

Hypothesis:

The light is inappropriate for the display of art in the third-floor corridors

Tool Day
Team 1
July 16, 2004
The Art Institute of Portland



Nu Ri Bae, Sara Goenner (facilitator), Boris Haglund (resource person), Tang Lee, Rob Matthews, Sue Roaf

WHAT IS INAPPROPRIATE ?

- Non-uniform lighting levels
- Inflexible lighting opportunities
- Low light levels
- Poor colour rendition

Methodology

Equipment list:

- Light meter
- Illuminance meter
- Hobo light meter (movement of daylight)
- Survey

Method (Continued)

- Take illuminance readings over the entire artwork.
- Survey occupants about whether they feel lighting is appropriate.
- Compare the results from the two previous steps.

WE WOZ RIGHT

Stein, B. and J. Reynolds (1999). *Mechanical and Electric Equipment for Buildings*, John Wiley and Sons, New York, p.1302.

Art Rooms. Required: Constant Color Daylight (eg., North windows). Electric lighting – high CRI-fluorescent lamps required, supplemented by user adjustable supplementary lights. With models, adjustable accent lights. For display of artwork, adjustable wall illumination good. Ceiling track-mounted units are excellent.

SURVEY: WE WOZ WRONG!

The Quality of Light Is Good for Displaying this Art ?

Strongly Agree	Agree	Neither Nor	Disagree	Strongly Disagree
8	12	5	1	0

A number of people suggested that more flexibility of fittings would be good.

The Quality of Light Is Bad for Displaying this Art ?

Strongly Agree	Agree	Neither Nor	Disagree	Strongly Disagree
0	0	2	3	1

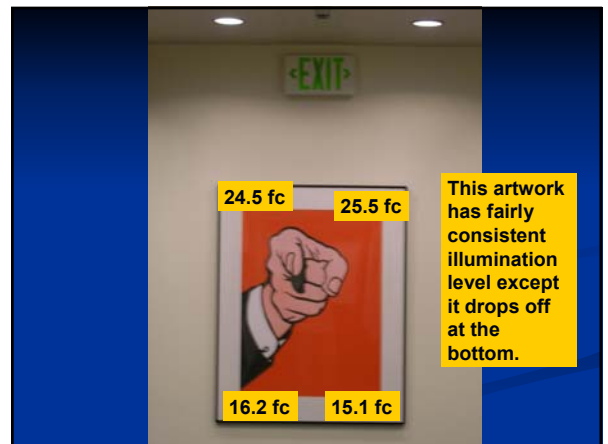
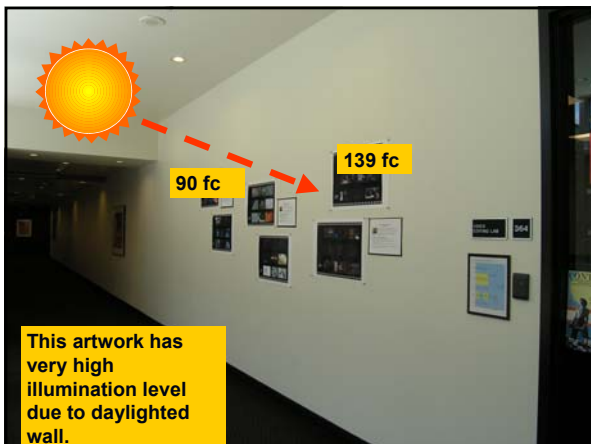
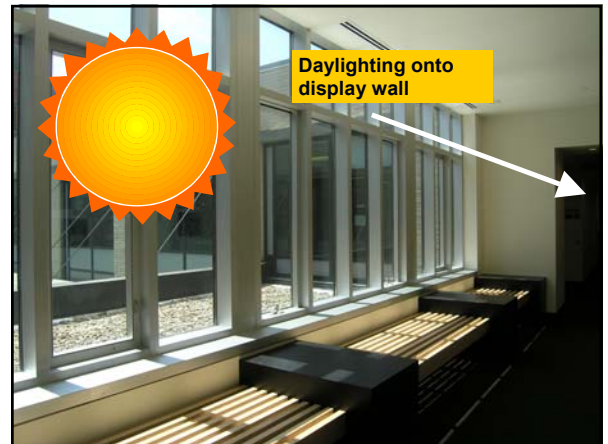
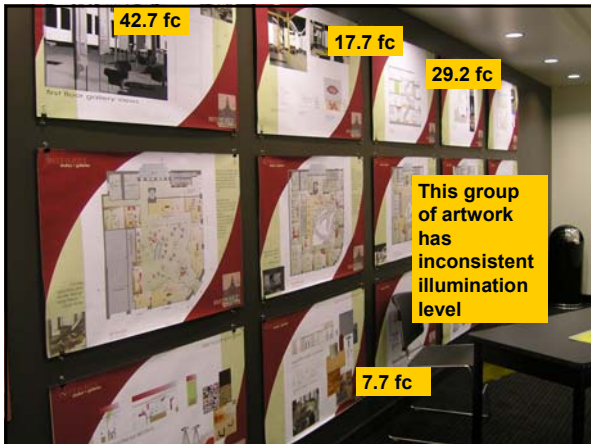
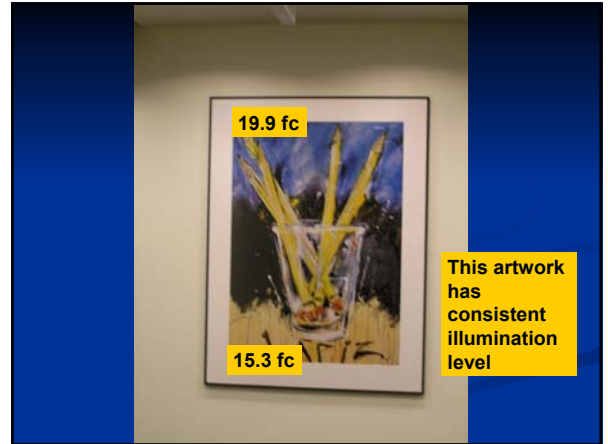
Appropriate? (Ability to read fine print, clarity, colour rendition, range of visual acuity.)

1. Light intensity
2. Colour vs. daylight
3. Direction
4. Glare

Recommended for corridor is 100 Lx.

10 Lx = 1 fc

No standard for art display.



Hypothesis:

The light is inappropriate for the display of art in the corridors.

The occupants said it was fine. From our measurements we found the level of illumination was inconsistent. Suggested improvements are more flexible lighting opportunities such as track lighting with high CRI levels.

