

Lighting Levels Per Space

ROOM TYPE / TASKS	TASK OR AREA	FOOT-CANDLE LEVEL (HORIZ.)	MAX, AVG OR MIN	GLARE RATIO	UNIF. RATIO BASIS (HORIZ.)	FOOT-CANDLE LEVEL (VERT.)	MAX, AVG OR MIN	GLARE RATIO	UNIF. RATIO BASIS (VERT.)	*COLOR TEMPERATURE
CLASSROOMS										
CLASSROOMS - AV PRESENT. DEDICATED VIEWING	A	5 @ 2.5FT	AVG	2:1	AVG:MIN	3 FC @ 4FT	AVG	2:1	AVG:MIN	3500K
CLASSROOMS - DEDICATED COMPUTER SCREENS	A	15 @ 2.5FT	AVG	2:1	AVG:MIN	5 @ 4FT	AVG	2:1	AVG:MIN	3500K
CLASSROOMS - HIGHER ED	A	40 @ 2.5FT	AVG	2:1	AVG:MIN	15 @ 4FT	AVG	2:1	AVG:MIN	3500K
CLASSROOMS (SHOPS)										
DETAILED WORK	T	100 @ TS	AVG	-	-	50 @ TASK	AVG	-	-	3500K
HEALTH SCIENCE LAB										
HEALTH SCIENCE LAB - BENCH	T	50 FC @ 3FT	AVG	-	-	30 FC @ 4.5FT	-	-	-	3500K
HEALTH SCIENCE LAB - DEMO AREA	T	75 FC @ 3FT	AVG	3:1	AVG:MIN	50 FC @ 4.5FT	AVG	3:1	-	3500K
PRIVATE OFFICE	T	40 @ TS	AVG	-	-	7.5 @ 5FT	AVG	-	-	3500K
SHARED OFFICE	T	50 @ 2.5FT	MAX	-	-	50 FC @ 4FT	AVG	-	-	3500K
OPEN WORKSTATION	T	50 @ 2.5FT	MAX	-	-	50 FC @ 4FT	AVG	-	-	3500K
MEETING ROOM										
DISCOURSE	A	50 FC @ 3FT	AVG	3:1	AVG:MIN	50 FC @ 4.5FT	AVG	3:1	-	3500K
PRESENTATION SURFACES	T	50 FC @ 3FT	AVG	3:1	AVG:MIN	50 FC @ 4.5FT	AVG	3:1	-	3500K
STUDY HALLS	A	30 @ TS	AVG	2:1	AVG:MIN	20 @ TASK	AVG	2:1	AVG:MIN	3500K
ADMINISTRATION SPACES (INTERVIEWS, CONSULTATION)										
CONVERSATIONAL	A	15 @ 2.5FT	AVG	3:1	AVG:MIN	7.5 FC @ 4.5FT	AVG	3:1	AVG:MIN	3500K
FORMAL	T	40 @ 2.5FT	AVG	3:1	AVG:MIN	15 FC @ 4.5FT	AVG	3:1	AVG:MIN	3500K
LIBRARY										
GENERAL	A	10 @ 0FT	AVG	3:1	AVG:MIN	3 @ 5FT	AVG	2:1	AVG:MIN	3500K
READING HARDCOPY	T	30 @ 2.5FT	AVG	3:1	AVG:MIN	10 @ 4FT	AVG	2:1	AVG:MIN	3500K
GENERAL BOOK STACKS	A	20 @ 0FT	MIN	2:1	AVG:MIN	-	-	-	-	3500K
SHELVING	T	30 @ 3FT	AVG	2:1	AVG:MIN	20 @ TASK	AVG	8:2:1	MAX:AVG:MIN	3500K
BOOK PROCESSING	T	10 @ 2.5FT	AVG	2:1	AVG:MIN	5 @ 5FT	AVG	2:1	AVG:MIN	3500K
PUBLIC COMPUTERS	T	30 @ 2.5FT	AVG	2:1	AVG:MIN	10 @ 4FT	AVG	2:1	AVG:MIN	3500K
COMPUTER TRAINING	T	40 @ 2.5FT	AVG	2:1	AVG:MIN	20 @ 4FT	AVG	2:1	AVG:MIN	3500K
MULTI-PURPOSE ROOM (ASSEMBLY AREAS, AUDIENCE)										
AV PRESENTATION WITH USERS TAKING NOTES	A	5 @ 2.5FT	AVG	2:1	AVG:MIN	1.5 @ 4FT	AVG	2:1	AVG:MIN	3500K
AV PRESENTATION WITHOUT USERS TAKING NOTES	A	1 @ TS	AVG	2:1	AVG:MIN	0.6 @ 4FT	AVG	2:1	AVG:MIN	3500K
STUDY, TESTING (PAPER AND/OR LAPTOP)	A	30 @ TS	AVG	3:1	AVG:MIN	10 @ TASK	AVG	3:1	AVG:MIN	3500K
MULTI-PURPOSE ROOM (OTHER AREAS, FUNCTIONS)										
PRE-EVENT, POST-EVENT, INTERMISSION	A	15 @ 0FT	AVG	3:1	AVG:MIN	7.5 @ 5FT	AVG	3:1	AVG:MIN	3500K
EXHIBITION	A	30 @ 2.5FT	AVG	3:1	AVG:MIN	10 @ 5FT	AVG	3:1	AVG:MIN	3500K
GYMNASIUM, CAFETERIUM	A	30 @ 0FT	AVG	-	-	-	-	-	-	3500K
AUDITORIUMS / LECTURE HALL (AUDIENCE)										
AV AND NOTES	A	5 @ 2.5FT	AVG	2:1	AVG:MIN	1.5 @ 4FT	AVG	2:1	AVG:MIN	3500K
PRESENTATION AND NO NOTES	A	1 @ 0FT	AVG	2:1	AVG:MIN	0.6 @ 4FT	AVG	2:1	AVG:MIN	3500K

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AUDITORIUMS / LECTURE HALL (PRESENTATION AREA)										
SPEAKER OR PANEL	T	30 @ 2.5FT	AVG		-	-	-	-	-	3500K
FACE(S)	T	-	-		-	20 @ 5FT	MIN	2:1	AVG:MIN	3500K
DEMONSTRATION	T	50 @ 3FT	AVG	3:1	AVG:MIN	20 @ 4.5FT	AVG	3:1	AVG:MIN	3500K
GYMNASIUM										
GYMNASIUM	-	150 @ 2.5FT	AVG	1:3:1	MAX:MIN	-	-	-	-	3500K
EXERCISE AND WEIGHT ROOMS	A	15 @ 0FT	AVG	3:1	AVG:MIN	4 @ TASK	AVG	3:1	AVG:MIN	3500K
BREAKROOM										
GENERAL AREA	A	10 @ 2.5FT	AVG	3:1	AVG:MIN	3 FC @ 4FT	AVG	3:1	AVG:MIN	3500K
FOOD PREP, SINKS	T	30 @ 2.5FT	AVG	-		-	-	-	-	3500K
CLEANUP	A	30 @ 2.5FT	MIN	3:1	AVG:MIN	3 FC @ 4.5FT	AVG	3:1	AVG:MIN	3500K
BACK OF HOUSE										
RESTROOM	A	10 @ 0FT	AVG	3:1	AVG:MIN	3 @ 3.5FT	AVG	2:1	AVG:MIN	3500K
LOCKER ROOMS	A	10 @ TS	AVG	3:1	AVG:MIN	5 @ TASK	AVG	2:1	AVG:MIN	3500K
LACTATION ROOM	A	5 @ 0FT	AVG	3:1	AVG:MIN	3 @ 3.5FT	AVG	2:1	AVG:MIN	3500K
JANITOR CLOSET	A	10 @ 0FT	AVG	3:1	MAX:AVG	4 @ 5FT	AVG	3:1	MAX:AVG	3500K
AV CLOSET	T	15 @ 1.5FT	AVG	2:1	AVG:MIN	10 @ 4FT	AVG	2:1	AVG:MIN	3500K
ELECTRICAL & MECHANICAL ROOMS	A	30 @ 2.5FT	AVG	-	-	30 @ 1.5FT	AVG	-	-	3500K
TELECOMMUNICATIONS ROOM										
IT EQUIPMENT ROOM (CPUs SERVERS, SWITCHES)	A	10 @ 0FT	AVG	2:1	AVG:MIN	10 @ TASK	AVG	2:1	AVG:MIN	3500K
IT EQUIPMENT SERVICE	T	50 @ 2.5FT	AVG	2:1	AVG:MIN	20 @ TASK	AVG	2:1	AVG:MIN	3500K
STORAGE										
SMALL ITEMS	A	20 @ 0FT	AVG	3:1	AVG:MIN	10 @ 4FT	AVG	3:1	AVG:MIN	3500K
MEDIUM ITEMS	A	10 @ 0FT	AVG	3:1	AVG:MIN	7.5 @ 4FT	AVG	3:1	AVG:MIN	3500K
LARGE ITEMS, INFREQUENT USE	A	5 @ 0FT	AVG	3:1	AVG:MIN	2 @ 4FT	AVG	3:1	AVG:MIN	3500K
COPY ROOM, PRINT ROOM										
GENERAL	A	10 @ 0FT	AVG	3:1	AVG:MIN	3 @ 5FT	AVG	-	-	3500K
MACHINES	T	30 @ TS	AVG	2:1	AVG:MIN	10 @ TASK	AVG	3:1	3:1	3500K
PRINTED MATERIAL INSPECTION, REVIEW	T	50 @ TS	AVG	2:1	AVG:MIN	-	-	-	-	3500K
MAIL ROOMS										
GENERAL	A	10 @ 0FT	AVG	3:1	AVG:MIN	4 @ 5FT	AVG	3:1	AVG:MIN	3500K
SECURITY INSPECTION	T	100 @ 3.5FT	AVG	3:1	AVG:MIN	30 @ 3.5FT	AVG	-	-	3500K
SORTING	A	30 @ 2.5FT	AVG	3:1	AVG:MIN	7.5 @ 4FT	AVG	3:1	AVG:MIN	3500K
VESTIBULES, ENTRIES (MAIN BUILDING ENTRANCE)										
DAY	A	15 @ 0FT	AVG	4:1	AVG:MIN	7.5 @ 5FT	AVG	4:1	AVG:MIN	3500K
NIGHT	A	4 @ 0FT	AVG	4:1	AVG:MIN	2 @ 5FT	AVG	4:1	AVG:MIN	3500K
VESTIBULES, ENTRIES (SECONDARY BUILDING ENTRANCE)										
DAY	A	10 @ 0FT	AVG	4:1	AVG:MIN	5 @ 5FT	AVG	4:1	AVG:MIN	3500K
NIGHT	A	5 @ 0FT	AVG	4:1	AVG:MIN	3 @ 5FT	AVG	4:1	AVG:MIN	3500K
LOBBY (CIRCULATION, ELEVATOR LOBBIES)										

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RECEPTION DESK	T	15 @ 3.5FT	AVG	4:1	AVG:MIN	2 @ 3.5FT	AVG	4:1	AVG:MIN	3500K
SECURITY SCREENING	T	20 @ 3FT	AVG	2:1	AVG:MIN	10 @ 5FT	AVG	2:1	AVG:MIN	3500K
LOBBY (LOUNGES)										
READING AREAS, WORK AREAS	T	30 @ 2.5FT	AVG	-	-	15 @ 5FT	AVG	-	-	3500K
LEISURE READING	T	20 @ 2.5FT	AVG	-	-	10 @ 2.5FT	AVG	-	-	3500K
SOCIAL, WAITING	A	10 @ 2.5FT	AVG	3:1	AVG:MIN	5 @ 2.5FT	AVG	3:1	AVG:MIN	3500K
TRANSITIONAL SPACES										
CORRIDORS (ENCLOSED PASSAGEWAYS)	A	5 @ 0FT	AVG	3:1	AVG:MIN	3 @ 5FT	AVG	2:1	AVG:MIN	3500K
ELEVATOR THRESHOLD	T	10 @ 0FT	AVG	2:1	AVG:MIN	-	-	-	-	3500K
STAIRS	A	10 @ 0FT	AVG	2:1	AVG:MIN	5 @ 5FT	AVG	2:1	AVG:MIN	3500K
EXTERIOR CORRIDORS (ADJACENT TO BUILDING, EXITS, HARDSCAPE)										
MINIMUM	A	1 @ 0FT	-	8:1	AVG:MIN	-	-	-	-	3500K
MAXIMUM	A	4 @ 0FT	-	8:1	AVG:MIN	-	-	-	-	3500K
BUILDING EXTERIOR (GENERAL AND ADJACENT TO LANDSCAPE)										
MINIMUM	A	1 @ 0FT	-	8:1	AVG:MIN	-	-	-	-	3500K
MAXIMUM	A	3 @ 0FT	-	8:1	AVG:MIN	-	-	-	-	3500K
PARKING GARAGE ENTRY ZONE										
DAYTIME	-	50 @ 0FT	MIN	10:1	MAX:MIN	25 @ 5FT	MIN	10:1	MAX:MIN	3500K
NIGHTTIME	-	1 @ 0FT	MIN	10:1	MAX:MIN	0.5 @ 5FT	MIN	10:1	MAX:MIN	3500K
PARKING GARAGE (RAMPS, DRIVE AISLES, PARKING AREAS)										
ACTIVE (MOTION SENSED)	-	1 @ 0FT	MIN	10:1	MAX:MIN	0.5 @ 5FT	MIN	10:1	MAX:MIN	3500K
INACTIVE (NO MOTION DETECTED)	-	0.2 @ 0FT	MIN	10:1	MAX:MIN	0.1 @ 5FT	MIN	10:1	MAX:MIN	3500K
PARKING LOTS (AND TOP FLOOR OF GARAGES)										
GENERAL PRE-CURFEW (PEDESTRIAN & VEHICLE)	-	1 @ 0FT	MIN	15:1	MAX:MIN	0.5 @ 5FT	MIN	15:1	MAX:MIN	3500K
GENERAL POST-CURFEW (PEDESTRIAN & VEHICLE)	-	2 @ 0FT	MIN	15:1	MAX:MIN	0.1 @ 5FT	MIN	15:1	MAX:MIN	3500K
ALL PARKING LOTS (DRIVE AISLES / PARKING AREAS)	-	0.2 @ 0FT	MAX:MIN	20:1	MAX:MIN	0.1 @ 5FT	MIN	20:1	MAX:MIN	3500K

NOTES:

*COLOR TEMPERATURE TO BE CONFIRMED IN PPC AND OPR

ROOM TYPE / TASKS: describe locations, task and required visual levels for each task.

UNIFORM RATIO BASIS: Comparison of light levels across space to ensure it is evenly lit.

GLARE RATIO: Ratio between the luminance of the light source and the background to ensure the design doesn't cause discomfort from the light fixtures.

PARKING LOTS PRE&POST CURFEW:

Pre-curfew: Open to public and official users

Post-curfew: Official users only