



Advanced
LIGHTING TECHNOLOGIES

AN ALL-STAR PERFORMANCE

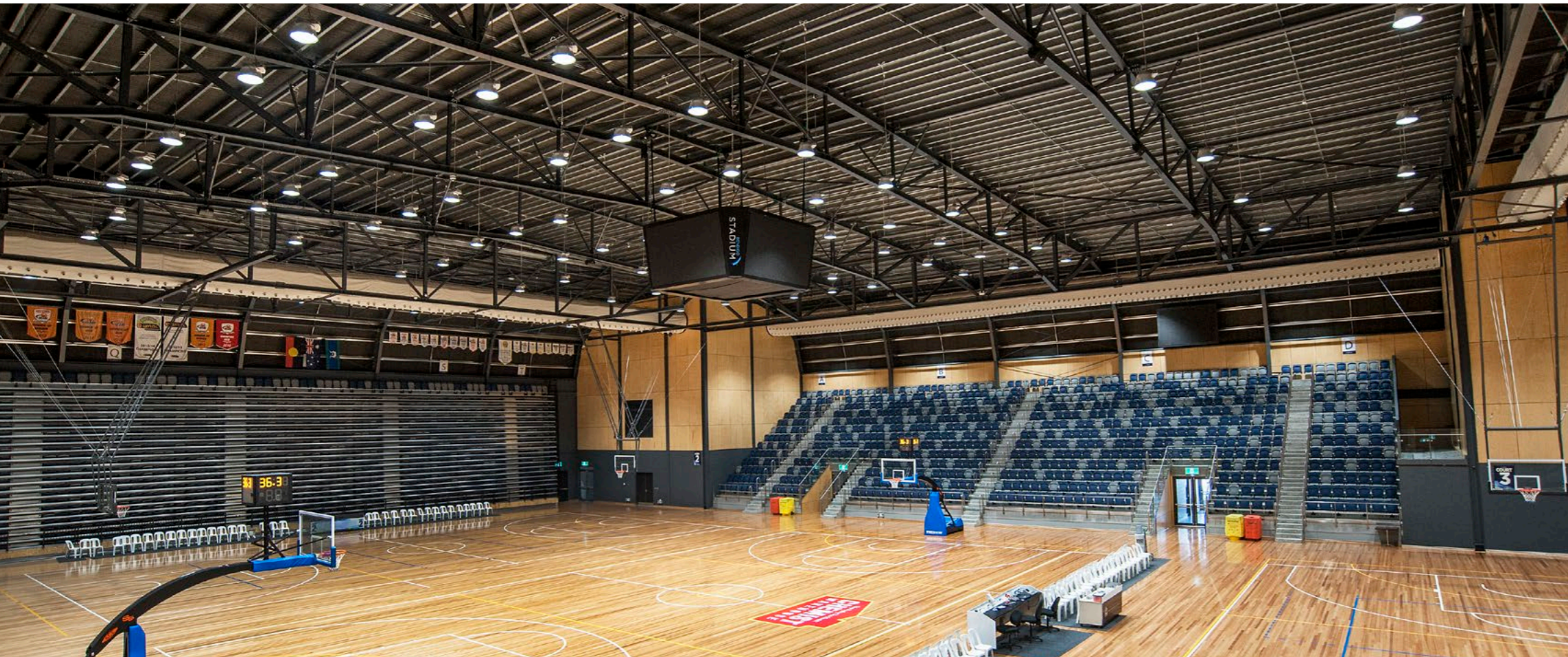
CASE STUDY

BENDIGO STADIUM
INDOOR SPORTS LIGHTING



BENDIGO STADIUM'S WORLD-CLASS REDEVELOPMENT

\$23M REDEVELOPMENT
UP TO 4,000 SPECTATORS
2,700M²



THE STADIUM

Completed in early 2018, the expansion of Bendigo Stadium has significantly boosted Central Victoria's capacity to attract big events, with the dynamic venue already playing host to a number of major sporting contests, including a Basketball World Cup Qualifier between Australia & Kazakhstan.

The stadium also plays an important role in promoting a healthy and active lifestyle to local residents, with the expanded venue now able to offer increased access to local sporting teams and community groups.

The newly-constructed main arena is over 2,700m² in size and features retractable stadium seating that allows the space to be configured for a variety of sports and events. When fully retracted, 3 separate multi-purpose courts can be used at the one time. For major events, the seating can be lowered to create a single show arena that accommodates up to 4,000 patrons.

After recently undergoing a \$23m redevelopment, Bendigo Stadium has become the envy of regional Victoria.

Capable of holding up to 4,000 spectators, the venue caters to local and international sporting and entertainment events. Advanced Lighting Technologies supplied the high-bay LED lighting featured in this world-class facility.

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Bendigo Stadium CEO Nathan O'Neill explains just how important the expansion has been to the people of Greater Bendigo and surrounds.

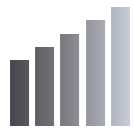
We're extremely proud to operate a truly world-class venue here in Bendigo. We welcome over 12,000 visitors through our doors each week, and have already hosted a number of big events unmatched elsewhere in regional Victoria.

REQUIREMENTS & CHALLENGES



INSTANT RE-STRIKE

Such a flexible stadium required an equally flexible lighting solution. The arena lighting needed to be easily configured to match the type of event being held. Installing the latest in LED technology would mean the lights can also be quickly turned on and off, avoiding the slow warm-up and re-strike time required by outdated metal halide fittings.



COMPLIANT LIGHT LEVELS

Light levels around the arena's entire playing surface needed to comply with the Australian Standard for training and competition play (AS 2560.2.2 – Lighting of Multi-purpose Indoor Sports Centres). The show arena (used to host amateur, semi-professional and elite sporting competitions) required additional lighting to allow for high-definition video broadcasts.



EXTENDED LIFE TIME

High ceilings are inherent of indoor sports centres, meaning specialised and expensive lifting equipment is usually required to access the lights in case of defects or failure. Any lighting installed needed to be reliable over an extended life time.



LOW GLARE

Spectators, officials and participants in sports such as netball, basketball and volleyball can also spend a great deal of time looking upwards during a match. Luminaires installed where these sports are played should generate minimal glare to ensure maximum visual comfort.



THE SOLUTION

Advanced Lighting Technologies drew upon our considerable sports lighting experience to specify a world-class solution that matched Bendigo Stadium's world-class venue. We're proud to offer lighting products from some of the world's leading manufacturers, including globally-renowned Cree, who have been at the forefront of LED innovation since its commercial inception.

In the case of Bendigo Stadium and other indoor sports centres, the Cree CXB Series LED High-bay luminaire offers an ideal solution; a lightweight, compact luminaire which is easy to install and comes in a range of lumen packages. The aluminium reflector provides an excellent shielding angle to hide the light source, reducing the distraction to players, officials and spectators alike. The Cree CXB Series also comes with an industry-leading 10-year warranty, offering peace of mind to stadium operators.

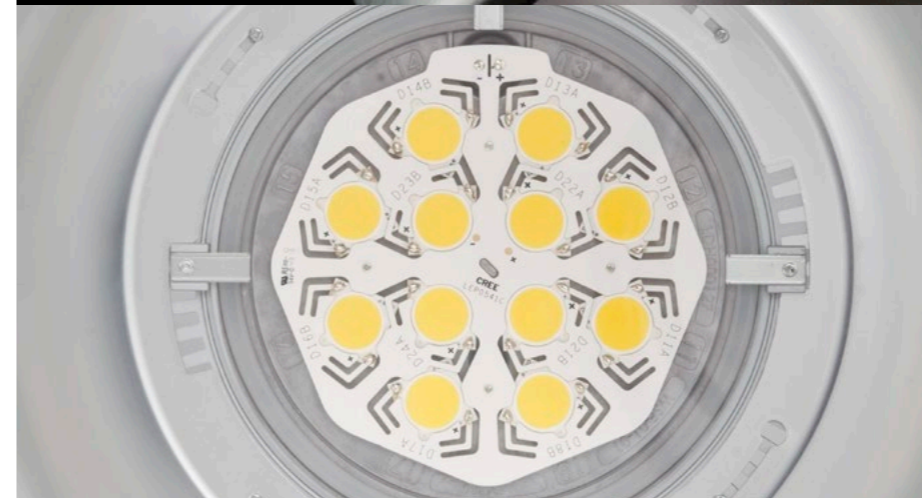
Advanced Lighting Technologies' Technical Sales Representative Peter Rees worked closely on the project and is familiar with the challenges of sports stadium lighting:

"Delivering a quality lighting solution is always important, however in a dynamic environment such as Bendigo Stadium, the right choice of luminaire was crucial. By going with the Cree CXB Series, the stadium has a quality product that can withstand the challenges presented by a multi-purpose sporting venue for a long time to come".

In addition to new construction projects like Bendigo Stadium, we've also supplied the Cree CXB Series as a retrofit solution at numerous multi-purpose indoor sports stadiums around the country. In one case, replacing existing metal halide fittings with the CXB Series reduced the number of fittings per court by half and slashed energy consumption by a **massive 75%**.

Advanced Lighting Technologies is the **sole authorised distributor** of Cree lighting products in Australia.

CREE 
AUTHORISED DISTRIBUTOR



CREE CXB SERIES HIGH BAY
DELIVERED LIGHT OUTPUT: UP TO 26,000 LUMENS
CRI: 80
CCT: 4000K, 5000K
WARRANTY: 10 YEARS
LIFETIME: UP TO 100,000 HOURS
WEIGHT: MAXIMUM 6.4 KGS
REFLECTOR OPTIONS: ALUMINIUM, ACRYLIC
APPLICATIONS: SPORTS (ALUMINIUM ONLY),
RETAIL, INDUSTRIAL, WAREHOUSE

Visit adlt.com.au for additional technical information.

10-YEAR MANUFACTURER'S WARRANTY
VIRTUALLY ZERO MAINTENANCE
100,000 HOUR LIFETIME

THE RESULT

A dynamic, modern venue like Bendigo Stadium requires an equally-capable lighting solution. This has been achieved with the Cree CXB Series LED High-bay. The CXB's exceptional uniformity and colour rendering means spectators won't miss a moment of the action when cheering on their team, while the glare-reducing reflectors means players and officials won't be distracted during that crucial jump-ball or free throw.

Excellent lighting starts with excellent lighting design, and clever spacing of the luminaires has resulted in uniform illumination across not only the playing area, but the sidelines and scorer's tables too, reducing the risk of an incorrect call or a controversial refereeing decision affecting the outcome of a game.



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With the Cree CXB Series requiring virtually zero maintenance over its expected 100,000 hour lifetime, combined with a 10-year manufacturer's warranty, Bendigo Stadium can rest assured lighting is one thing it won't have to worry about for the foreseeable future, as explained by Mr O'Neill:

We've already hosted some of the biggest names in Australian basketball right here in Bendigo, and we're only just getting started. We take great comfort knowing that the lighting above the court will allow our players to 'light it up' on the court for years to come.



Advanced Lighting Technologies are specialists in architectural, commercial and industrial lighting. **Whatever the application, whatever the budget – we'll have a solution that fits your needs.**



**Advanced Lighting Technologies
Australia Inc**

110 Lewis Road
Wantirna South, Victoria
AUSTRALIA 3152

T: +61 3 9800 5600
F: +61 3 9800 5533

E: sales@adlt.com.au

www.adlt.com.au

**Advanced Lighting Technologies
New Zealand Ltd**

8 Boeing Place
Mount Maunganui
NEW ZEALAND

T: +64 7 579 0163
F: +64 7 579 0164

E: light@adlt.co.nz

www.adlt.co.nz

**Advanced Lighting Technologies
Asia Pte Ltd**

Block 4008, Ang Mo Kio Avenue 10
#04-06, Techplace I
SINGAPORE 569625

T: +65 6844 2338
F: +65 6844 2339

E: sales@adlt.com.sg

www.adlt.com.sg