

LIGHT METERS FOR SUSTAINABLE LIGHTING DESIGN

Clanton and Associates, Inc. is an award-winning design firm that specializes in sustainable lighting design. The firm has been committed to environmentally sensitive design for over 33 years. Founded in 1981, Clanton and Associates has participated in over 3000 design projects of all types and sizes. The firm's diverse portfolio of work includes: interior and exterior lighting design projects, the development of local and national lighting standards and criteria, lighting master plans, and lighting analyses, audits and visibility research.

CLANTON & ASSOCIATES


LIGHTING DESIGN AND ENGINEERING

In order for Clanton and Associates to provide the highest quality interior lighting design services that focus on aesthetics, energy-efficiency, and the integration of electric light with daylight and architecture, they rely on Konica Minolta Sensing light meters. The light meters are used to gauge the accuracy of calculation methods, to assist with novel calculation and assessment methods, and to provide information for analyses. "Our project performance and reputation depends on using reliable and accurate tools, including Konica Minolta meters," says Nancy Clanton, President and Founder of Clanton and Associates.



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They use the **LS-110 Luminance Meter** to calibrate their High-Dynamic Range Imaging (HDRI) luminance mapping technique, which combines a series of bracketed-exposure digital photographs with the calibration measurement to create a map of luminance data across a scene. This mapping technique is used to assess glare in daylight spaces, and to evaluate the effectiveness of outdoor area lighting in terms of lighting contrast. Additionally, the luminance meter is used to assess the brightness of outdoor signs in efforts to help cities and other government organizations establish design criteria for integration into outdoor lighting ordinances. The LS-110 Luminance Meter provides the most advanced light measuring technology available anywhere.



Used most frequently is Konica Minolta Sensing's **T-10A Illuminance Meter**. Its compact and portable design makes it convenient for Clanton and Associates to visit sites after the construction of a building to evaluate the illuminance levels against their calculated predictions. Its LCD screen assists in this by displaying average values, illumination and comparison of illuminance values.



CLANTON AND ASSOCIATES, INC.

The **CL-500A Illuminance Spectrophotometer**, a lightweight, compact illuminance spectrophotometer used for the evaluation of high-class, next-generation lamps such as LED and EL illumination, is Clanton and Associates newest Konica Minolta Sensing Meter. They use the CL-500A to perform lighting quality and human factors assessments by assessing the spectrum from light fixtures, display monitors, and daylight.



Through integrated analysis and modeling, Clanton and Associates often work with other design team specialists to develop environmentally responsible lighting systems that are affordable and save energy. The firm has successfully designed exterior lighting systems to illuminate roadways, parking areas, bridges, pedestrian malls, architecture, landscape features and art all with the help of Konica Minolta Sensing Light Meters.



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