

CASE STUDY

CARNEGIE PRIMARY SCHOOL GYMNASIUM

Built as part of the Victorian Government's recent \$2.5 billion 'Education State' investment, Carnegie Primary School's new gymnasium has quickly become the school's hub for sports, music, drama and art.

The new gym was constructed as part of a \$5.5 million redevelopment at the school, and features a competition-sized stadium, spectator seating, retractable basketball rings and sound-proofing. The building also features LED lighting above the multi-purpose sports court.

Multi-use facilities that host sports like badminton, basketball and netball are covered by Australian Standard 2560.2.2-1986. Carnegie's gym was designed to comply with the Standard's recommendations for training & recreational play (an average of 300 lux).

While achieving the levels recommended in the standard allows sports to be played and viewed effectively, the correct luminaire choice is also important to provide a safe and comfortable viewing experience for participants and spectators alike. A luminaire that can withstand the impact of a ball strike without shattering will reduce the risk of injury to those below (and the need for costly maintenance or replacements). Sports that involve participants and spectators looking upwards a lot (such as volleyball or basketball) should also be played under lights that generate minimal glare.

To achieve both, **Advanced Lighting Technologies** supplied the innovative **PRACHT Quadronius** for the project. Featuring precision German engineering, this futuristic LED highbay is specifically designed for sports lighting, and combines powerful illumination with a shatter-proof polycarbonate lens and robust mounting bracket.

END USER

CARNEGIE PRIMARY SCHOOL

LOCATION

CARNEGIE, VICTORIA

CHALLENGES

MEET REQUIRED LIGHTING STANDARDS

MINIMISE GLARE

WITHSTAND POTENTIAL BALL STRIKES

SOLUTION

PRACHT QUADRONIUS SERIES

RESULTS

HIGH QUALITY ILLUMINATION

SHATTER-PROOF, ROBUST LUMINAIRE

SECURE MOUNTING BRACKET



PRACHT Quadronius Series

VERSATILE & INNOVATIVE LED HIGH-BAY

The PRACHT Quadronius LED High-Bay luminaire is extremely versatile, perfect for lighting industrial applications and large spaces such as warehouses, cold storage facilities, logistic centres, stadiums, swimming pools and more.

An innovative future-oriented luminaire, the Quadronius is available in variations specifically designed for certain applications, including sport, indoor swimming pools, food, wet areas and more. It is also available in a 'High Temperature' version designed to operate in extreme conditions up to 75°C.

The Quadronius can also be ordered with PRACHT's XLS Technology (Extended Lighting Solutions – includes Bluetooth connectivity, motions sensors and more!). Contact us for more information today!



FEATURES

- AVAILABLE IN SINGLE OR TWIN LAMP
- AVAILABLE WITH PRACHT'S XLS TECHNOLOGY
- MOST VARIANTS AVAILABLE WITH OPTIONAL DALI DIMMING
- DIFFERENT HOUSING COLOURS AVAILABLE

BENEFITS

- WIDE RANGE OF CONFIGURATIONS
- OPERATING TEMPERATURE FROM -40°C TO +75°C (MODEL DEPENDENT)
- HIGHLY FLEXIBLE, SWIVELLING LAMPS
- IMPACT RESISTANT



PRACHT Quadronius Series

VARIATIONS

PRACHT QUADRONIUS

STANDARD VERSION SUITABLE FOR MANY APPLICATIONS, INCLUDING LOGISTICS, INDUSTRIAL AND COLD STORAGE FACILITIES

PRACHT QUADRONIUS POOL

SPECIAL LACQUERED COATING PROTECTS INTERNAL COMPONENTS FROM HUMIDITY AND AGGRESSIVE CHLORINE VAPOURS

PRACHT QUADRONIUS SPORT

PERFECT FOR USE IN GYMNASIUMS & BASKETBALL STADIUMS THANKS TO A SHATTER-PROOF PC PANE AND BALL-PROOF MOUNTING BRACKET

PRACHT QUADRONIUS INDUSTRY

PRACHT QUADRONIUS INDUSTRY CONSTRUCTED WITH INDUSTRIAL-GRADE COMPONENTS FOR INCREASED PROTECTION AND LIFESPAN

PRACHT QUADRONIUS HT

SPECIFICALLY DESIGNED TO WITHSTAND EXTREME TEMPERATURES, RANGING FROM -40°C UP TO +75°C

PRACHT QUADRONIUS XLS

PRACHT'S XLS (EXTENDED LIGHTING SOLUTIONS) OFFERS CONNECTIVITY, MOTION SENSORS AND SPECTRAL LIGHTING