

Notes:

General: lamps and luminaires may be subject to severe fouling and high ambient temperatures. Dustproof (IP5X) or other luminaires with good maintenance properties are desirable in areas where raw materials are formed into the basic product.

1. Safety colours should be recognisable.
2. If high-bay lighting is used the colour rendering requirement may be relaxed, provided 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.

Ceramic, tiles and glassware

	Maintained illuminance (lux)	Limiting glare rating	Minimum colour rendering (R_a)	Notes
Dyeing	50	28	20	1
Preparation, general machine work	300	25	80	2
Enamelling, rolling, pressing, shaping simple parts, glazing, glass blowing	300	25	80	2
Grinding, engraving, glass polishing, shaping precision parts, manufacture of glass instruments	750	19	80	2
Grinding of optical glass, crystal, hand grinding and engraving	750	16	80	
Precision work, e.g. decorative grinding, hand painting	1000	16	90	3
Manufacture of synthetic precious stones	1500	16	90	3

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1. Safety colours should be recognisable.
2. If high-bay lighting is used the colour rendering requirement may be relaxed, provided measures are taken to ensure lighting with higher colour rendering is provided at continually occupied work stations.
3. Colour temperature of the light should be greater than 4000 K.

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

Chemical, plastics and rubber industry

	Maintained illuminance (lux)	Limiting glare rating	Minimum colour rendering (R_a)	Notes
Remote-operated processing installations	50	—	20	1, 2
Processing with limited manual intervention	150	28	40	
Constantly manned work places in processing installations	300	25	80	
Precision measuring rooms, laboratories	500	19	80	
Pharmaceutical production	500	22	80	
Tyre production	500	22	80	
Colour inspection	1000	16	90	3
Cutting, finishing and inspection	750	19	80	