

Lighting Tip of the Month - Industrial Spaces -

The meaning of the term “industrial space” has changed over the years. Once assumed to mean a dirty manufacturing area, this term now includes spaces such as industrial labs and “clean rooms” for industrial processing that must meet federal standards for air quality and protection of electronics or biological research materials. Additionally, many new industrial areas have lower ceilings (under 25 feet) than years previous. Lighting design considerations for these types of areas include proper light levels, glare control, flicker control, good color rendering, and the economics of the system choices.

To light these spaces consider using the following technologies:

- o For detailed close work, supplemental task lighting applied close to the work surface makes good economic sense. It saves energy because a lower wattage source close to the task can provide as much light as a high wattage source at the ceiling. It also gives a worker personal control to adjust the lighting to meet specific requirements.
- o For general lighting in standard industrial workplaces, consider using lowbay pendant-mounted 250W metal halide prismatic luminaires, T-8 fluorescent pendant-mounted industrial reflectors, or compact fluorescent pendant-mounted reflectors or radiating reflectors.

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Newsletter No. 17– June 2003

SCLP Incentives Continue; Smart Equipment Choices Program Ends

Participants in the New York Energy SmartSM Smart Equipment Choices program have been notified that available funding was fully committed; therefore, the program closed effective Friday, June 13. Do not let that news confuse you, however, about the Small Commercial Lighting Program. SCLP continues and, as you saw by the May newsletter, will soon roll out even more attractive incentives.

Lighting contractors, distributors, designers and other Allies will have even more opportunities to earn incentives while designing and installing effective, energy-efficient lighting jobs for their customers.

ALLIES IN ACTION

■ An Extra Step to Improve the Job

Mike Arket, owner of **Arket Electric** takes an extra step when he works with Ally Distributor **Wolberg Electric Supply**. Arket asks **Karl Pederson** of Wolberg to make sure that a proposed lighting job complies with the **New York Energy SmartSM** Small Commercial Lighting Program. Arket knows that the likelihood of meeting the program criteria is greatly enhanced when considered early, before a design is locked-in, with perhaps one or two fixtures that do not qualify. He also knows that by taking this extra step, his customer will receive a better lighting job, yielding higher light quality and low energy costs. Arket realizes that taking this extra step with his Ally Distributor not only provides him with an SCLP cash incentive; it also helps him win repeat business from satisfied customers.



Lighting Tip of the Month

(Continued)

- o In industrial laboratories, consider using T-8 fluorescent recessed, T-5 fluorescent pendant-mounted indirect, or T-8 fluorescent pendant-mounted direct/indirect luminaires.
- o In clean rooms, consider using recessed T-8, pulse-start 175W metal halide, or compact fluorescent clean-room luminaires.

The economic evaluation of the system should not only include the initial cost, but also the lamp replacement and energy cost. The Small Commercial Lighting Program Life Cycle Cost Tool is available on the SCLP Website and can be used to do a comparative cost analysis of alternative lighting systems. For additional savings, consider daylight dimming, manual dimming, high/low switching, and/or occupancy sensors.

The complex activities and challenging task shifts in today's industrial spaces require lighting systems that can provide a comfortable and productive work environment for those using the space. The SCLP criteria are designed to help you provide the proper lighting, and the program provides you with incentives for your efforts. However, the greatest reward will be your customer's satisfaction with the finished project.

ALLIES IN ACTION (CONT'D)

■ AC Electric Helping NYC Churches

AC Electric, Inc., a New York City contracting company, works with many churches around the New York City metropolitan area. They recently replaced the lighting in the church vault of St. Barnabas Church in Ardsley, NY. By designing the lighting with the SCLP criteria in mind, they were able to increase their margin on this small job, while giving the church energy-efficient and effective lighting. AC Electric passed the savings along to the congregation who plan to put it towards their next lighting project in the Sanctuary. AC Electric is now using SCLP criteria when designing other church lighting projects.

■ Large Company Doing a Small Job

Hugh O'Kane Electrical Contracting Corp., one of the New York City's largest electrical contractors, has recently completed their SCLP self-training. They have assigned an internal project manager to administer all **New York Energy SmartSM** qualifying projects which cross their desk, including SCLP. O'Kane bids and wins major commercial work in the city and already purchases lighting from distributors who are allies of the SCLP.

In tough economic times, large electrical contractors bid on smaller jobs to keep their staff working. As a result, many large electrical contractors, who do not typically get involved in locations of less than 25,000 square feet, (the SCLP project size limit) may actually be bidding on smaller projects. O'Kane is a great example of a large contracting company, doing effective, energy-efficient lighting design in spaces of all sizes throughout New York City.

■ Mend Electric Improves Pharmacy Lighting

John (Matt) Mendel of **Mend Electric** recently completed a lighting project for Thorpe's Pharmacy in Hoosick Falls, NY. His customer wanted the lighting to have a clean, even appearance and for products to be well lit. To ensure correct light levels, Mendel used his SCLP guidelines, which incorporate light levels recommended by the Illuminating Engineering Society of North America (IESNA).

Achieving a proper light level was important, particularly in the pharmacist's area where medications are measured. To guarantee lighting systems are installed to meet appropriate light levels, IESNA publishes recommended foot-candle levels for various space types. Following these recommendations helps ensure that the space is not underlit, potentially causing a hazardous condition, or overlit creating higher than needed electricity bills. Mendel's customer was so pleased with the lighting that he hired him to do a second lighting project at the pharmacy.