

EDucation

LEARNING OBJECTIVES

At the end of the seminar, attendees will:

- 1. understand the value of "lighting with intention",
- 2. recognize how residential project challenges and goals guide the development of a lighting design,
- 3. appreciate the challenges and opportunities that residential lighting controls present, and
- 4. see how designers can deeply affect perception through lighted effects.

leducation.org

n.org

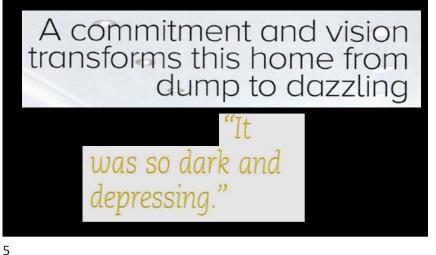
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EDucation.

AGENDA

- 1. Some Lighting Principles & Debunking Lighting Myths
- 2. Factors Affecting the Lighting Design
- 3. The Process
- 4. Lighting design for Kitchens, Bathrooms, and other areas of a residence
- 5. A brief discussion of lighting controls
- 6. Challenges with Residential Lighting Design





The couple added 650 recessed energyefficient dimmable LED lights throughout the home.

7,000 sf \div 650 lights \approx 10 sf per luminaire

1 luminaire every 3' to 4'





Lighting Design can help you:



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David Warfel Founding Designer at *Light Can Help You* IES Webcast "A Second Language of Light "



Lighting Design can help you:

• perform better



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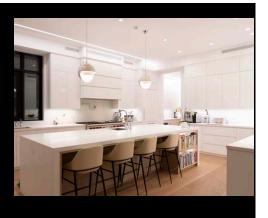
Lighting Design can help you:

- perform better
- feel better



Lighting Design can help you:

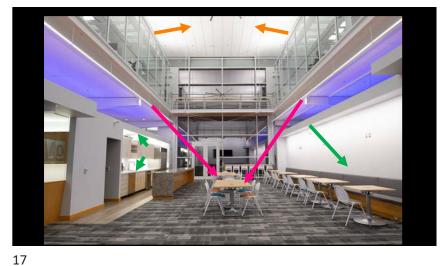
- perform better
- feel better
- adapt to change easier









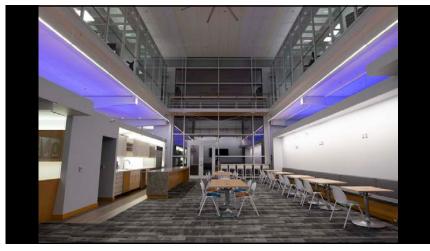














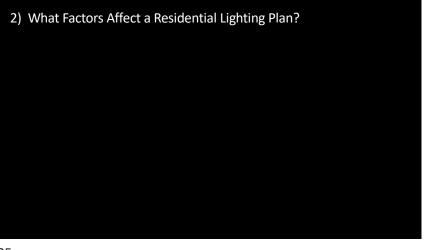












2) What Factors Affect a Residential Lighting Plan?a. Space programming

Who What When Where Why How





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2) What Factors Affect a Residential Lighting Plan?

- a. Space programming
- b. Architectural and interior design elements



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3) The Process

- ✓ Collaborative
- \checkmark Keepers of the lighted environment





3) The Process

- ✓ Collaborative
- \checkmark We are keepers of the lighted environment
- ✓ ID/Arch/Client determine vocabulary
 - form | finish | decorative fixtures

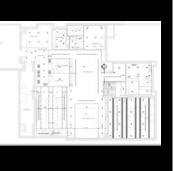


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• Priorities / Scope of Work / Schedule



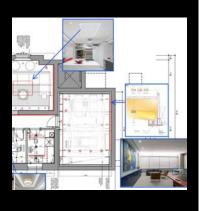
3) The Process

- Priorities / Scope of Work / Schedule
- Visual Programming space by space who what when where why how



3) The Process

- Priorities / Scope of Work / Schedule
- Visual Programming space by space
 who what when where why
- Lighting Concept

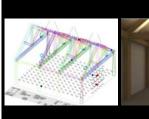


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3) The Process

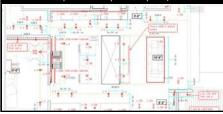
- Priorities / Scope of Work / Schedule
- Visual Programming space by space who what when where why
- Lighting Concept
- Calculations & Renderings





3) The Process

- Priorities / Scope of Work / Schedule
- Visual Programming space by space
 who what when where why
- Lighting Concept
- Calculations & Renderings
- Drawing Markups
 RCP | elevations | details | CAD/Revit

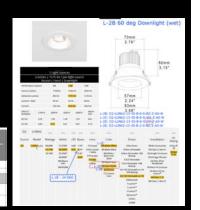




3) The Process

- Priorities / Scope of Work / Schedule
- Visual Programming space by space who what when where why
- Lighting Concept
- Calculations & Renderings
- Drawing Markups *RCP* | *elevations* | *details* | *CAD/Revit*?
 Specifications
- samples | mock-ups | budgetary pricing





3) The Process

- Priorities / Scope of Work / Schedule
- Visual Programming space by space who what when where why
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- Specifications samples | mock-ups | budgetary pricing
- Lighting controls zoning



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3) The Process

- Priorities / Scope of Work / Schedule
- Visual Programming space by space
 who what when where why
- Lighting Concept
- Calculations & Renderings
- Drawing Markups *RCP* | *elevations* | *details* | *CAD/Revit*?
 Specifications
- samples | mock-ups | budgetary pricing
 Lighting controls zoning
- Contract Administration / Construction field review | shop drawing review | procurement assistance | aiming & adjustment















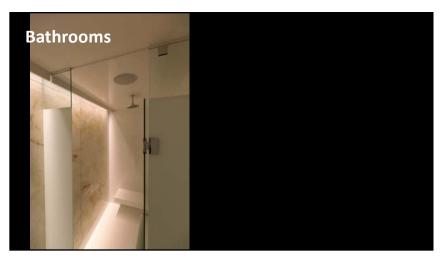




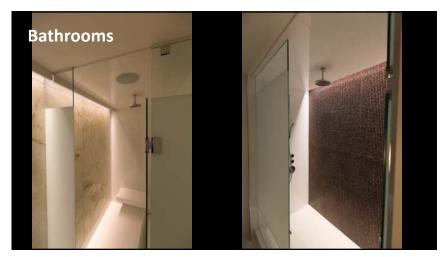
 Bathrooms

 Image: Second seco



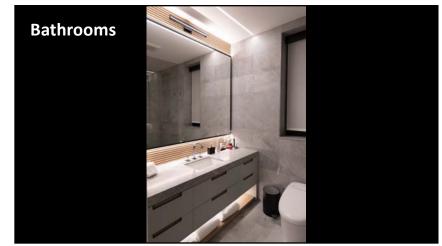


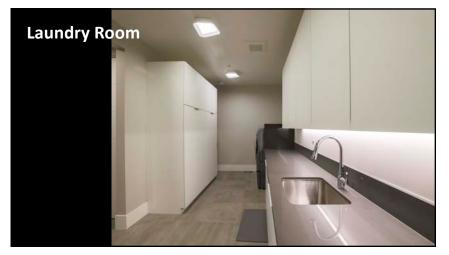
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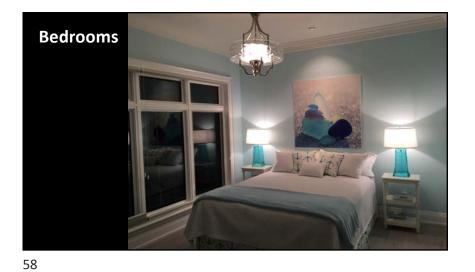
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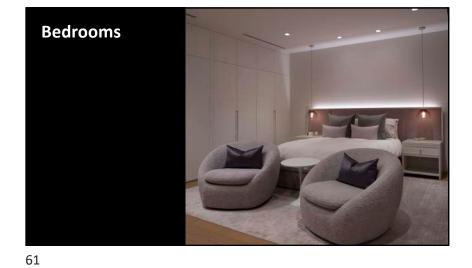


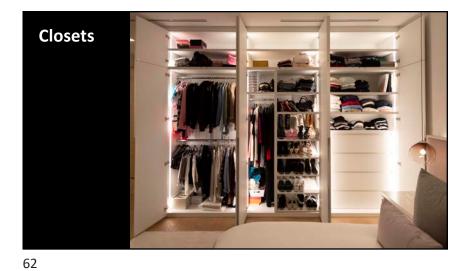






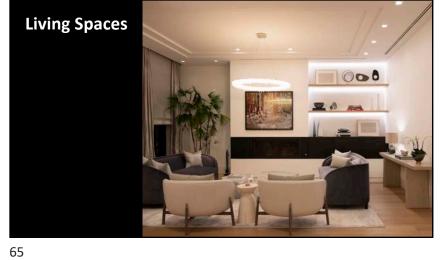


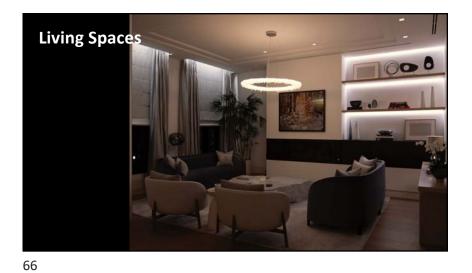






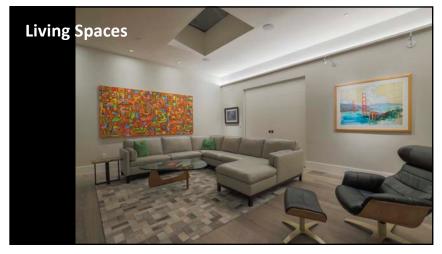


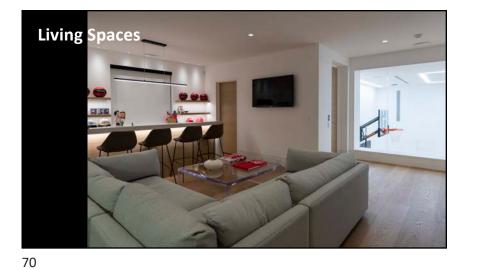










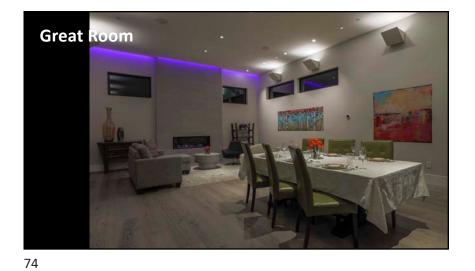


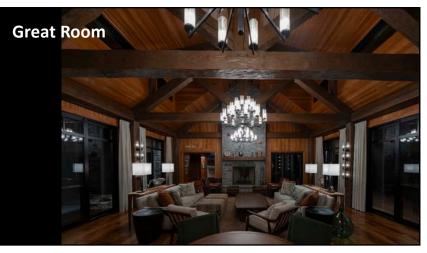


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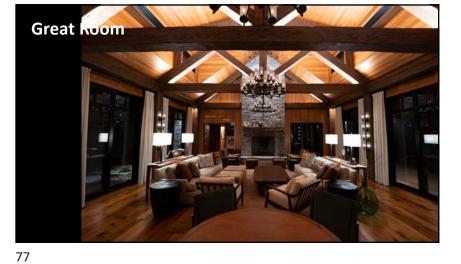


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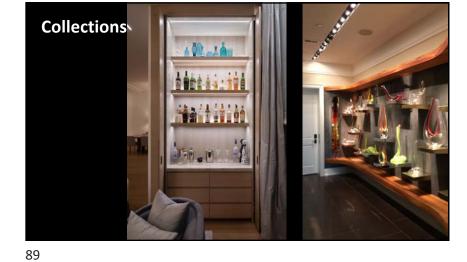


Pass Through





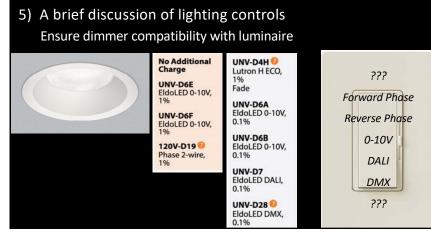




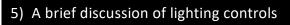


5) A brief discussion of lighting controls
Sustainable Lighting Strategy - Design with Intention
"right amount in the right place, at the right time"
Image: Ima

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Wireless???





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6) Challenges with Residential Lighting Design

Electrician Experience:

Procurement



6) Challenges with Residential Lighting Design

Electrician Experience:

Procurement Installation



6) Challenges with Residential Lighting Design

Electrician Experience:

- Procurement
- Installation

Renovation vs New Construction



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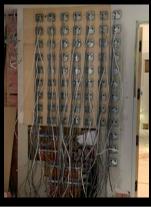
6) Challenges with Residential Lighting Design

Electrician Experience:

- Procurement
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Renovation vs New Construction

Location for Remote Drivers



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