

Portland Tool Day
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Team 5
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Hypothesis

Rooms do not darken sufficiently for activities of low ambient lighting.

Methodology

Types of spaces:

Computer room

Animation room

Classroom

Tools

Light meter DS 2000



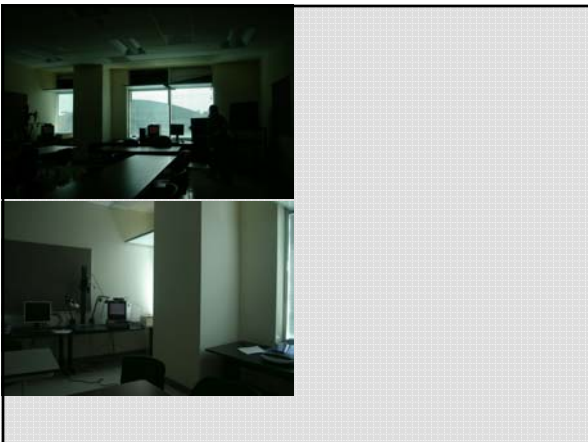
Blinds closed, electrical

Blinds closed, no electrical

Near window



Back of space



Rooms	Lights On / Blinds Open			Lights On / Blinds Closed			1/2 Lights On / Blinds Closed			Lights Off / Blinds Closed		
	Front	Middle	Back	Front	Middle	Back	Front	Middle	Back	Front	Middle	Back
Classroom	87	68	56	52	49	46	21.6	19	17	3.5	1	0.6
Computer Lab	44	57.5	58.5	47.6	49	29	35.7	36.2	22	6	2.5	1.5
Animation Lab	*	*	*	43.7	39	36.9	34.3	30	27	2.1	0.1	0.9

* Not able to take reading - clearstories covered in black paper, door sidelight with black fabric, poster board behind equipment
ANSI-IES recommendation P.1301 MEEB, Computer rooms 10 fc, Classrooms 50-63 fc

Hypothesis

Rooms do not darken sufficiently for activities of low ambient lighting.

Conclusions

Hypothesis is disproved: as the data show that the rooms can be darkened to the current 10 fc recommendation for computer rooms.

Activities requiring low lighting not satisfactory

- computer rooms located perimeter/corners: daylighting causes glare
- blinds always shut in computer rooms in response to glare
- unplanned layout in computer screens
- ad hoc measures indicate use of plastic, cardboard paper in presentation room
- lightselves not functioning: always closed due to adjustment to possible glare