

Recommended Foot Candle Requirements

<p>The following selected footcandle ranges represent the Illuminating Engineer Society's (IES) current illuminance recommendations. Individual applications will determine exact footcandle levels. Please refer to the IES Lighting Handbook for more detailed evaluation.</p>		
<p>Airplane Manufacturing</p> <p>Drilling, riveting, screw fastening.....75</p> <p>Final assemble, hangar.....100</p> <p>Inspection.....50-200</p> <p>Welding.....50</p> <p>Assembly</p> <p>Rough easy seeing.....20-50</p> <p>Rough difficult seeing.....50-100</p> <p>Medium.....100-200</p> <p>Fine.....200-500(a)</p> <p>Extra fine.....500-1000(a)</p> <p>Auditoriums</p> <p>Social activities.....5-10</p> <p>Assembly only.....10-20</p> <p>Exhibitions.....10-20</p> <p>Automobile Manufacturing</p> <p>Final assembly, finishing, inspecting.....200</p> <p>Body & chassis assembly.....100</p> <p>Body parts manufacturing.....100</p> <p>Frame assembly.....50</p> <p>Banks</p> <p>Lobby general.....10-50</p> <p>Writing areas.....20-70</p> <p>Teller stations, posting & keypunch.....50-150</p> <p>Barber Shops</p> <p>Beauty Parlors.....50-100</p> <p>Chemical Works.....30</p> <p>Clothing Manufacturer</p> <p>Receiving, storing, shipping, winding, measuring.....20-50</p> <p>Pattern making, trimming.....50-100</p> <p>Shops, marking.....50-200</p> <p>Cutting, pressing.....100-500(a)</p> <p>Sewing, inspection.....200-500(a)</p> <p>Electrical Equipment Manufacturing</p> <p>Impregnating.....20-50</p> <p>Insulating coil winding, testing.....50-100</p> <p>Food Service Facilities</p> <p>Dining areas</p> <p>Cashier.....20-50</p> <p>Cleaning.....10-20</p> <p>Dining.....5-20</p> <p>Food displays.....30-100</p> <p>Kitchen.....50-100</p> <p>Foundries</p> <p>Annealing furnaces.....20-50</p> <p>Cleaning.....20-50</p> <p>Core making.....50-200</p> <p>Inspection</p> <p>Fine.....100-500</p> <p>Medium.....50-100</p> <p>Molding.....50-200</p> <p>Pouring, sorting.....50-100</p>	<p>Garages-Motor Vehicles</p> <p>Storage.....5</p> <p>Traffic Lanes</p> <p>Parking garage.....10</p> <p>Service garage.....10-20</p> <p>Entrances.....50</p> <p>Repair area.....50-100</p> <p>Gymnasiums</p> <p>Assemblies.....10</p> <p>General exercise & recreation.....30</p> <p>Exhibitions, matches.....50</p> <p>Hospitals</p> <p>Rooms.....10-30</p> <p>Corridors.....5-30</p> <p>Emergency rooms.....50-100</p> <p>Operating rooms.....100-200</p> <p>Hotels</p> <p>Bathrooms.....20-50</p> <p>Bedrooms for reading.....20-50</p> <p>Corridors, elevators and stairs.....10-20</p> <p>Front desk.....50-100</p> <p>Linen room</p> <p>Sewing.....100-200</p> <p>General.....10-20</p> <p>Lobby</p> <p>General lighting.....10-20</p> <p>Reading and working areas.....20-50</p> <p>Iron & Steel Manufacturing</p> <p>Stock, hot top, checker</p> <p>cellar, calcining.....10-30</p> <p>Building, slag pits, stripping yard.....20</p> <p>Control platforms, repairs,</p> <p>mixer building.....30</p> <p>Rolling mills.....30-50</p> <p>Shearing.....50</p> <p>Tin plate.....50</p> <p>Motor room, machine room.....30</p> <p>Inspection.....100</p> <p>Laundries</p> <p>Washing.....20-50</p> <p>Ironing.....20-100</p> <p>Library</p> <p>Ordinary reading, stacks.....20-50</p> <p>Book repair and binding.....20-50</p> <p>Study & notes, cataloging, card files, check desk.....20-100</p> <p>Machine Shops</p> <p>Rough bench.....20-50</p> <p>Medium bench, rough grinding, buffing.....50-100</p> <p>Fine bench and work.....200-500(a)</p> <p>Materials Handling</p> <p>Loading trucking.....10-20</p> <p>Picking stock classifying.....20-50</p> <p>Wrapping, packing, labeling.....20-50</p> <p>Offices</p> <p>Accounting.....50-100</p> <p>Audio-visual areas.....20-50</p> <p>Conference areas.....20-70</p> <p>Corridors, stairways.....20(k)</p> <p>Drafting.....50-200</p> <p>General and private offices.....50-100</p> <p>Lobbies, lounges and reception areas.....0-20</p>	<p>Mail sorting.....50-100</p> <p>Off-set printing and duplicating area.....20-50</p> <p>Spaces with VDT's.....75</p> <p>Paint Shop</p> <p>Spraying, rubbing, hand art, stencil.....20-50</p> <p>Fine hand painting & finishing.....50-100</p> <p>Paper Manufacturing</p> <p>Beaters, grinding.....20-50</p> <p>Finishing, cutting.....50-100</p> <p>Hand cutting.....50-100</p> <p>Paper machine reel, inspection.....100-200</p> <p>Rewinder.....100-200</p> <p>Printing</p> <p>Photo engraving, etching, blocking.....20-50</p> <p>Color inspecting.....100-200</p> <p>Presses.....50-100</p> <p>Proofreading.....100-200</p> <p>Composing room.....50-100</p> <p>Schools</p> <p>Reading.....20-100</p> <p>Typing.....20-100</p> <p>Demonstrations.....100-200</p> <p>Sewing.....20-100</p> <p>Sheet Metal Works</p> <p>General.....100</p> <p>Tin plate inspection, galvanized, scribing.....100-200</p> <p>Stores</p> <p>Circulation area stockroom.....10-30</p> <p>Merchandising, serviced.....30-100</p> <p>Merchandising, self-service.....200</p> <p>Textile Mills</p> <p>Cotton picking, carding, roving, spinning.....50</p> <p>Beaming & slashing.....150</p> <p>Drawing.....200</p> <p>Others.....100</p> <p>Warehousing, Storage</p> <p>Inactive.....5-10</p> <p>Active</p> <p>Rough bulky.....10-20</p> <p>Medium.....20</p> <p>Fine.....20-50</p> <p>Welding</p> <p>General.....20-50</p> <p>Woodworking</p> <p>Rough sawing and bench work.....20-50</p> <p>Sizing, planing, rough sanding, medium quality machine and bench work, gluing, veneering, cooperage.....20-50</p> <p>Fine bench and machine work, fine sanding and finishing.....50-100</p> <p>Footnotes:</p> <p>(a) Obtained with a combination of general light plus specialized supplementary lighting</p> <p>(k) Or not less than 1/5 the level in adjacent areas</p>