



Kayo Stadium - Redcliffe Dolphins Rugby League Club Case Study

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Leaders in Lighting

About Our Client:

Kayo Stadium is a multi-purpose rectangular facility with a capacity of 10,000, located in the northern Brisbane suburb of Redcliffe. After the Dolphins joined the National Rugby League (NRL) in 2023, the stadium underwent significant infrastructure upgrades to meet elite competition standards, fulfill national broadcasting requirements, and enhance the fan experience. In addition to hosting multiple home games each season for the NRL premiership, Kayo Stadium also functions as a vital community sports hub for training, junior development, and major events.

Precision Sports Lighting was brought on board to implement a major upgrade of the stadium lighting system. This upgrade ensured the venue adhered to Australian digital television broadcast standards while also enhancing performance, reliability, and operational flexibility for elite sports entertainment.

Sports Lighting Project Overview:

Precision Sports Lighting was contracted to upgrade the stadium's lighting to meet Australian digital television broadcast standards, which support NRL and other elite sporting events. This enhancement improves the venue for players, officials, and spectators. The project ensures high-quality, consistent lighting for both live audiences and television broadcasts, conforming to strict sports lighting requirements.



Scope of Works:

- Supply and installation of LED luminaires that provide exceptional light output, colour consistency, and broadcast-quality performance.
- Construction of four 44-meter lighting poles, featuring complex, custom-engineered footings designed to support stadium-scale loads and withstand various environmental conditions.
- Installation and integration of a fiber-optic network connecting all luminaires to enable advanced lighting control.
- Upgrades to the electrical system, ensuring reliable and high-performance power distribution throughout the entire lighting system.



The construction of 44-meter lighting poles necessitated complex engineered footings designed to withstand significant wind loads while ensuring long-term structural integrity and safety. The installation process required careful coordination to avoid disrupting scheduled matches, community use, and stadium operations.

Furthermore, the advanced control system enables precise management of lighting levels, providing efficacy and operational flexibility to support various activities, from elite NRL broadcasts to community events and training sessions.