

**RECOMMENDED MAINTENANCE ILLUMINANCES FOR VARIOUS TYPES OF TASKS, ACTIVITIES OR INTERIORS**

Class of Task		Recommended maintenance illuminance (lux)	Characteristics of the activity/interior	Representative activities/interiors
Movement & orientation		40	Interiors rarely visited with visual tasks limited to movement and orientation	Corridors; cable tunnels; indoor storage tanks; walkways.
Rough intermittent		80	Interiors requiring intermittent use with visual tasks limited to movement, orientation and coarse detail	Staff change rooms; live storage of bulky materials; dead storage of material needing care; locker rooms; loading bays.
Normal range of tasks and work places	Simple	160	Any continuously occupied interior where there are no tasks requiring perception of other than coarse detail. Occasional reading of clearly printed documents for short periods.	Waiting rooms; staff canteens; rough checking of stock; rough bench and machine work; entrance halls; general fabrication of structural steel; casting concrete; automated process monitoring; turbine halls.
	Ordinary or moderately easy	240	Continuously occupied interiors with moderately easy visual tasks with high contrasts or large detail (>10 min arc).	School chalkboards and charts; medium woodworking; floor preparation; counters for transactions.
	Moderately difficult	400	Areas where visual tasks are moderately difficult with moderate detail (5-10 min arc or tolerances to 125µm) or with low contrasts.	Routine office work; inspection of medium work; fine woodwork, enquiry points; car assembly.
	Difficult	600	Areas where visual tasks are difficult with small detail (3-5 min arc) or with very low contrasts.	Drawing offices (boards); most inspection tasks; proof reading; fine machine work; fine painting and finishing; colour matching.
	Very Difficult	800	Areas where visual tasks are very difficult with very small detail (2-3 min arc) or with very low contrast.	Fine inspection; paint retouching; fine manufacture; grading of dark materials; colour matching of dyes.
Extremely difficult		1200	Areas where visual tasks are extremely difficult with extremely small detail (1-2 min arc or tolerances below 25µm) or of low contrast. Visual aids may assist.	Graphic arts inspection; hand tailoring; fine die sinking; inspection of dark goods; extra-fine bench work.
Exceptionally difficult		1600	Areas where visual tasks are exceptionally difficult with exceptionally small detail (<1 min arc) or with very low contrasts. Visual aids will be of advantage.	Finished fabric inspection; assembly of minute mechanisms, jewellery and watchmaking.

SOURCE: Australian Standard AS-1680.1-2006: Interior Lighting, Part 1: General Principles and Recommendations