Figure 17.3
Lighting of a loading bay

Table 17.2 Lighting recommendations for loading

Application	Horizontal illuminance (lx)	Horizontal illuminance uniformity	Maximum glare rating	Minimum colour rendering index
Loading bay	150	-	-	40
Outdoor loading area	100	0.5	45	20

17.3.5 Chemical and fuel industries

Some parts of these industries have large outdoor facilities. Some such facilities are open e.g. a coal stockyard, while others are complex structures with platforms at many different levels e.g. an oil refinery. For the former, lighting is usually done by conventional area floodlighting techniques. For the latter, lighting is done by integrating luminaires into the plant.

Luminaires in these facilities are often exposed to adverse conditions. These may range from a very dirty atmosphere, as in a coal and ash handling area, through corrosive atmospheres, as in some chemical plants, to risks of fire and/or explosion, as in the oil and gas industries where whole plants are considered hazardous areas. Luminaires that are capable of dealing with the prevailing conditions need to be used (see Section 4.3.2). Consideration also needs to be given to ensuring easy access to luminaires for maintenance. The lighting recommendations for the chemical and fuel industries are given in Table 17.3. The approach to designing lighting for the outdoor areas of these industries is discussed in Section 17.4.