

6. For escalators, below step lighting may be effective in providing contrast between the steps and risers.
7. Increased illuminance may be necessary at the entrances and exits of escalators and travelators.
8. Avoid glare to drivers of vehicles approaching the loading bay. Light and clearly mark the edge of the loading bay.

Illuminance values may be varied to suit circumstances; see section 2.3.2, Illuminance.

## Metal working and processing

	Maintained illuminance (lux)	Limiting glare rating	Minimum colour rendering ( $R_a$ )	Notes
Open die forging	200	25	60	
Drop forging	300	25	60	
Welding	300	25	60	1
Rough and average machining: tolerances $\geq 0.1$ mm	300	22	60	2
Precision machining and grinding: tolerances $< 0.1$ mm	500	19	60	2
Scribing, inspection	750	19	60	3
Wire and pipe drawing shops; cold forming	300	25	60	
Plate machining: thickness $\geq 5$ mm	200	25	60	2
Sheet metalwork: thickness $< 5$ mm	300	22	60	2
Tool making: cutting equipment manufacture	750	19	60	
Assembly:				
— rough	200	25	80	2, 4
— medium	300	25	80	2, 4
— fine	500	22	80	2, 4
— precision	750	19	80	4
Galvanising	300	25	80	4
Surface preparation and painting	750	25	80	4
Tool, template and jig making, precision mechanics, micro-mechanics	1000	19	80	

### Notes:

1. Care is necessary to prevent exposure of eyes and skin to radiation. Welding screens will be used, so considerable obstruction is likely. Portable lighting may be useful.
2. Some obstruction is likely. Care should be taken to minimise stroboscopic effects on rotating machinery.
3. Care should be taken to avoid multiple shadows.
4. If high-bay lighting is used the colour rendering requirement may be relaxed, provided that measures are taken to ensure lighting with higher colour rendering is provided at continually occupied work stations.

Illuminance values may be varied to suit circumstances; see section 2.3.2, Illuminance.

## Nursery and play schools

	Maintained illuminance (lux)	Limiting glare rating	Minimum colour rendering ( $R_a$ )
Play room	300	19	80
Nursery	300	19	80
Handicraft room	300	19	80

Illuminance values may be varied to suit circumstances; see section 2.3.2, Illuminance.