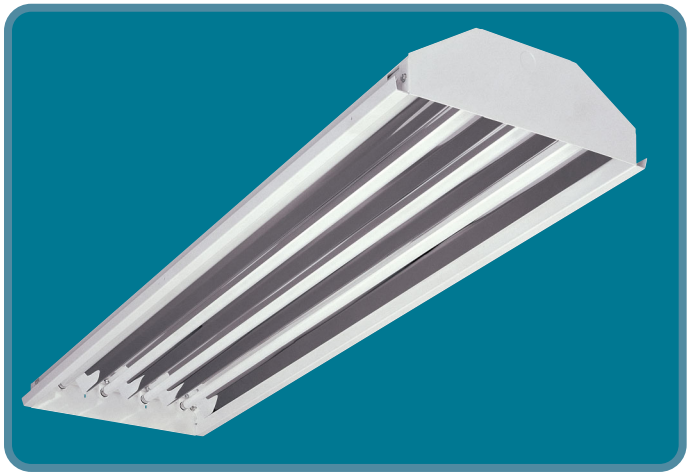


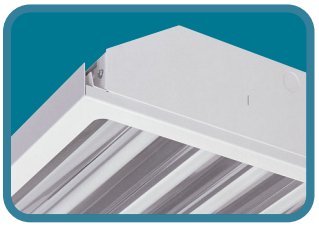
Williams GL Lighting System Cuts Energy Costs While Raising Light Levels for Consumer Products Manufacturer

Procter & Gamble, Kansas City, KS - Adding more 400-watt metal-halide fixtures to the existing system in a 90,000 square foot building in the Procter & Gamble Manufacturing Company plant required additional power distribution capability. This added expense was unacceptable, so the energy study group considered alternatives.

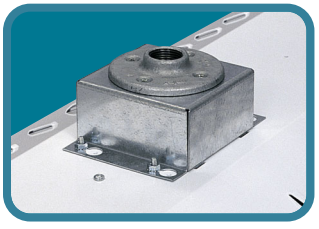
"We wanted lighting that used the existing distribution system, provided quality lighting and eliminated restrike problems we had with the metal-halide system", said Hannon Maase, Control & Information Systems Manager at the plant. Based on an evaluation of the latest lighting technology, the Williams GL Low Profile system met the criteria and was recommended for installation.

Procter & Gamble installed 560 Williams GL luminaires, each with four T5 54-watt HO fluorescent lamps. Mounted 12' to 20' above the floor on 18' centers, depending on location, the GL fixtures provide up to 50 footcandles (average maintained) — as much as a 166% increase over the previous lighting system.

"The GL system offered a number of advantages," Maase noted. "We replaced all 448 existing metal-halide fixtures, plus added 112 more GL's, without adding distribution. The new system cut energy use 37%, saving us $40,000 a year in energy expense, while raising illumination levels as much as 166%. Finally, the employees like the new system, so this project is a winner for everyone involved."



Door frame & lens



3/4" hub & J-box for single pendant mounting

Job Specific Information:

- 448 existing 400-watt metal halide fixtures were replaced with 560 GL 4', 4-lamp 54-watt T5HO fixtures with door frame & lens and 3/4" mounting hub
- Mounting height: 12' - 20' above the floor
- Spacing: 18' on center
- Footcandle levels: 30 - 50 average maintained
- Light levels up as much as 166%

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