



## Case Study

MM Kembla recently upgraded the lighting in their historic Port Kembla copper pipe manufacturing plant, with brilliant results.



### Summary

A total of 450 Primo LED highbays featured in a second stage of a lighting upgrade at MM's iconic 100 year old manufacturing facility at Port Kembla.

50 x Primo 145W highbays were already installed in a separate transport area on the massive site.

Very substantial ESS rebates were generated during the upgrade.

### Challenge Faced

The cost of such a major upgrade was partially offset by a significant Energy Saving Scheme rebate.

The upgrade needed to meet the various different requirements for manufacturing areas, workshops and warehouse spaces.



### Solution

The upgrade program involved the replacement of 450 existing highbays with the Korean-designed and made Primo LED Highbays.

- 190 x Primo 90W LED lowbays throughout the areas with lower ceilings
- 230 x Primo 145W dimmable LED highbays in the higher ceilings
- 30 x Primo 20K high output LED highbays for the engineering workshop areas where higher lux levels were required.

The Primo 145W and the Primo 20K highbays were all fitted with daylight harvesting sensors.



Primo 90W Lowbays being installed in the main manufacturing hall. Note the brighter whiter light from the LED lighting on the right, compared to the existing yellow sodium lights on the left..

## Solution – continued

The team at MM Kembla evaluated several alternative fittings and selected Primo highbays because they recognised the very significant power savings which will emanate from daylight harvesting.

Feedback to-date has centred on the quality of light which at 5,700K, is brighter and whiter than the yellow sodium lights they replaced.

Also, the team was surprised at how easy the change-over has been, given the age of the historic building.

Overall, a very significant proportion of the capital outlay was returned in the form of a cash rebate under the NSW Energy Saving Scheme.

## Daylight harvesting sensor

- Light sensor attached to each highbay
- Connects via 1-10VDC circuit to dimmable driver on Primo 145W and Primo 20K highbays
- Dims each highbay individually
- Creates massive power savings when installed on highbays which are under skylights, or adjacent to roller doors or windows.



## 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.



## Primo 20K Dimmable LED Highbay

- 20,000 lumens
- 138 lm/W high output
- Dimmable 1-10VDC
- 115 degree beam spread
- Height 8m-18m+
- IP65.



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