

## LED Light and Power

### CASE Study

In November of 2015 LED Light and Power, in conjunction with Contractor's Machinery, completed the supply and installation of replacement LED high bay fixtures in their SERVICE BAYS at their Knoxville Tennessee facility. Contractor's Machinery is a CASE dealer with multiple locations. Prior to the LED high bay installation, the foot candle (FC) readings on the floor (the measurement of light quantity) were equal to about 10 FCs throughout the SERVICE area. The service area was originally lit with 250-watt metal halide high bay fixtures. After the installation the 160-watt LED non-glare high bay fixtures the quantity of light increased to over 40 FCs and is fairly even throughout the facility. This represents a 400% increase in quantity of light and a 36% reduction in connected load. As the owner stated, "The people working out there don't feel like bats anymore." The increased quantity and quality of light in the service area has created a better and safer environment and at the same time has reduced operating costs. Please see the images below for the before and after comparison.

