

Design Guide

NON -MAINTAINED

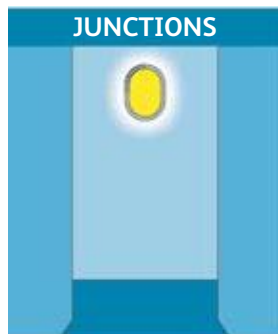
The lighting only operates when the normal mains supply fails (emergency lighting only).

MAINTAINED

The lighting operates normally and continues to operate when the normal mains supply fails (mains lighting and emergency lighting).



FINAL EXIT
To provide illumination of escape routes.



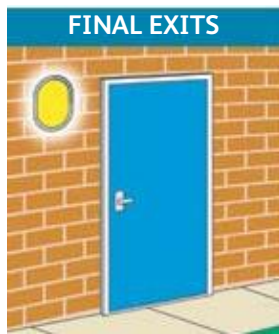
JUNCTIONS
Install within 2 metres of escape route junctions.



CORRIDORS
Install within 2 metres horizontal distance of a change of direction in an escape route.



STAIRWAYS
Install within 2 metres horizontal distance of a change in floor level of stairs (each tread to receive direct light).



FINAL EXITS
Install externally within 2 metres horizontal distance of any final exits. Please note that sufficient light will be needed to muster a roll call.



ALARM AREAS
Fire extinguishers, first aid points and fire-lighting equipment, install within 2 metres horizontal distance.



ESCALATORS
Should not be used as an escape route, but requires the same illumination to protect users on it when the supply fails.



TOILETS
Install in all toilets exceeding 8m² area or where natural light is not present.



LIFTS
To provide emergency illuminations in all lifts.



CONTROL ROOMS
Motor generator, control and plant rooms for essential and safety services.



OPEN AREAS
Open rooms either with a particular hazard, an escape route passing through or larger than 60m².



HAZARDOUS AREAS
Areas of high risk should be illuminated to 10% of normal lighting or 15 lux, whichever is greater.

Lighting requirements

When luminaires have been sited to cover the locations above, additional luminaires may be required to ensure minimum lighting levels are achieved. We provide spacing tables for this purpose. Spacing tables advise how far to locate the first luminaire, then how far apart other luminaires should be located for a given mounting height. Installation to the spacings will ensure the lighting levels will be achieved.

Escape route corridors etc: 1 lux minimum on the centre line of the escape route.

Open Areas: 0.5 lux minimum in the central core to within 0.5m of the walls.

Exit signs – Signs should apply to the European Signs Directive and be either back illuminated or have an emergency luminaire within 2m of horizontal height. Signs should be of the same format throughout the building.