

## Compton Unified School District

## Compton, CA



*"CUSD improves light levels and saves 50% in lighting costs by retrofitting their gyms with FSC LED high Bays ."*



### LED High Bays Replace T5HO Fixtures

#### The Situation

Compton USD is a school district committed to saving energy and resources to focus funds on students and provide the best learning environment possible. In August of 2017, CUSD partnered with ENGIE, a global energy and services company who focuses in renewable energy and gas, to conduct a mechanical/ electrical investment grade audit at their campuses. ENGIE evaluated and recommend a comprehensive energy and infrastructure improvement project that achieved multiple benefits for the CUSD; including saving money by retrofitting interior and exterior lighting.

#### The Solution

FSC retrofits inefficient fluorescents in gymnasium with high efficiency LED lighting at Centennial High School in Compton, CA. The project also included the installation of 8 foot LED strips at the court perimeter and occupancy sensors to control usage. FSC helped make the changes needed to improve energy efficiency while enhancing light levels and controlling future maintenance costs. The new lighting provides ideal illumination for gymnasium applications, boosting foot candle readings. As an added bonus the new LEHB fixtures will save an estimated \$3,528 in addition to the savings provided by the integration of occupancy sensors. The long life of the LEHB Series will contribute to a significant reduction in maintenance costs by eliminating the expense of group re-lamping and on-going spot re-lamping. In all, the CUSD project delivered improved light levels and color quality, decreased energy usage and maintenance costs for years to come.

#### LEHB Series LED High Bay Features:

- Sensors can be integrated for additional energy savings
- Wireguard, emergency battery back-up and step dimming optional
- UL Listed and DLC Premium Listed
- 50°C Ambient Temperature Rating
- Low maintenance & energy efficient

|                           | EXISTING            | REPLACEMENT      |
|---------------------------|---------------------|------------------|
| TECHNOLOGY                | Fluorescent         | LED              |
| SYSTEM                    | 6 Lamp T5 High Bays | LED High Bay     |
| TOTAL SYSTEM ENERGY USAGE | 351/ 112            | 178/ 52          |
| CONTROLS                  | None                | Occupancy Sensor |
| TOTAL ANNUAL kwh          | 46,598              | 23,078           |

**FSC Lighting delivers RESULTS:**

ANNUAL ENERGY COST SAVINGS:

**\$3,528**

ANNUAL ENERGY SAVINGS:

**23,520 kWh**