

ELS FACT SHEET

LED Lighting & Employee Productivity

Several reports in the U.S. Library of Medicine National Institutes of Health reveal the positive effects of light and its influence on human vitality, energy, mood, alertness and psychomotor vigilance as well as task performance.



Workers surveyed by the Kensington Technology Group listed eyestrain as a leading cause of physical stress in the workplace.

According to a study sponsored by the American Society of Interior Designers (ASID), 68% of all office workers were concerned about lighting. Office workers consistently rated poor lighting as the first or second concern that needed to be addressed.

A study done by Cornell University found 24% of office workers claimed poor lighting as a factoring cause for loss of work due to eyestrain &

discomfort. The study revealed a **2% loss of productivity per year** for each individual surveyed. In terms of measuring this outcome, it was equivalent to one week's paid vacation for each employee.

Cornell University study demonstrated that a **3 to 5% gain in worker productivity** could be obtained with commercial LED lighting.

Reno Post Office: Within one year of installing the new lights, they discovered that not only did the new system save on the electric bill but there was also a **6% increase in worker productivity**; this up-tick paid for the new lights within 12 months.

A study by the American Society of Interior Designers on Employees Perceptions of Workplace Lighting found:

- 68% of employees complain about the light in their workspace.
- 75% report that they could be more efficient and productive with better light.
- 30% suffer from headaches due to eyestrain.
- 25% report losing 15 minutes per day due to eye focusing problems. This is equivalent to 1.5 weeks per year.

**15% decreased absenteeism
(Lockheed and ING Bank)**

**25% decreased absenteeism
(Pennsylvania Power & Light)**

**16% increase in claims processed
(West Bend Mutual)**

**Improved product quality worth
\$25,000 per year (Hyde Tools)**

**20% improvement in defect rate
(Boeing)**

Source: "Green Building & the Bottom Line"