

	Currently Recommended Illumination* Footcandles		Currently Recommended Illumination* Footcandles
STORAGE ROOMS OR WAREHOUSES		TEXTILE MILLS (SILK AND SYNTHETICS)	
Inactive	5	Manufacturing	
Active		Soaking, fugitive tinting, and conditioning or setting of twist	30
Rough bulky	10	Winding, twisting, rewinding, and coning, quill- ing, slashing	
Medium	20	Light thread	50
Fine	50	Dark thread	200
STRUCTURAL STEEL FABRICATION	50	Warping (silk or cotton system) on creel, on running ends, on reel, on beam, on warp at beaming	100
SUGAR REFINING		Drawing-in	
Grading	50	On heddles	200**
Color inspection	200	On reed	200**
TESTING		Weaving	100
General	50	TEXTILE MILLS (WOOLEN AND WORSTED)	
Extra fine instruments, scales, etc	200**	Opening, blending, picking	30
TEXTILE MILLS (COTTON)		Grading	100**
Opening, mixing, picking	30	Carding, combing, recombining, gilling	50
Carding and drawing	50	Drawing (white)	50
Slubbing, roving, spinning, and spooling	50	Drawing (colored)	100
Beaming and slashing on comb		Spinning (frame) (white)	50
Grey goods	50	Spinning (frame) (colored)	100
Denims	150	Spinning (mule) (white)	50
Inspection		Spinning (mule) (colored)	100
Grey goods (hand turning)	100	Twisting (white)	50
Denims (rapidly moving)	500**	Winding (white)	30
Automatic tying-in	150**		
Drawing-in by hand	200**		
Weaving	100		

* Minimum on the task at any time

** Obtained with a combination of general lighting plus specialized supplementary lighting. Care should be taken to keep within the recommended brightness ratios. These seeing tasks generally involve the discrimination of fine detail for long periods of time and under conditions of poor contrast. The design and installation of the combination system must provide not only a sufficient amount of light, but also the proper direction of light, diffusion, and eye protection. As far as possible, it should eliminate direct and reflected glare as well as objectionable shadows.

† The specular surface of the material may necessitate special consideration in selection and placement of lighting equipment, or orientation of the work.

†† Special lighting such that (a) the luminous area be large enough to cover the surface which is being inspected and (b) the brightness be within the limits necessary to obtain comfortable contrast conditions. This involves the use of sources of large area and relatively low brightness in which the source brightness is the principal factor rather than the footcandles produced at a given point.