

LIGHTING DESIGN/GUIDELINES

INDOOR LIGHTING DESIGN

LAMP LIFE

There are applications where the cost of lamp replacement is very high due to lack of access to the fixture; making lamp life a primary consideration. Careful comparison of various lamps can be made using the lamp data in the Technical section.

Other considerations such as lamp lumen depreciation, design factor and budget may enter into selecting the lamp. Since lamp data tends to change rapidly, always request the latest information from the lamp manufacturer when working with a critical application.

Fixture Selection

ILLUMINANCE LEVEL

To select an illuminance level, you must first determine what task is being performed and select the closest task on the list below. Whatever value you select for your general area illumination, remember that the value should represent the minimum maintained footcandles from the luminaires involved. Furthermore, the values are given as horizontal footcandles — the component of all illumination falling on a horizontal surface at the point of measurement.

In some cases, vertical components may be equally important (shelf faces, control panels, brake presses, etc.) and design allowance should be made accordingly. Point-by-point analysis may be required. If you are not familiar with this method, simply ask for the assistance of your Exceline representative.

The following tables show I.E.S. recommended levels of illuminance covering a broad range of activities and should aid in determining most needs.

The first table provides generic illuminance categories and values according to general type of activity. The remaining tables recommend specific illuminance categories for more exact activities and locations. With a few exceptions that provide foot-candle values, the letter shown should be used to select a foot-candle range from the first table. Each foot-candle range consists of three values. The specific value to be used should be selected by scoring four factors with a -1, 0 or +1. They are:

1. Precision of the task being performed.
2. Occupant ages.
3. Importance of speed.
4. Importance of accuracy.

After adding the four values together, use the lowest foot-candle value given in the illuminance category if the total score is -3 or -4. Use the middle foot-candle level if the score is -1, 0 or +1. The highest foot-candle value will be used with scores of +3 and +4.

For additional information regarding methods of selection and more detailed listings, please refer to the latest Applications Volume of the I.E.S. Handbook.

ILLUMINANCE CATEGORIES FOR INTERIOR ACTIVITIES

Type of Activity	Illuminance Category	Footcandles	Reference Work-Plane
Public spaces with dark surroundings	A	3	General lighting throughout spaces
Simple orientation for short temporary visits	B	5	
Working spaces where visual tasks are only occasionally performed	C	10	
Performance of visual tasks of high contrast or large size	D	30	Illuminance on task
Performance of visual tasks of medium contrast or small size	E	50	
Performance of visual tasks of low contrast or very small size	F	100	
Performance of visual tasks of low contrast and very small size over a prolonged period	G	300-1000	

Iesna Lighting Design Guide

**Illuminating Engineering Society of
North America**

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