

CASE STUDY – COVERED SPORTS FACILITY

PADUA COLLEGE OUT IN FRONT WITH CUTTING EDGE LIGHTING



In 2015 Padua College employed the services of Architect Peter McCabe from ABM Architects to design a covered sports facility that would benefit the students at the school for many years to come. When it came to lighting the space, Peter worked with experienced electrical engineer Andrew Aitken to develop and review the available options. Peter and Andrew reviewed the designs of other recently constructed sports facilities in Australia and around the world to determine the best lighting solution for the space.

The assessment identified a number of key issues that the lighting needed to address:

- Maintenance costs associated with replacing failed fittings
- Damage caused by intentional or accidental impact
- Operational costs
- Capital costs
- Training and competition lighting levels for tennis, soccer, basketball and volleyball
- Aesthetics.

The review included available fluorescent, metal halide and LED technologies. Each were assessed against the requirements and the options were presented to the School. The School agreed with the recommendation to install LED high bay fittings due to their high efficiency, lower operating cost and reduced maintenance requirements. The increased capital cost for this option was considered a good investment and would be recovered by operational and maintenance savings over the lifetime of the lighting.

As the detailed design was developed, the Andromeda Floodlight from Empyrean Lighting was selected. This low profile fitting is robust and has a wide range of lumen packages. The fittings selected included the AndromedaXPB-Flood-300W with lens 81 in the center of the courts where the mounting heights were higher and the AndromedaXPB-Flood-233W with lens 81 along the edges of the courts where the fittings were closer to the floor.



Benefits of using Andromeda™ Floods:

- **Reduced maintenance costs with a lifespan of 50,000 hours to L70.**
- **Robust (IK08) and weatherproof (IP66), reducing the risk of failure or damage from impact.**
- **70% more efficient than traditional lighting, reducing the Schools' operational costs.**
- **Backed by a 5year comprehensive warranty.**
- **Customisable and flush mounted against the ceiling, thus reducing the risk of sports equipment becoming stuck behind the fitting.**