environmental benefit showing savings of just over 86 tonnes of CO<sub>2e</sub> (greenhouse gas equivalent) equal to the carbon dioxide uptake of about

86 mature trees was also highlighted. The "Fresh" supermarkets are a middle ranked sized store in the Franklins range of approximately 300 stores between "Big Fresh" and "No Frills".

The Franklins Fresh Supermarket at Macquarie Shopping Centre has also been recently re-furbished. The advantages of installing the intelligent Light Eco® system was recognised by Franklins' management and incorporated as part of the store's refurbishment programme.

Whilst the direct power saving of 29.7% on the lighting was very attractive, it was the added benefits of temperature reduction of the lights and fittings and the extension of the re-tubing period by 4 months each year that sold the project.



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