## **Recommended Illuminance Levels**

	Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
1	AGRICULTURE AND HORICULTURE			
	1.1 Inspection of farm products where Colour is important	300-500-750	1	Local lighting may be appropriate
	Other important tasks	200-300-500	2	Local lighting may be appropriate
	1.2 Farm workshops 1.2.1 General	50-100-150	3	
	1.2.2 Workbench or machine	200-300-500	2	Local or portable lighting may be appropriate
	1.3 Milk premises	50-100-150	3	
	<ul><li>1.4 Sick Animal Pets, Calf Nurseries</li><li>1.5 Other Firm and Horticulture Building</li></ul>	30-50-100 20-30-50	3 3	
	1.5 Other Firm and Florticulture Building	20-30-30	3	
	Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
2.	COAL MINING (SURFACE BUILDING)			
	<ul><li>2.1 Coal preparation plant</li><li>2.1.1 Walkways, Floors, under converters</li><li>2.1.2 Wagon loading, bunkers</li><li>2.1.3 Elevators ,Chute transfer pits,</li></ul>	30-50-100 30-50-100 50-100-150	3 3 3	
	washbox area			
	<ul><li>2.1.4 Drum filters, screen, rotating shafts</li><li>2.1.5 Picking belts</li></ul>	100-150-200 150-200-300	3 3	Directional & colour properties of lighting may be important for easy recognition of coal & rock
	2.2 Lamp Rooms			oodi a rook
	2.2.1 Repair section 2.2.2 Other areas	200-300-500 100-150-200	2	
	2.2.2 Other areas 2.3 Weight cabins, fan houses	100-150-200	3 3	
	2.4 Winding houses	100-150-200	3 3	
	Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks

3. ELECTRICITY GENERATION TRANSMISSION AND DISTRIBUTION

3.1 General plant			
3.1.1 Turbine houses (operating floor)	150-200-300	2	
3.1.2 Boiler and turbine house basements	50-100-150	3	
3.1.3 Boiler house, platforms, areas around Burners	50-100-150	3	
3.1.4 Switch rooms, meter rooms, oil plant Rooms, HV substations (indoor)	100-150-200	2	
3.1.5 Control room	200-300-500	1	Localized lighting of control display & the control desks may be appropriate
3.1.6 Relay and telecommunication rooms	200-300-500	2	арргорпасс
3.1.7 Diesel generator & compressor rooms	100-150-200	3	
3.1.8 Pump houses, water treatment plant Houses	100-150-200	3	
3.1.9 Battery rooms, charges, rectifiers	50-100-150	3	
3.1.10 Precipitator chambers, platforms, etc	50-100-150	3	
3.1.11 Cable tunnels & basements, Circulating Water culverts & screen chamber	30-50-100	3	
3.2 Coal Plant 3.2.1 Conveyors, gantries, junction towers,	50-100-150	3	
Unloading hoppers, ash handling plants, Setting pits, dust hoppers	30-100-130	3	
3.2.2 Other areas where operators	100-150-200	3	
may be Attendance			
3.3 Nuclear Plants		_	
Gas circulation bays, reactor area, boiler Platform, reactor charges and discharge face	100-150-200	2	
Platform, reactor charges and discharge	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
Platform, reactor charges and discharge face  Types of interior or activity	Range of service illuminance in	Quality class of direct glare	Remarks
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE 4.1 Iron Making	Range of service illuminance in	Quality class of direct glare	Remarks
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE	Range of service illuminance in	Quality class of direct glare	Remarks
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE 4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE 4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE 4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations 4.1.2 Furnaces, cupola	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE 4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations 4.1.2 Furnaces, cupola General	Range of service illuminance in lux  150-200-300 100-150-200	Quality class of direct glare limitation	
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE 4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations 4.1.2 Furnaces, cupola	Range of service illuminance in lux	Quality class of direct glare limitation	Local lighting may be
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE 4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations 4.1.2 Furnaces, cupola General Control Platforms  Conveyor galleries, walkways	Range of service illuminance in lux  150-200-300 100-150-200	Quality class of direct glare limitation	
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE 4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations 4.1.2 Furnaces, cupola General Control Platforms  Conveyor galleries, walkways 4.2 Steel Making 4.2.1 Electric Melting Shops 4.2.2 Basic Oxygen Steel Making Plants	Range of service illuminance in lux  150-200-300 100-150-200  100-150-200 200-300-500	Quality class of direct glare limitation	Local lighting may be
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE  4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations 4.1.2 Furnaces, cupola General Control Platforms  Conveyor galleries, walkways 4.2 Steel Making 4.2.1 Electric Melting Shops 4.2.2 Basic Oxygen Steel Making Plants 4.2.2.1 General	Range of service illuminance in lux  150-200-300 100-150-200 200-300-500 30-50-100 150-200-300 100-150-200	Quality class of direct glare limitation  3 3 3 3 3 3	Local lighting may be
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE  4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations 4.1.2 Furnaces, cupola General Control Platforms  Conveyor galleries, walkways 4.2 Steel Making 4.2.1 Electric Melting Shops 4.2.2 Basic Oxygen Steel Making Plants 4.2.2.1 General 4.2.2.2 Converter Floor, teeming bay	Range of service illuminance in lux  150-200-300 100-150-200 200-300-500 30-50-100 150-200-300 100-150-200 150-200-300	Quality class of direct glare limitation	Local lighting may be appropriate
Platform, reactor charges and discharge face  Types of interior or activity  4. METAL MANUFACTURE  4.1 Iron Making 4.1.1 Sinter Plant Plant floor Mixer drum, fan house, screen Houses, coolers, transfer stations 4.1.2 Furnaces, cupola General Control Platforms  Conveyor galleries, walkways 4.2 Steel Making 4.2.1 Electric Melting Shops 4.2.2 Basic Oxygen Steel Making Plants 4.2.2.1 General	Range of service illuminance in lux  150-200-300 100-150-200 200-300-500 30-50-100 150-200-300 100-150-200	Quality class of direct glare limitation  3 3 3 3 3 3	Local lighting may be

4.3 Metal forming and treatment 4.3.1 Ingot stripping, soaking pits, annealing and heat treatment bays, acid recovery plant. Pickling and cleaning bays, roughing mills, cold mills, finishing mills, tinning and galvanizing lines, cut up and rewind line	150-200-300	3	
4.3.2 General 4.3.3 Control Platforms	100-150-200 200-300-500	3 2	Local lighting may be appropriate
4.3.4 Wire mills, product finishing, steel Inspection and treatment	200-300-500	3	арргорпас
4.3.5 Plate/strip inspection 4.3.6 Inspection of tin plate, stainless steel, etc	300-500-500	2	Special lighting to reveal faults in the specular surface of the material will be required
<ul> <li>4.4 Foundries</li> <li>4.4.1 Automatic plant</li> <li>4.4.1.1 Without manual operation</li> <li>4.4.1.2 With occasional manual operation</li> <li>4.4.1.3 With continuous manual operation</li> <li>4.4.1.4 Control room</li> </ul>	30-50-100 100-150-200 150-200-300 200-300-500	3 3 3 1	Localized lighting of control display & the control desks may be appropriate
4.4.1.5 Control Platforms	200-300-500	2	арргорпасе
4.4.2 Non-automatic Plants 4.4.2.1 Charging Floor, Pouring, Shaking Out, Cleaning, Grinding Felting	200-300-500	3	
4.4.2.2 Rough moulding, rough core making 4.4.2.3 Fine moulding, fine core making 4.4.2.4 Inspection	200-300-500 300-500-750 300-500-750	3 2 2	
<ul><li>4.5 Forges (severe vibration is likely to occur)</li><li>4.5.1 General</li></ul>	200-300-500	2	
4.5.2 Inspection	300-500-750	2	
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
5.CERAMICS			
<ul><li>5.1 Concrete Products</li><li>Mixing, Casting, Cleaning</li><li>5.2 Potteries</li></ul>	150-200-300	3	
5.2.1 Grinding, moulding, pressing,	200-300-500	3	
cleaning, Trimming, glazing, firing 5.2.2 Enameling, colouring 5.3 Glass Works	500-750-1000	1	
5.3.1 Furnace rooms, bending, annealing 5.3.2 Mixing rooms, forming, cutting,	100-150-200 200-300-500	3 3	
grinding, Polishing, toughening 5.3.3 Beveling, decorative cutting, etching, Silvering	300-500-750	2	

Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
6. CHEMICALS     6.1 Petroleum, chemical and petrochemical     Works			
6.1.1 Exterior walkways, Platforms, stairs & Ladders	30-50-100	3	
6.1.2 Exterior pump and valve areas	50-100-150	3	
6.1.3 Pump and compressor houses	100-150-200	3	
6.1.4 Process plant with remote control	30-50-100	3	
6.1.5 Process plant requiring occasional	50-100-150	3	
Manual interventions	450 000 000		
6.1.6 Permanently occupied work stations in	150-200-300	3	
Process plant	200 200 500	4	
<ul><li>6.1.7 Control rooms for process plant</li><li>6.2 Pharmaceutical Manufacturer and Fine Chemicals Manufacturer</li></ul>	200-300-500	1	
6.2.1 Pharmaceutical Manufacturer Grinding, granulating, mixing, drying, Tableting, sterilizing, washing, Preparation of solutions, filling capping, Wrapping, hardening	300-500-750	2	
6.2.2 Fine chemical manufacture			
6.2.2.1 Exterior walkways, platform, stairs and ladders	30-50-100	3	
6.2.2.2 Process plant	50-100-150	3	
6.2.2.3 Fine chemical finishing	300-500-750	2	
6.2.2.4 Inspection	300-500-750	1	Local lighting may be appropriate
6.3 Soap Manufacture			
6.3.1 General Area	200-300-500	2	
6.3.2 Automatic Processes	100-200-300	2	Land PaleCarrage
6.3.3 Control panels	200-300-500	1	Local lighting may be
6.3.4 Machines	200-300-500	2	appropriate
6.4 Paint Works 6.4.1 General	200-300-500	2	
6.4.1 General 6.4.2 Automatic Processes	150-200-300	2 2	
6.4.3 Control Panels	200-300-500	2	
6.4.4 Special Batch mixing	500-750-1000	2	
6.4.5 Colour Matching	750-1000-1500	1	
0.4.3 Colour Matering	730-1000-1300	'	
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
7. MECHANICAL ENGINEERING			
7.1 Structural steel Fabrication			
7.1.1 General	200-300-500	3	

7.1.2 Marking off	300-500-750	3	Local lighting may be
7.1.2 Marking off	300-300-730	3	Local lighting may be appropriate
7.2 Sheet Metal Works			
7.2.1 Pressing, punching, shearing, stamping, spinning, folding	300-500-750	2	
7.2.2 Bench work, scribing, inspection 7.3 Machine and tool shops	500-750-1000	2	
7.3.1 Rough bench and machine work	200-300-500	3	
7.3.2 Medium bench and machine work	300-500-750	2	
7.3.3 Fine bench and machine work	500-750-1000	2	
7.3.4 Gauge rooms	750-1000-1500	1	Optical aids may be required
7.4 Die Sinking Shops			·
7.4.1 General	300-500-750	2	
7.4.2 Fine Works	1000-1500-2000	1	Flexible local lighting is desirable
7.5 Welding and soldering shops	000 000 500	0	
7.5.1Gas and arc welding, rough spot welding	200-300-500 300-500-750	3	
7.5.2Medium soldering, brazing, spot welding 7.5.3 Fine soldering, fine spot welding	750-1000-1500	3 2	Local lighting may be
	730-1000-1300	2	appropriate
7.6 Assembly Shops 7.6.1 Rough work for example, frame	200-300-500	3	The lighting of vertical
and	200-300-300	3	surface may be
heavy machine assembly			important
7.6.2 Medium work, for example, office	300-500-750	2	•
Machinery assembly			
7.6.3 Fine work, for example, office	500-750-1000	1	Local lighting may be
machinery assembly			appropriate
7.6.4 Very fine work, for example,	750-1000-1500	1	Local or localized
instrument assembly			lighting may be
7.6.5 Minute work for example, watch	1000-1500-2000	1	appropriate Local lighting and
making	1000-1300-2000	•	optical aids are
making			desirable
7.7 Inspection and Testing Shops			
7.7.1 Coarse Work, for example, using	300-500-750	2	Local or localized
go/on go gauge, inspection of large			lighting may be
sub-assembly			appropriate
7.7.2 Medium work for example,	500-750-1000	1	Local or localized
inspection of painted surfaces			lighting may be
7.7.3 Fine work, for example, using	750-1000-1500	1	appropriate Local or localized
calibrated scales, inspection of	750-1000-1500	1	lighting may be
precision mechanism			appropriate
7.7.4 Very fine work, for example,	1000-1500-2000	1	Local lighting and
inspection of small intricate parts			optical aids are
7.7.5 Minute work, for example, inspection of	2000	1	Local lighting and
very small instruments			optical aids are
			desirable
7.8 Points Shops and Spray Booths	000 000 500	0	
7.8.1 Dipping, rough spraying	200-300-500	3 2	
7.8.2 Preparation, ordinary painting, spraying & finishing	200-500-750	2	
7.8.3 Fine painting, Spraying and finishing	500-750-1000	2	
7.8.4 Inspection, retouching and matching	750-1000-1500	2	
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7.9.1 Vats and baths 7.9.2 Buffing, polishing burnishing 7.9.3 Final buffing and polishing 7.9.4 Inspection	200-300-500 300-500-750 500-750-1000	3 2 2	Special light to reveal
			fault in the surface of the material be required
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
8 ELECTRICAL AND ELECTRONIC ENGG.			
8.1 Electrical Equipment manufacture 8.1.1 Manufacture of cables & insulated wires, winding, varnishing & immersion of coils, assembly of large machines, simple assembly work	200-300-500	3	
8.1.2 Medium assembly , for example Telephones, small motors	300-500-750	3	Local lighting may be appropriate
8.1.3 Assembly of precision components, for eg., telecommunication equipment, adjustment, inspection and calibration	750-1000-1500	1	Local lighting may be appropriate. Optical aids may be used
8.1.4 Assembly of high precision parts	1000-1500-2000	1	Local lighting may be appropriate. Optical aids may be used
8.2 Electronic Equipment Manufacture			and may be deed
8.2.1Printed Circuit Board	200 500 750	4	Local lighting may be
8.2.1.1 Silk Screening	300-500-750	1	Local lighting may be appropriate
8.2.1.2 Hand insertion of components, soldering	500-750-1000	1	Local lighting may be appropriate
8.2.1.3 Inspection	750-1000-1500	1	A large, low luminance luminaire overhead ensures specular reflection conditions which are helpful for inspection of printed circuit
8.2.1.4 Assembly of wiring harness, clearing Harness, testing and calibration	500-750-1000	1	Local lighting may be appropriate
8.2.1.5 Chassis assembly	750-1000-1500	1	Local lighting may be appropriate
8.2.2 Inspection and testing	450 200 200	2	
8.2.2.1 Soak test 8.2.2.2 Safety and functional tests	150-200-300 200-300-500	2 2	
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks

7.9 Plating shops

nps of colour -dering ground 1A 1B will be req, if - our judgement is
ecial lighting will be
required
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ccurate colour gments are req, nps of colour dering group of 1A 1B are used
gments are req, nps of colour dering group of 1A
gments are req, nps of colour dering group of 1A
gments are req, nps of colour dering group of 1A
gments are req, nps of colour dering group of 1A
gments are req, nps of colour dering group of 1A 1B are used
gments are req, nps of colour dering group of 1A 1B are used
gments are req, nps of colour dering group of 1A 1B are used
gments are req, nps of colour dering group of 1A 1B are used
gments are req, nps of colour dering group of 1A 1B are used

10.2.2 Heading (drawing in) 10.3 Fabric Production	750-1000-750	2	
10.3.1 Knitting 10.3.2 Weaving	300-500-750	2	
10.3.2.1 Jute and hemp	200-300-750	2	
10.3.2.2 Heavy woolens	300-500-750	1	
10.3.2.3 Medium worsteds, fine woolens,	500-500-750	1	
cottons	300-300-730	'	
10.3.2.4Fine worsteds, fine linens, synthetics	750-1000-750	1	
10.3.2.5 Mending	1000-1500-2000	1	
10.3.2.6 Inspection	1000-1500-2000	1	
10.4 Fabric Finishing	1000-1000-2000	'	
10.4.1 Dyeing	200-300-500	3	
10.4.2 Calendering, Chemical treatment, etc.	300-500-750	2	
10.4.3 Inspection	300-300-730	2	
10.4.3.1 Grey cloth	750-1000-1500	1	
10.4.3.2 Final	1000-1500-2000	1	
10.5 Carpet Manufacturer	1000-1300-2000	ı	
10.5.1 Winding, beaming	200-300-500	3	
10.5.2 Setting pattern, tufting cropping,	300-500-750	2	
Trimming. Fringing, latexing and latex	300-300-730	۷	
Drying	E00 7E0 1000	2	
10.5.3 Designing, weaving, mending	500-750-1000	2	
10.5.4 Inspection 10.5.4.1 General	750-1000-1500	1	Local lighting may be
10.5.4.1 General	750-1000-1500	1	Local lighting may be
10.5.4.2 Piece dyeing		1	appropriate Local lighting may be appropriate
Types of interior or activity	Range of	Quality class	Remarks
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
	service illuminance in	of direct glare	Remarks
11 LEATHER INDUSTRY	service illuminance in	of direct glare	Remarks
11 LEATHER INDUSTRY 11.1 Leather Manufacture	service illuminance in lux	of direct glare limitation	Remarks
11 LEATHER INDUSTRY 11.1 Leather Manufacture 11.1.1 Cleaning, tanning and stretching,	service illuminance in	of direct glare	Remarks
11 LEATHER INDUSTRY 11.1 Leather Manufacture 11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing	service illuminance in lux	of direct glare limitation	Remarks
11 LEATHER INDUSTRY 11.1 Leather Manufacture 11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing 11.1.2 Finishing, scarfing	service illuminance in lux	of direct glare limitation	Remarks
11 LEATHER INDUSTRY  11.1 Leather Manufacture  11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing  11.1.2 Finishing, scarfing  11.2 Leather Working	service illuminance in lux  200-300-500 300-500-750	of direct glare limitation  3 2	Remarks
11 LEATHER INDUSTRY  11.1 Leather Manufacture  11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing  11.1.2 Finishing, scarfing  11.2 Leather Working  11.2.1 General	service illuminance in lux 200-300-500 300-500-750 200-300-500	of direct glare limitation  3 2 3	Remarks
11 LEATHER INDUSTRY  11.1 Leather Manufacture  11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing  11.1.2 Finishing, scarfing  11.2 Leather Working  11.2.1 General  11.2.2 Pressing, glazing	service illuminance in lux 200-300-500 300-500-750 200-300-500 300-500-750	of direct glare limitation  3 2 3 2	
11 LEATHER INDUSTRY  11.1 Leather Manufacture  11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing  11.1.2 Finishing, scarfing  11.2 Leather Working  11.2.1 General	service illuminance in lux 200-300-500 300-500-750 200-300-500	of direct glare limitation  3 2 3	Directional lighting
11 LEATHER INDUSTRY  11.1 Leather Manufacture  11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing  11.1.2 Finishing, scarfing  11.2 Leather Working  11.2.1 General  11.2.2 Pressing, glazing	service illuminance in lux 200-300-500 300-500-750 200-300-500 300-500-750	of direct glare limitation  3 2 3 2	
11 LEATHER INDUSTRY  11.1 Leather Manufacture  11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing  11.1.2 Finishing, scarfing  11.2 Leather Working  11.2.1 General 11.2.2 Pressing, glazing 11.2.3 Cutting, splitting, scarfing, sewing	service illuminance in lux 200-300-500 300-500-750 200-300-500 300-500-750	of direct glare limitation  3 2 3 2 2 2	Directional lighting may be useful Local lighting may be
11 LEATHER INDUSTRY  11.1 Leather Manufacture  11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing  11.2 Finishing, scarfing  11.2 Leather Working  11.2.1 General  11.2.2 Pressing, glazing  11.2.3 Cutting, splitting, scarfing, sewing  11.2.4 Grading, matching  Types of interior or activity	service illuminance in lux  200-300-500  300-500-750  200-300-500  300-500-750  500-750-1000  Range of service illuminance in	of direct glare limitation  3 2 3 2 2 2 Quality class of direct glare	Directional lighting may be useful Local lighting may be appropriate
11 LEATHER INDUSTRY  11.1 Leather Manufacture  11.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing  11.2 Finishing, scarfing  11.2 Leather Working  11.2.1 General  11.2.2 Pressing, glazing  11.2.3 Cutting, splitting, scarfing, sewing  11.2.4 Grading, matching	service illuminance in lux  200-300-500  300-500-750  200-300-500  300-500-750  500-750-1000  Range of service illuminance in	of direct glare limitation  3 2 3 2 2 2 Quality class of direct glare	Directional lighting may be useful Local lighting may be appropriate

Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
drying Varnishing, vulca 12.5.7.2 Lining, making and fini		2	
12.5.7 Rubber 12.5.7.1 Washing, compounding		3	αρριορπαι <del>ο</del>
12.5.6 Bottom stock preparation, las Bottoming finishing, show roo		1	appropriate Local or localized lighting may be appropriate
12.5.5 Cutting tables and pressure	1000-1500-2000	1	appropriate Local or localized lighting may be
12.5.4 Preparatory Operations	750-1000-1500	2	appropriate Local or localized lighting may be
12.5.3 Clicking, closing	750-1000-1500	2	Local or localized lighting may be
12.5 Boot and Shoe Manufacture 12.5.1 Leather and Synthetics 12.5.2 Sorting and Grading	750-1000-1500	1	appropriate
12.4.4 Inspection	1000-1500-2000		Local lighting may be
12.4.2 Cleaning, flanging, finishing 12.4.3 Sewing	300-500-750 500-750-1000	2 2	
12.4 Hat Manufacture 12.4.1 Stiffening, braiding, refining, for Sizing, pounding, ironing	<u> </u>	2	
12.3.4 Inspection	1000-1500-2000		Local lighting may be appropriate
12.3.3 Sewing	500-750-1000	2	
12.3.1 Sorting & grading 12.3.2 Pressing, knitting, cutting	500-750-1000 300-500-750	1 2	
12.2.6 Inspection  12.3 Glove Manufacture	1000-1500-2000	2	Local lighting may be appropriate
12.2.5 Mending, hand finishing	1000-1500-3000		Local lighting may be appropriate
12.2.4 Linking or running on	750-1000-1500	1	
<ul><li>12.2.2 Circular knitting machines</li><li>12.2.3 Lock stitch and over locking</li></ul>	500-750-1000 machine 750-1000-1500	2 1	
12.2 Hosiery and Knitwear Manufactur 12.2.1 Flat bed knitting machines	300-500-750	2	
12.1.7 Hand tailoring	1000-1500-2000	1	appropriate Local lighting may be appropriate
12.1.5 Pressing 12.1.6 Inspection	300-500-750 1000-1500-2000	2 1	Local lighting may be
12.1.3 Matching 12.1.4 Sewing	500-750-1000 750-1000-1500	1 1	
12.1.2 Cutting	500-750-1000	1	

13.1 Sawmills			
13.1.1 General	150-200-300	3	
13.1.2 Head saw	300-500-750	2	Local lighting may be appropriate
13.1.3 Grading	500-750-1000	2	арргорнаце
13.2 Woodwork Shops			
13.2.1 Rough sawing, bench work	200-300-500	3	
13.2.2 Sizing, planning, sanding, medium  Machining and bench work	300-500-750	2	
13.2.3 Fine bench & machine work, fine sanding, finishing	500-750-1000	2	localized lighting may be appropriate
13.3 Furniture manufacture			
13.3.1 Raw material stores	50-100-150	3	
13.3.2 Finished goods stores	100-150-200	3	
13.3.3 Wood matching and assembly, rough sawing, cutting	200-300-500	2	localized lighting may be appropriate
13.3.4 Machining, sanding and assembly, polishing	300-500-750	2	
13.3.5 Tool rooms 13.3.6 Spray booths	300-500-750	2	
13.3.6.1 Colour finishing	300-500-750	2	
13.3.6.2 Clear finishing 13.3.7 Cabinet making	200-300-500	2	
13.3.7.1 Vaneer sorting and grading	750-1000-1500	1	
13.3.7.2 Marquetry, pressing, patching and fitting	300-500-750	2	
13.3.7.3 Final inspection	500-750-1000	1	Special lighting will be required
13.4 Upholstery Manufacture			·
13.4.1 Cloth inspection	1000-1500-2000	1	Special lighting will be required
13.4.2 Filling, covering	300-500-750	2	
13.4.3 Slipping, cutting, sewing	500-750-1000	2	
13.4.4 Mattress making			
13.4.5 Assembly	300-500-750	2	
13.4.6 Tape edging	750-1000-1500	2	Local lighting may be appropriate
Types of interior or activity	Range of service illuminance in	Quality class of direct glare limitation	Remarks
	lux	illitation	
	1007		
14 PAPER AND PRINTING 14.1 Paper Mills			
14.1.1 Pulp mills, preparation plants	200-300-500	3	
14.1.2 Paper and board making	200-300-300	3	
14.1.2.1 General	200-300-500	3	
14.1.2.2 Automatic process	150-200-300	3	Supplementary
14. 1.2.2 Automatic process	130-200-300	3	lighting may be necessary for
14.1.2.3 Inspection, sorting			maintenance work
	300-500-750	1	
14.1.3.1 General	300-500-750 200-300-500	1 3	

14.1.3.2 Associated printed 14.2 Printed works	300-500-750	2	
14.2.1 Type foundries			
14.2.1.1 Matrix making, dressing type, hand and machine coating	200-300-500	3	
14.2.1.2 Front assembly, sorting 14.2.2 Composing room	500-750-1000	2	
14.2.2.1Hand composing, imposition and Distribution	500-750-1000	1	
14.2.2.2 Hot metal keyboard	500-750-1000	2	
14.2.2.3 Hot metal casting	200-300-500	_	
14.2.2.4 Photo composing keyboard or setters	300-500-750	1	
14.2.2.5 Paste up	500-750-1000	1	
14.2.2.6 Illuminated tables- general lighting	200-300-500		Dimming may be required
14.2.2.7 Proof precess	300-500-750	2	
14.2.2.8 Proof reading	500-750-1000	1	
14.2.3 Graphic reproduction	000 100 1000	·	
14.2.3.1 General	300-500-750	2	
14.2.3.2 Precision proofing, retouching, etching	750-1000-1500	1	Local lighting may be appropriate
14.2.3.3 Colour reproduction and inspection	750-1000-1500	1	арргорпасе
14.2.4 Printing Machine Room			
14.2.4.1 Presses	300-500-750	2	
14.2.4.2 Pre-make ready	300-500-750	2	
14.2.4.3 Printed sheet inspection	750-1000-1500	1	
		·	
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and	300-500-750	2	
14.2.5 Binding			•
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching	300-500-750	2	Remarks
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity	300-500-750 500-750-1000  Range of service illuminance in	2 2 Quality class of direct glare	Remarks
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER	300-500-750 500-750-1000  Range of service illuminance in	2 2 Quality class of direct glare	Remarks
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product	300-500-750 500-750-1000  Range of service illuminance in	2 2 Quality class of direct glare	Remarks
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER	300-500-750 500-750-1000  Range of service illuminance in	2 Quality class of direct glare limitation	Remarks
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant	300-500-750 500-750-1000  Range of service illuminance in lux	2 2 Quality class of direct glare	Remarks
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant 15.1.1.1 Without manual control	300-500-750 500-750-1000  Range of service illuminance in lux	2 Quality class of direct glare limitation	Remarks
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant 15.1.1.1 Without manual control 15.1.1.2 With occasional manual control	300-500-750 500-750-1000  Range of service illuminance in lux  30-50-100 50-100-150	2 Quality class of direct glare limitation	Remarks
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant 15.1.1.1 Without manual control 15.1.1.2 With occasional manual control 15.1.1.3 With continuous manual control	300-500-750 500-750-1000  Range of service illuminance in lux  30-50-100 50-100-150 200-300-500	2 Quality class of direct glare limitation	Local lighting may be
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant 15.1.1.1 Without manual control 15.1.1.2 With occasional manual control 15.1.1.3 With continuous manual control 15.1.1.4 Control rooms 15.1.1.5 Control platforms	300-500-750 500-750-1000  Range of service illuminance in lux  30-50-100 50-100-150 200-300-500 200-300-500 200-300-500	2 Quality class of direct glare limitation  3 3 3 1 2	
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant 15.1.1.1 Without manual control 15.1.1.2 With occasional manual control 15.1.1.3 With continuous manual control 15.1.1.4 Control rooms 15.1.1.5 Control platforms  15.1.2 Non-automatic plant 15.1.2.1 Mixing, Calendering, extrusion, injection, Compression and blow	300-500-750 500-750-1000  Range of service illuminance in lux  30-50-100 50-100-150 200-300-500 200-300-500	2 Quality class of direct glare limitation	Local lighting may be
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant 15.1.1.1 Without manual control 15.1.1.2 With occasional manual control 15.1.1.3 With continuous manual control 15.1.1.4 Control rooms 15.1.1.5 Control platforms  15.1.2 Non-automatic plant 15.1.2.1 Mixing, Calendering, extrusion, injection, Compression and blow moulding, sheet fabrication	300-500-750 500-750-1000  Range of service illuminance in lux  30-50-100 50-100-150 200-300-500 200-300-500 200-300-500	2 Quality class of direct glare limitation  3 3 3 1 2	Local lighting may be
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant 15.1.1.1 Without manual control 15.1.1.2 With occasional manual control 15.1.1.3 With continuous manual control 15.1.1.4 Control rooms 15.1.1.5 Control platforms  15.1.2 Non-automatic plant 15.1.2.1 Mixing, Calendering, extrusion, injection, Compression and blow moulding, sheet fabrication 15.1.2.2 Trimming, cutting, polishing	300-500-750 500-750-1000  Range of service illuminance in lux  30-50-100 50-100-150 200-300-500 200-300-500 200-300-500	2 Quality class of direct glare limitation  3 3 3 1 2	Local lighting may be
14.2.5 Binding 14.2.5.1 Folding, pasting, punching and stitching 14.2.5.2 Cutting, assembling, embossing  Types of interior or activity  15 PLASTIC AND RUBBER 15.1 Plastic Product 15.1.1 Automatic plant 15.1.1.1 Without manual control 15.1.1.2 With occasional manual control 15.1.1.3 With continuous manual control 15.1.1.4 Control rooms 15.1.1.5 Control platforms  15.1.2 Non-automatic plant 15.1.2.1 Mixing, Calendering, extrusion, injection, Compression and blow moulding, sheet fabrication	300-500-750 500-750-1000  Range of service illuminance in lux  30-50-100 50-100-150 200-300-500 200-300-500 200-300-500 200-300-500	2 2 Quality class of direct glare limitation  3 3 3 1 2	Local lighting may be

15.2.2 Calendering, fabric preparation, stock- Cutting 15.2.3 Extruding, moulding 15.2.4 Inspection	300-500-750 300-500-750 750-1000-1500	3 2 	
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
<b>16 DISTRIBUITION AND STORAGE</b> 16.1 Work stores	100-150-200	3	Avoid glare to drivers of vehicles approaching the
16.1.1 Unpacking, sorting	150-200-300	3	loading bay Avoid glare to drivers of vehicles approaching the
16.1.2 Large item storage	50-100-150	3	loading bay Avoid glare to drivers of vehicles approaching the
16.1.3 Small item rack storage	200-300-500	3	loading bay Avoid glare to drivers of vehicles approaching the
16.1.4 Issue counter, records, storemans desk	300-500-750	2	loading bay Local or localized lighting may be appropriate
16.2 Warehouses and bulk stores 16.2.1 Storage of goods where identification requires only limited preparation of details	50-100-150	3	
16.2.2 Storage of goods where identification Requires perception of detail 16.2.3 Automatic high bay rack stores	100-150-200	3	
16.2.3.1 Gangway	20		
16.2.3.2 Control station	150-200-300	3	
16.2.3.3 Packing and dispatch	200-300-500	3	
16.2.3.4 Loading bays	100-150-200	3	Avoid glare to drivers of vehicles approaching the loading bay
16.3 Cold stores			
16.3.1 General	200-300-500	3	
16.3.2 Breakdown, make-up and dispatch	200-300-500	3	
16.3.3 Loading bays	100-150-200	3	Avoid glare to drivers of vehicles approaching the loading bay
Types of interior or activity	Range of service	Quality class of direct glare	Remarks

	illuminance in lux	limitation	
17. COMMERCE			
17.1 Offices			
17.1.1 General Offices	300-500-750	1	
17.1.2 Deep plan General offices	500-750-1000	1	
17.1.3 Computer Work station	300-500-750	1	
17.1.4 Conference Rooms, Executive Offices	300-500-750	1	
17.1.5 Computer and data preparation Rooms	300-500-750	1	
17.1.6 Filling rooms	200-300-500	1	
17.2 Drawing Offices	200 500 750	4	
17.2.1 General	300-500-750	1	
17.2.2 Drawing Board	500-750-1000	1	Cassial lighting is
17.2.3 Computer aided design and drafting			Special lighting is required
17.2.4 Print rooms	200-300-500	1	- 4-
17.3 Banks and building societies			
17.3.1 Counter, office area	300-500-750	1	
17.3.2 Public area	200-300-500	1	
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
	lux		
18.SERVICES			
18.1 Garages			
18.1.1 Interior parking areas	20-30-50		
18.1.2 General repairs, servicing,	200-300-500	3	
washing, polishing			
18.1.3 Workbench	300-500-750	2	Local or localized lighting may be
18.1.4 Spray Booths	300-500-750	1	appropriate
18.1.5 External apron	300-300-730	1	
18.1.5.1 General	30-50-100		Care should be taken
			to avoid glare to drivers & neighboring
			residents
18.1.5.2 Pump area (retail details ) 18.2 Appliance servicing	200-300-500	<del></del>	See retailing
18.2.1 Workshop		_	
18.2.1.1 General	200-300-500	2	
18.2.1.2 Workbench	300-500-750	2	localized lighting may be appropriate
18.2.1.3 Counter	200-300-500	2	localized lighting may be appropriate
18.2.1.4 Stores	200-300-500	3	
18.3 Laundries			
18.3.1 Commercial laundries			
18.3.2 Receiving, sorting, washing, drying, Ironing, dispatch, dry-cleaning, bulk Machine work	200-300-500	3	

18.3.3 Head ironing, pressing, mending,	300-500-750	3	
spotting, inspection 18.3.4 Launderettes	200-300-500	3	
18.4 Sewage Treatment Works 18.4.1 Walkways	30-50-100	3	
18.4.2 Process areas	50-100-150	3	
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
19. RETAILING			
19.1 Small Shops with Counters 19.2 Small Self Service shops with island displays	300-500-750 300-500-750	1} 1}	The service illuminance should be provided on the horizontal plane of the counter. Where wall displays are used, a similar illuminance on the walls is desirable
19.3 Supper-Markets , Hyper-Markets			
19.3.1 General	300-500-750	2	
19.3.2 Checkout	300-500-750	2	
19.3.3 Showroom for large objects, for e.g.	300-500-750	1	
Cars, furniture 19.3.4 Shopping precincts and arcades	100 150 200	0	
19.5.4 Shopping precincts and arcades	100-150-200	2	
Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
Types of interior or activity	Range of service illuminance in	Quality class of direct glare	Remarks
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY 20.1 Public rooms, Village Halls, Worship Halls	Range of service illuminance in	Quality class of direct glare	Remarks
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY 20.1 Public rooms, Village Halls, Worship Halls 20.2 Concert Halls, Cinemas and theatres	Range of service illuminance in lux	Quality class of direct glare limitation	Local or localized lighting may be
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY 20.1 Public rooms, Village Halls, Worship Halls 20.2 Concert Halls, Cinemas and theatres 20.2.1 Foyer	Range of service illuminance in lux 200-300-500 150-200-300	Quality class of direct glare limitation	Local or localized
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY 20.1 Public rooms, Village Halls, Worship Halls 20.2 Concert Halls, Cinemas and theatres 20.2.1 Foyer 20.2.2 Booking Office	Range of service illuminance in lux  200-300-500  150-200-300 200-300-500	Quality class of direct glare limitation	Local or localized lighting may be appropriate Dimming facilities will be necessary. Special lighting of the aisles is
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY 20.1 Public rooms, Village Halls, Worship Halls 20.2 Concert Halls, Cinemas and theatres 20.2.1 Foyer 20.2.2 Booking Office  20.2.3 Auditorium	Range of service illuminance in lux  200-300-500  150-200-300 200-300-500	Quality class of direct glare limitation	Local or localized lighting may be appropriate Dimming facilities will be necessary. Special lighting of the aisles is desirable Special mirror lighting for make up may be
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY 20.1 Public rooms, Village Halls, Worship Halls 20.2 Concert Halls, Cinemas and theatres 20.2.1 Foyer 20.2.2 Booking Office  20.2.3 Auditorium  20.2.4 Dressing Rooms  20.2.5 Projection Rooms	Range of service illuminance in lux  200-300-500  150-200-300 200-300-500  50-100-150	Quality class of direct glare limitation	Local or localized lighting may be appropriate Dimming facilities will be necessary. Special lighting of the aisles is desirable Special mirror lighting for make up may be
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY 20.1 Public rooms, Village Halls, Worship Halls 20.2 Concert Halls, Cinemas and theatres 20.2.1 Foyer 20.2.2 Booking Office  20.2.3 Auditorium  20.2.4 Dressing Rooms  20.2.5 Projection Rooms 20.3 Churches	Range of service illuminance in lux  200-300-500  150-200-300 200-300-500  50-100-150  200-300-500	Quality class of direct glare limitation	Local or localized lighting may be appropriate Dimming facilities will be necessary. Special lighting of the aisles is desirable Special mirror lighting for make up may be
Types of interior or activity  20. PLACES OF PUBLIC ASSEMBLY 20.1 Public rooms, Village Halls, Worship Halls 20.2 Concert Halls, Cinemas and theatres 20.2.1 Foyer 20.2.2 Booking Office  20.2.3 Auditorium  20.2.4 Dressing Rooms  20.2.5 Projection Rooms 20.3 Churches 20.3.1 Body of church	Range of service illuminance in lux  200-300-500  150-200-300 200-300-500  50-100-150  200-300-500  100-150-200 100-150-200	Quality class of direct glare limitation	Local or localized lighting may be appropriate Dimming facilities will be necessary. Special lighting of the aisles is desirable Special mirror lighting for make up may be required

## provide emphasis is desirable

			desirable
20.3.5 Vestries	100-150-200	2	
20.3.6 Organ	200-300-500		
20.4 Hospitals			
20.4.1 Anaesthetic Rooms			
20.4.1.1 General	200-300-500		
20.4.1.2 Local	750-1000-1500		
20.4.2 Consulting Area			
20.4.2.1 General	200-300-500		
20.4.2.2 Examination	750-1000-1500		
20.4.3 Corridors			
20.4.3.1 General	100-150-200		
20.4.4 Ward corridors	100 100 200		
20.4.4.1 Day, screened from bays	150-200-300		
20.4.4.2 Day, open to natural light	150-200-300		
20.4.4.3 Morning/evening	100-150-200		
20.4.4.4 Night	5-10		
20.4.5 Cubicles	3-10		
20.4.5.1 General	200-300-500		
20.4.5.2 Treatment	750-1000-1500		
20.4.6 Examination	000 000 500		
20.4.6.1 General	200-300-500		
20.4.6.2 Local inspection	750-1000-1500		
20.4.7 Intensive therapy	00.50		
20.4.7.1 Bad head	30-50		
20.4.7.2 Circulation between bed ends	50-100-150		
20.4.7.3 Observation	200-300-500		
20.4.7.4 Local observation	750-1000-1500		
20.4.7.5 Staff base(day)	200-300-500		
20.4.7.6 Staff base(night)	30		
20.4.8 Laboratories			
20.4.8.1 General	200-300-500		
20.4.8.2 Examination	300-500-750		
20.4.9 Nurses stations			
20.4.9.1 Morning/day/evening	200-300-500		
20.4.9.2 Night desks	30		
20.4.9.3 Night, medical trolleys	50-100-150		
20.4.10 Operating theatres			
20.4.10.1 General	300-500-750		
20.4.10.2 Local	10000 to 50000		Special operating
			lights are used
20.4.11 Pathology department			
20.4.11.1 General	200-300-500		
20.4.11.2 Examination	300-500-750		
20.4.11.3 Pharmacies	200-300-500		
20.4.11.4 Reception/ inquiry	200-300-500		
20.4.11.5 Recovery rooms	200-300-500		
20.4.12 Ward circulation			
20.4.12.1 Day	50-100-150		
20.4.12.2 Morning/evening	50-100-150		
20.4.12.3 Night	3-5		
20.4.13 Ward bed head			
20.4.13.1 Morning/Evening	30-50		
20.4.13.2 Reading	100-150-200		
20.4.14 Night			
•			

20.4.14.2 20.4.14.2 20.4.14.2 20.4.15 20.4.15.2 20.4.15.2	Pediatric Psychiatric Watch X-ray Areas General Diagnostic	0.1-1 1-5 5 150-200-300 150-200-300	  	
20.4.15.3 20.4.15.4 20.4.16		200-300-500 50		
20.4.16. 20.4.16.	1 General	200-300-500 100-150-200		
20.4.17 20.4.17.	Dental Surgeries	Special lighting	<del></del>	
20.4.17. 20.4.18		300-500-750		
20.4.18. 20.4.18.	1 General	200-300-500 300-500-750	 	
20.4.18.		300-500-750		
20.4.18.		300-500-750		
20.5 Hotels				
20.5.2 I	Entrance Halls Reception, cashiers and porters Desks	50-100-150 200-300-500		localized lighting may be appropriate
20.5.3 I	Bars, coffee base, dinning rooms, grill, rooms, estaurants, lounges	50-200		The lighting should be designed to create appropriate atmosphere
20.5.4 C	loak room	50-100-150	3	•
	ed room	30-50-100		Supplementary local lighting at the bed head, writing table should be provided
20.5.6 Ba	athroom	50-100-150		Supplementary local lighting near the mirror is desirable
Ce	ood preparation and stores, ellars, lifts and corridors			See General building areas
20.6 Librarie				
	ding libraries General	200-300-500	1	
	Counters	300-500-750	1	localized lighting may be appropriate
20.6.1.3	Bookshelves	100-150-200	2	The service illuminance should be provided on the vertical surface at the bottom of the book stake
	Reading rooms Reading tables	200-300-500 200-300-500	1 1	Localized lighting may be appropriate
20.6.2 Cat	aloques			oo appropriate
20.6.2.1		100-150-200	2	
20.6.2.2	Microfiche/visual display units	100-150-200	2	

20.6.3 Reference libraries			
20.6.3.1 General	200-300-500	1	
20.6.3.2 Counters	300-500-750	1	Localized lighting may
			be appropriate
20.6.3.3 Bookshelves	100-150-200	2	The service
			illuminance should be
			provided on the
			vertical surface at the
			foot of the book
			shelves
20.6.3.4 Study tables, carrels	300-500-750	1	
20.6.3.5 Map room	200-300-500	1	
20.6.4 Display and exhibition		·	
20.6.4.1 Exhibits insensitive to light	200-300-500		
20.6.4.2 Exhibit sensitive to light, for e.g.			
Pictures, prints, rare books in			
Archives			
20.6.5 Library workrooms			
20.6.5.1 Book repair and binding	300-500-750	2	
20.6.5.2 Catalogue and sorting	300-500-750	2	
20.6.5.3 Remote book stores	100-150-200	3	
20.7 Museums and Art Galleries	.00 .00 _00	•	
20.7.1 Exhibits insensitive to light	200-300-500		
20.7.2 Light sensitive exhibits, for e.g., oil	150		This is a maximum
and temper paints, undyed leather,			illuminance to be
bone, Ivory, wood, etc			provided on the
, , ,			principal plane of the
			object
20.7.3 Extremely light sensitive exhibits,	50		This is a maximum
For e.g., textiles, water colours,			illuminance to be
prints and drawing, skins, botanical			provided on the
specimens, etc.			principal plane of the
			object
20.7.4 Conservation studies and workshops	300-500-750	1	-
20.8 Sports Facilities			
20.8.1 Multi-purpose sports hall	300-750		This lighting system
			should be sufficiently
			flexible to provide
			lighting suitable for
			the variety of sports &
			activities that take
			place in sports halls.
			Higher illuminance of
			1000-2000 lux would
			be required for
			television coverage

Types of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
21 EDUCATION 21.1 Assembly Halls 21.1.1 General 21.1.2 Platform and stage	200-300-500 	3 	Special lighting to

provide emphasis & To facilitate the use of the platform stage is

				the platform stage is desirable
	hing Spaces			
	General	200-300-500	1	
	re Theatres			
	General	200-300-500	1	
21.3.2	Demonstration benches	300-500-750	1	Localized lighting may
				be appropriate
21.4 Sen	ninar Rooms	300-500-750	1	
21.5 Art	Rooms	300-500-750	1	
21.6 Nee	edlework Rooms	300-500-750	1	
21.7 Lab	oratories	300-500-750	1	
21.8 Libr	aries	200-300-500	1	
21.9 Mus	sic rooms	200-300-500	1	
21.10 Spo	ort halls	200-300-500	1	
21.11 Wo	rkshops	200-300-500	1	
	•			
Тур	es of interior or activity	Range of	Quality class	Remarks
•	•	service	of direct glare	
		illuminance in	limitation	
		lux		
22 TRANSP				
22.1 Airpoi			_	
22.1.1	Ticket counters, checking,	300-500-750	2	Localized lighting may
	desks			be appropriate
	And Information desks			
22.1.2	Departure lounges, other waiting	150-200-300	2	
	Areas			
22.1.3	55 5	150-200-300	2	
	Baggage handling	50-100-150	2	
22.1.5	Customers and immigration halls	300-500-750	2	
22.1.6	Concourse	150-200-300	2	
22.2 Railw	vay Stations			
22.2.1	Ticket office	300-500-750	2	Localized lighting
				over the counter may
				be appropriate
22.2.2	Information Office	300-500-750	2	Localized lighting
				over the counter may
				be appropriate
22.2.3	Parcels office, left			
22.2.4	Luggage Office			
22.2	.4.1 General	50-100-150	2	
22.2	.4.2 Counter	150-200-300	2	
22.2.5	Waiting rooms	150-200-300	2	
22.2.6	Concourse	150-200-300	2	
22.2.7	Time table	150-200-300	2	Localized lighting may
				be appropriate
22.2.8	Ticket Barriers	150-200-300	2	Localized lighting may
				be appropriate
22.2.9	Platforms (covered)	30-50-100	2	Care should be taken
0	(22.2.04)		_	to light and mark the
				edge of platform
				clearly
				<b>,</b>

	Platforms (open)	20		Care should be taken to light and mark the edge of platform clearly
22.3 Coach		000 500 750	0	Language at Palation
22.3.1	Ticket offices	300-500-750	2	Localized lighting over the counter may be appropriate
22.3.2	Information offices	300-500-750	2	Localized lighting over the counter may be appropriate
	Left Luggage office		_	
	.3.1 General	50-100-150	3	
22.3	.3.2 Counter	150-200-300	3	Localized lighting is appropriate
22.3.4	Waiting rooms	150-200-300	2	
22.3.5	Concourse	150-200-300	2	
22.3.6	Time Table	150-200-300	2	Local lighting is appropriate
22.3.7	Loading Areas	100-150-200	3	
Тур	es of interior or activity	Range of service illuminance in lux	Quality class of direct glare limitation	Remarks
23 GENEDAL	BUILDING AREAS			
23.1 Entran				
	Entrance Halls, Lobbies, Waiting	150-200-300	2	
20.1.1			,	
		130-200-300	2	
23.1.2	Rooms	300-500-750	2	Localized lighting may
	Rooms Inquiry desks	300-500-750	2	Localized lighting may be appropriate
23.1.3	Rooms Inquiry desks Gatehouses			
23.1.3 23.2 Circula	Rooms Inquiry desks Gatehouses tion Areas	300-500-750 150-200-300	2	
23.1.3 23.2 Circula 23.2.1 L	Rooms Inquiry desks Gatehouses tion Areas ifts	300-500-750 150-200-300 50-100-150	2 2 	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C	Rooms Inquiry desks Gatehouses tion Areas Lifts Corridors, Passageway, stairs	300-500-750 150-200-300 50-100-150 50-100-150	2	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators	300-500-750 150-200-300 50-100-150	2 2 	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment	300-500-750 150-200-300 50-100-150 50-100-150	2 2 	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 (	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750	2 2  2  1	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C	Rooms Inquiry desks  Gatehouses tion Areas .ifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms lest Rooms	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200	2 2  2  1	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.3 M	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Iledical stores	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750	2 2  2  1	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.3 M 23.4 Staff F 23.4.1 C	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Idedical stores Rooms Changing, locker and cleaner	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200	2 2  2  1	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.3 M 23.4 Staff F 23.4.1 C	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 100-150-200	2 2  2  1 1 2	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.3 M 23.4 Staff F 23.4.1 C	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms Changing, locker and cleaner Looms, Cloakrooms, lavatories Rest Rooms Rest Rooms	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 100-150-200 50-100-150	2 2  2  1 1 2	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.2 R 23.3.3 M 23.4 Staff F 23.4.1 C 8 23.4.2 R 23.5 Staff F 23.5.1 C	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms Changing, locker and cleaner Looms, Cloakrooms, lavatories Rest Rooms Restaurant Canteens, cafeterias, dining rooms	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 100-150-200 50-100-150	2 2  2  1 1 2	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.3 M 23.4 Staff F 23.4.1 C R 23.4.2 F 23.5 Staff F 23.5.1 C L 23.5.2 Serve	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms Changing, locker and cleaner Looms, Cloakrooms, lavatories Rest Rooms Rest Rooms Rest Rooms Rest Rooms Rest Rooms	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 100-150-200 50-100-150 100-150-200	2 2  2  1 1 2  1	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.2 R 23.4 Staff F 23.4.1 C R 23.4.2 F 23.5 Staff F 23.5.1 C 23.5.2 Serve	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators Il and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms Changing, locker and cleaner Looms, Cloakrooms, lavatories Rest Rooms Rest Rooms Restaurant Canteens, cafeterias, dining rooms Mess rooms Lery, vegetable preparation, Washing-up area Food preparation and cooking	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 100-150-200 50-100-150 100-150-200 150-200-300	2 2  2  1 1 2  1 2 2 2	
23.1.3 23.2 Circular 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medicar 23.3.2 R 23.3.2 R 23.3.3 M 23.4 Staff F 23.4.1 C R 23.4.2 F 23.5 Staff F 23.5.1 C 23.5.2 Server	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators I and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms Changing, locker and cleaner Looms, Cloakrooms, lavatories Rest Rooms Restaurant Canteens, cafeterias, dining rooms Mess rooms Rery, vegetable preparation, Washing-up area Food preparation and cooking Food stores, cellars	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 50-100-150 100-150-200 150-200-300 200-300-500	2 2  2  1 1 2  1 2	
23.1.3 23.2 Circular 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medicar 23.3.2 F 23.3.3 M 23.4 Staff F 23.4.1 C F 23.4.2 F 23.5 Staff F 23.5.1 C L 23.5.2 Server 23.5.3 23.5.4 23.6 Comm	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators I and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms Changing, locker and cleaner Looms, Cloakrooms, lavatories Rest Rooms Restaurant Canteens, cafeterias, dining rooms Mess rooms Lery, vegetable preparation, Washing-up area Food preparation and cooking Food stores, cellars unications	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 50-100-150 100-150-200 150-200-300 200-300-500 300-500-750 100-150-200	2 2  2  1 1 2  1 2 2 2 2	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.3 M 23.4 Staff F 23.4.1 C 8 23.4.2 F 23.5 Staff F 23.5.1 C 1 23.5.2 Serve 23.5.3 23.5.4 23.6 Comm 23.6.1	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators I and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms Changing, locker and cleaner Looms, Cloakrooms, lavatories Rest Rooms Restaurant Canteens, cafeterias, dining rooms Mess rooms Lery, vegetable preparation, Washing-up area Food preparation and cooking Food stores, cellars Lunications Switchboard rooms	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 50-100-150 100-150-200 150-200-300 200-300-500 300-500-750 100-150-200 200-300-500	2 2 2 1 1 2 1 2 2 2 2 2 2	
23.1.3 23.2 Circula 23.2.1 L 23.2.2 C 23.2.3 E 23.3 Medica 23.3.1 C 23.3.2 R 23.3.3 M 23.4 Staff F 23.4.1 C 8 23.4.2 F 23.5 Staff F 23.5.1 C 23.5.2 Serve 23.5.3 23.5.4 23.6 Comm 23.6.1	Rooms Inquiry desks  Gatehouses tion Areas Lifts Corridors, Passageway, stairs Escalator, travellators I and First aid Centres Consulting Rooms, Treatment Rooms Lest Rooms Ledical stores Rooms Changing, locker and cleaner Looms, Cloakrooms, lavatories Rest Rooms Restaurant Canteens, cafeterias, dining rooms Mess rooms Lery, vegetable preparation, Washing-up area Food preparation and cooking Food stores, cellars unications	300-500-750 150-200-300 50-100-150 50-100-150 100-150-200 300-500-750 100-150-200 50-100-150 100-150-200 150-200-300 200-300-500 300-500-750 100-150-200	2 2  2  1 1 2  1 2 2 2 2	

23.6.3 Telex room, post room	300-500-750	2	
23.6.4 Reprographic room	200-300-500	2	
23.7 Building Services			
23.7.1 Boiler houses			
23.7.1.1 General	50-100-150	3	
23.7.1.2 Boiler front	100-150-200	3	
23.7.1.2 Boiler front 23.7.1.3 Boiler control room	200-300-500	2	Localized lighting of
23.7.1.3 Boiler Control Toom	200-300-300	2	
			the control display
			and the control desk
		_	may be appropriate
23.7.1.4 Control rooms	200-300-500	2	Localized lighting of
			the control display
			and the control desk
			may be appropriate
23.7.1.5 Mechanical plant room	100-150-200	2	
23.7.1.6 Electrical power supply and	100-150-200	2	
distribution Room			
23.7.1.7 Store rooms	50-100-150	3	
23.8 Car Parks			
23.8.1 Covered Car Parks			
23.8.1.1 Floors	5-20		
23.8.1.2 Ramps and Corners	30		
23.8.1.3 Entrances and Exits	50-100-150		
23.8.1.4 Control Booths	150-200-300		
23.8.1.5 Outdoor Car Parks	5-20		
23.0.1.3 Outuoul Cal Parks	5-20		