

17.2.7 Impact on the surrounding area

Exterior workplace lighting should be limited to the site. Stray light from a site may be considered to be light trespass by neighbours and a source of sky glow by others (see Section 6.2.9 and SLL Factfile 7: *Environmental considerations for exterior lighting*).

17.2.8 Atmospheric conditions

Some exterior workplaces are difficult environments for lighting equipment. Chemical plants may produce a corrosive atmosphere. Oil refineries have a flammable environment. Coastal container terminals will expose luminaires to a high level of salt.

17.3 Lighting recommendations

17.3.1 Illuminance and illuminance uniformity

The recommendations for exterior workplace lighting involve maintained mean illuminance, illuminance uniformity, glare control and light source colour properties. The maintained mean illuminances listed are minima on the relevant plane. The illuminance uniformity is measured over the relevant area which can range from the whole site to a small part of the site. Exterior working activities are very diverse. Table 17.1 gives some lighting recommendations for generic activities. Recommendations for specific industries can be found below and in the SLL *Code for lighting* and the SLL Lighting Guide 1: *Industrial lighting*.

Table 17.1 Illuminance recommendations for exterior workplaces

Activity	Minimum maintained mean illuminance (lx)	Illuminance uniformity (minimum/average)	Typical applications
Safe pedestrian movement in low risk areas	5	0.15	Industrial storage areas with only occasional traffic
Safe movement of slow vehicles	10	0.25	Open storage areas served by fork lift trucks
Safe movement in medium risk areas	20	0.25	Vehicle storage areas, container terminals with frequent traffic
Normal traffic	20	0.4	Road lighting in container terminals, marshalling yards
Very rough work	20	0.25	Excavation and site clearance
Rough work	50	0.25	Handling timber
Safe movement in high risk areas	50	0.4	Critical area within chemical plants, oil refineries etc
Normal work	100	0.4	Brick laying, carpentry
Fine work	200	0.5	Painting, electrical work