



The architecture of the Issaquah Library echoes a Northwest Indian longhouse, utilizing timber construction and a tall ceiling roof monitor. The high ceilings and open plan made lighting the book stacks a challenge. Collaborating with the project architect, Robert Miller of Bohlin Cysinski Jackson, the design team at Candela Architectural Lighting

decided the solution was custom luminaires mounted on the top of each stack. After analyzing the design of the custom stack light, and performing extensive calculations, Mary Claire Frazier of Candela decided to call upon the Lighting Design Lab's mockup services for a closer evaluation of the design.

In order to do a good job of lighting books in a library, the luminaire must adequately distribute light uniformly on the vertical surfaces. The titles on the books on the bottom shelf should be legible, and not obscured by shadow. Since the proposed custom stack light was an unknown quantity, they needed to satisfy the client's questions regarding fixture performance.

mockups



Actual Installation



Mock-up

Issaquah Library
Issaquah, Washington
IESNA Section IIDA Guth Award
photography. Art Grice

This project used custom luminaires that were specified by the architect. The lighting designer used LDL mockup services to establish the that the luminaire performed to the design goals.

Robert Miller, Bohlin Cywinski Jackson Architects

Mary Claire Frazier, IALD, LC,
Candela Lighting Design

“No Matter how many calculations you do, you never know for sure...until you see it.”

*Mary Claire Frazier, IALD, LC
Candela Architectural Lighting*

A mockup was done at the LDL so the team could learn how the custom fixture would perform. The mockup gave them the opportunity to tweak the fixture design, confirm the vertical brightness performance and evaluate the appearance. Doing the mockup at the Lighting Design Lab ensured that the final design would work, before construction would even begin. The lighting design for the Issaquah Public Library won this year's Illuminating Engineering Society's Guth Award from the Puget Sound Section.

If you would like more information about doing mockups at the Lighting Design Lab, visit <http://www.lightingdesignlab.com/mockup>. You will find examples of the types of mockups we have done, and you may download the information packet for conducting a mockup. If you have questions about the mockup process, contact Eric Strandberg, our mockup coordinator at 206-325-9711 x28.

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