
The following amendments are the result of a review of LG1 carried out by the author in October 2018. These amendments have been incorporated into the downloadable PDF version of LG1.

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2.13 Energy consumption

Table 2.2: correct column headings and add values for LED, as follows:

<table>
<thead>
<tr>
<th>Lamp type</th>
<th>CIE general colour rendering index ($R_a$)</th>
<th>Task illuminance (lux)</th>
<th>Average installed power density (W/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorescent — triphosphor</td>
<td>80–90</td>
<td>300 500 750 1000</td>
<td>6 10 14 19</td>
</tr>
<tr>
<td>Metal halide</td>
<td>60–90</td>
<td>300 500 750 1000</td>
<td>7 12 17 23</td>
</tr>
<tr>
<td>High pressure sodium</td>
<td>40–80</td>
<td>300 500 750 1000</td>
<td>6 11 16 21</td>
</tr>
<tr>
<td>LED</td>
<td>80–90</td>
<td>300 500 750</td>
<td>5 8 12</td>
</tr>
</tbody>
</table>

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3.3 Fuel industries

Electricity generation, transmission and distribution

Table: other relevant documents: delete reference to SLL Lighting Guide 3: Lighting and visual display units.

Gas manufacture, storage and distribution

Table: other relevant documents: delete reference to British Gas Engineering Standard PS/ELL and SLL Lighting Guide 3: Lighting and visual display units.

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3.3.2.1 Control rooms

Page 12, paragraph 2: delete reference to SLL Lighting Guide 3: Lighting and visual display units and CIE Publication 60: Lighting and the Visual Display Unit Work Station.
3.7 Mechanical engineering

Table: other relevant documents: delete reference to *Protection Against Ultraviolet Radiation in the Workplace* (National Radiological Protection Board).

3.14 Paper making and printing

Table: other relevant documents: delete reference to *Lighting in Printing Works* (British Printing Industries Federation, 1980), *Protection Against Ultraviolet Radiation in the Workplace* (National Radiological Protection Board) and SLL Lighting Guide 3: *Lighting and visual display units*.

3.15 Plastics and rubber

Table: other relevant documents: delete reference to *Protection Against Ultraviolet Radiation in the Workplace* (National Radiological Protection Board).

3.16.3 Items stored in bins

Figure 3.23: equation should read:

$$2 \times H_t$$

Spacing should not exceed: $\frac{2 \times H_t}{\tan \text{(cut-off angle)}}$

3.17.1 Introduction

3.19.1 Types of emergency lighting

Paragraph 2: delete ‘Guidance on ... In preparation.’ and insert ‘Guidance on risk assessments is given in BSI specification PAS 79, in a series of ‘Fire Safety Risk Assessment’ guides published by the former Department for Communities and Local Government, and in ‘Sector Specific Guidance’ published by the Scottish Government. Equivalent guidance for Northern Ireland is available in a series of ‘Fire Safety Guides’, published by the NI Fire and Rescue Service. (See 'Bibliography' for availability of these documents.)’

3.19.2 Escape lighting requirements

Paragraph 2: reference to BS 5266: 2011 should be changed to BS 5266: 2016.

3.19.3 High-risk task area lighting

Paragraph 2: reference to BS 5266: 2011 should be changed to BS 5266: 2016.

4.4.1 Introduction

Reference to BS 5489: Part 2 should be changed to BS 5489-1: 2013.

4.6 Railways and tramways


4.6.3 Goods depots

Paragraph 2: reference to BS 5489: Code of practice for road lighting should be changed to BS 5489-1: Code of practice for the design of road lighting. Lighting of roads and public amenity areas; reference to BS EN 13201 should read ‘BS EN 13201: Road lighting’.
Table 5.1  Summary of lamp characteristics

Values in the table for LED products should be amended as follows:

Output range: amend to read 20–200,000
Power range: amend to read 1–2,000
Efficacy: amend to read 30–170

All other entries unchanged.

Table 5.6  Summary of luminaire characteristics

Column 2: Suitable lamp types: add LEDs to all types except ‘Small tungsten halogen floodlight’.

5.3.3  Dimming

Page 72, paragraph 1: delete reference to BRE Digest 272: Lighting Controls and Daylight Use.

6.2  Objectives

Table 6.1 Typical mounting height for some lamp/luminaire combinations used in interior lighting

Column 1: Lamp and luminaire: add LED data as follows:

<table>
<thead>
<tr>
<th>Lamp and luminaire</th>
<th>Typical mounting heights in metres</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorescent/LED luminaire with trough reflector; any wattage/length</td>
<td>Min. 2.5 Max. 8</td>
<td>Usually difficult to maintain at heights over 5 m</td>
</tr>
<tr>
<td>Fluorescent/LED luminaire with controller, e.g. opal, prismatic or louvre; any wattage/length</td>
<td>Min. 2 Max. 4</td>
<td>Upper limit depends on manufacturer’s photometric data and lumen output of lamp</td>
</tr>
<tr>
<td>Discharge (SON, MBI(HPI)) or LED luminaire with opal, prismatic or louvre controller:</td>
<td>Min. 2.5 Max. 5</td>
<td></td>
</tr>
<tr>
<td>Up to 150 W LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Up to 250 W SON or 400 W MH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High bay type luminaire dispersive or concentrating:</td>
<td>Min. 4 Max. 8</td>
<td></td>
</tr>
<tr>
<td>Up to 100 W LED, 150 W SON or 250 W MH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Up to 150 W LED, 250 W SON or 400 W MH</td>
<td>Min. 5 Max. 8</td>
<td></td>
</tr>
<tr>
<td>Up to 300 W LED, 400 W SON or 1000 W MH</td>
<td>Min. 7 Max. 12</td>
<td></td>
</tr>
<tr>
<td>Up to 1000 W LED, 1000 W SON or 2000 W MH</td>
<td>Min. 12 No limit</td>
<td></td>
</tr>
<tr>
<td>Low bay type luminaire, bare lamp or controller</td>
<td>Min. 3 Max. 3</td>
<td></td>
</tr>
<tr>
<td>Up to 100 W LED, 150 W SON or 250 W MH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Up to 150 W LED, 250 W SON or 400 W MH</td>
<td>Min. 4 Max. 5</td>
<td></td>
</tr>
<tr>
<td>Up to 300 W LED, 400 W SON or 1000 W MH</td>
<td>Min. 5 Max. 7</td>
<td></td>
</tr>
</tbody>
</table>

Table 6.2 Typical minimum mounting height ranges for floodlights used in area lighting schemes

Add LED data as follows:

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Nominal rating</th>
<th>Initial lumens</th>
<th>Typical minimum mounting height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light emitting diode (LED)</td>
<td>50</td>
<td>5500</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>9000</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>11500</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>150</td>
<td>17000</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>200</td>
<td>23000</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>400</td>
<td>46000</td>
<td>12</td>
</tr>
</tbody>
</table>

All other entries unchanged.
6.4.4.6 Automatic controls

Page 81, paragraph 2: delete reference to BRE Digest 272: Lighting Controls and Daylight Use.

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6.5.2 Average illuminance for interior lighting


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Glossary

Glare index system: amend definition of to read: See unified glare rating (UGR)

Page 94

Glossary

Insert new entry: ‘LED — light emitting diode’

Page 98

Bibliography

British Standards:

- Reference to BS EN 5266: 2011 should be changed to BS EN 5266: 2015

- BS 5345 should be replaced by BS EN 60079-14, IEC 60079-14: 2014: Electrical apparatus for explosive gas atmospheres. Electrical installations in hazardous areas (other than mines).

- Reference to BS 5489 should be changed to BS 5489-1: 2013: Code of practice for the design of road lighting. Lighting of roads and public amenity areas.

SLL publications:


• Reference to SLL Lighting Guide 8: 2014 should be changed to 2015.


• Reference to SLL Lighting Guide 12: 2004 should be changed to 2015.


• Add Lighting Guide 14: Control of electric lighting (2016).


• Add Lighting Guide 16: Lighting for stairs (2017)

• Delete reference to CIBSE TM10: The Calculation of Glare Indices (1985)

SLL: October 2018