

Previous system 1500W Metal Halide Light Avg 50 foot-candles

Liron solution 800W LED Sport Light Avg 65 foot-candles

Energy Savings

**70%**

#### Challenge:

The Cowete High School football field experiencing poor light uniformity for the level of play taking place. Maintenance costs for the metal halide lighting system were high.

#### Scope:

The objective was to achieve an illumination level of over 65 foot-candles on the field through a one-to-one replacement of the existing lighting system.

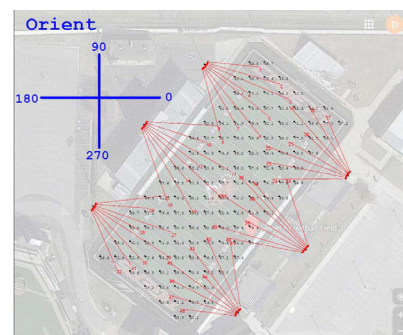
#### Solution:

48 LEDSPL Liron Sport Light were installed. The LEDSPL used in this project had a color temperature of 5000K, providing a natural light color that enhances visibility and reduces eye strain. The lighting system was also designed with an advanced control system that allows the lights to be dimmed or brightened as needed, reducing energy usage and providing flexibility for different lighting needs.

#### Results:

Total system wattage was reduced by over 342,000 watts, the average foot-candles increased to 67.14 fc. Energy savings are estimated to be over 70% and also reducing the maintenance cost for the school. Cowete High School was pleased with the outcome and plans to use LED lighting for their softball field and baseball field.

Calculation summary			
Unit	Avg	Max	Min
FC	67.14	87.7	24.9



At Liron, our team of expert sport light layout designers are capable of delivering professional-level design for any stadiums.