LIGHTING LAYOUT CHEAT SHEET

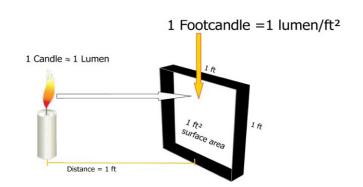


FOOT-CANDLE:

is a unit of brightness that is equivalent to the light produced by one candle.

Used to express the intensity of light illuminating a given area. One foot-candle is the intensity of a 1-candle at a distance of one foot. A foot-candle equals 1 lumen per square foot.

For a list of Foot-candles recommended per room type, see next page.



REFLECTANCE:

Reflectance measures the amount of visible and usable light that reflects from (or absorbs into) a painted surface. Simply put, it measures the percentage of light a paint color reflects. The lighter the colour, the higher the reflectance (%) is.

COLOUR	REFLECTANCE
WHITE	70 - 90%
IVORY AND CREAM	55 - 71%
LIGHT YELLOW	65 - 70%
LIGHT BUFF	40 - 56%
LIGHT GREEN	40 - 50%
MEDIUM GREEN	15 - 30%
ORANGE	15 - 30%
MEDIUM BLUE	15 - 20%
DARK BLUE	5 - 10%
MEDIUM GRAY	15 - 30%
RED AND MAROON	5 - 18%
MEDIUM AND DARK BROWN	3 - 18%
BLACK	1 - 4%

IES Foot-Candle Recommendations for Different Room Types:



All plane Manufacturing	
Drilling, riveting, screw fastening	75
Final assemble, hangar	100
la ava a attava	FO 200

Assembly

20-50
50-100
100-200
200-500
500-1000

Auditoriums

Social activities	5-10
Assembly only	10-20
Exhibitions	10-20

Automobile Manufacturing

Final assembly, finishing, inspecting	200
Body & chassis assembly	100
Body parts manufacturing	100
Frame assembly	

Banks

Lobby general	10-50
Writing areas	20-70
Teller stations, posting & keypunch	50-150

Barber Shops

Beauty Parlors	50-100
Chemical Works	30

Clothing Manufacturer

Receiving, storing, shipping,	
winding, measuring	20-50
Pattern making, trimming	50-100
Shops, marking	50-200
Cutting, pressing	100-500
Sewing, inspection	200-500

Electrical Equipment Manufacturing

Impregnating	20-50
Insulating coil winding, testing	

Food Service Facilities

Cashier	20-50
Cleaning	10-20
Dining	5-20
Food displays	30-100
Kitchen	

Foundries

Annealing furnaces	20-50
Cleaning	20-50
Core making	50-200

Inspection

-500
)-100
-200
-100

Garages-Motor Vehicles

Traffic Lanes

Parking garage	10
Service garage	
Entrances	
Repair area	50-100

Gymnasiums

Assembliesl	0
General exercise & recreation3	0
Exhibitions, matches5	0

Hospitals

Rooms	10-30
Corridors	5-30
Emergency rooms	50-100
Operating rooms	100-200

Hotels

Bathrooms	20-50
Bedrooms for reading	20-50
Corridors, elevators and stairs	10-20
Front desk	50-100

Linen room

Sewing	100-200
General	10-20

Lobby

General lighting	10-20
Reading and	
working greas	20-50

Iron & Steel Manufacturing

Stock, hot top, checker	
cellar, calcining	10-30
Building, slag pits, stripping yard	20
Control platforms, repairs,	
mixer building	30
Rolling mills	30-50
Shearing	50
Tin plate	50
Motor room, machine room	30
Inspection	100

IES Foot-Candle Recommendations for Different Room Types:



Laundries		Schools	
Washing	20-50	Reading	20-10
Ironing		Typing	
. 3		Demonstrations	100-20
Library		Sewing	20-10
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Ordinary reading, stacks		Sheet Metal Works	
Book repair and binding	20-50	General	10
Study & notes, cataloging,	00.100	Tin plate inspection,	
card files, check desk	20-100	galvanized, scribing	100-20
Machine Shops			
	00.50	Stores	
Rough bench	20-50	Circulation area stockroom	10-3
Medium bench, rough	50.100	Merchandising, serviced	
grinding, buffing		Merchandising, self-service	
Fine bench and work	200-500(a)	Grocery	
Materials Handling		,	
•	10.00	Textile Mills	
_oading trucking		Cotton picking, carding,	
Picking stock classifying		roving, spinning	5
Wrapping, packing, labeling	20-50	Beaming & slashing	
066		Drawing	
Offices		Others	
Accounting	50-100		
Audio-visual areas	20-50	Warehousing, Storage	
Conference areas	20-70		
Corridors, stairways	20(k)	Inactive	5-1
Drafting	50-200	Active:	10.0
General and private offices		Rough bulky	
_obbies, lounges and		Medium	
eception areas	0-20	Fine	20-5
Mail sorting	50-100		
Off-set printing and		Welding	
duplicating area	20-50	General	20-5
Spaces with VDT's			
Daint Shan		Woodworking	
Paint Shop		Rough sawing and bench work	20-5
Spraying, rubbing,		Sizing, planing, rough sanding,	
nand art, stencil	20-50	medium quality machine and	
Fine hand painting & finishing	50-100	bench work, gluing,	
		veneering, cooperage	20-50
Paper Manufacturing		Fine bench and machine work,	
- Beaters, grinding	20-50	fine sanding and finishing	50-10
-inishing, cutting			
		Swimming Pools	
Hand couting		•	10.
Paper manchine reel, inspection Rewinder		Exhibitions Recreational	
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Printing		Ice Hockey	
Photo engraving,		College and Professional	10
etching. blocking	20-50	Amateur League	
Color inspecting		5	
Presses			
Proofreading			
Composing room			