

# Shaw AFB Energy Efficient Lighting Projects

## **Technologies Implemented:**

\* LED Lighting

\* Light Emitting Diodes

\* Induction Lighting

\* No electrodes; uses electromagnetic fields for power to generate light

\* Daylighting Controls

\* Adjusts interior lighting based on ambient daylight levels

\* Wireless Lighting Controls

\* Offers group programming, power consumption monitoring, and lifespan detail

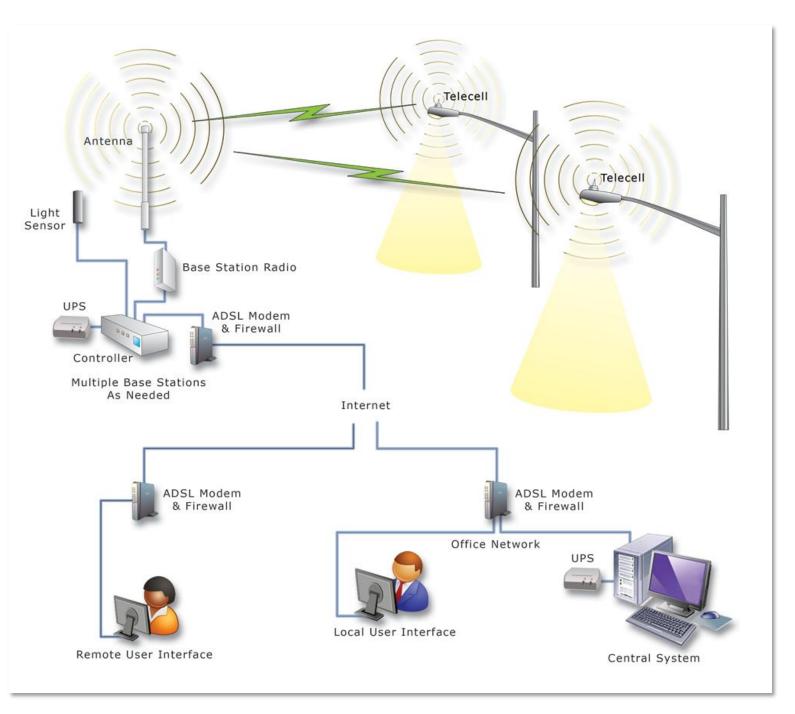
#### \* High Efficiency Fluorescent





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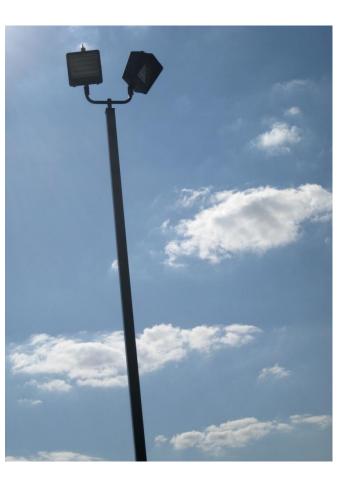
## \* Smaller design, lower wattage, same light output



#### **Example Facilities Included:**

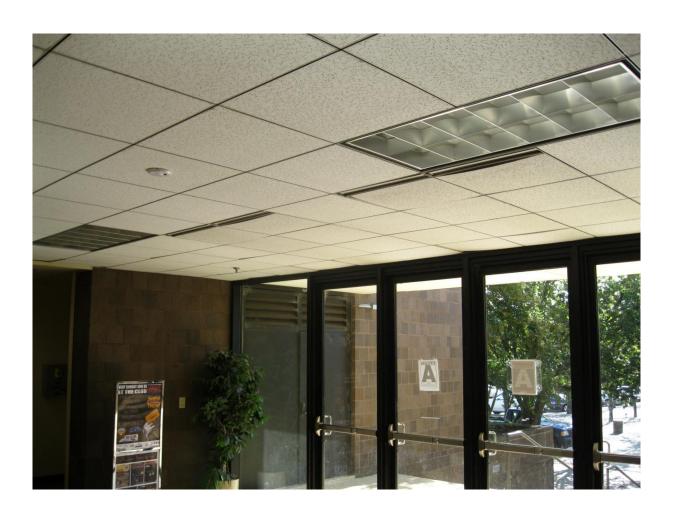
- \* B250 Civil Engineering Squadron \* Install Interior LED Lighting
- \* Munitions Area
  - \* Install Induction Lighting with Wireless Control
- \* B1118 & 1122 MSG & Wing HQ \* Install Daylighting Controls
- \* B1904 Comm. Facility Warehouse





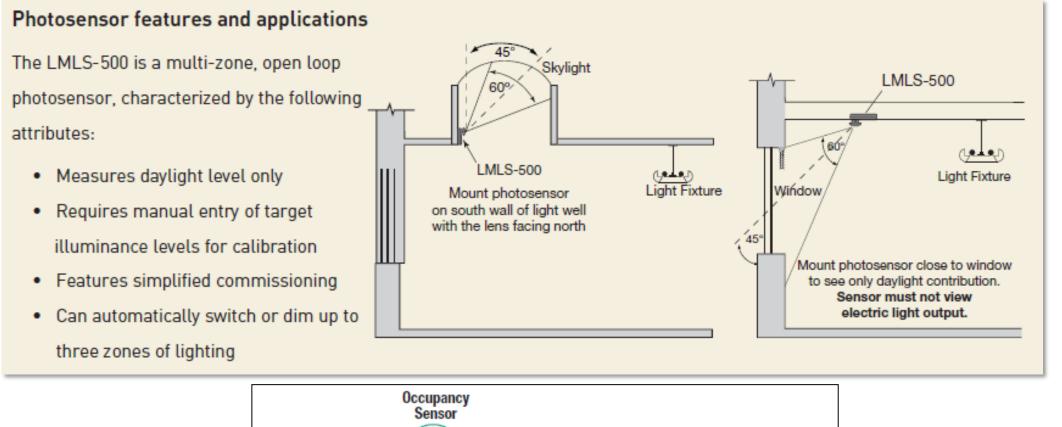
#### **Energy/Cost Savings:**

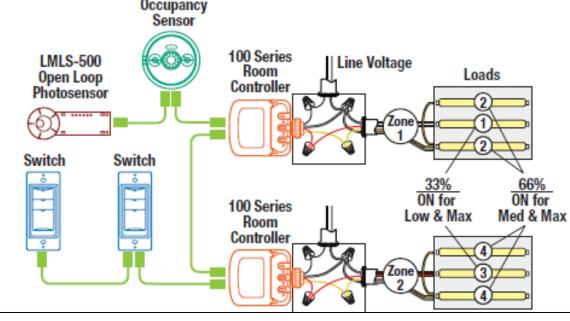
- \* Daylighting Controls save Shaw approximately: \* \$90,000/yr & 6,600 MBTUs/yr
- \* HID lighting replacement with T5 fluorescents:
  - \* Increases lamp life by ~30%
  - \* Reduces maintenance costs by ~\$6,000/yr
  - \* Saves approximately 2000 MBTUs/yr
- \* Interior LED lighting install in B250:
  - \* Reduced wattage of lamps required for illumination levels by greater than 50%
- \* Occupancy sensors installed in multiple facilities:
  - \* Eliminates wasted lighting burn hours during unoccupied times

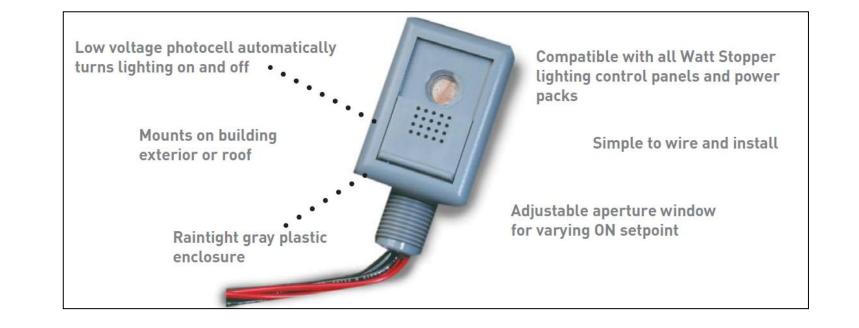




# \* Replace High Bay Metal Halides with T5 Fluorescents







### **Future Projects:**

- \* Replace additional high intensity discharge lighting with energy efficient LED lamps
- \* Upgrade exterior parking lot and street lighting to LED technology
- \* Install additional occupancy sensors in multiple facilities