



High mast LED floodlights for sporting facilities

shineon



Sport and community organisations are conscious of the need to set the tone in energy efficiency and environmental sustainability, both locally and internationally.



As Australia's sporting industry continues to flourish there is a need to upgrade both professional and community sporting grounds to meet growing needs. With local clubs seeing matches played into the evening and professional grounds needing to meet first-class standards for both players and viewers, quality of lighting is key.

At Shine On we have designed a comprehensive range of high mast energy efficient LED floodlights specifically for sporting and wider applications. Each has different features to meet the particular needs for the type of sport and its facilities, ensuring you get the best fit for your requirements. All have:

- High luminaire efficiency.
- High ingress and impact protection.
- Low glare.
- 80,000 – 100,000 hour lifetime ratings.
- Five year warranties.

Innovative product design

We first started designing our own range of LED lights back in 2015 when we couldn't source LEDs that met the needs of our clients. We encountered this same issue when we started talking to sporting facilities – the standard range of high mast LED floodlights just didn't fit, and they were way too expensive!

So we went about creating our own comprehensive range of the high mast LED floodlights which delivers the following for our clients:

- Swift paybacks (they're all at a great price point).
- Enhanced lighting outcomes and environmental benefits.
- Industry-leading warranty periods.

Applications

Our high mast LED floodlights have been carefully designed to ensure we meet the various lighting needs of quality sporting facilities across Australia while also reducing energy usage and costs. Our range meets the needs of the following applications, plus many more.

Tennis/netball court and hockey turfs

The key to lighting tennis/netball courts and hockey turfs correctly is ensuring that the ball is visible at all times by players, officials and spectators – regardless of how fast it is moving or where it is. The right floodlighting will have a wide beam with forward throw, very low glare and even lighting distribution.

Outdoor sports fields

Whether it's cricket, AFL, rugby, soccer or softball it's important that the lighting is uniform over the whole field and provides visibility of the full passage of the ball. With games being played later into the evening so more people can participate, the lighting needs to provide quality illumination for players, officials and spectators while also limiting obtrusive light for surrounding areas, particularly in residential areas.

Golf courses

Illumination will be required for the entire range, whilst also ensuring tee areas are well-lit, distance markers are clearly visible and players can follow the flight of the ball.

Indoor sports and recreation facilities

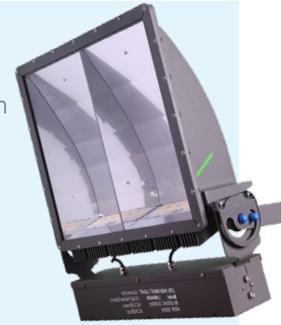
Our floodlights are also suitable for indoor sporting facilities such as swimming pools, gymnasiums and netball and basketball courts. When indoors it's important to ensure that the lighting design addresses the needs of all sports that will be played there and provides uniformity. Glare will particularly need to be considered with the design and placement of the lights.

Caravel Series

With wide area illumination, this is perfect for large area flood lighting applications that require extremely high quality, even light distribution, with very low glare, such as tennis courts. The indirect asymmetric beam angle provides very low glare with enhanced, more efficient lighting distribution and less light spillage.

Using the latest Lumiled LED 3030 chip technology, the Caravel delivers excellent luminaire efficiency and thermal management with a premium extruded aluminium heat sink. Combined with an impact and heat resistant tempered glass lens that has no chance of discolouration over time and a lifetime rating of 100,000 hours, you can forget about the time and costs you're currently spending on maintenance.

Available wattage: 450W, 600W, 800W | 600W typically replaces 1,000W metal halide



Pahi Series



The ideal solution for outdoor stadium and sports field lighting, delivering maintenance-free, professional area flood lighting with a great return on investment. Featuring a high quality lens designed specifically for outdoor use, it is waterproof, dustproof and UV resistant, with enhanced glare control.

The Pahi features high surge protection, wide ambient operating temperature and sealed housing, which is designed to give you a maintenance-free lifetime of 80,000+ hours and is suitable for almost any outdoor sporting application including sporting grounds, courts, arenas, golf courses and parks.

Available wattage: 600W, 800W, 1,000W, 1,200W | 800W typically replaces 1,500W metal halide

Tartane Series

The Tartane Series LED Floodlight is the perfect choice for replacing traditional forward throw high pressure sodium or metal halide luminaires. The forward throw, indirect asymmetric design has been developed specifically for high mast applications such as sports stadium's with high performing optics that provide superior light uniformity and market leading glare performance across the lit area.

Its robust design includes the latest specially designed high-powered Nichia LEDs and a toughened optical glass visor that provides high transmittance, low internal reflectance and high UV durability, for a lifetime of maintenance-free performance.

Available wattage: 1,000W, 1,200W, 1,400W | 1,000W typically replaces 2,000W metal halide



Pahi M Series



The Pahi M is the small form factor alternative to the high wattage Pahi range. The Pahi M boasts a very light weight compact design with a very low wind area, making it a perfect retrofit solution. Despite its compact size and weight it still packs all the features of its larger cousin, including excellent heat dissipation, high surge protection, sealed, impact resistant housing and UV resistant PC lens which delivers an amazing >100,000 hour operating life.

Available wattage: 300W, 400W, 500W, 600W | 600W typically replaces 1,000W metal halide

Key requirements	Caravel	Pahi	Tartane	Pahi M
Even light distribution	✓			
Low glare	✓		✓	
Low light spill	✓		✓	
Best energy savings				✓
Lightweight (lowest wind area)				✓
Adjustable light distribution	✓	✓	✓	✓
Wide ambient operating temperature		✓		
Beam angle options		✓		✓
High surge protection			✓	
High colour rendering		✓		
Asymmetric beam angle	✓		✓	
Low pole	✓			✓

Other applications

Our high mast floodlights also suit a range of other applications, including ports, airports, prisons, mines and yards. These areas obviously need the best possible light that will last for a long time, while using significantly less energy than their predecessors.



Case studies

Blacktown Tennis Inc.

Light energy saving: 55%

Payback period: 43 months

Ten year saving: \$90,416

Annual CO2 reduction: 42.79 tonnes

Newcastle International Hockey Centre

Light energy saving: 48%

Payback period: 38 months

Ten year saving: \$1,597,159

Annual CO2 reduction: 1,119.31 tonnes

West Tamworth Tennis Club

Light energy savings: 65%

Annual lighting energy saving: 27,430 kWh

Lighting output improvement: 40%

Prior to upgrade the average lux across the seven courts was 274 lux with a target improvement of 28% (350 lux). After installing 35 Shine On Caravel High Mast LED Floodlights, the achieved results are a 40% improvement in lighting output with an average of 383 lux across the courts, exceeding their targets.



“West Tamworth Tennis Club were very happy with the technical knowledge, processes and implementation adopted by Shine On in our LED lighting upgrade. They completed design options for us to consider, which helped in a big way. The actual lighting results and energy savings achieved are outstanding.”

— Tim Keen, Committee Member
West Tamworth Tennis Club

“Overall it was a very easy experience. Once the installation was complete, I immediately noticed that the place looked a lot better, and we’ve ended up saving a heap on our utilities bill. They’re such an efficient product we’ve started negotiations with Shine On about doing some installations on our other sites because their product is so practical”

— Stewart Morris, Centre Manager
Lane Cove Aquatic Centre

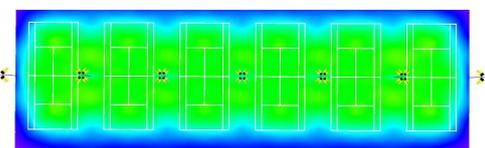
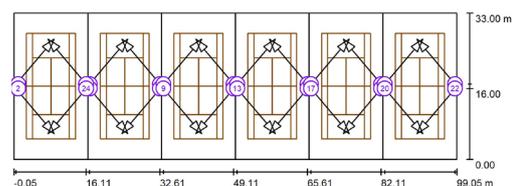
Get the light right, first time with our qualified lighting designers

It's clear that sports facilities require a light quality that ensures both participants and spectators can see what's going on in all areas, in detail. Particularly when you take into consideration the objective of being able to track small objects such as balls or pucks at all times.

Each facility and sport will have different requirements depending on the equipment used, the pace of the game, whether it's indoor or outdoor and whether it's played at night.

The best way to address each of these factors and ensure you have the right lights, and the right amount, is to use the services of a certified lighting designer. The lighting designer will use specialised software and your site plans to reconfigure the lights so you have the right amount of output depending on what the space is used for, and that the light optimally covers the areas where it is needed. A lighting designer will also make sure that the space is not over-lit, resulting in wasted energy and higher than necessary power bills.

We employ a team of lighting designers who oversee all of our LED lighting projects, and their work is inclusive in the price to customers.



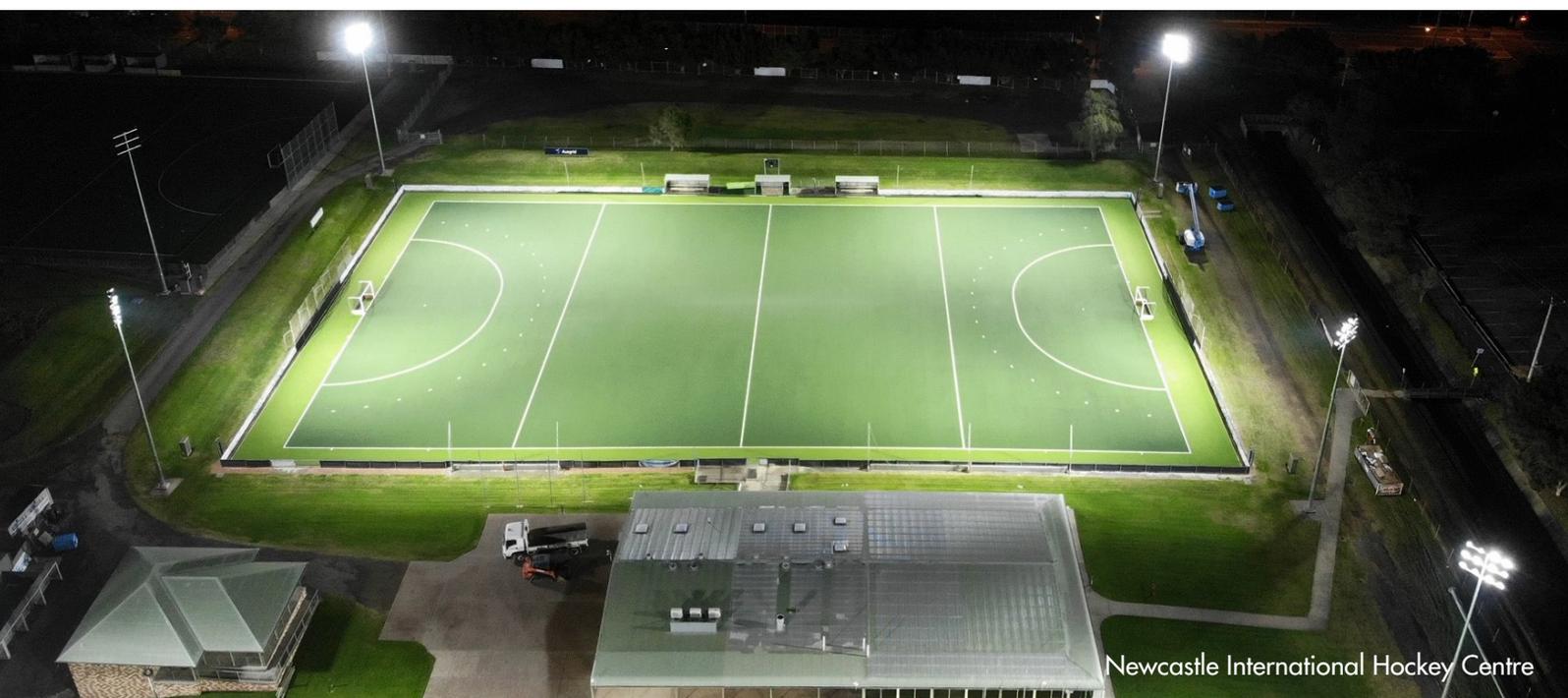
Dialux Report for six court tennis facility illustrating recommended Shine On lights exceed AS1680 lighting standards for club competition.

Who we are

Shine On is an energy efficiency specialist that upgrades commercial businesses and community infrastructure with LED lighting and solar systems Australia-wide. We offer a complete turnkey solution, from design through to project management, installation and subsidy submissions as well as designing and developing our own market-leading LED product range. Our extensive warranties and experienced team provide peace of mind and ongoing assistance long after installation is complete.

What differentiates us

- We are an industry pioneer with over ten years' experience delivering energy efficiency solutions.
- We are proven experts in both commercial LED lighting and solar, providing leading-edge solutions that give our clients the biggest savings and return on their investment.
- We design and develop our own market-leading LED lighting range.
- We provide comprehensive and accurate energy efficiency proposals with complete transparency on product performance and financial and environmental savings.
- We operate under all major state and national efficiency subsidy programs in Australia.
- We are ISO 9001 certified (since 2016) as well as ISO 14001 and ISO 45001 certified.



Newcastle International Hockey Centre

Why become more energy efficient?



Reduce
your electricity bills and safeguard against rising costs.



Protect
the environment.



Improve
the playing environment.



Save
on light bulb replacement and maintenance costs.

Contact us

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Industry accreditations and memberships



Give your players a brighter future
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