DIN EN 1838:2025-03 (E)

Lighting applications - Emergency lighting for buildings

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Emergency lighting 10
4.1 General 10
4.2 Points of emphasis 12

5 Emergency escape lighting 12
5.1 Escape route lighting 12
5.2 Open area (anti-panic) lighting 14
5.3 High-risk task area lighting 15
5.4 Requirements for specific areas 16
5.4.1 Toilets and changing rooms 16
5.4.2 Public indoor swimming pools 16
5.4.3 Motor generator, control, switch and plant rooms 16

6 Safety signs 16
6.1 General 16
6.2 Conformity 17
6.3 Illumination 17
6.4 Viewing distance and mounting height 18

7 Local area lighting and standby lighting 18
7.1 Local area lighting 18
7.2 Standby lighting 19

Annex A (informative) System durations and activation times 20

A.1 System durations 20
A.2 Activation times 20

Annex B (informative) On-site luminance and illuminance measurements 22

B.1 Introduction 22
B.2 General 22
B.3 Illuminance and luminance meters 22
B.4 Measurement of emergency lighting illuminance levels 23
B.4.1 General considerations 23
B.4.2 Method A 23
B.4.3 Method B 24
B.4.4 Method C 24
B.4.5 Method D 25
B.5 Illuminance measurements on site 26
B.5.1 General 26

B.5.2 Illuminance measurements of open area (anti panic) lighting, local area lighting and high-risk task area lighting .....
B.5.2.1 Initial verification 27
B.5.2.2 Five-year verification 27
B.5.3 Illuminance measurement of escape route lighting 27
B.5.3.1 General 27
B.5.3.2 Measurements 28
B.5.3.3 Uniformity 28
B.6 Safety signs 28
B.6.1 Internally illuminated safety signs 28
B.6.1.1 Initial verification 28
B.6.1.2 Five-year verification 28
B.6.2 Externally illuminated safety signs 28
B.6.2.1 Initial verification 28
B.6.2.2 Five-year verification 29
B.7 Conformity assessment 29

Annex C (informative) Local area lighting 30

Annex D (informative) A-deviations 31

Bibliography 33