

## **Camcar-Textron**

**Project Name:** Camcar-Textron – Machine Shop  
**Project Location:** Decorah, Iowa  
**Date of Installation:** August 2002

Existing machine shop had original recessed metal halide system. Light levels had dropped from 50 to 30 footcandles due to age of lenses, spot re-lamping and end of life ballasts. An increase in the number of machines had caused some areas to have unacceptable levels of shadowing due to the spacing of existing system. A new system was needed to increase light levels, provide better distribution and reduce energy costs.

**Objective:** To increase light levels to 80 footcandles, provide better max/min ratios and reduce energy consumption by at least 30%.

**Solution:** Replace 84 2x2 400-watt metal halide lay-in troffers with 126 new 2x4 troffers using four T8's, Miro4 reflector and standard power electronic ballast to meet project requirements.

**Material:** Fixture – CGS24XNA12O44EP12;  
Ballast – Osram 4 lamp instant start standard power; Lamp – Sylvania FO32/841.

### **Energy Savings:**

Total Existing Wattage:	37,800
Total New Wattage:	14,490
Total kW Savings:	23 per month
Total kWh Savings:	195,804 per year
Total Energy Savings:	\$11,748



**Before**



**After**