

The WSI LED illumination kit is designed as a replacement for the Super-Inspector side-wall incandescent 500W and 250W bulbs on the WSI upgrade, and can be used on standard 5*512 and 1055 systems*.

The kit provides the following advantages over the existing Super-inspector lighting:

- 5yr life (minimum) minimizes maintenance time and reduces operational costs.
- High power output (lumens) to closely match the existing lighting system eliminating any requirement for the Dark Bottle upgrade, and maintain "depth-of-field" to ensure good focus, on the front and back of the container.
- XY Linear Response improves inspection quality and repeatability.
- Constant Light-level reduces maintenance adjustments associated with variations seen with incandescent bulbs.
- 90% Energy Savings reduces operational costs.
- Low Heat Dissipation extends system life and reduces operational costs.
- Simple Installation utilizing existing cabling and mounting holes designed for change out in less than 60 minutes. (typical 30 minutes)

* The LED kit requires that the light control functionality of the standard Super-inspector be disabled. The Super-inspector 5*512 inspection algorithms have built-in support for varying glass color that will compensate for normal changes in glass color. Adjustment of the camera aperture will be required if significant changes in glass color occur.



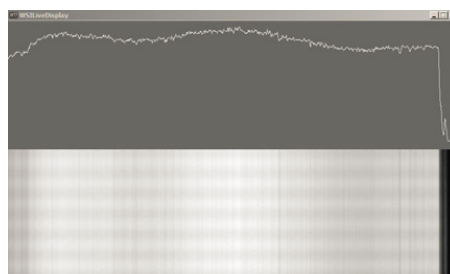
In field test the LED bulb kits have been shown to improve inspection stability over time, and enhance defect detection repeatability

The kit consists of:

- Three(3) illumination assemblies designed to directly replace the three Super-inspector side wall light banks.
- One(1) instruction kit (this document)
- One(1) kit mounting hardware

SPECIFICATION

Lamp Power	72W
Lamp Lumens	6120
Lamp Color Temp.:	4200K
No. of Lamps per Bank:	2
Power Supplies:	100W 24VDC CC
Input Voltage:	120-277VDC 50/60HZ
Input Current per Bank:	2.0A MAX ~0.8A TYP



Comparison between original incandescent lighting (left) and WSI LED illumination kit (far left).

Note the improved linear illumination over the entire field of view (top), and the elimination of 50/60Hz oscillation in the scan sample (below). LED technology provides improved lumen stability over standard incandescent bulbs with minimal intensity loss.