



Before

Williams GL Fixtures Save Energy, Increase Light Levels in Gymnasium

Carthage Junior High School, Carthage, MO - The gym is a real community resource. For 825 students, it is the site for all types of physical education classes and sports activities, as well as assemblies, school dances and plays. The town also uses it as a meeting hall and recreation center when school is out.

"The lighting in the gym was installed when the building opened," said Dr. Kirby Hall, assistant superintendent for business — "The combination of 15 400-watt mercury vapor lamps over the floor and five 300-watt incandescents over the bleachers just didn't provide the high quality lighting the wide range of activities require today."

The School District installed, one-for-one, 20 Williams GL Low Profile luminaires with wireguard, each with four 54-watt T5 HO fluorescent lamps. Mounted on the gym ceiling on 20 foot centers, the single phase, 110-volt system provides 65 footcandles (maintained) on the floor, almost 350% increase over the old system. At the same time, energy use in the gym dropped 45%.

"Everyone has been very pleased with the new lighting," noted maintenance electrician John Russo. "I've heard comments about the significant improvement in the quality of light in the gym. I also saw how durable the Williams fixtures were when one dropped during installation; it wasn't damaged at all — that's what I call durable."

Job Specific Information:

- 15 400-watt mercury vapor lamps and five 300-watt incandescents replaced one-for-one with 20 Williams Low Profile luminaires with wireguard, each with T5 54-watt T5 HO fluorescent lamps.
- Mounting height: 22' above floor
- Spacing: 20' on center
- Footcandle levels: 65 average maintained
- Light levels up 350%, energy usage down 45%



After



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