

lighting consultations.



Above: The on-site consultation by Michael Lane at Eastern Oregon University revealed a variety of options for improving the lighting. The large daylight contribution provided an opportunity for photocell controls

Photo by LDL

Consultation services from the Lighting Design Lab are a means of collaborating with clients to identify effective options for their lighting challenges. The purpose of the consultation is not a full lighting design, but rather to produce a list of different solutions for consideration by the design team. The options we identify aim at providing the best solutions for lighting quality and energy-effectiveness.

Our consultations take place at the Lighting Design Lab, at the client's office, or at the project location as warranted by the project needs. One project that involved a site visit for evaluation was the library at Eastern Oregon University in La Grande, Oregon. Michael Lane, senior lighting specialist at LDL, was contacted by the local electric utility and the facility manager, who were seeking to improve the energy efficiency and lighting quality at the university, including their library.

Michael was already planning to visit Eastern Oregon on other projects for Oregon Trail Electric Co-op, and added a stop at the school. He toured the facility,

evaluating existing lighting equipment, and measuring light levels. The facility had a high energy usage, was overlit in some areas, and the library received a lot of daylight.

Michael outlined the lighting options, including simple relamping and ballasting to T-8s and electronic ballasts; delamping from 4-lamps to 3-lamps; plus some choices for completely replacing the lighting system with new fixture types. Some of the library had over 200 footcandles of illumination from daylight, so the report included control options for photocell dimming in response to the available daylight. He consulted the standards from the Illuminating Engineering Society of North America for proper illumination levels in offices and libraries. He made sure that his recommendations would provide light levels that met those standards. The options offered in his report could produce energy savings over 30%, while maintaining or improving the lighting quality.

Lighting consultations are provided by the Lighting Design Lab at no cost to the client. We have 3 lighting specialists available for consultations on commercial, industrial, and multifamily projects.

What do you get from a lighting consultation?

- Options for solving your lighting problems. Since every project has different goals, budgets and timelines, our lighting specialists work to provide suggested solutions showing the mix of available designs and technologies.
- Solutions that provide good lighting quality. Every project is examined for issues of glare, contrast, and the visual tasks that are being performed. Energy efficiency is the goal of every consultation, but never at the cost of occupant comfort and productivity. Our lighting specialists benchmark your spaces against the standards provided by the IESNA and others for professional practice.
- Opportunities to integrate electric lighting with daylight. Working closely with our Daylighting Specialists, we identify spaces in buildings where daylighting can provide additional energy savings by using controls.

How do you get a lighting consultation?

Call-800-354-3864

- In Montana, eastern Washington and Northern Idaho, contact Shaun Darragh - ext 27 - or email him at shaun@lightingdesignlab.com.
- In southern Washington, Oregon and southern Idaho, contact Michael Lane - ext 26 - or email him at michael@lightingdesignlab.com.
- In the Puget Sound area, call on Michael Lane and Shaun Darragh, Eric Strandberg - ext 28 - or email him at eric@lightingdesignlab.com.