

## Required Light Levels

### RESIDENCES

AREAS - ACTIVITIES	TYPE OF WORK	Recommended Lux - (Minimum Lux)
Reception areas (living rooms)	(General)	150
	(Localized: reading, writing, etc)	1000 – (500)
Kitchens	(General)	150
	(Localized: sink, table)	500 – (250)
Bedrooms	(General)	150
	(Localized: mirrors, children beds)	200 – (70)
Corridors – staircases– garage	(General)	150
	(Localized)	500 – (250)



### HOTELS - RESTAURANTS

AREAS - ACTIVITIES	TYPE OF WORK	Recommended Lux - (Minimum Lux)
Bedrooms	(General)	150
	(Localized: beds)	500 – (250)
	(Localized: offices)	500 – (250)
Kitchens		500 – (250)
Large areas: press conference areas - restaurant - bar		150
Large areas: exhibition halls		500 – (250)
Bathrooms	(General)	150
	(Supplementary lighting: mirrors)	500 – (250)
Halls – staircases etc.		150



### OFFICES - BUSINESS

AREAS - ACTIVITIES	TYPE OF WORK	Recommended Lux - (Minimum Lux)
Accounting office - typists		1000 – (500)
Offices in general		500 – (250)
Drawing rooms	(General lighting)	150
	(Localized lighting)	1000 – (500)
Waiting rooms		400 – (150)
Conference halls		500 – (250)



### SHOPS

AREAS - ACTIVITIES	TYPE OF WORK	Recommended Lux - (Minimum Lux)
Down-town shop windows	(General)	2000 – (1000)
	(Supplementary with spots)	10000 – (5000)
Shop windows in other areas	(General)	1000 – (500)
	(Supplementary with spots)	5000 – (2500)
Indoor lighting for city shops		1000 – (500)
Indoor lighting for other areas		500 – (250)





**HOSPITALS**

AREAS - ACTIVITIES	TYPE OF WORK	Recommended Lux - (minimum Lux)
Doctors' offices	(General lighting)	150
Doctors' offices	(Working table)	1000 – (500)
Waiting areas		150
Bathrooms	(General)	200 – (100)
	(Mirror)	400 – (200)
Library		500 – (250)
First aid ward	(Localized)	1000 – (500)
	(General)	20000 –(10000)
Corridors - staircases		150
Kitchen		500 – (250)
Laboratory	(Research areas)	500 – (250)
Laboratory	(Working table)	1000 – (500)
Operating room	(General)	1000 – (500)
	(Working table)	40000 –(20000)
	(X-ray ward) adjustable lighting	0 - 100 –(0 - 50)
Dentistry	(General)	500 – (250)
	(Chair)	10000 – (5000)
Maternity ward	(Delivery bed)	10000 – (5000)
	(Deliver area) general	500 – (250)
	(Infant and waiting area)	200 – (100)
Patient rooms	(General)	150
	(Localized lighting: beds)	500 – (250)



**SCHOOLS**

AREAS - ACTIVITIES	TYPE OF WORK	Recommended Lux - (Minimum Lux)
Nursery schools		200 – (100)
Elementary schools		400 – (200)
High schools	(Teaching rooms)	500 – (250)
	(Research areas - laboratories)	600 – (300)
	(Auxiliary areas)	300 – (150)
Technical Schools	(Teaching rooms)	500 – (250)
	(Drawing rooms)	1000 – (500)
	(Laboratories)	500 – (250)



**MUSEUMS**

AREAS - ACTIVITIES	Recommended Lux - (Minimum Lux)
General	150
Supplementary lighting for paintings	400 – (200)
Supplementary lighting for sculptures and other objects	1000 – (500)

**BUS, TRAIN, UNDERGROUND STATIONS, AIRPORTS**

AREAS - ACTIVITIES	Recommended Lux - (Minimum Lux)
Waiting rooms	150
Ticket booths and offices	1000 – (500)
Canteens	150
Platforms	150



**PARKING STATIONS**

AREAS - ACTIVITIES	Recommended Lux - (Minimum Lux)
Garage (general lighting)	500 – (250)
Working table	1000 – (500)
Lubrication area	500 – (250)
Washing area	500 – (250)
Parking area	150
Car showroom	1000 – (500)



**STADIUMS**

AREAS - ACTIVITIES	Recommended Lux - (Minimum Lux)
Football - Handball	750
Basketball - Volleyball	750
Swimming	300



**PROFESSIONAL AREAS**

AREAS - ACTIVITIES	Recommended Lux - (Minimum Lux)
<b>DRY-CLEANING SHOPS</b>	
General works	500 – (250)
Laundries	500 – (250)
Machine areas	1000 – (500)
Inspection areas	2000
<b>BAKERIES</b>	
Kneading area	400 – (200)
Preparation area	400 – (200)
Packaging area	300 – (150)
Product exhibition area	500 – (250)
<b>PRINTING - LITHOGRAPHY WORKSHOPS</b>	
Press preparation, corrections, etc	1000 – (500)
Color checking	2000



**INDUSTRIES**

**AREAS - ACTIVITIES**

**Recommended Lux  
- (Minimum Lux)**



**PAPER INDUSTRIES**

Final control	1000 – (500)
Other works	500 – (250)
Warehouses	150

**LEATHER FACTORIES**

Leather processing	2000 – (1000)
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**GLASS MANUFACTURING - COLOR PRODUCTION FACTORIES**

General lighting	500 – (250)
Control	2000 – (1000)



**SHOE FACTORIES**

Shoe processing	2000 – (1000)
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**SOAP FACTORIES**

General works	150
Checks - packaging	500 – (250)

**CERAMIC INDUSTRIES**

General works	150
Color works	1000 – (500)



**CHEMICAL INDUSTRIES**

Furnaces, kilns, boilers, etc.	300 – (150)
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**FOOD INDUSTRIES**

Cleaning, washing	500 – (250)
Conveyor belts	500 – (250)
Canning area (inspection)	2000 – (1000)
Other areas	500 – (250)



**MILK INDUSTRIES**

Sterilization, cooling, cream preparation areas, etc.	1000 – (500)
Bottle washing, bottle filling inspection	1000 – (500)
Weighing areas	250 – (500)
Laboratories	1000 – (500)

**FOUNDRIES**

Molding construction (operational works)	1000 – (500)
Molding construction (heavy processing)	500 – (250)
Inspection areas for delicate works	2000 – (1000)
Inspection areas for other works	1000 – (500)



**SILK - SYNTHETIC INDUSTRIES**

Light color fibers	400 – (200)
Very dark color fibers	1500 – (750)

**WOOL INDUSTRIES**

Processing areas	400 – (200)
Inspection areas	800 – (400)

**TOBACCO INDUSTRIES**

Areas with processing and configuration machines	800 – (400)
Production inspection areas	2000 – (1000)

**INDUSTRIES**

**AREAS - ACTIVITIES**

**Recommended Lux  
- (Minimum Lux)**

<b>AUTOMOTIVE INDUSTRY</b>	
Chassis manufacturing	500 – (250)
Components preparation	1000 – (500)
Inspection area	2000 – (1000)
<b>ELECTRICITY PRODUCTION STATIONS</b>	
Cabinets	1000 – (500)
Other areas	150
<b>AERONAUTICS</b>	
Aircraft workshops	1000 – (500)
<b>SHIPYARDS</b>	
Assembly areas	500 – (250)
Transport areas, bridge cranes	150
Areas for other works	1000 – (500)
<b>INDUSTRY WAREHOUSES</b>	
a) Bulk storage	100 – (50)
b) Storage of small pieces	200 – (100)
c) Storage of very small pieces	400 – (200)



**WORKSHOPS**

**AREAS - ACTIVITIES**

**Recommended Lux  
- (Minimum Lux)**

<b>SEWING AREAS</b>	
Light colored fabrics	150 – (100)
Dark colored fabrics	1000 – (250)
<b>DYEING AREAS</b>	
General works	1000 – (500)
Special works and control	2000 – (1000)
<b>REPAIR SHOPS</b>	
A) Work with bulk pieces	100
B) Work with medium sized pieces	500, 250
C) Work with fine pieces	1000, 500
D) Work with very fine pieces	2000, 1000
} Localized and general Lighting respectively	
<b>METALLURGICAL WORKS</b>	
General works	500 – (250)
Product control areas	1000 – (500)
<b>WOOD WORKS</b>	
Operational	1000 – (500)
Common	500 – (250)
<b>SUGAR LABORATORIES</b>	
Color control	2000 – (1000)
Centrifuges – purification	1000 – (500)
Various works	500 – (250)
Warehouses	150

