



**Before**

## Aviation Company Cuts Energy Use, Raises Light Levels in Airplane Hangar

**Mizzou Aviation, Joplin, MO** - A multi-dimensional company, Mizzou provides a variety of aviation services to both corporate and private customers. They sell and maintain many types of aircraft, offer hangar and charter services, as well as provide flying lessons.

"The 31 year-old, 15,000 sq. ft. building has had a variety of lighting systems over the years," noted John Brown, President. "The most recent 16 fixture, 400-watt high pressure sodium system didn't meet our needs anymore." The system only provided 18 footcandles and created shadows, resulting in difficult working conditions for the mechanics.

Mizzou Aviation replaced the HPS system on a one-for-one basis with 16 Williams GL luminaires, each with four 54-watt T5HO fluorescent lamps.

"You certainly notice the difference with the new lighting," said aviation mechanic Wendell Laurie. "It is 300% better and I don't have any more problems with colored wires or working with small airplane parts. Plus, we conserve energy – usage is down 50% with the new lighting."

### Job Specific Information:

- 16 400-watt high pressure sodium fixtures replaced one-for-one with 16 Williams GL 454 T5HO fixtures
- Mounting height: 22' above the floor
- Spacing: 20' on center
- Light levels increased from 18 footcandles to 34 average maintained footcandles
- Energy usage down 50%, light levels up 90%



**After**



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