

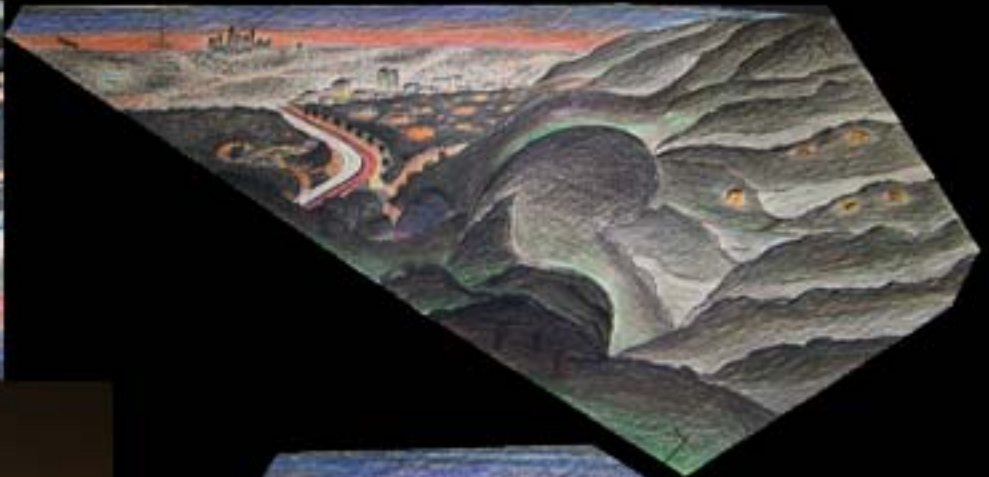
design portfolio

Carl A. Speroff

contents

- 01 - Studio Artwork
- 02 - Lighting Environment Sketches
- 03 - Flynn Model
- 04 - Hotel Lighting Design
- 05 - Nittany Lights
- 06 - Photoshop Design
- 07 - Sports Lighting
- 08 - Lighting of Vertical Surfaces
- 09 - Architecture Studio Design
- 10 - Howard Brandston Student Design
- 11 - Senior Thesis

studio artwork



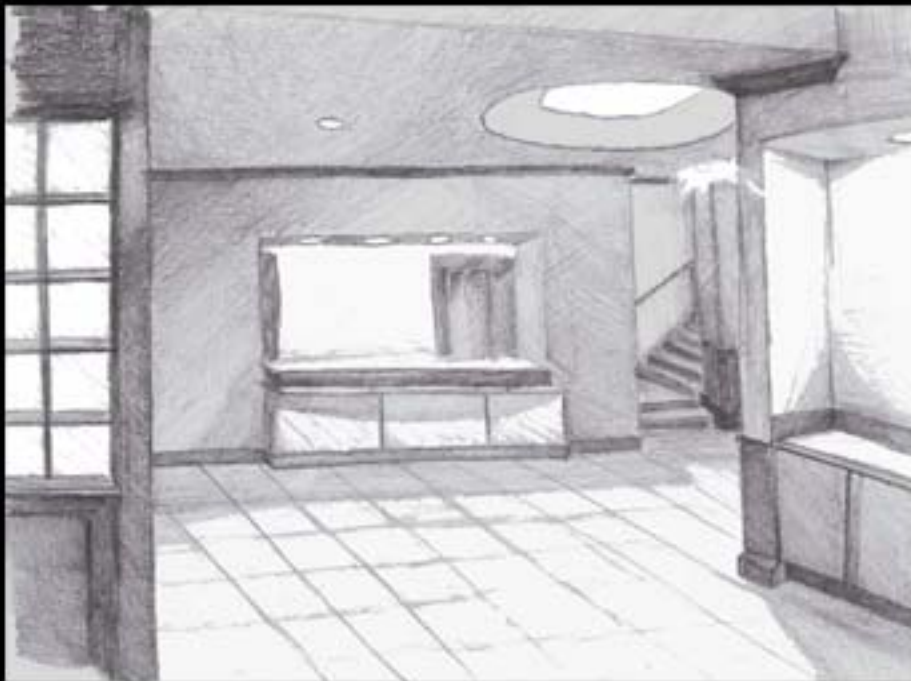
studio artwork



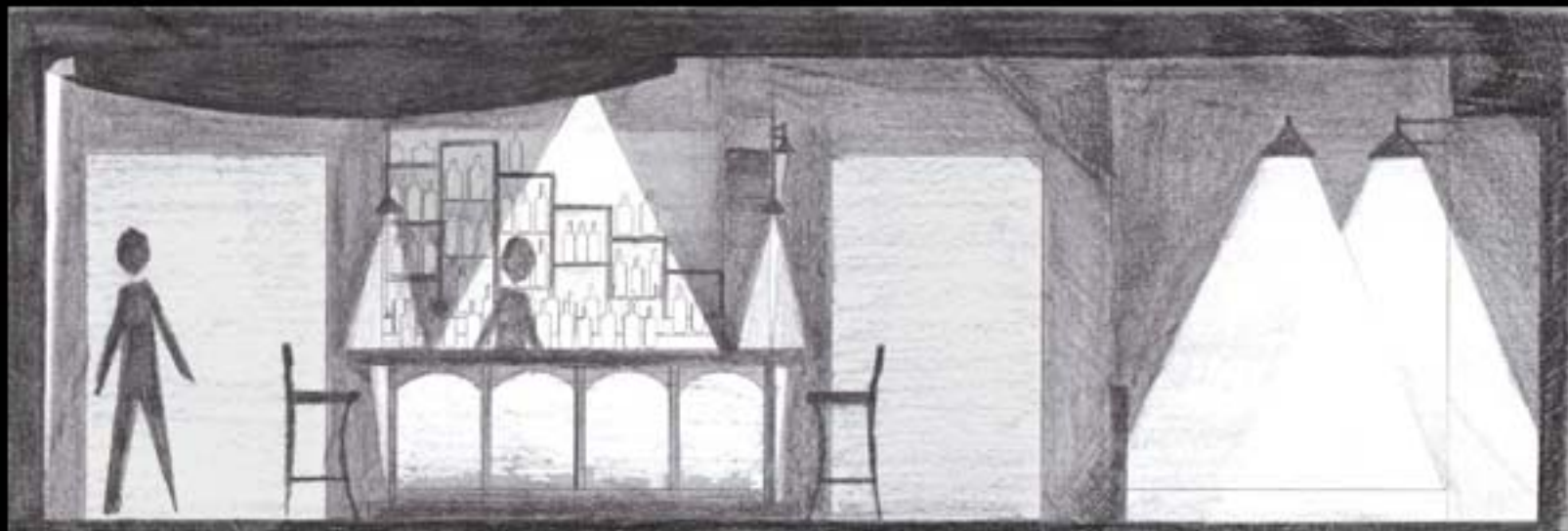
studio artwork



lighting environment sketches



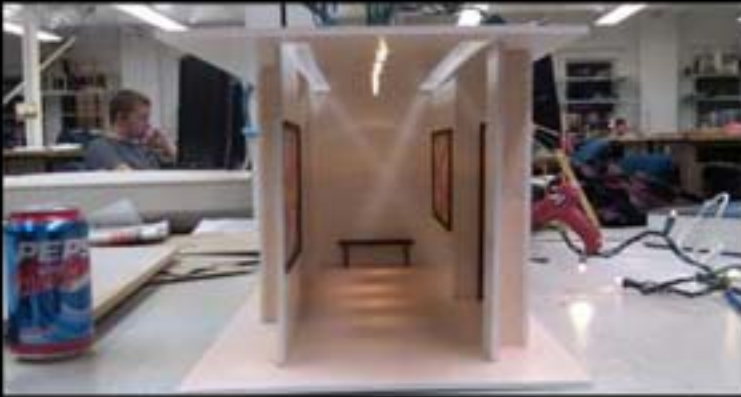
lighting environment sketches



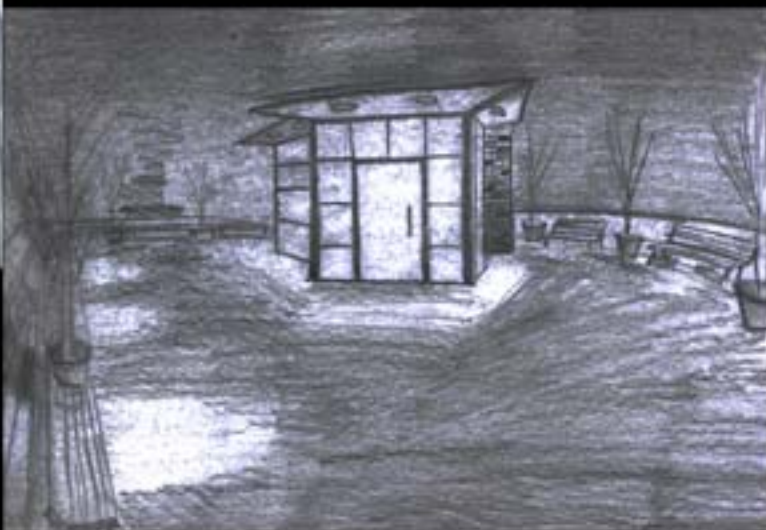
Flynn model



Flynn model



Hotel lighting design

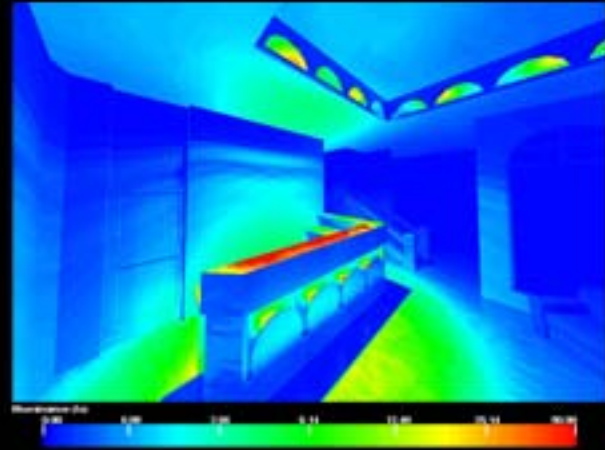


Hotel lighting design



tools: 3D Studio Max

Hotel lighting design



tools: 3D Studio Max

Nittany Lights



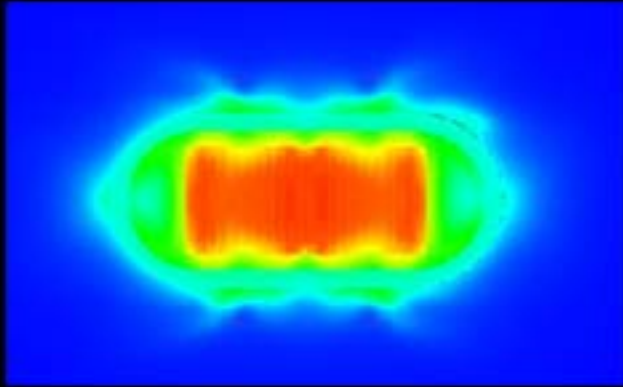
photoshop design - day



photoshop design - night



sports lighting



tools: agi 32

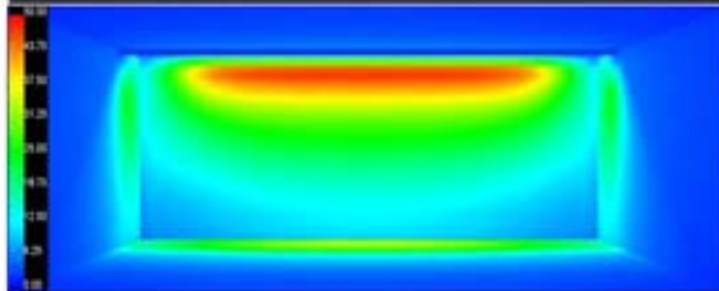
Lighting of vertical surfaces

SCENARIO 1

LIGHTING TECHNIQUE: Wall-washing



MANUFACTURER:	Elliptipax
DESCRIPTION:	13 semi-recessed adjustable wall-washers with linear fluorescent lamping
CATALOG NO.:	F210-T314-T-02-1-000
LAMP SOURCE:	1-F14T5/835/VVM/ECO
POWER:	Total Connected Watts: 286 W
LAYOUT:	Mounting height: 12' - 0" Setback: 3' - 0" Spacing: 2' - 0" on center Aiming: 20°
STATISTICS:	Avg. Illuminance: 22.41 fc Maximum: 46.4 fc Minimum: 7.8 fc Max/Min: 5.97 CV: 0.54 Uniformity Gradient: 1.93



SUMMARY: The luminaires are offset two feet from both walls to reduce scallops and hot spots on the side walls. The offset, combined with the spacing of the luminaires, creates a uniform distribution with gradually decreasing luminance. The illuminated area of the floor is high due to the 3' setback. The setback was necessary to keep illuminance values similar to other scenarios.

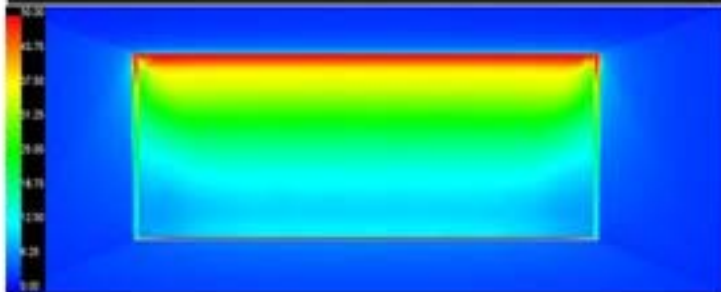
Lighting of vertical surfaces

SCENARIO 4

LIGHTING TECHNIQUE: Wall-grazing



MANUFACTURER:	Edison Price
DESCRIPTION:	10 wall-grazing luminaires with halogen lamping recessed in a 12" tall wall slot
CATALOG NO.:	SPR-MR16-DL-6-36-C
LAMP SOURCE:	6 - 35MR16/Q/6/TL-AX
POWER:	Total Connected Watts: 2100 W
LAYOUT:	Mounting height: 13'-0" Setback: 0' - 7" Spacing: 3' - 0" on center Aiming: 0°
STATISTICS:	Avg. Illuminance: 23.25 fc Maximum: 45.2 fc Minimum: 7.7 fc Max/Min: 5.87 CV: 0.53 Uniformity Gradient: 1.52



SUMMARY: The recessed wall slot creates the appearance of a floating ceiling and eliminates visual clutter. Although the illuminance levels are low at the bottom of the wall, the effects of the system would be better represented with a textured wall in the vertical surfaces would capture more light. The use of halogen lamps contributes to the highest total wattage. The amount of light on the floor is also very small.

architecture design studio



tools: Revit Architecture

architecture design studio



tools: Revit Architecture

architecture design studio



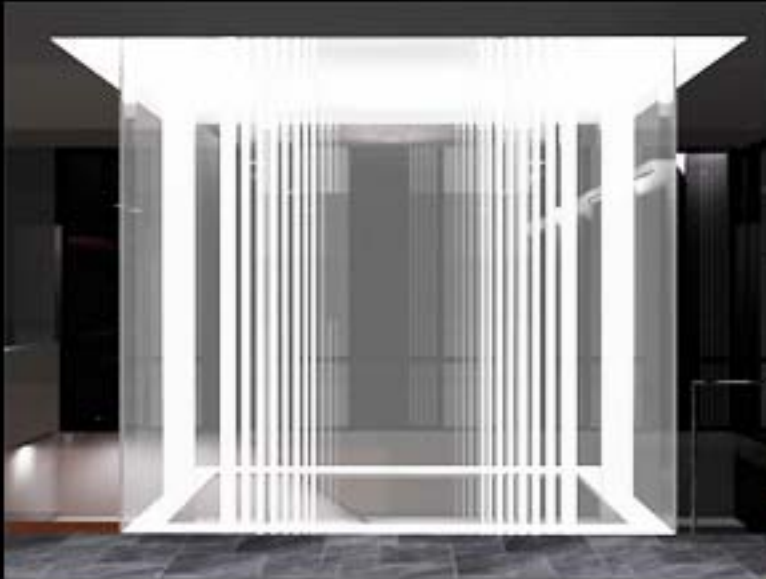
tools: Revit Architecture

Howard Brandston Competition



tools: 3D Studio Max

Howard Brandston Competition



tools: 3D Studio Max

Howard Brandston Competition



tools: 3D Studio Max

Howard Brandston Competition



tools: 3D Studio Max

Senior Thesis



Senior Thesis



Senior Thesis



Senior Thesis



Senior Thesis



Senior Thesis



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