

## INTRODUCTION.

# The Science Behind Lighting Design

## 01 | COURSE DIRECTORY.

- + Building Science and Performance
- + Design and Design Services
- + Lighting

## 02 | CREDIT.

- + 2 LU/HSW

## 03 | COURSE DESCRIPTION.

- + When designers focus too heavily on rows of fluorescent lamp fixtures to light spaces, then they often end up with over-illuminated spaces without the necessary controls to achieve visual comfort while ignoring healthier, sustainable natural light.
- + This session will serve as an entry-level introduction to lighting and its role in the built environment. It will also address common issues that arise from poor lighting design, and offer both development and retrofit solutions to designers to aid them in managing light levels.

## 04 | LEARNING OBJECTIVES.

- + Be able to read and understand luminous intensity graphs, so as to properly locate artificial light sources.
- + Be able to achieve proper lumen levels in spaces, depending on their use.
- + Be able to avoid the negative impacts of over-illumination when designing spaces.
- + Be able to properly apply various automatic and manual control systems to incoming natural light to achieve a safe and happy result.

