

- (g) Add extra luminaires to complete the lighting of the escape route, paying attention to stairs and other hazards. Remember to allow for shadows caused by obstructions or bends in the route.
- (h) Add extra luminaires to satisfy the problem areas identified in item (c) of this sequence. Make sure that lighting outside the building is also adequate for safe evacuation.
- (i) Prepare a schedule for the regular maintenance and testing of all equipment, and ensure that the building owners and operators are familiar with its requirements.

### 3.9 Design checklist

The designer should check systematically that all the factors relevant to the design of the lighting installation have been taken into account. In the following checklist, the headings indicate the areas to be considered and the most commonly occurring questions. In any specific situation there may be other questions that need to be considered.

#### Objectives

- Safety requirements: What hazards need to be seen clearly, what form of emergency lighting is needed, is a stroboscopic effect likely?
- Task requirements: Where are the tasks to be performed in the interior, what planes do they occupy? What aspects of lighting are important to the performance of these tasks? Are optical aids necessary?
- Appearance: What impression is the lighting required to create?

#### Constraints

- Statutory: Are there any statutory requirements that are relevant to the lighting installation?
- Financial: What is the budget available, and what is the relative importance of capital and running costs including maintenance?
- Physical: Is a hostile or hazardous environment present? Are high or low ambient temperatures likely to occur? Is noise from control gear likely to be a problem? Are mounting positions restricted, and is there a limit on luminaire size?
- Historical: Is the choice of equipment restricted by the need to make the installation compatible with existing installations?

#### Specification

- Source of recommendations: What is the source of the lighting recommendations used? How authoritative is this source?
- Form of recommendations: Have all the relevant lighting variables been considered, e.g. design maintained illuminance, uniformity, illuminance ratios, surface reflectances and col-