

**Table 24.2 | Educational Facilities Illuminance Recommendations** continued from previous page

Applications and Tasks <sup>a</sup>	Notes	Recommended Maintained Illuminance (E <sub>h</sub> ) Targets					
		Horizontal (E <sub>h</sub> ) Targets			Visual Ages of Observers (years) where at least half are		
		<25	25-65	>65	<25	25-65	>65
<b>CLASSROOMS</b>	(Graphic Arts continued)	Category					
• Permanent/Temporary Dimensional	Awards, student art, plaques						
• Dark finish	E <sub>h</sub> and E <sub>v</sub> @artworks						
• Light finish	<50% reflectance		Avg = 5 times E <sub>h</sub> of surrounding space				
• Flat	≥50% reflectance		Avg = 3 times E <sub>h</sub> of surrounding space				
• Horizontal	E <sub>h</sub> and E <sub>v</sub> @artworks						
• Dark finish	<50% reflectance		Avg = 5 times E <sub>h</sub> of surrounding space				
• Light finish	≥50% reflectance		Avg = 3 times E <sub>h</sub> of surrounding space				
• Vertical	E <sub>h</sub> and E <sub>v</sub> @artworks						
• Dark finish	<50% reflectance						
• Light finish	≥50% reflectance						
• Drafting and Design	On drafting board or table						
• Blueline blueprint	Also see READING AND WRITING/Xerograph	R	250	500	1000	Avg	W
• CAD (exclusively)	See READING AND WRITING/VDT Screen and Keyboard						
• CAD/paper mixed	See READING AND WRITING, establish tasks and normalize to illuminance of most important task controls to provide illuminance variability if tasks so demand.						
• Light table	On light table	M	50	100	200	Avg	II
• Photographs (inspection)							
• Color and B+W prints	E <sub>h</sub> @2' 6"; E <sub>v</sub> @4' AFF	R	250	500	1000	Avg	W
• Negative lightbox	Architectural lighting illuminances on front of backlit light box	K	25	50	100	Max	K
• Kiln Room	E <sub>h</sub> @2' 6"; E <sub>v</sub> @4' AFF	R	250	500	1000	Avg	P
• Music Room	E <sub>h</sub> and E <sub>v</sub> @4' AFF	P	150	300	600	Avg	O
• <b>General Classrooms</b>							
• Learning/teaching	Interactive experience						
• AV (dedicated AV viewing)	E <sub>h</sub> @2' 6"; E <sub>v</sub> @4' AFF	K	25	50	100	Avg	I
• Chalkboard							Q
• Dedicated VDT screens	CSA/ISO Type I and II negative polarity screens. <sup>1</sup> E <sub>h</sub> @2' 6"; E <sub>v</sub> @4' AFF	N	75	150	300	Avg	K
• Hardcopy and writing	Variety of paper tasks. <sup>1</sup> E <sub>h</sub> @2' 6"; E <sub>v</sub> @4' AFF	Q	200	400	800	Avg	N
• Tack board							N
• Whiteboard							P
• Home Economics	At all food prep and detailed work areas		500	500	500	Min	O
• Lecture Halls	See AUDITORIUM/Lecture Hall						
• Science Lab							
• Bench	E <sub>h</sub> @3'; E <sub>v</sub> @4' 6" AFF	R	250	500	1000	Avg	P
• Demonstration Area	E <sub>h</sub> @3' AFF; E <sub>v</sub> @4' 6" AFF	T	500	1000	2000	Avg	R
• Seminar Rooms	See 22   LIGHTING FOR COMMON APPLICATIONS/CONFERENCING/Meeting						

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