



Before

Pro Weld Chesterfield, Michigan FINAL ASSEMBLY and INSPECTION AREA

The Project

Pro Weld, a leading Michigan manufacturer of material handling containers, was seeking to increase quality and eliminate rework in their welding and painting operations. A key improvement was to increase the level and quality of light in the factory while reducing energy consumption and lighting maintenance. In this industrial environment the existing 400 Watt HID and 275 Watt Fluorescents produced only 15 Foot Candles.

The Solution

Pro Weld installed a single Best Lights 210 Watt T9 fixture with Super Reflector Technology for evaluation. The results were so encouraging they installed 44 additional fixtures to complete the project. Using 210 watts for a **70% energy savings** they increased light levels 225% to **50 Foot-candles**. The combination of our Super Reflector and the 115 lumen per watt MasterColor Elite lamps sustains these high light levels. In addition, the lamps last 30,000 hours with an electronic dimmable ballast reducing maintenance by 67%.

LED, Induction and Fluorescent fixtures were not selected due to lighting requirements and cost effectiveness.

PROJECT STATISTICS	
Scope:	<ul style="list-style-type: none"> Replace 114 - 275 Watt Fluorescents and 7-400 Watt HID lights with 45-210 Watt Best Lights Direct T9.
Benefits:	<ul style="list-style-type: none"> Increase light 225% to 50 foot candles. Improve light 90+ CRI and 4200 Kelvin. Energy reduction of 70% = \$16,200 per yr. 1.2 year payback with Utility rebate of \$10,937. Maintenance reduction of 67%.
Features:	<ul style="list-style-type: none"> Super Reflector Technology = (LER) 96%. Lamp 30,000 Hr. @ 115 LPW. Dimmable 0-10 low voltage electronic ballast. Starphire glass lens enhances light quality.

