4.0 Examples of lighting concepts

In the preceding chapters qualitative lighting design has been depicted as a complex process involving the consideration of functional, psychological and architectural requirements appertaining to specific tasks. When dealing with project-related design concepts the scope and limits of a set of standard design examples soon become apparent.

In fact, standard solutions should be avoided at all costs. They may appear to be easy to transfer to any kind of lighting project, but they can never meet the requirements of individual, task-related solutions.

Analysing designs that have already been implemented is equally not easy. It is admittedly possible to demonstrate the various aspects of a differentiated, pur-posefully planned solution taking a specific project as an example, but it is practically out of the question to transfer this concept onto another set of task-oriented criteria.

If a handbook of qualitative lighting design concepts is to do more than provide the technical basics and a list of planning requirements, it must limit itself to presenting general concepts as examples of applications, which will serve as a basis and a source of ideas for planning of greater relevance relating to specific situations.

The examples of lighting concepts given in this chapter intentionally avoid going into detail. This would only be valid for a defined room situation and a prescribed set of tasks. This applies above all to the provision of illuminance levels and exact lamp data. With a few excep-tions, floor plans and sections are on a 1:100 scale to provide comparable dimensions of the spaces and lighting installations. The choice of luminaires is purposefully limited to the standard equipment applicable to architectural lighting. Decorative luminaires and custom designed fixtures, as frequently applied within the framework of individual concepts, are only found in a few cases.

The aim of presenting these examples is to provide a series of basic concepts which may serve as a basis for a wide variety of unique solutions. Consideration has only been given to the general requirements to be observed for a particular area of planning, which nevertheless includes the aspects that deserve special attention regarding planning functional, architectural or perception-oriented lighting. Taking this as a basis, a range of alternative design concepts have been proposed that comprise the selection of appropriate light sources and luminaires and arrangement of equipment in accordance with the lighting requirements and the architectural design.

The task of lighting design is to align the stated concepts to the required lighting quality, the conditions laid down by the users of the space and the architectural design in every specific case, to modify them or expand them through the application of decorative luminaires and lighting effects – in short, to use general basic concepts to create individual lighting solutions.

Luminaire symbols used in the reflected ceiling plans in the chapter: Examples of design concepts.

	Downlight
	Spotlight, directional spotlight
	Track-mounted spotlight
	Downlight, asymmetrical wallwasher, washlight
	Double washlight
	Corner washlight
	Square luminaire
	Square luminaire, asymmetrical
	Louvred luminaire

	Louvred luminaire, asymmerical
	Light structure
	Light structure with track
	Light structure with louvred luminaire
	Light structure with point light sources
	Downlight with emergency lighting
	Square luminaire with emergency lighting
	Louvred luminaire with emergency lighting
	Singlet