



Case Study

Primo 175W LED highbays prove to be more than a match for 1000W HID at an ice skating rink in Sydney.



Summary

Liverpool Catholic Club Ice Rink is an ice sports and public skate centre, home to the Sydney Ice Dogs, competing in the Australia Ice Hockey League.

The Club recently upgraded their metal halide lighting to Tiger's Primo high-output 175W LED highbays with extremely positive results.

Challenge Faced

Liverpool Catholic Club wished to upgrade their ice skating rink to LED lighting.

They were running 1000W metal halides but wished to address their rising power consumption, and their high ongoing maintenance costs.

Management was also keen to solve the issue of the long warm-up period for the lights in the morning and in-between sessions on Disco nights and when they need to condition the ice.

Solution

The existing fittings were upgraded from 28 x 1000W metal halide highbays to 28 x high output 175W Primo Highbays, on a one-for-one basis.

Mounting height was kept at 9.5m and the existing grid of 8m x 8m was retained, avoiding wiring costs.

Tiger produced a lighting plan to assure that the desired lux levels would be met.

The 60 degree beam angle of the Primo highbays delivered higher levels of light to the ice whilst increasing average lux levels from 400 lux to more than 500 - an improvement around the facility of 100+ Lux.



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The lighting upgrade resulted in dual benefits of improved lighting as well as reduced operating costs.

- **Fittings installed = 28 x 175W**
- **Fittings recycled = 28 x 1000W**

- **Power saving including ballasts 82%**

Primo175W LED Highbay

- High output - 21,000 lm
- Replaces 400-700W HID
- Height from 8+ metres
- 60 degree beam angle
- IP66



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LED HIGHBAYS



Solution (continued)

Importantly, the colour temperature of 5000K and the CRI value of 70 significantly improved the appearance of the ice and the ambience of the rink for spectators and players alike.

From the maintenance perspective, the existing 28 x 1KW Metal Halide Highbays with external control gear required a lamp change at least twice a year.

Replacing the metal halide globes incurred significant costs along with serious logistical issues. Costs were upwards of \$300 per globe and with a lead time of 3-4 weeks to receive them.

Naturally, the facility was keen to avoid dark areas caused by failures to globes or control gear.

Utilising the Energy Saving Scheme (ESS) in NSW the club was able to receive a substantial rebate covering well over 50% of the capital outlay.



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