

Designers Light Forum

LED lighting for Interior Designers

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March 12, 2019

Credit(s) earned on completion of this course will be reported to **AIA CES** for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request.

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material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

## Learning Objectives

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Our Goal is to share an overview of the state of lighting today thru the perspective of a designer and a manufacturer.

We will not be covering construction, electrical codes or budget strategies.

1. Which technologies are available today?
2. What are the limitations for each of these technologies in different applications?
3. What do clients know.
4. Luminaire option comparisons for designers.
5. Control systems.
6. Building your Toolbox.

**1. WHICH TECHNOLOGIES ARE AVAILABLE TODAY?**

**Twenty years ago we had multiple light sources competing in the marketplace.**

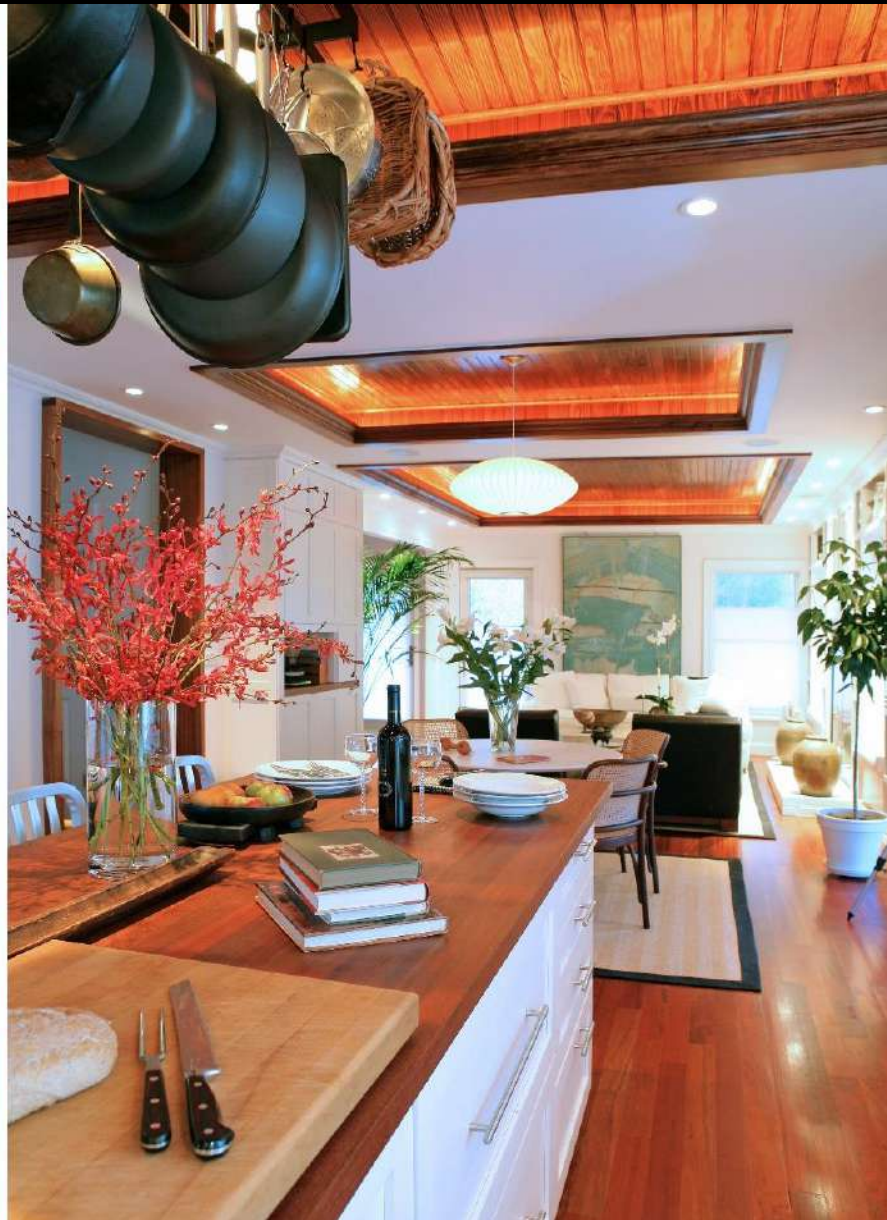
**LEDs** – Technological advancements brought them to the foreground of the lighting world.

**Incandescents** – Holding their own in the decorative fixture niche; also slowly replaced by LEDs.

**Fluorescents** – Slowly becoming obsolete.

**Today we predominantly specify leds; they have become the mainstream lighting solution.**











## 2. WHAT ARE THE LIMITATIONS FOR EACH OF THESE TECHNOLOGIES IN DIFFERENT APPLICATIONS?

Limitations for lighting design are vanishing due to the ample variety of LED sources, performance characteristics and flexibility available in the marketplace today.

### LEDs:

1. 90% Light, 10% Heat
2. 90+% CRI
3. Small envelope
4. Long life expectancy
5. Close to 0% maintenance
6. Expansive color range – 1200-10000k
7. Low operational cost

### Incandescents:

1. 10% Light, 90% Heat
2. 100% CRI
3. Large envelope
4. Short life expectancy
5. Lots of maintenance
6. Limited color range – 2200-2900k
7. High operational cost









### 3. WHAT DO CLIENTS KNOW AND HOW TO HELP THEM?

Most have limited exposure to good lighting sources let alone on the know how to implement them.

We are tasked with educating them of new light sources and the capacity of current technological applications.

As designers we must identify the lighting sources needed based on the function of each space.

**Lighting design has taken a front seat at the design stages of a project.**









**4. LUMINAIRE SPECIFICATIONS FOR DESIGNERS; BASELINE RULES:**

**A. FUNCTION** – Lots of light overhead, directed to specific areas, or task specific.

**B. NAVIGATION** – Generally low lighting, path lights, accent lights

**C. MOOD** – Softer lighting, cove lighting, decorative fixtures, etc.









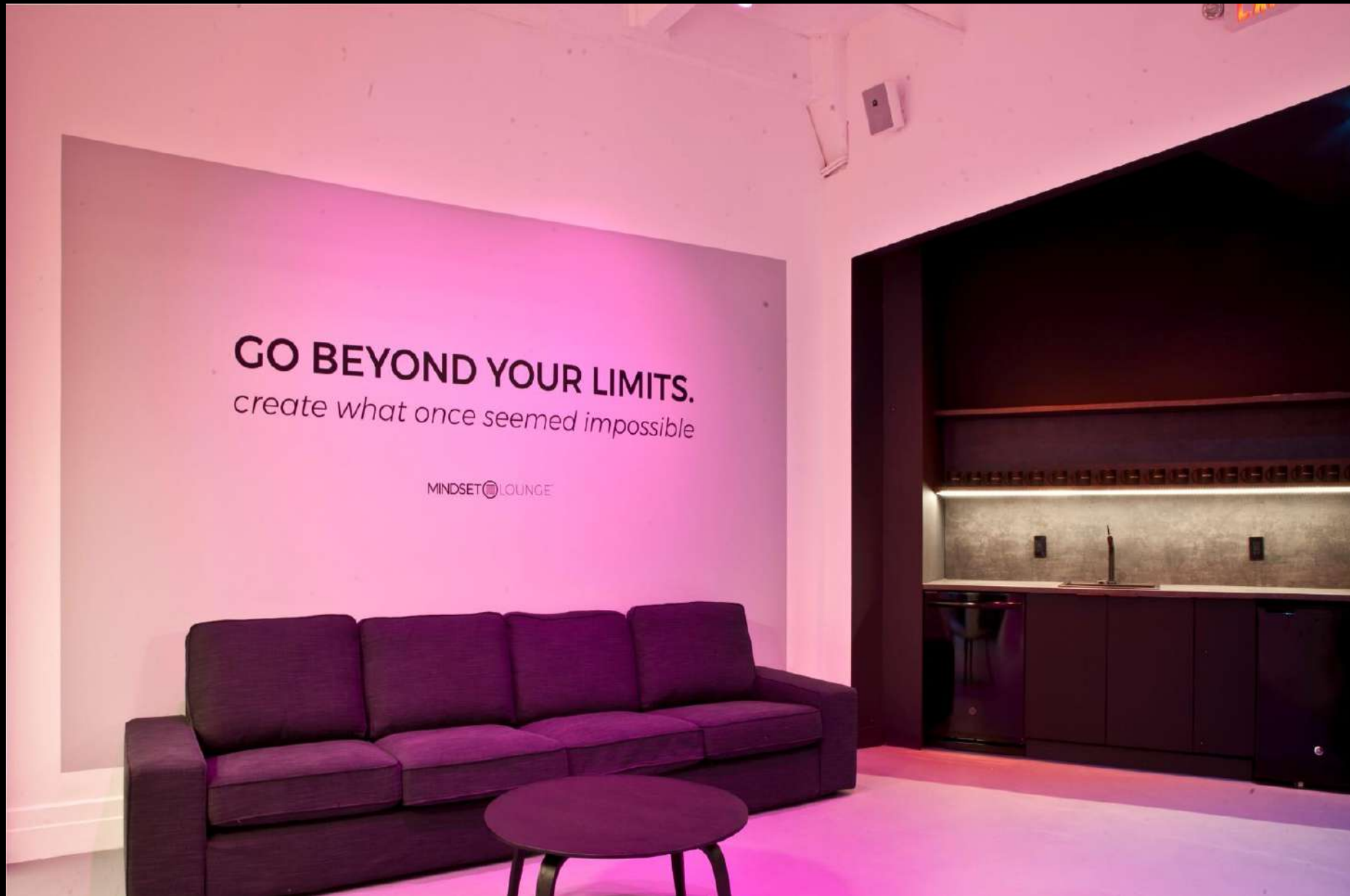




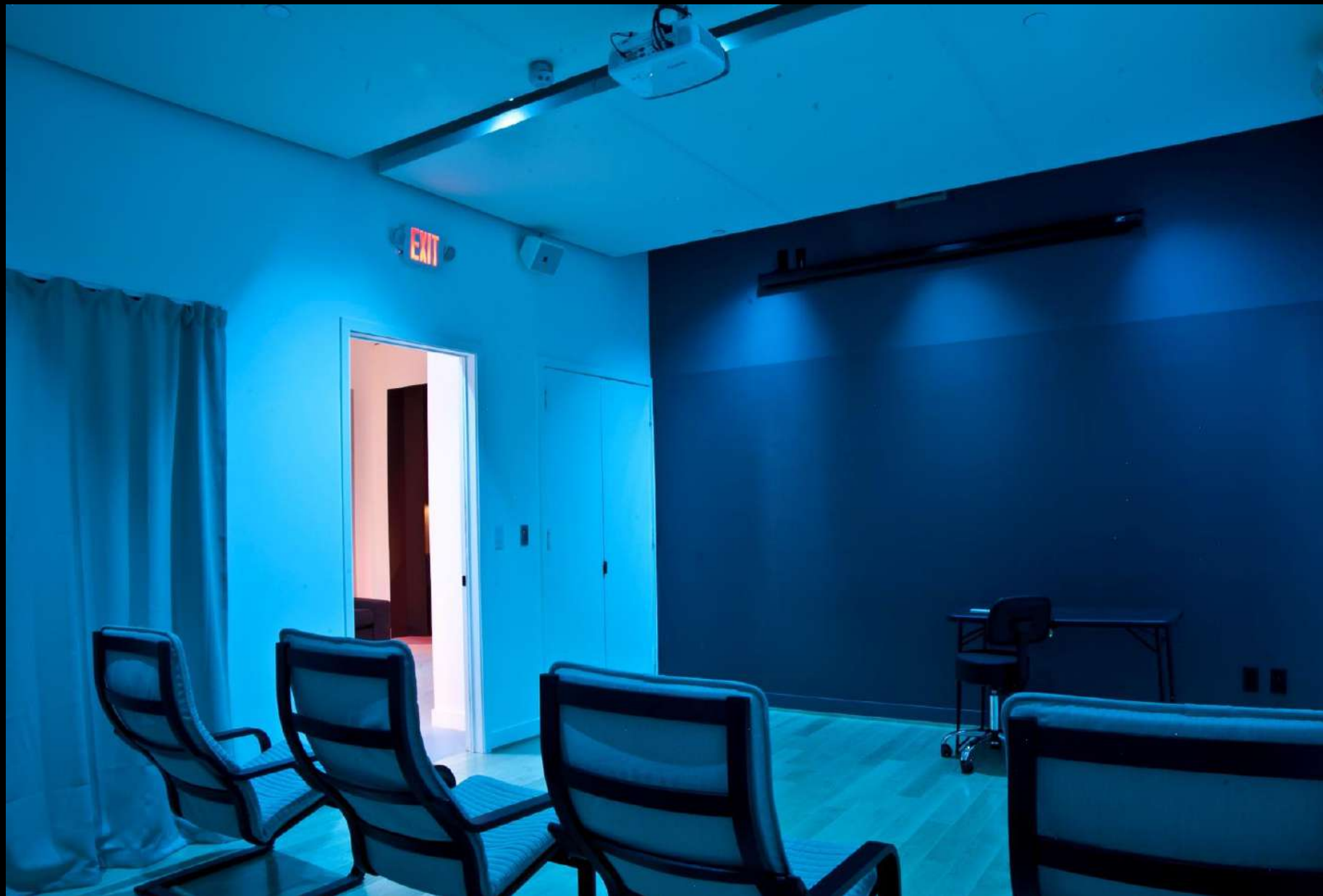












#### 4. CONTROL SYSTEMS.

Switches, dimmers, home systems, to Ai and beyond.

Most clients want simple wall switches vs phone or wall keypad controlled, unless for an office, or showroom.

Voice command type control systems like ALEXA will become more important in the future as technological integration matures.



## 6. BUILDING YOUR TOOLBOX

Everything is moving towards the “Tailored experience/product”.

“Lighting designers can be great artists”.

















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This concludes The American Institute of Architects Continuing  
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