ES05 Emergency Lighting Systems

UNIVERSITY OF LEICESTER

Document Control

Rev	Date	By	Comments
A	Jun'16	L. Davies	Technical update review
B	Oct'17	L. Davies	Technical update review
C	Dec 17	UoL	Sign off for release
D	Mar'20	J Thrupp	March 2020 Issue

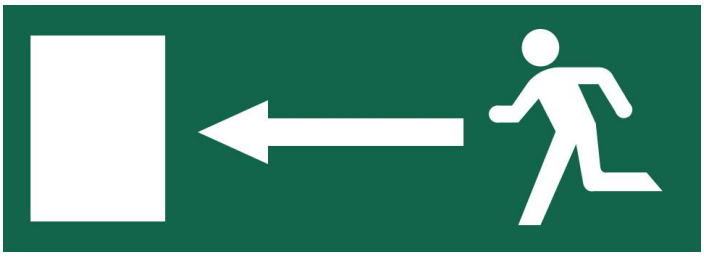
Design Guidance

1. Provisions of emergency lighting and designed illuminances shall meet the requirements as prescribed by BS 5266: -1:2011 and BS EN 1838. Building regulations Pt B shall be consulted also with the more onerous requirements being implemented.
2. LED emergency lighting systems shall be used as standard.
3. The university have a preference to supply and install a self-contained emergency lighting system throughout all types of refurbishment and new build projects.
4. The design of the emergency lighting layout shall ensure that each circuit with emergency luminaries connected is capable of being tested via a local key operated switch. Key switches shall be locally mounted within the rooms to which the serve and not in adjacent to DB's in risers for ease of maintenance. This does not apply where self testing systems are specified.
5. For new buildings, the emergency testing shall be by means of an addressable central test system which will allow automatic testing in accordance with BS5266 and EN50172. The system shall be capable of automatically carrying out functionality and duration tests at frequencies that are equal to or exceed the requirements of current codes of practice.
6. Self contained luminaries shall be fitted with integral nickel cadmium battery or nickel hydride packs giving 3-hour duration in the event of mains failure. In addition, luminaires shall be fitted with a green LED to give indication of the condition of the battery pack. This shall be visible whilst the luminaire is on where incorporated into the general lighting systems.
7. All systems to be installed with a suitable interface to enable connection to the estates network via an IP based web portal.
8. All emergency lighting shall be 3Hr self contained non-maintained by default, with maintained luminaires provided to suit the building application.
9. Handheld programmers/ devices used for system commissioning and monitoring to be handed over to UOL estates at practical completion.
10. Lux level testing of EM lighting systems shall be undertaken during hours of darkness and results recorded in O&M information prior to practical completion sign-off.
11. Refurbishment projects undertaken on a small scale shall utilise conventional key switch arrangements, particularly where this existing arrangement exists. Small scale shall generally refer to refurbishments <1000m2
12. All Emergency luminaires shall be asset registered within the University's MiCAD standard as follows:
    - Building code/Floor/Room No/Luminaire No. i.e: J010/00/Z02/001

    Completed Asset registers shall be compiled and entered into the completed O&M manuals and shall be issued in electronic form for ongoing facilities maintenance management.

University of Leicester, University Road, Leicester, LE1 7RH
T. 0116 252 2522 **W**. http://www.le.ac.uk

Design Components

	Manufacturer	Comments
Self-Contained		Dedicated 1W or 3W Surface/semi recessed LED luminaires to be used to suit room type & application. Conversion luminaires shall be avoided wherever possible.
Self-Test Self Contained Networks	Thorlux Scanlight P4 Fastel	Self-test facility to be provided on all projects. Centralised data collection system shall be provided on all new build projects whilst stand-alone self-test shall be provided as a minimum on all refurbishments or extension.
Exit Legend Standards		legend kits with running man & no text shall be provided as EEC92/58 standard. 

Framework Contractors

Service	Specialist	Address & Contact Details
Fastel	P4	P4 Limited 1 Wymans Way Fakenham Norfolk NR21 8NT T: 01328 850 555 F: 01328 850 559 E: sales@p4FASTEL.co.uk
Scanlight system	Thorlux	Thorlux Merse Road North Moons Moat Redditch Worcestershire B98 9HH Name: Mr Matthew Walton T: 0121 411 1838 M: 07903 850093 E: matthew.walton@thorlux.co.uk

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T. 0116 252 2522 **W**. http://www.le.ac.uk