



## Case Study

Fletcher insulated itself from rising power costs via Primo dimmable LED highbays and daylight harvesting.

**primo**  
FIRST FOR HIGH PERFORMANCE  
LED HIGHBAYS

**Fletcher**  
Insulation™

### Summary

Fletcher Insulation embarked on a lighting upgrade within their Pink Batts manufacturing plant at Rooty Hill, NSW.

Fitting daylight harvesting sensors maximised savings as well as the ESS rebates available.

### Challenge Faced

The manufacturing plant operates 24/7 and therefore power costs are high.

As the site has skylights, there was an opportunity to utilise daylight harvesting techniques and thereby reduce unnecessary power consumption whenever there were strong natural light levels through the skylights.

### Solution

A total of 46 x 400W metal halide highbays with constant wattage ballasts were replaced by:

- 40 x Primo 145W dimmable LED highbays
- 6 x Primo 90W LED lowbays.

The Primo 145W highbays have 1-10VDC dimmable drivers as standard.

By simply attaching a light sensor to each fitting using the second junction box, the fitting can dim down automatically to just 10 per cent of its normal output when sunlight is detected. This enables highbays under the skylights, or near windows and roller-doors to run at just 14-15W when the light is not required.



Primo 145W Dimmable LED highbays with daylight harvesting sensors at Fletcher Insulation's Pink Batt manufacturing plant at Rooty Hill, NSW.

## Solution – continued

The Primo 145W fittings are dimmable 1-10VDC, and are designed to dim gradually and individually so the dimming process can occur in the background, without sudden changes to lighting conditions. This is preferable to basic on-off switching, which can distract staff-members and perhaps create issues from an OH&S point of view.

Plant management is delighted with the improved light levels achieved.

Overall, more than 50% of the capital outlay was returned in the form of a cash rebate under the NSW Energy Saving Scheme.

### Tiger Eye daylight harvesting sensor

- Enables auto-dimming of Primo dimmable highbays
- Daylight sensor module operates on 1-10VDC dimmable drivers
- Simply attaches to each highbay via second junction box on highbay
- Sensitivity is adjustable.



### Primo 90W LED Lowbay/Highbay

- 12,000 lumens
- Replaces 250-400W HID
- Height from 5+ metres
- 115 degree beam spread
- Polycarbonate lens
- IP65.



### Primo 145W Dimmable LED Highbay

- 16,000 lumens
- Replaces 400W+ HID
- Dimmable 1-10VDC
- 115 degree beam spread
- Height 8-14m
- IP65.

