



# Baltimore Washington International Airport



## LED LIGHTING UPGRADE CASE STUDY

### BWI Updates Indoor and Outdoor Lighting

**Owner**

BWI Airport

**Contract Type**

LED Lighting Upgrade

**Contract Amount**

\$578,310.21

**General Contractor**

Facility Solutions Group

**Energy Savings**

\$143,439 a year

**Number of Fixtures Replaced**

719

**Annual kWh Reduction**

1,103,383

### CHALLENGE

Baltimore/Washington International Thurgood Marshall Airport, commonly referred to as BWI is an international airport serving Baltimore, Maryland. Exterior lighting at the airport was predominantly High-Pressure Sodium, and BWI wanted to take advantage of the energy savings, longer life, and better color of LED. BWI was also very interested in maximizing available utility rebates and subsidies. But they wanted to use heavy-duty industrial grade fixtures as they have always used in the past.

### SOLUTION

The airport knows and trusts Holophane light fixtures, a division of Acuity Brands., and these fixtures were utilized throughout the project. The outdoor lighting retrofit covered parking lots, including long-term lots for travelers, short-term parking, Uber and cell phone lots, and bus parking. Outdoor lighting at the fuel farm was also updated, along with the indoor lighting in field maintenance and airport offices.

### RESULT

The resulting retrofit produced 1,103,383 kWh savings annually, for \$143,439 in electric bill savings a year. FSG was able to help BWI apply for and receive rebates that covered 80% of the installed cost, resulting in a payback of the new lighting system in less than a year based on energy savings alone. With the new system being fully warranted for 5 years, and having a much longer life than the HPS system, maintenance costs were virtually eliminated.

