



**primo**  
FIRST FOR HIGH PERFORMANCE  
LED HIGHBAYS



# Case Study

At the City of Brimbank’s Keilor Basketball and Netball Stadium, Primo 21K highbays are performing to the high level that the Keilor Thunder would be proud of.

## Summary

Keilor Basketball and Netball Stadium has upgraded the lighting in 3 of the courts in the complex to new Primo 21K LED highbays.

From an operations point of view, Stadium Management can turn lights off and on now when school groups arrive and depart throughout the day, without having to wait for the old HID fittings to warm up.

Light levels are now 750 lux and uniformity has improved also.

## Challenge Faced

Certified lighting plans were constructed to meet the 750 lux requirement for competition basketball over each court, including the centre show court.

It was essential to use the existing wiring based on 20 highbays per court, and a 9m mounting height. The 2000W fittings were to be retired.

## Solution

The lighting plan replaced existing lights on a one-for-one basis, except the 2000W fittings which were no longer required. Replacing:

- 20 x 400W MH highbays on each of 3 courts
  - 20 x 2000W MH highbays over the show court.
- These were replaced by:
- 20 x Primo 21K Highbays per court. 60 in total.

The high performance Korean-made Primo 21K LED highbays produce 21,000 lumens from only 125W. This class-leading efficiency of 170 lm/W allows for even greater power savings.

The wide 115 degree beam angle allowed for a uniform coverage of the courts as well as the areas around the courts, which had been darker previously.

Importantly, the glass-free construction with a shatter-proof polycarbonate lens suited the environment well. Reflectors were not required.



ABOVE: Primo 21K LED Highbays illuminating City of Brimbank's Keilor Basketball and Netball Stadium. No reflectors were required. The lenses are polycarbonate, with no glass present in the fitting.

RIGHT: Lighting plan simulation showing the even light distribution from the 5 rows of 4 fittings. The outstanding 170 lm/W output and wide beam angle deliver a uniform light at a competition grade level of 750 lux.



## Primo 21K Dimmable LED Highbay 21,000 lumens • 125W @ 170 lm/W

DESIGNED AND BUILT IN KOREA  
FOR EXTRA HEAVY DUTY

- Industry leading performance 21,000 lumens from just 125W
- 170 lm/W efficiency
- Replaces 400W+ HID
- Dimmable 1-10VDC with light or motion sensors for use under skylights, near windows and near access doors
- 115 degree beam spread
- Polycarbonate lens - no glass
- Height 8-18+m
- IP65



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