



Case Study

Visy Food's can manufacturing plant demonstrates a can-do attitude towards energy-efficient lighting.

primo
FIRST FOR HIGH PERFORMANCE
LED HIGHBAYS

VISY
FOR A BETTER WORLD

Summary

After installing their first Tiger LED highbays 2 years ago, Visy Food in Central Victoria chose to roll-out Tigerlight's latest Primo 115W LED lowbays throughout the recently upgraded facility.

Challenge Faced

The upgrade to the plant saw the installation of a new temperature and dust controlled ceiling and a further roll-out of energy efficient lighting over the can manufacturing lines.

The staff electrical engineers had to find a solution to maintain the integrity of the ceiling while also improving overall light levels.

Solution

The extension of the lower ceiling further across all the manufacturing lines required lighting with a wider beam spread.

Visy had already been using an earlier model Tiger LED Highbay and decided to redeploy these fittings into higher ceilings elsewhere in the plant.

The electrical engineers chose the Primo 115W LED Lowbay on the basis of its brightness, beam spread and positive experience with Tigerlight fittings previously.

110 x 115W Primo LED Lowbays were installed into round powder-coated rings inserted into circular cut-outs in the ceilings.



Dramatically improved lighting from the Primo 115W LED Lowbays in the ceiling panels above the manufacturing lines and adjacent raw materials bays.

Solution - continued

The Primo LED Lowbays have a polycarbonate lens below the LED chip array, allowing the engineers to do without the older plastic diffusers that used to protrude through the ceiling.

The Visy engineers simply sealed the fitting directly into the purpose made rings (see right) fixed around the opening to achieve a food-safe environment.

Because the LED chips are spread out evenly across a wide area on the face of the fitting, there is no glare.

The bright white light and uniformity of colour temperature made a very noticeable improvement to the light quality in the plant and the response from management and the individual team members working at the plant are extremely positive.

The engineers have also installed UPS units to sit above the ceiling beside 15 of the LED fittings to provide additional lighting in the event of a power outage. The 2000VA UPS units will run one 115W LED light for up to 50 minutes.



Primo115W LED Lowbay/Highbay

- 11,500 lm
- Replaces 250-400W HID
- Height from 5+ metres
- 111 degree beam angle
- IP65
- Food safe polycarbonate lens

Primo LED Highbays are designed and manufactured in Korea to the exacting standards of Posco LED, which is accredited to ISO9001:2008 Quality Management System.

Posco LED is a joint venture by Posco, one of the largest steelmakers in the world, and Seoul Semiconductor, one of the world's leading LED research and manufacturing companies.



Quantity Installed

110 in total