



Energy Audit

ESL examines the facilities and calculates or measures the power consumption of the existing lighting solution. We analyze the lighting level and how it conforms to standards and guidelines. We then identify any areas where the lighting system may need to be improved.

Survey

- Examine building electrical drawings and light fixture schedule
- Visit each area and confirm light fixtures are installed and functional
- Identify any lighting controls that are installed (occupancy, photo, timer)
- Verify the types/wattages of installed light bulbs
- Make photopic and scotopic light level measurements
- Determine the “use type” of each area
- Determine the operational hours for each area
- Acquire maintenance logs and materials supply records

Analyze

- Determine lighting load for each area
- Compare measured lighting against IES recommendations for each use type
- Compare energy density against IECC recommendations for each use type
- Estimate maintenance costs for each area

Report

- Summarize results of survey and analysis
- Make recommendations for improvements in light levels (or reduction of wattage)
- Make recommendations for use of lighting controls
- Identify cost effective applications for LED technology