



Annex I

Illuminance Ranges Recommended According to Activities Performed

Type of Activity	Illuminance Category	Illuminance Ranges		Reference to Work Layout
		Lux	Footcandle	
¹ Public spaces with dark areas around them	A	20-30-50	2-3-5	General illumination in open spaces
Simple orientation for short visits	B	50-75-100	5-7.5-10	
Work spaces where visual tasks are occasionally demanding	C	100-150-200	10-15-20	
Performance of visual tasks with large size, high contrast	D	200-300-500	20-30-50	
Performance of visual tasks with small size, medium contrast	E	500-750-1000	50-75-100	Illumination located over workstation
Performance of visual tasks of low contrast or small sizes.	F	1000-1500-2000	100-150-200	
Performance of visual tasks of very small size, low contrast for prolonged periods of time	G	2000-3000-5000	200-300-500	Illumination located over workstation achieved with a general and localized combination (supplementary illumination)
Performance of precise and very prolonged visual Tasks	H	5000-7500-10000	500-750-1000	
Performance of very special tasks with extremely low contrast and very small size	I	10000-15000-20000	1000-1500-2000	

¹Applicable to temporary campsite requirements.

Annex II

Levels of Illumination per Type of Interior

Functional Area	Illuminance Category	Recommended Illumination Level		Reference on the Recommended Task Plan
		Footcandle	Lux	
General Specific Interiors				
Banks				
General	A	10-20	100-200	General Illumination
Office Area	D	20-50	200-500	
Cashiers	E	50-100	500-1000	
Clinics				
Examination Tables	E	50-100	500-1000	Illumination achieved with general and supplementary lighting
Emergency Rooms	E	50-100	500-1000	
Laboratories	E	50-100	500-1000	
Medical Records	E	50-100	500-1000	
Storage	A	20	200	General Illumination
Waiting Rooms	A	10-20	100-200	
Offices				
Areas with no critical or prolonged visual tasks	A	10-20	100-200	Illumination of task area
Reading and writing with good paper and ink; filing and regular office tasks	D	20-50	200-500	
Accounting, drawing	D	50	500	
Schools and Libraries				
Libraries	D	50	500	Illumination of task area
General Classrooms	D	30	300	
Auditoriums	A	10	100	General Illumination
Stores				
Circulation Areas	A	10	100	General Illumination
Storage rooms	D	20	200	
Sales Areas	D	30	300	Illumination of task area
Industrial Interiors				
Assembly				Illumination of task area
Simple easy vision	D	20-30	200-300	
Moderate difficult vision	E	50-75	500-750	
Difficult	F	100-150	1000-1500	

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Automobile Garage				
General	A	20-30	200-300	Illumination of task area
Repairs	E	50-75	500-750	
Inspection				
Ordinary	D	20-30	200-300	Illumination of task area
Moderate	E	50-75	500-750	
Difficult	F	100-150	1000-1500	
Storage rooms and warehouses				
Inactive	B	5-10	50-100	General Illumination
Active	C	10-20	100-200	
Material Handling				
Task Area	D	20-30	200-300	Illumination of task area
Loading	C	10-20	100-200	General Illumination
Universal Interiors or Unspecified Areas				
Stairs, hallways and elevators	A	5-10	50-100	General Illumination
Restrooms and dressing rooms	C	10-20	100-200	
General illumination	C	10-20	100-200	

ANNEX III

Safe Illumination Levels in Case of Emergency*

Level of Danger	Slight		High²	
	Low	High	Low	High
Normal Activity Level ¹				
Illuminance				
Lux	5.4	11	22	54
Footcandle	0.5	1	2	5

*Minimum illuminance for the safety of persons. It is the absolute minimum at any time and space, over any plane where safety relates to visual conditions.

¹Special conditions may require different illuminance values. For example, in cases in which safety is a factor and certain colors must be identified, more elevated levels of illuminance may be required. On the other hand, in other cases, lower illuminance levels may be required, even total darkness, especially in situations where the manufacture, handling and even the use of light sensitive materials or processes are involved.

² An obstacle in exit patterns shall be considered as highly dangerous.