

Division 16 --- ILLUMINATION

This Division sets out the requirements for lighting provisions.

MANDATORY SECTION

Performance Objectives

Sufficient level of illumination shall be provided in order to help people to apprehend the physical environment of the space they have entered or to move around safely.

Obligatory Design Requirements

72. General Illumination Level

The following designated areas of a building, where reasonably expected to be used by the public or occupants of the building during the period of normal use or occupation or when required, shall have minimum illumination level measured at the finished floor level along the centre line of the passageway as follows:

Ground floor entrance lobby and lift	120 lux
Lift lobby of upper floors, corridors, accessible paths and staircases	85 lux

73. Illumination Level for Signs

Signs provided under Division 13 shall have illumination level on the sign surface of not less than 120 lux.

74. Means of Provision of Illumination

The illumination may be provided through automatic or manual switching devices.

BEST PRACTICE SECTION

A. Design Considerations

- (a) Artificial lighting should be designed to give uniform illumination and good colour rendering of all surfaces, without creating glare, or pools of bright light and strong shadows.
- (b) Where appropriate, lighting should be so designed to illuminate the face of a person speaking in order to make communication easier.

A. Design Considerations (Cont'd)

- (c) To enhance the illumination level of the lift lobby of upper floors, corridors, accessible paths and staircases, additional lighting to be provided may be activated by sensors. The following factors should be considered in setting the duration of such sensors:
 - (i) length of the corridors and paths; and
 - (ii) walking speed of the persons with visual impairment, other forms of physical infirmities, etc.

B. Recommended Design Requirements

Common Areas

- (a) Common areas, including toilets, of a building should have an illumination level of not less than 120 lux measured at the finished floor level.
- (aa) Lift lobby of upper floors, corridors, accessible paths and staircases should have an illumination level of not less than 120 lux measured at the finished floor level. Such enhanced illumination may be provided by additional lighting activated by sensors.

Lighting for Steps

- (b) Lighting with lower illumination level should be provided at the entrances and exits to provide a contrast between the treads and the risers.

Illumination Level

- (c) Uniformity of illumination level should be maintained throughout the designated areas and toilets.
- (d) Higher illumination level at the entrance doors to flats and the exit doors should be provided.