

ROOM ILLUMINATION LEVEL

GENERAL BUILDING AREAS	IES STANDARDS ILLUMINATION LEVEL	MS 1525 RECOMMENDATION	PANDUAN TEKNIK JKR	NOTES
CIRCULATION AREA				
Corridors, Passageway	100	50	100	
Lift	150	100	100	
Stairs	150	100	100	
Escalator	150	150	100	
External Covered Ways	30	50	30	
ENTRANCES				
Entrance halls, lobbies, waiting rooms	150	100	100	
Enquiry desk	500	300	300	
Gate houses	300	200	200	
KITCHENS				
Foods stores	150	150-300	100	
General	500	150-300	300	
OUTDOOR				
Controlled entrance halls or exit gate	150	100	150	
Entrance and exit car park	30	50	30	
Stores, stockyards	30	50	30	
Industrial covered ways	50	50	50	
STAFF RESTAURANTS				
Centre cafeterias, dining room	300	200	300	

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MEDICAL AND FIRST AIDS CENTRES				
Consultant room, treatment areas	500		400	
Medical stores	100		100	
Rest room	150	150	100	
STAFF ROOM				
Changing locker and cleaner's room, cloakrooms lavatories	150	100	150	
Rest rooms	150	150	150	
STORE AND STOCK ROOMS				
Telecommunication board, switchboard rooms			500	
Cordless switchboard	300		300	
Apparatus rooms	150		150	
Tetepriinter rooms	500		500	
AIRCRAFT MAINTENANCE HANGERS				
Aircraft engine testing	750		600	
Inspection and repairs (hanger)	500		500	
BOILER HOUSE GENERAL				
	150		150	
FIRE STATIONS				
Appliance room	300		300	
External apron	30		30	

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GARAGES				
External apron general	50		50	
Pumps	300		200	
Parking areas (interior) general repairs servicing	30		30	
Greasing, pits washing, polishing	500		300	
GAS WORKS				
Exterior walkways and platforms	50		50	
Exterior stairs and ladders	100		50	
Retort house, oil gas plants, watergas plant purifier, indoor coke, screening and handling plants	100		100	
Booster and exhaustor houses	150		150	
GAUGE TOOLS ROOMS				
General	1000		600	
INSPECTION & TESTING SHOP				
Rough work e.g. counting rough Checking of stock parts	300		200	
Medium work e.g. 'go' & 'no go' gauges sub-assemblies	500		400	
Fine work e.g. radio and telecommunication equipment, calibrated scales, precision mechanism, instruments	1000		600	
Very fine work e.g. gauging and inspections of small intricate parts	1500		750	
Minute work e.g. very small instruments	3000		1000	

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LABORATORIES (GENERAL)	750		500	
LAUNDRIES & DRY CLEANING WORKS				
Receiving, sorting, washing, drying, ironing (clending) dispatch, drying cleaning, bulk machine work	300		200	
Hand ironing, pressing, inspection, mending, spotting			300	
MACHINE & FITTING SHOP				
Rough bench and machine work	300		200	
Medium bench and machine work, ordinary automatic machines, rough grinding, medium buffing, polishing	500		400	
Fine bench and machine work, ordinary automatic machines, rough grinding, medium buffing, polishing	1000		500	
PHARMACEUTICAL & FINE CHEMICAL WORKS PHARMACEUTICAL MANUFACTURE				
Grinding, granulating mixing and drying, tableting, sterilizing and washing, preparation of solutions and filling , labeling capping, cartooning, warping	500		300	
Inspection	750		400	
Fine chemical manufacture, plant processing	300		200	
Fine chemical finishing	500		400	
Raw material store	300		200	

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Inspection	750		300	
PRINTING WORKS TYPE FOUNDRIES				
Matrix making, dressing type hand and machine casting	300		300	
Front assembly sorting	750		400	
COMPOSING PRESS				
Hand composing, imposition and distribution	750		500	
Machine. Composition-keyboard	750		500	
Machine composition-casting	300		200	
Proof press	500		300	
Illuminated tables general lighting	300		200	
PRINTING MACHINE ROOM				
Presses	500		300	
Premake ready	500		300	
Printed-sheet inspection	1000		500	
GRAPHIC REPRODUCTION				
General	500		300	
Precision proofing, retouching, etching	1000		500	

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RUBBER PROCESSING FACTORIES				
Preparation needs, dipping molding, compounding calendaring	300		200	
Tyre and tube making	500		300	
SHEET METAL WORKS				
Benchwork, scribing, inspection	750		400	
Pressing, punching, shearing stamping, spinning, folding	500		300	
SLAUGHTER HOUSE				
General	500		300	
Inspection	750		400	
WELDING & SOLDERING SHOP				
Gas and arc welding rough spot welding	300		200	
Medium soldering, brazing spot welding e.g. domestic hand ware	500		300	
Fine soldering, spot welding e.g. instrument	1000		500	
Very fine soldering, spot welding e.g. radio valves	1500		750	
WOODWORKING SHOP				
Rough sawing, benchwork	300		200	
Sizing, planing, rough sanding medium and bench work gluing cooperage	500		300	

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Fine bench and machine work fine sanding, finishing	750		400	
OFFICE				
General office with mainly clerical task and typing office	500	300-400	500	
Deep plan general offices	750	300-400	300	
Business machine and typing	750	300-400	300	
Filling room	300	200	300	
Conference rooms	750	300-400	300	
OFFICES AND SHOPS				
Executive office	500	300-400	300	
Computer rooms	500	300-400	500	
Punch card rooms	750	300-400	600	
Drawing offices drawing boards	750	300-400	600	
Reference table and general	500	300-400	300	
Print room	300	300-400	300	
SHOP				
Conventional with counters	500	200-750	500	
Conventional with wall display	500	200-750	500	
Conventional with wall display	500	200-750	500	
SHOP				
Self service	500	200-750	500	

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Supermarkets	500	200-750	500	
Hypermarkets	500	200-750	500	
General	500	200-750	500	
PUBLIC AND EDUCATIONAL BUILDING ASSEMBLY AND CONCERT HALLS				
Theatre and concert halls	100		100	
Cinemas	50		50	
Multipurpose	500		300	
FURTHER EDUCATION ESTABLISHMENT				
Lecture theatres general	500	300-500	300	
Chalkboard	500	300-500	300	
Demonstration benches	500	300-500	300	
Examination halls, seminar rooms, teaching spaces	500	300-500	300	
Laboratories	500	300-500	300	
FURTHER EDUCATION ESTABLISHMENT				
Workshop	300		300	
Staff rooms, student rooms\students hostels etc				
Gymnasium				
LIBRARIES				
Shelves, book stack	150	300-500	150	

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Reading table	300	300-500	300	
Reading rooms, newspaper and magazines	300	300-500	300	
Reference libraries	500	300-500	500	
Counters	500	300-500	500	
Cataloging and sorting	500	300-500	500	
Binding	500	300-500	500	
Closed book store	100		100	
MUSEUM AND ART GALLERIES GENERAL				
Exhibits insensitive to light	300	300	300	
Light sensitive exhibits	150		150	
Specially light sensitive exhibit	50		50	
SCHOOL				
Assembly halls general	300	300	200	
Platform and stage	special lighting	special lighting	special lighting	
Teaching spaces general	300	300	200	
Teaching spaces general	300	300	200	
General where also used for further education	500	300	300	
Chalkboard	500	300	300	
Beedlework rooms	500	300	300	
Art rooms				
Laboratories	500	300	300	

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Workshop	300	300	200	
Gymnasium	300	300	200	
Music practice rooms	300	300	200	
TRANSPORTS TERMINAL BUILDING				
Airport coach and railway station				
Reception areas (desk) customs and immigration halls	500		300	
Railway stations booking offices	500		300	
Railway station parcel and left luggage offices counters	300		200	
Circulation area	150		100	
Waiting area	300		200	
HOSPITAL				
Ward unit bed heads general	30-50		50	
General	150		local lighting	
Night	0.1			
Nurse station evening	300		300	
Pharmacies dispensing bench	500		300	
Shelves	150			
Reception general	300		200	
Enquiry desk	500		300	
Laboratories	500		300	
Operating theatre suits general	400		500	

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Operating area				
Recovery room and intensive care units	30-50		bedhead	
X-ray department radio- diagnostic and rooms fluoroscopy	500		500	
Dental surgeries				
HOMES				
Living rooms general	50		50	
Casual reading	150		150	
Sewing darningsrudies desk and protuged	300		300	
Bedroom general	50		50	
Bedlead kitchen	150		150	
Kitchen working areas				
Bathrooms	100		100	
Halls and landings	150		150	
Stairs	100		100	
Workshops	300		200	
Garages	50		50	
INDOOR SPORTS AND RECREATIONAL BUILDING				
MULTIPURPOSE SPORTS HALLS				
Athletics, basketball, bowls, judo	300		200	
Hockey	700		500	
BADMINTON COURTS	300		300	

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BILLIARD ROOMS				
General	100		150	
Table	special lighting			
CARD ROOMS	300		300	
GYMNASIA GENERAL	500		300	
SWIMMING POOL				
Top pool	500		300	
Spectator areas	150		150	
Club recreational	300		200	
GENERAL				
Changing rooms showers lookers rooms	150	150	150	
TABLE TENNIS				
Club	300		200	
Recreational	200		200	