

Project

Owner:

Lighthouse for the blind and visually impaired of San Francisco

Architect:

Mark Cavagnero Associates

Consulting Architect:

Chris Downey – Architect for the Blind

Lighting Design:

Auerbach Glasow

Electrical Engineer:

Glumac

The LightHouse for the Blind and Visually Impaired of San Francisco

1155 Market St.
San Francisco,
CA
Existing 11-story
building



The LightHouse for the Blind and Visually Impaired of San Francisco



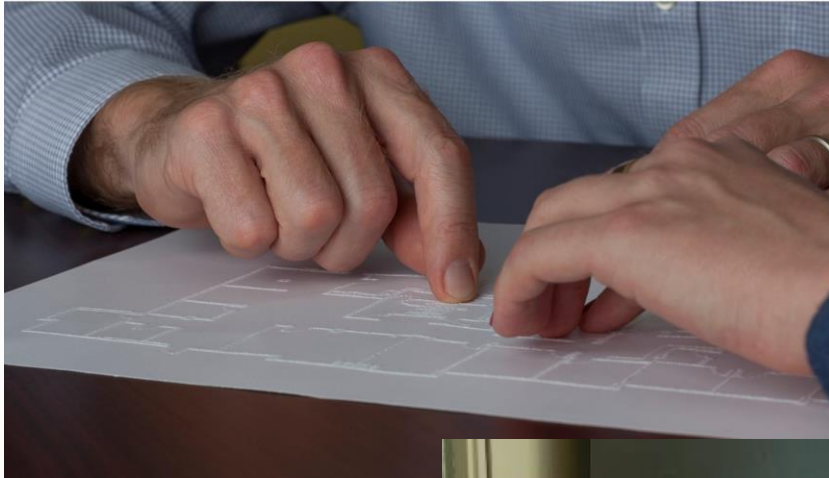
The LightHouse for the Blind and Visually Impaired of San Francisco



Project started in 2014
Completed in 2016



Design Process



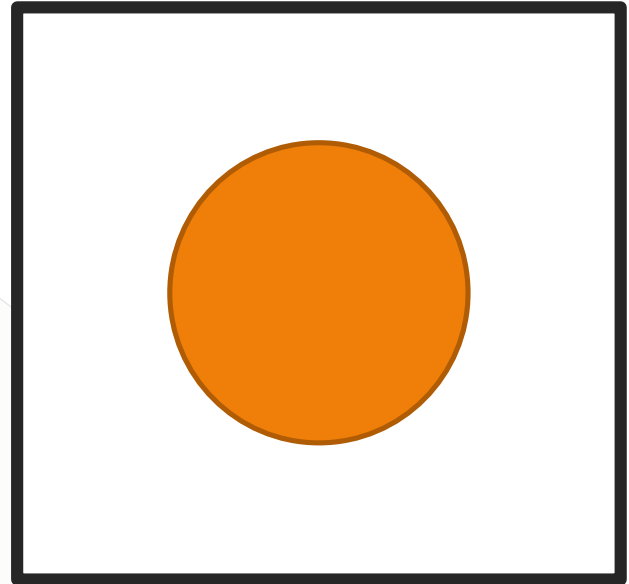
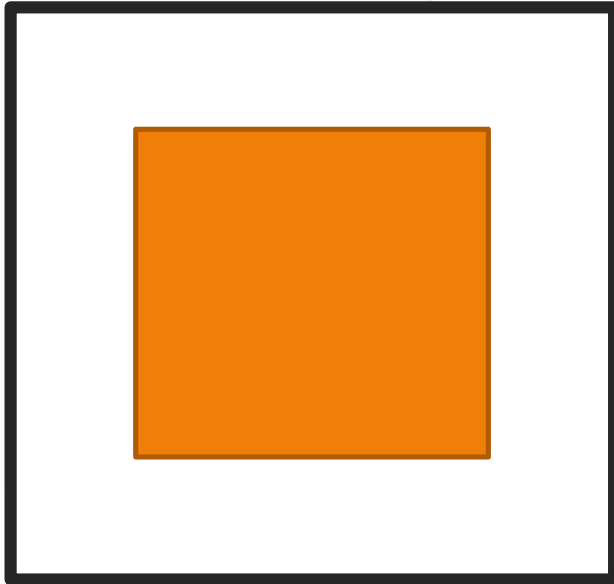
Design Process

- Learning how low vision people see
- Understanding what visual cues are helpful or confusing
- Observing a class at the LightHouse

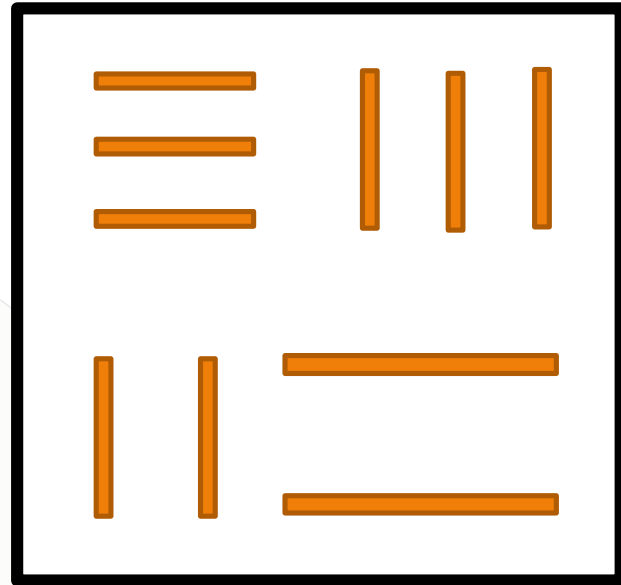
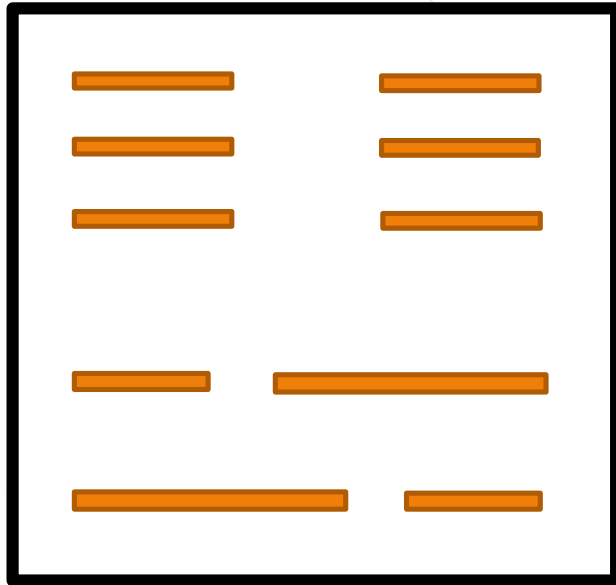
Visual cues



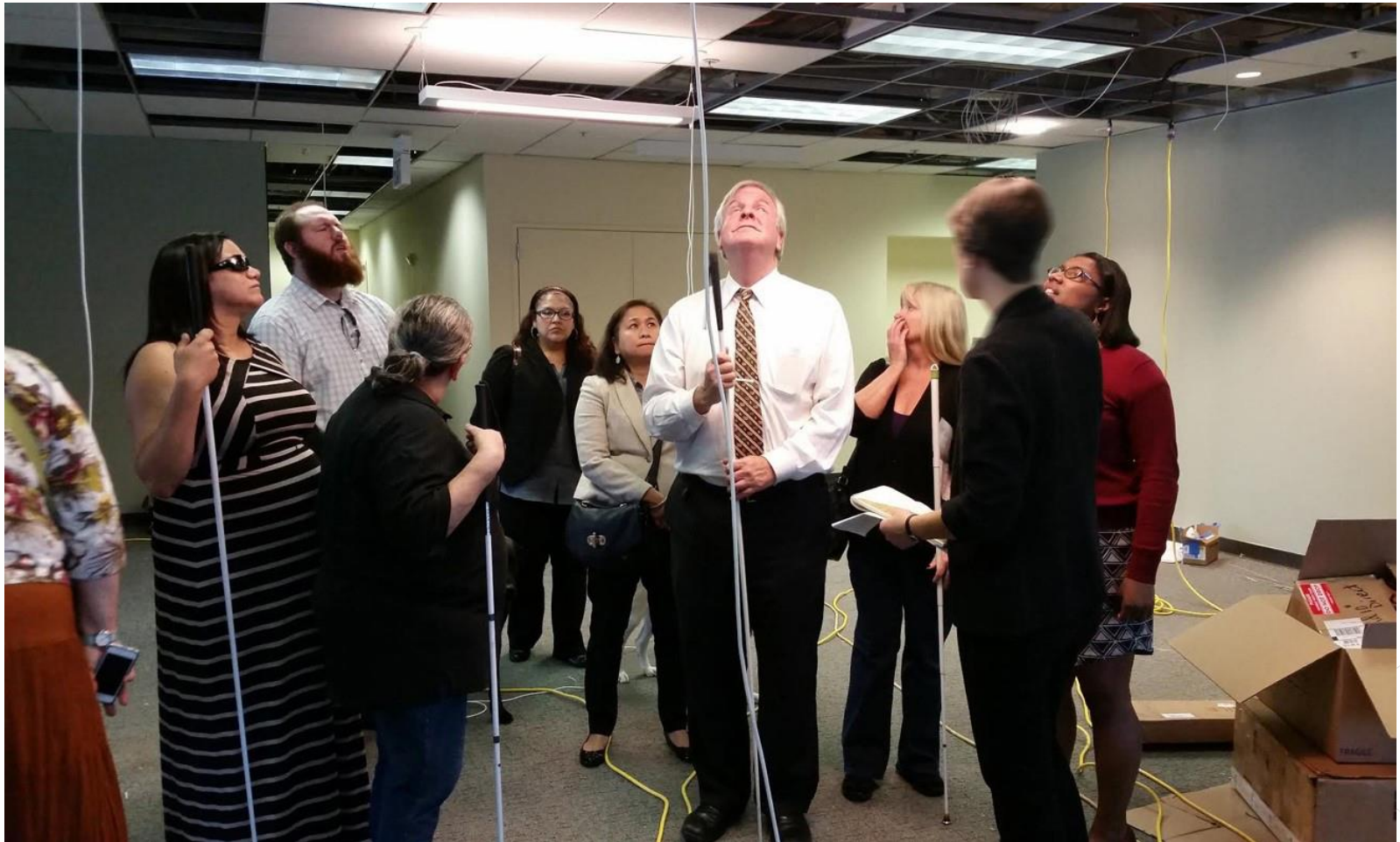
Visual cues



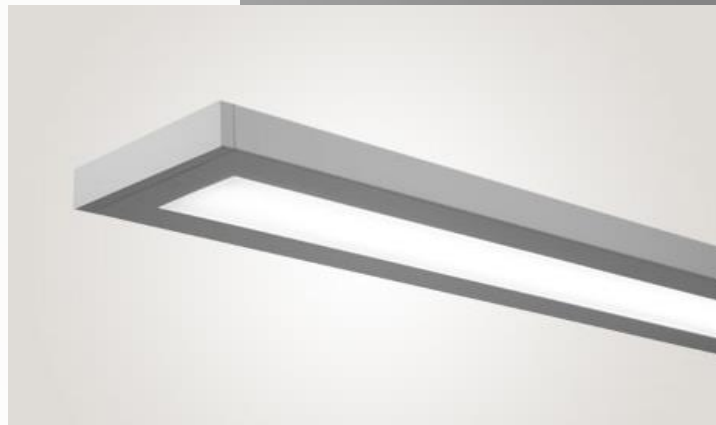
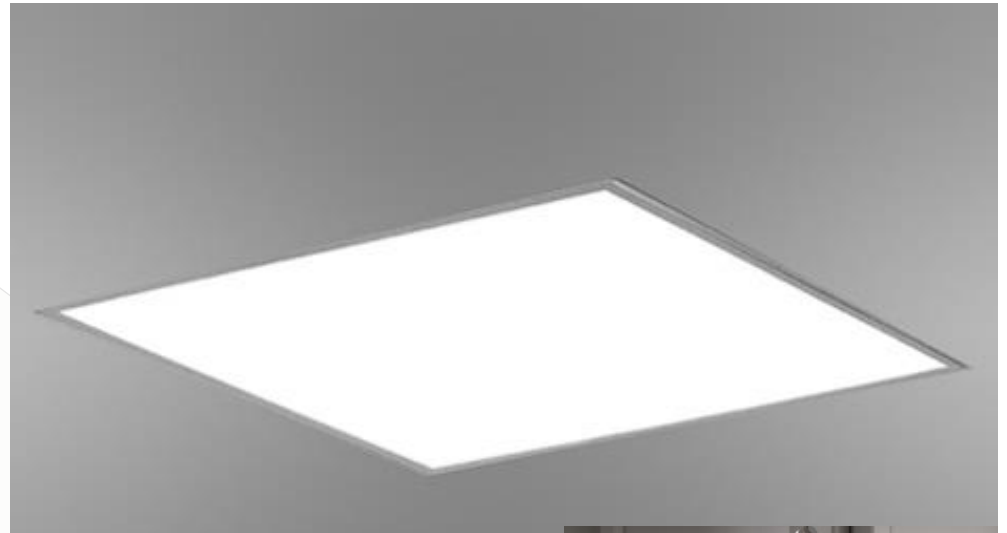
Visual cues



Luminaire review



Luminaire review



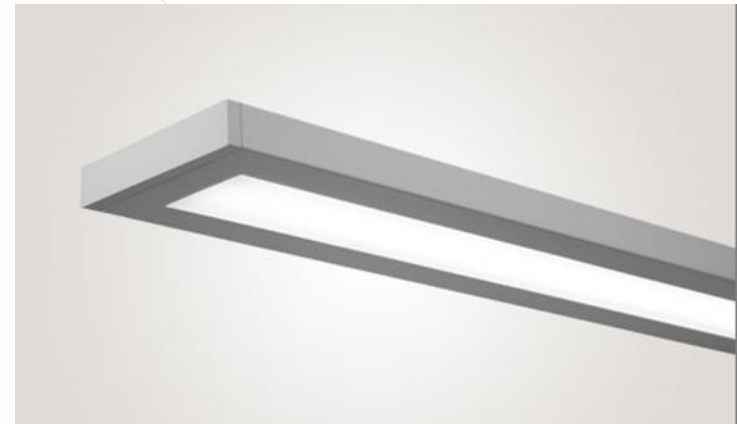
Luminaire review comments

- “Bright light on my hand is good, but I don’t want to see bright fixtures.”
- (2) T8 lamps in 6” wide lensed fixture is too bright to look at



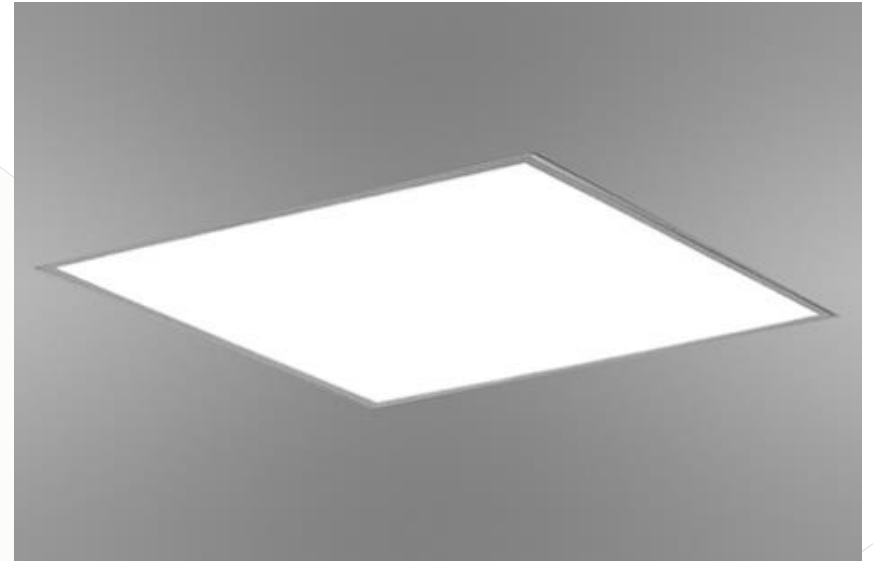
Luminaire review comments

- “OMG!
Too bright!”
- “Glary!”
- “It looks too
stripey and too
busy.”



Luminaire review comments

- “I really like this big glowing fixture.”



Requirements

- The space needs to look great for both low vision and normal vision people
- Light levels to be adjustable
- Shared office and private office with visitor seating area to be brighter than other private offices
- Meeting room to be bright
- Corridor to be bright to recognize faces

Light levels in the old facility

- Most comfortable meeting room:
50 fc to 80 fc
- Computer training area:
30 fc to 60 fc
- Corridors:
7 fc to 15 fc – not enough light

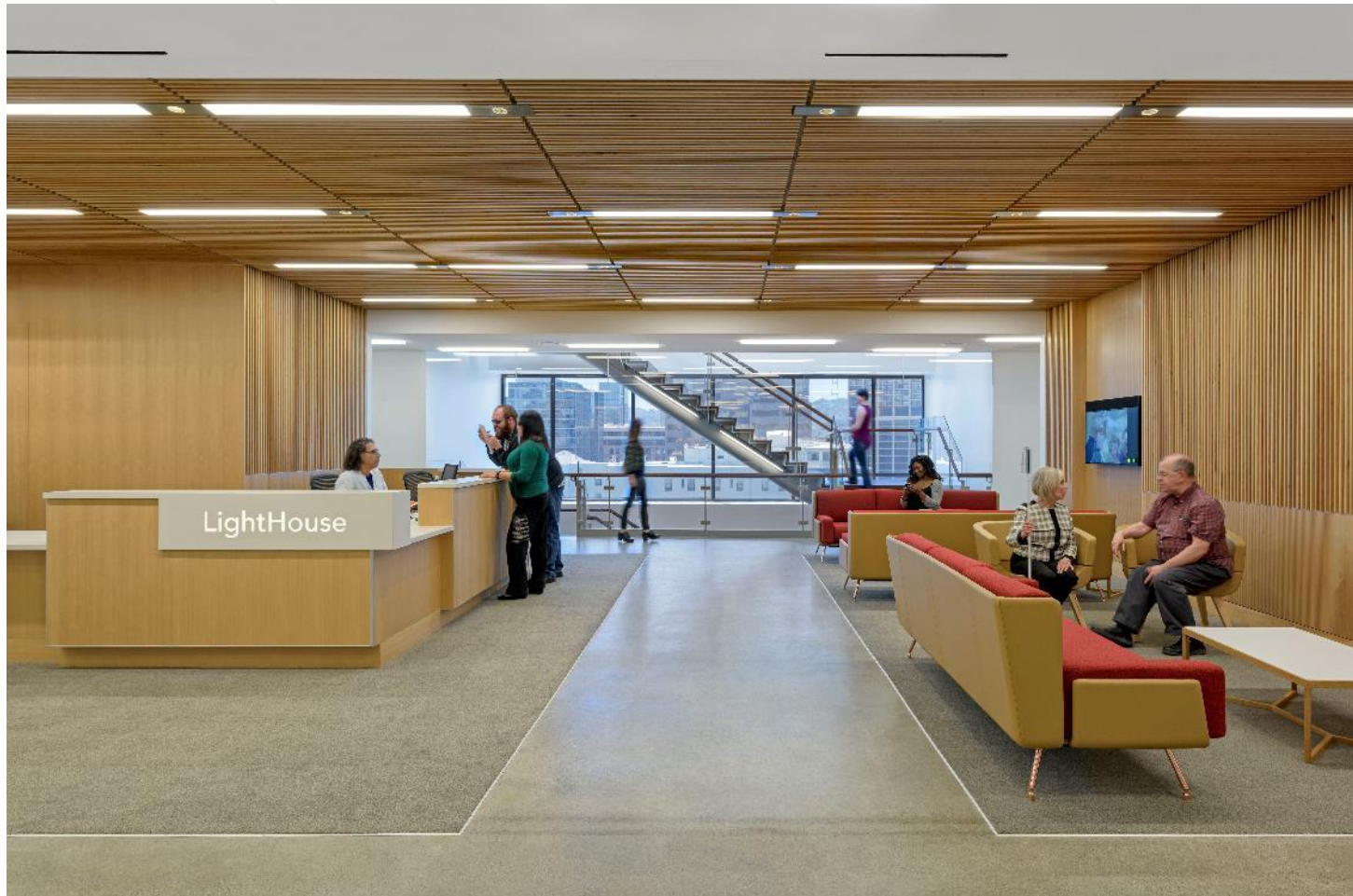
Target light levels for the new facility

- Meeting rooms & non-computer training rooms:
50 fc to 80 fc
- Computer training rooms:
40 fc to 50fc
- Corridors:
15 fc to 25 fc

Title 24



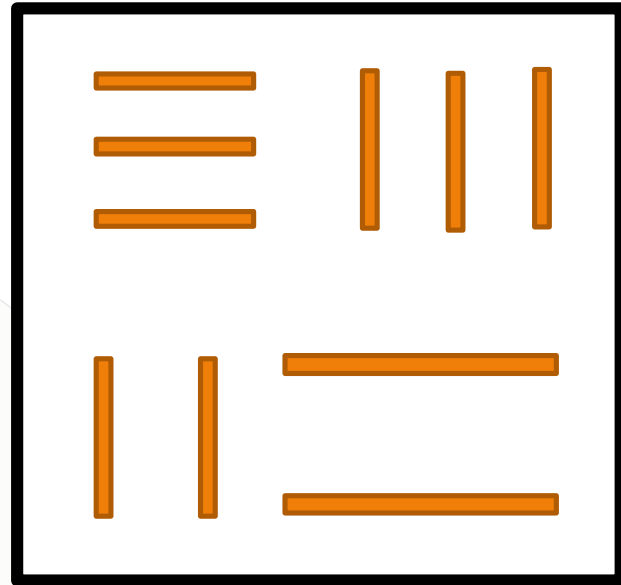
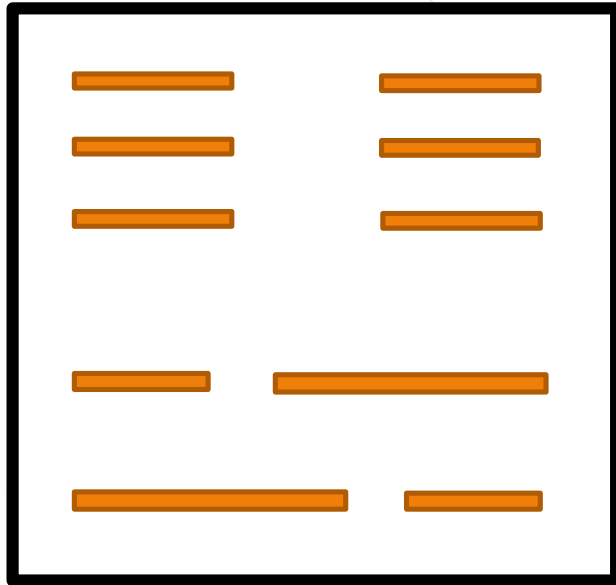
Design results



Design results

- Circulation
- Fitness room
- Use of colors

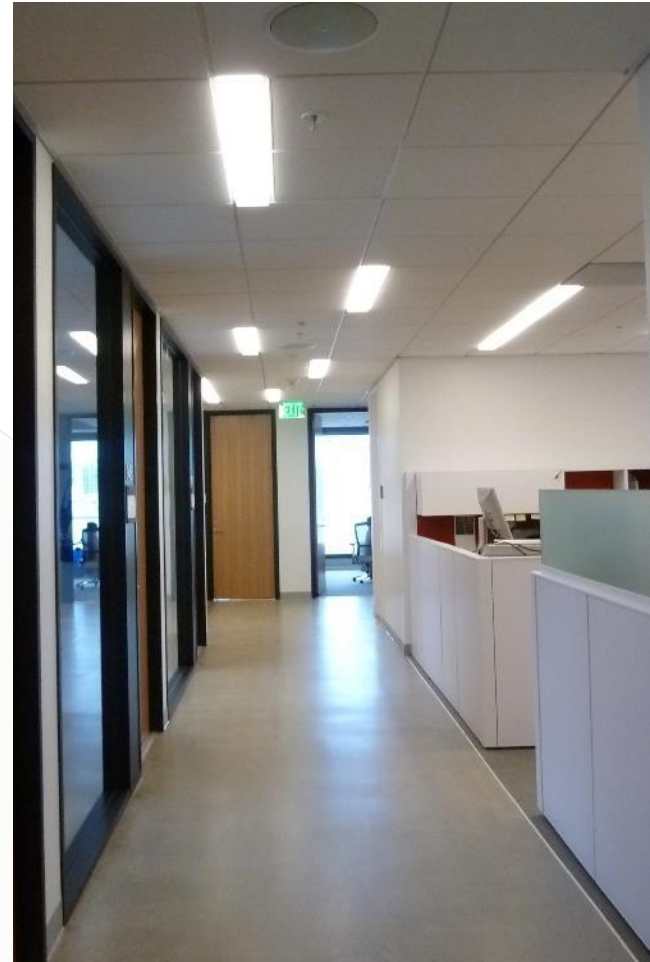
Visual cues



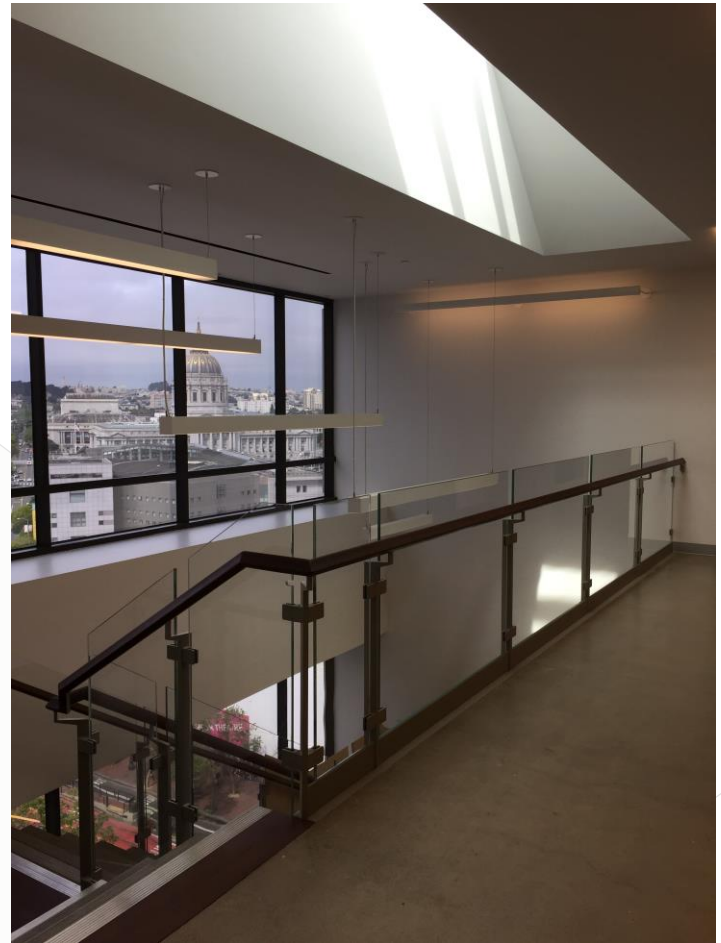
Circulation



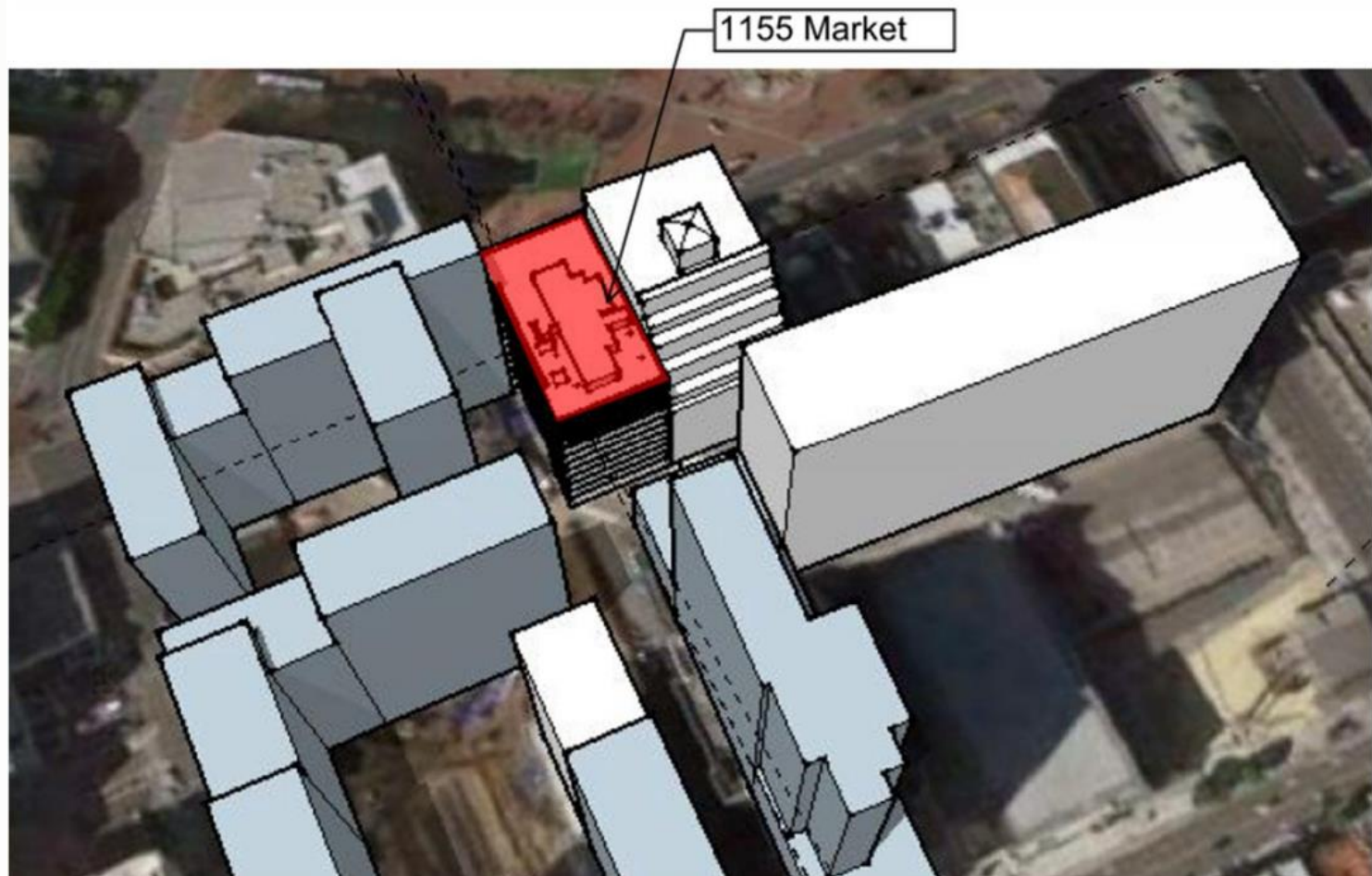
Circulation



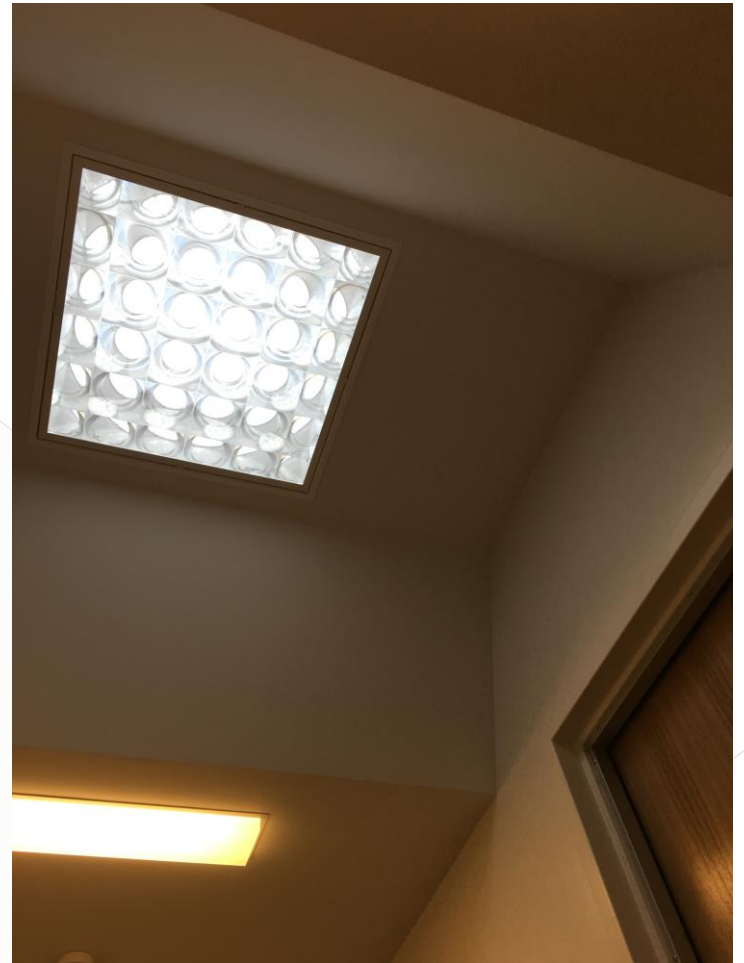
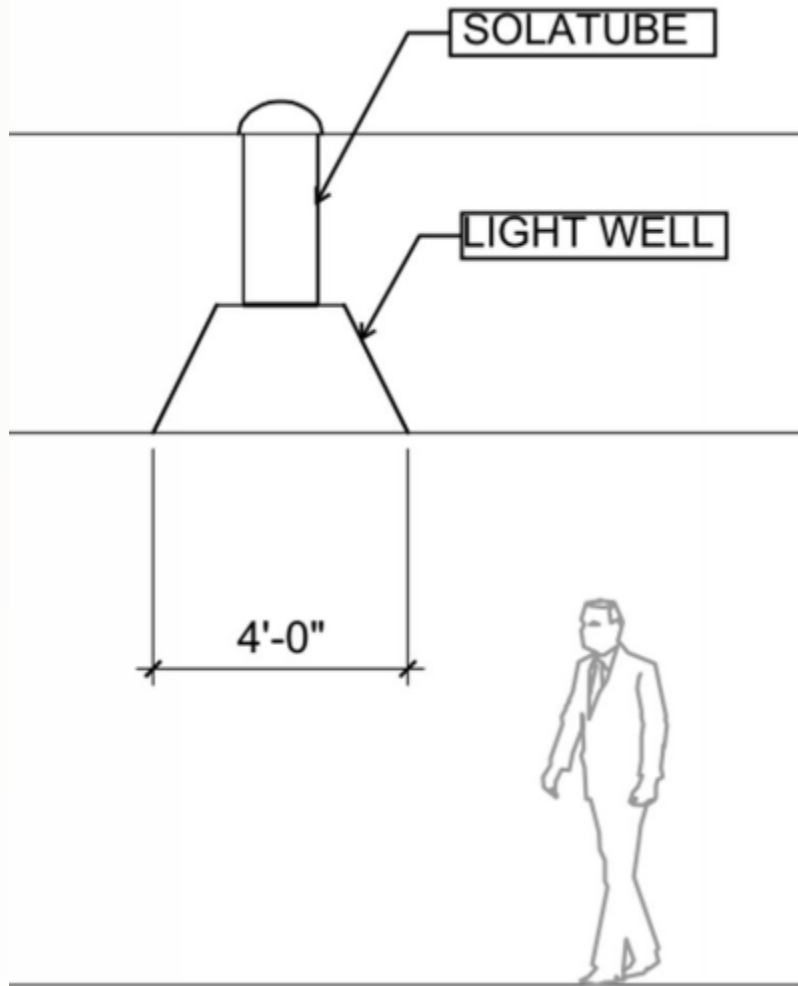
Circulation



Circulation



Circulation



Fitness room



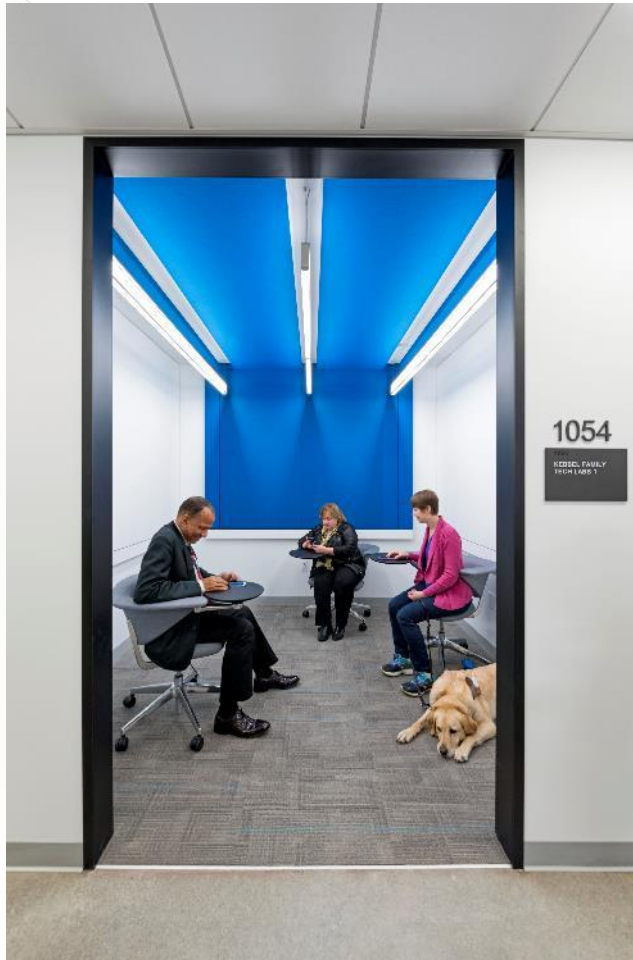
Fitness room



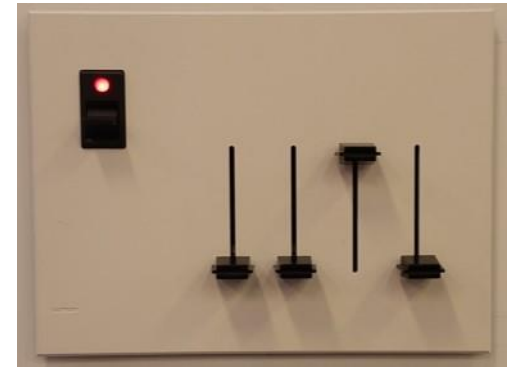
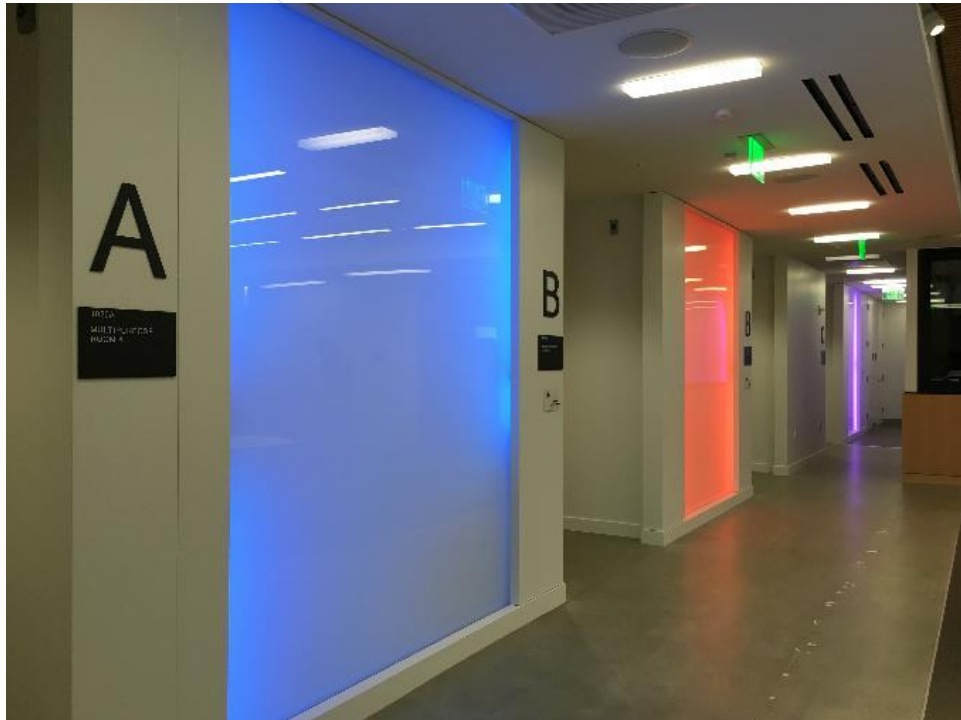
Color



Color



Color



Color



VISUAL ENVIRONMENT AND HEALTH EFFECTS



Create visual environments with sufficient lighting, minimal glare, access to daylight and exterior views, and care with light transitions.

Include well-planned design elements like contrast and value differences to provide useful visual cues.

QUESTIONS?

