

**VENUE**

Witter Field at Piedmont High School is home to Piedmont's football, baseball, soccer, track & field, lacrosse and softball teams. The facility is used by both the school and community sports teams seven days a week.

**CHALLENGE**

Operations staff recognized the existing antiquated lighting system with its decreased lumen output was due for an upgrade. The system required frequent and costly maintenance/repairs and was not energy efficient. Given that the field was used by a variety of the school's teams as well as community groups, hours of usage were higher than most schools. Light levels and uniformity were poor as well.

**SCOPE**

The project included retrofitting the new Ephesus All Field 750 LED fixtures onto the existing poles and crossarms. The project was conducted easily and smoothly in a tight timeframe in part because it met financial and construction criteria so as to be exempt from additional rules from the Division of the State Architect of California. The retrofit nature of the project and ability to use the existing poles and crossarms were key to this.

**SOLUTION**

Ephesus All Field 750 fixtures were installed, along with the Ephesus AirMesh control system. The system is virtually maintenance-free, upgradable and future-proof. The AirMesh hub has five pre-programmed settings to provide control at dimming levels of 0%, 25%, 50%, 75% and 100% and can accommodate up to 25 pre-programmed scenes. Scheduling and zoning can also be controlled, and operators can receive notification of system issues to take proactive measures. The system can also be remotely upgraded as additional functions become available, such as dynamic scenes.

**RESULTS**

Energy costs were reduced by an estimated 46% while the number of fixtures was reduced by 20. Light levels nearly doubled, improving player safety and visibility. Uniformity improved and the lighting design provides excellent cutoff to ensure there is no light spill in the surrounding area. Spectators enjoy a clearer, brighter view of the action to enhance the game-day experience.

*"We had the outstanding privilege to upgrade the sports lighting at Piedmont High School's Witter Field. The school district purchased the Ephesus All Field 750 fixtures. With football season fast approaching, there was a very tight window for installation. We had no room for error. As a contractor, the number one way to be profitable is to meet or beat your schedule. This team helped us to be successful by delivering a great product and excellent customer service. Eaton-Ephesus, Techline Sports Lighting and CAL Lighting made sure the lights were delivered on time, aiming was accurate, all associated hardware was verified, and the commissioning was ready to go. From start to finish everything went perfect."* - Anthony Gerdes, Vice President, RDM Electric Co.