

Cold stores should be illuminated with luminaires which are reliable and efficient at the temperatures concerned. Advice from manufacturers should be sought before luminaires are specified.

Automated picking warehouses need only sufficient lighting for safe access. However, any maintenance work will need additional portable lighting.

Direct glare from luminaires can be particularly problematic, especially for forklift truck drivers. The selection of a greater number of low luminance luminaires is preferable to a smaller number of high luminance luminaires. Fitting louvres or diffusers can help but may compromise the light distribution. Uplighting onto a reflective ceiling background will reduce the brightness contrast between the source and background to lessen direct glare. This may be achieved by selecting downlighter luminaires with an upward light component, or by secondary uplighting. Reflected glare from floors etc. can also be problematic and matte should always be used in preference to glossy finishes.

Table 10.3 Lighting recommendations for storage areas

Activity	Minimum maintained illuminance (lx)	Minimum colour rendering index	Maximum unified glare rating
Automated aisles	20	40	30
Manned aisles	150	60	25
Continuously occupied areas with little perception of detail required	200	80	25
Continuously occupied areas with perception of detail required	300	80	22

10.3.3 Ancillary areas

Circulation

When lighting circulation areas such as corridors or stairs, visual guidance is as important as illuminance. Care should be taken to ensure sufficient light is directed onto the walls thereby preventing the corridor appearing oppressive.

Luminaires should be positioned in stairways so as to provide sufficient contrast between the treads and the risers. Provision should be made for emergency lighting in all areas, particularly those defined as escape routes. The reader should consult SLL Lighting Guide 12: *Emergency lighting design guide*.

Canteens and mess rooms

Many ancillary areas can be illuminated with a regular array of luminaires. However, some areas such a receptions, canteens and rest rooms benefit from a more imaginative approach, thereby creating a better visual impression. In these situations the recommended illuminances should only be treated as a guide — the ‘feel’ of the lighting is far more important than the illumination level achieved.