



GUIDELINES ON
OCCUPATIONAL SAFETY AND HEALTH
FOR LIGHTING AT WORKPLACE
2018



10.0 APPENDICES

Appendix 1: The Lighting Requirement Recommended for Various Rooms and Activities

Type of interior, task or activity	Lux
1. General building areas	
Entrance halls	100
Lounges	200
Circulation areas and corridors	100
Stairs, escalators, travelators	150
Loading ramp/bays	150
Canteens	200
Rest rooms	100
Rooms for physical exercise	300
Cloakrooms, washrooms, bathrooms, toilets	200
Sick bay	500
Rooms for medical attention	500
Plant rooms, switch gear rooms	200
Post room, switchboard	500
Store, stockrooms, cold store	100
Dispatch packing handling areas	300
Control station	150
2. Agriculture building	
Loading and operating of goods handling equipment and machinery	200
Building for livestock	50
Sick animal pens, calving stalls	200
Feed preparation, dairy, utensil washing	200
3. Bakeries	
Preparation and baking	300
Finishing, glazing, decorating	500
4. Cement, concrete , & bricks industry	
Drying	50
Preparation of materials, work on kilns and mixers	200
General machine work	300
Rough forms	300

Type of interior, task or activity	Lux
5. Ceramics and glass industry	
Drying	50
Preparation, general machine work	300
Enameling, rolling, pressing, shaping simple parts, glazing, glass blowing	300
Grinding, engraving, glass polishing, shaping precision parts, manufacture of glass instruments	750
Decorative work	500
Grinding of optical glass, crystal hand grinding and engraving, work on average goods	750
Precision work e.g. decorative grinding, hand painting	1000
Manufacture of synthetic precious stones	1500
6. Chemicals , plastics and rubber industry	
Remote operated processing installations	50
Processing installations with limited manual intervention	150
Constantly manned work places in processing installations	300
Precision measuring rooms, laboratories	500
Pharmaceutical production	500
Tyre production	500
Colour inspection	1000
Cutting, finishing, inspection	750
7. Electrical industry	
Cable and wire manufacture	300
Winding:	
• large coils	300
• medium-sized coils	500
• small coils	750
Coil impregnating	300
Galvanising	300
Assembly work:	
• rough e.g. large transformers	300
• medium e.g. switchboards	500
• fine e.g. telephones	750
• precision e.g. measuring equipm.	1000
Electronic workshops, testing, adjusting	1500



Type of interior, task or activity	Lux
8. Food industry	
Workplaces and zones in breweries, malting floor, for washing, barrel filling, cleaning, sieving, peeling, cooking in preserve and chocolate factories, work places and zones in sugar factories, for drying and fermenting raw tobacco, fermentation cellar	200
Sorting and washing of products, milling, mixing, packing	300
Work places and zones in slaughter houses, butchers, dairies mills, on filtering floor, in sugar refineries	500
Cutting and sorting of fruit and vegetables	300
Manufacture of delicatessen foods, kitchen	500
Manufacture work of cigars and cigarettes	500
Inspection of glasses and bottles, product control, trimming, sorting decoration	500
Laboratories	1000
Colour inspection	
9. Foundries and metal casting plants	
Mansize under floor tunnels, cellars etc.	50
Platforms	100
Sand preparation	200
Dressing room	200
Workplaces at cupola and mixer	200
Casting bay	200
Shake out areas	200
Machine moulding	200
Hand and core moulding	300
Die casting	300
Model building	500
10. Hairdressers	
Hairdressing	500
11. Jewellery manufacturing	
Working with precious stones	1500
Manufacture of jewellery	1000
Watch making (manual)	1500
Watch making (automatic)	500

Type of interior, task or activity	Lux
12. Laundries and dry cleaning	
Goods in, marking and sorting	300
Washing and dry cleaning	300
Ironing, pressing	300
Inspection and repairs	750
13. Leather industry	
Work on vats, barrels, pits	200
Fleshing, skiving, rubbing, tumbling of skins	300
Saddlery work, shoe manufacture stitching, sewing, polishing, shaping, cutting, punching	500
Sorting	500
Leather dyeing machine	500
Quality control	1000
Colour inspection	1000
Shoe making	500
Glove making	500
14. Metal working and processing	
Open die forging	200
Drop forging, welding, cold forming	300
Rough and average machining: tolerances > 0.1 mm	300
Precision machining: grinding: tolerances < 0.1 mm	500
Scribing; inspection	750
Wire & pipe drawing shapes	300
Plate machining >5mm	200
Sheet metalwork <5mm	300
Tool making; cutting equipment manufacture	750
Assembly:	
• rough	200
• medium	300
• fine	500
• precision	750
Galvanizing	300
Surface preparation and painting	750
Tool, template and jig making, precision mechanics, micromechanics	1000



Type of interior, task or activity	Lux
15. Paper industry	
Pulp mills, edge runners	200
Paper manufacture and processing, paper and corrugating machines, cardboard manufacture	300
Standard book binding work, e.g. folding, sorting, gluing, cutting, embossing, sewing	500
16. Power stations	
Fuel supply plant	50
Boiler house	100
Machine halls	200
Auxiliary rooms, e.g pump rooms, condenser rooms, switchboard, etc.	200
Control rooms	500
17. Printers	
Cutting, gilding, embossing, block engraving, work on stones and platens, printing machines, matrix making	500
Paper sorting and hand printing	500
Type setting, retouching, lithography	1000
Colour inspection in multi-coloured printing	1500
Steel and copper engraving	2000
18. Iron and steel works	
Production plants without manual Intervention	50
Production plants with occasional manual operation	150
Production plants with continuous manual operation	200
Slab store	50
Furnaces	200
Mill train, coiler, shear line	300
Control platforms, control panels	300
Test, measurement and inspection	500
Underfloor man sized tunnels belt sections, cellars etc.	50

Type of interior, task or activity	Lux
19. Textile industry	
Workplace and zones in baths, bale opening	200
Carding, washing, ironing, drawing,combing, sizing, card cutting, prespinning, jute and hemp spinning	300
Spinning, plying, reeling, winding warping, weaving, braiding, knitting	500
Sewing, fine knitting, taking up stitches	750
Manual design, drawing patterns	750
Finishing, dyeing	500
Drying room	100
Automatic fabric printing	500
Burling, picking, trimming	1000
Colour inspection, fabric control	1000
Invisible mending	1500
Hat manufacturing	500
20. Vehicle construction	
Body work and assembly	500
Painting, spraying chamber, polishing chamber	750
Painting: touch-up, inspection	1000
Upholstery manufacture (manned)	1000
Final inspection	1000
21. Wood working & furniture industry	
Automatic processing e.g. drying plywood manufacturing	50
Steam pits	150
Saw frame	300
Work at joiner's bench, gluing, assembly	300
Polishing, painting, fancy joinery	750
Work on wood working machines e.g. turning, fluting, dressing, rebating, grooving, cutting, sawing, sinking	500
Selection of veneer woods, maquetry, inlay work	750
Quality control	100



Type of interior, task or activity	Lux
22. Offices	
Filing, copying, circulation, etc.	300
Writing, typing, reading, data processing	500
Technical drawing	750
CAD workstation	500
Conference and meeting rooms	500
Reception desk	300
Archives	200
23. Retailing	
Sales area small	300
Sales area large	500
Till area	500
Wrapper table	500
24. Restaurants and hotels	
Reception/cashier desk, porters desk	300
Kitchen	500
Restaurant, dining room, function room	200
Self-service restaurant	200
Buffet	300
Conference rooms	500
Corridors	100
25. Places of entertainment	
Theatres & concert halls	200
Multipurpose halls	300
Practice rooms, dressing rooms	300
Museums (general)	300
26. Libraries	
Bookshelves	200
Reading area	500
Counters	500

Type of interior, task or activity	Lux
27. Public car parks (indoor)	
In/out ramps (during the day)	300
In/out ramps (at night)	75
Traffic lanes	75
Parking areas	75
Ticket office	300
28. Educational buildings	
Play school room	300
Nursery class	300
Nursery craft room	300
Classrooms, tutorial rooms	300
Classroom for evening classes and adults education	500
Lecture hall	500
Black board	500
Demonstration table	500
Art and craft rooms	500
Art rooms in art schools	750
Technical drawing rooms	750
Practical rooms and laboratories	500
Teaching workshop	500
Music practice rooms	300
Computer practice rooms	500
Language laboratory	300
Preparation rooms and workshops	500
Student common rooms and assembly halls	200
Teachers rooms	300
Sports halls, gymnasiums and swimming pools	300



Type of interior, task or activity	Lux
29. Health care premises	
Waiting rooms	200
Corridors: during the day	200
Corridors: during the night	50
Day rooms	200
Staff office	500
Staff rooms	300
Wards:	
• General lighting	100
• Reading lighting	300
• Simple examination	300
Examination and treatment	1000
Night lighting, observation lighting	5
Bathrooms and toilets for patients	200
Examination room general	500
Ear and eye examination	1000
Reading and colour vision test with vision charts	500
Scanners with image enhancers and television systems	50
Dialysis rooms	500
Dermatology rooms	500
Endoscopy rooms	300
Plaster rooms	500
Medical baths	300
Massage and radiotherapy	300
Pre-op and recovery rooms	500
Operating theatre	1000
Operating cavity	Special lighting
Intensive care:	
• General lighting	100
• Simple examinations	300
• Examination and treatment	1000
• Night watch	20

Type of interior, task or activity	Lux
Dentists:	
• General lighting	500
• At the patient	1000
• Operating cavity	5000
• White teeth matching	5000
Colour inspection (laboratories)	1000
Sterilisation rooms	300
Disinfection rooms	300
Autopsy rooms and mortuaries	500
Autopsy table and dissecting table	5000
30. Airports	
Arrival and departure halls, baggage claim areas	200
Connecting areas, escalators, travelators	150
Information desks, check-in desks	500
Customs and passport control desks	500
Waiting areas	200
Luggage store rooms	200
Security check areas	300
Air traffic control tower	500
Air traffic rooms	500
Testing and repair hangars	500
Engine test areas	500
Measuring areas in hangars	500
Platforms and passenger subways (underpasses)	50
Ticket hall and concourse	200
Ticket and luggage offices and counters	300
Waiting rooms	200
31. Mosques, churches, synagogues and temples	
Body of church	100
Chair, altar, pulpit	300

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