



## Edwards Air Force Base

The 412th Test Wing at Edwards Air Force Base, California, plays a critical role in advancing U.S. Air Force capabilities, overseeing flight and ground testing of cutting-edge aerospace systems. As the second-largest base in the Air Force, supporting over 10,000 personnel across a 481-square-mile installation, operational efficiency is paramount.

### Key Metrics

**Annual Savings:** \$ 303,970  
**Annual kWh Savings:** 1,864,679  
**Annual CO2 Reduction** 667  
 (metric tonnes)

- ROI driven by 77% energy savings and reduction of maintenance costs



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**77%  
Saved**

## CHALLENGE

- Provide a safe and well-lit work environment
- Improve lighting in hangars
- Improve lighting in parking lots
- Reduce maintenance costs/Improve energy efficiency

## SOLUTION

Analyze the facility to upgrade hangar and parking lot lighting to meet the specifications in the RFQ

Replaced:

61 - 400W Metal Halide	->	50W LED Retrofit Kits
256 - 1000W Metal Halide	->	250W LED High Bay

## BENEFITS

**Better Visibility in hangar work environment**

**Increased safety in parking lot**

**Reduced maintenance**

**Energy and cost savings**

**1**

### Energy Use

- Annual Energy Use Before:	2,450,696 kWh
- Annual Energy Use After:	586,017 kWh

**2**

### Electricity Cost

- Annual Electricity Cost Before:	\$ 392,111
- Annual Electricity Cost After:	\$ 93,763

**3**

### Energy Savings

- Yearly Energy Savings:	\$ 298,348
- Yearly Maintenance Savings:	\$ 5,622
<b>Yearly Savings:</b>	<b>\$ 303,970</b>