CIBSE Publications

This list and the index include all important CIBSE publications. The following list indicates the date of the most recent revision of each publication. In the index the entries refer to the individual pages in the various publications, eg A1-3 to 19 refers to CIBSE Guide A Chapter 1, pages 3 to 19.
Copies of publications may be purchased from the Chartered Institution of Building Services Engineers, Delta House, 222 Balham High Road, London SW12 2BS
Tel: 020 8675 5211 Fax: 020 8675 5449

Guide A – Environmental design (2006)

Chapter 1	Environmental criteria for design	2006	**A1**
Chapter 2	External design data	2006	**A2**
Chapter 3	Thermal properties of building structures	2006	**A3**
Chapter 4	Ventilation and air infiltration	2006	**A4**
Chapter 5	Thermal response and plant sizing	2006	**A5**
Chapter 6	Internal heat gains	2006	**A6**
Chapter 7	Moisture transfer and condensation	2006	**A7**
Chapter 8	Health issues	2006	**A8**

Guide B – Heating, ventilation, air conditioning and refrigeration (2001-2)

Chapter B1	Heating	2002	**B1**
Chapter B2	Ventilation and air conditioning	2001	**B2**
Chapter B3	Ductwork	2002	**B3**
Chapter B4	Refrigeration and heat rejection	2002	**B4**
Chapter B5	Noise and vibration control for HVAC	2002	**B5**

Guide C – Reference data (2007)

Chapter 1	Properties of humid air	2007	**C1**
Chapter 2	Properties of water and steam	2007	**C2**
Chapter 3	Heat transfer	2007	**C3**
Chapter 4	Flow of fluids in pipes and ducts	2007	**C4**
Chapter 5	Fuels and combustion	2007	**C5**
Chapter 6	Units, standard and mathematical data	2007	**C6**

Guide D – Transportation systems in buildings (2005)

Chapter 1	Introduction	2005	**D1**
Chapter 2	Interior circulation	2005	**D2**
Chapter 3	Traffic planning and selection of equipment and performance	2005	**D3**
Chapter 4	Advanced planning techniques and computer programs	2005	**D4**
Chapter 5	Types of transportation systems	2005	**D5**
Chapter 6	Firefighting lifts and evacuation lifts for people with disabilities	2005	**D6**
Chapter 7	Lift components and installation	2005	**D7**
Chapter 8	Lift drives and controls	2005	**D8**
Chapter 9	Lift traffic control	2005	**D9**
Chapter 10	Escalators and moving walks	2005	**D10**
Chapter 11	Transportation systems for people with disabilities	2005	**D11**
Chapter 12	Electrical systems and environmental conditions	2005	**D12**
Chapter 13	Energy consumption of lifts, escalators and moving walks	2005	**D13**
Chapter 14	Remote monitoring and alarms	2005	**D14**
Chapter 15	Commissioning, preventative maintenance, testing and thorough examination of lifts, escalators and moving walks	2005	**D15**
Chapter 16	Modernisation of lift installations	2005	**D16**
Chapter 17	Legislation, standards and codes of practice	2005	**D17**
Chapter 18	Construction (Design and Management) Regulations 1994	2005	**D18**
Appendices	Glossary of terms; Lift kinematics; Legislation and standards	2005	**Da**

Guide E – Fire engineering (2003)

Chapter 1	Introduction	2003	**E1**
Chapter 2	Legislation, standards and strategy	2003	**E2**
Chapter 3	Building designation	2003	**E3**
Chapter 4	Means of escape and human factors	2003	**E4**
Chapter 5	Compartmentation and spread of flame	2003	**E5**
Chapter 6	Alarm, detection and emergency lighting	2003	**E6**
Chapter 7	Fire and smoke ventilation	2003	**E7**
Chapter 8	Fire suppression	2003	**E8**
Chapter 9	Firefighting	2003	**E9**
Chapter 10	Fire dynamics	2003	**E10**
Chapter 11	Fire safety management	2003	**E11**
Chapter 12	Fire safety on construction sites	2003	**E12**

Guide F – Energy efficiency in buildings (2004)

Chapter 1	Introduction	2004	**F1**
Chapter 2	The design process	2004	**F2**
Chapter 3	Developing a design strategy	2004	**F3**
Chapter 4	Sketch design	2004	**F4**
Chapter 5	Renewables, fuels, CHP and metering	2004	**F5**
Chapter 6	Control strategies	2004	**F6**
Chapter 7	Ventilation and air conditioning design	2004	**F7**
Chapter 8	Refrigeration design	2004	**F8**
Chapter 9	Lighting design	2004	**F9**
Chapter 10	Heating and hot water design	2004	**F10**
Chapter 11	Motors and building transportation systems	2004	**F11**
Chapter 12	Electric power systems and office equipment	2004	**F11**
Chapter 13	Checking the design	2004	**F13**
Chapter 14	Commissioning, handover and feedback	2004	**F14**
Chapter 15	Managing the building	2004	**F15**
Chapter 16	Acquisition and refurbishment	2004	**F16**
Chapter 17	Maintenance and energy efficiency	2004	**F17**
Chapter 18	Energy audits and surveys	2004	**F18**
Chapter 19	Benchmarking, monitoring and targeting	2004	**F19**
Chapter 20	Energy benchmarks	2004	**F20**
Appendix A1	CIBSE policy statements	2004	**Fa1**
Appendix A2	Conversion factors and properties of fuels	2004	**Fa2**
Appendix A3	Consultants and model briefs	2004	**Fa3**
Appendix A3	Useful websites	2004	**Fa4**

Guide G – Public health engineering (2004)

Chapter 1	Introduction and scope	2004	**G1**
Chapter 2	Water services and utilities	2004	**G2**
Chapter 3	Sanitary accommodation, pipework and drainage	2004	**G3**
Chapter 4	Waste management systems	2004	**G4**
Chapter 5	Corrosion and corrosion protection	2004	**G5**
Chapter 6	Water treatment	2004	**G6**
Chapter 7	Swimming pools	2004	**G7**
Chapter 8	Water features and fountains	2004	**G8**
Chapter 9	Irrigation	2004	**G9**
Chapter 10	External drainage, local storage and treatment of waste water	2004	**G10**
Chapter 11	Miscellaneous piped services	2004	**G11**
Chapter 12	Glossary	2004	**G12**

Guide H – Building control systems (2000)

Chapter 1	Introduction: the need for controls	2000	**H1**
Chapter 2	Control fundamentals	2000	**H2**
Chapter 3	Components and devices	2000	**H3**
Chapter 4	Systems, networks and integration	2000	**H4**
Chapter 5	Control strategies for subsystems	2000	**H5**
Chapter 6	Control strategies for buildings	2000	**H6**
Chapter 7	Information technology	2000	**H7**
Chapter 8	Management issues	2000	**H8**
Appendix 1	Bibliography	2000	**Ha1**
Appendix 2	Tuning rules	2000	**Ha2**
Appendix 3	Glossary	2000	**Ha3**

Guide J – Weather, solar and illuminance data (2002) (CD-ROM)

Chapter 1	Introduction	2002	**J1**
Chapter 2	Dates, times, symbols and other conventions	2002	**J2**
Chapter 3	Weather and building services engineering	2002	**J3**
Chapter 4	UK data for manual design	2002	**J4**
Chapter 5	Solar radiation, long-wave radiation and daylight	2002	**J5**
Chapter 6	Wind data	2002	**J6**
Chapter 7	Air pollution	2002	**J7**
Chapter 8	UK data for simulation	2002	**J8**
Chapter 9	Weather analysis toolkit	2002	**J9**
Chapter 10	Overseas weather data	2002	**J10**
Chapter 11	Sources of meteorological data	2002	**J11**
Appendix 1	Quality control of global solar data	2002	**Ja1**
Appendix 2	Filling gaps in hourly diffuse irradiation records	2002	**Ja2**
Appendix 3	Comparison of horizontal observed data with corresponding data derived from world clear sky irradiance tables	2002	**Ja3**
Appendix 4	Miscellaneous algorithms used in the development of this publication	2002	**Ja4**
Appendix 5	Mean synoptic data for days selected for design 97.5 percentile irradiance tables	2002	**Ja5**
Appendix 6	Tables of solar and related data	2002	**Ja6**

Guide K – Electricity in buildings (2005)

Chapter 1	Introduction	2004	**K1**
Chapter 2	Legislation and standards	2004	**K2**
Chapter 3	Load assessment	2004	**K3**
Chapter 4	Power supplies	2004	**K4**
Chapter 5	High voltage distribution	2004	**K5**
Chapter 6	Transformers	2004	**K6**
Chapter 7	Low voltage switchgear and distribution	2004	**K7**
Chapter 8	Building wiring systems	2004	**K8**
Chapter 9	Uninterruptible power supplies	2004	**K9**
Chapter 10	Earthing	2004	**K10**
Chapter 11	Electromagnetic compatibility	2004	**K11**
Chapter 12	Inspection, testing, operation and maintenance	2004	**K12**

Guide L – Sustainability (2007)

Sustainability		2007	**L**

Guide M – Maintenance engineering and management

Chapter 1	Introduction	2008	**M1**
Chapter 2	Guidance for building services designers	2008	**M2**
Chapter 3	Maintenance techniques and their application	2008	**M3**
Chapter 4	Maintenance contracts	2008	**M4**
Chapter 5	Maintenance strategy and inspection frequencies	2008	**M5**
Chapter 6	Energy efficiency and maintenance	2008	**M6**
Chapter 7	Controls for building services	2008	**M7**
Chapter 8	Commissioning and testing	2008	**M8**
Chapter 9	Handover procedures	2008	**M9**
Chapter 10	Operation and maintenance information	2008	**M10**
Chapter 11	Risk assessment and management procedures	2008	**M11**
Chapter 12	Owning and operating costs	2008	**M12**
Chapter 13	Economic life factors and end of economic life	2008	**M13**
Chapter 14	Maintenance audits	2008	**M14**
Chapter 15	Condition surveys	2008	**M15**
Chapter 16	Legislation, compliance and good practice	2008	**M16**
Chapter 17	Health and comfort	2008	**M17**
Chapter 18	Training	2008	**M18**

Applications Manuals

Natural ventilation in non-domestic buildings	2005	**AM10**
Building energy and environmental modelling	1998	**AM11**
Small-scale combined heat and power for buildings	1999	**AM12**
Mixed mode ventilation	2000	**AM13**

Commissioning Codes

Code A	Air distribution systems	1996	**CA**
Code B	Boilers	2002	**CB**
Code C	Automatic controls	2001	**CC**
Code L	Lighting	2003	**CL**
Code M	Commissioning management	2003	**CM**
Code R	Refrigerating systems	2002	**CR**
Code W	Water distribution systems	2003	**CW**

CIBSE guidance publications

HIST	Guide to building services for historic buildings	2002	**HB**
IS	Introduction to sustainability	2007	**IS**

Guidance Notes

CFCs, HCFCs and halons: professional and practical guidance on substances which deplete the ozone layer		2000	**GN1**

Technical Memoranda

TM4	Design notes for the Middle East	1990	**TM4**
TM13	Minimising the risk of Legionnaires' disease	2002	**TM13**
TM14	Standard file format for the electronic transfer of luminaire photometric data	1988	**TM14**
TM18	Ice storage	1994	**TM18**
TM19	Relationships for smoke control calculations	1995	**TM19**
TM21	Minimising pollution at air intakes	1999	**TM21**
TM22	Energy assessment and reporting method	2006	**TM22**
TM23	Testing buildings for air leakage	2000	**TM23**
TM24	Environmental factors affecting office worker performance	1999	**TM24**
TM25	Understanding building integrated photovoltaics	2000	**TM25**
TM26	Hygienic maintenance of office ventilation ductwork	2000	**TM26**
TM27	Flexible building services for office-based environments	2002	*
TM28	Benchmarking lighting design software	2002	*
TM29	HVAC strategies for well-insulated airtight buildings	2002	**TM29**
TM30	Improved life cycle performance of mechanical ventilation systems	2003	**TM30**
TM31	Building log book toolkit	2006	**TM31**
TM33	Tests for software accreditation and verification	2006	**TM33**
TM34	Weather data with climate change scenarios	2004	*
TM35	Environmental toolkit for glazed facades	2004	**TM35**
TM36	Climate change and the internal environment	2005	**TM36**
TM37	Design for improved solar shading control	2006	**TM37**
TM38	Renewable energy sources for buildings	2006	**TM38**
TM39	Building energy metering	2006	**TM39**
TM40	Health issues in building services	2006	**TM40**
TM41	Degree-days, theory and application	2006	**TM41**
TM42	Fan application guide	2006	**TM42**
TM44	Inspection of air conditioning systems	2007	**TM44**
TM45	Groundwater cooling systems	2008	**TM45**

* These publications are available to CIBSE members only via the CIBSE website; they are not included in the index.

continued...

CIBSE Knowledge Series

KS1	Reclaimed water	2005 **KS1**
KS2	Managing your building services	2005 **KS2**
KS3	Sustainable low energy cooling solutions	2005 **KS3**
KS4	Introduction to controls	2005 **KS4**
KS5	Making buildings work	2005 **KS5**
KS6	Comfort	2006 **KS6**
KS7	Variable flow pipework systems	2006 **KS7**
KS8	How to design a heating system	2006 **KS8**
KS9	Commissioning variable flow pipework systems	2007 **KS9**
KS10	Biomass	2008 **KS10**
KS11	Green roofs	2008 **KS11**
KS12	Refurbishment	2008 **KS12**
KS13	Refrigeration	2008 **KS13**

Code for Lighting (CD-ROM)

Code for Lighting (CD-ROM) 2004 *

* This publication is not included in the index.

Lighting Guides

LG2	Hospitals and health care	1989 **LG2**
LG4	Sports lighting	2006 **LG4**
LG5	The visual environment in lecture, teaching and conference rooms	1991 **LG5**
LG6	The outdoor environment	1992 **LG6**
LG7	Office lighting	2005 **LG7**
LG8	Lighting for museums and art galleries	1994 **LG8**
LG9	Lighting for communal residential buildings	1997 **LG9**
LG10	Daylighting and window design	1999 **LG10**
LG11	Surface reflectance and colour	2001 **LG11**
LG12	Emergency lighting design guide	2004 **LG12**

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Corrections to CIBSE publications

The following corrigenda have been published by CIBSE.

CIBSE Guides

Guide A

Amendments to 2006 edition:

Page 2-22: Figure 2.12: labels 'West' and 'East' should be transposed.

Pages 2-29 to 2-35: Table 2.34: add footnote as follows: Sol-air temperatures are based on solar radiation data and air temperature data for the following combinations of sites. London area: Bracknell (radiation) and Heathrow (air temperature); Manchester: Aughton (radiation) and Ringway (air temperature); Edinburgh: Mylnefield/Strathallan (radiation) and Turnhouse (air temperature).'

Page 2-48: Section 2.10.3: third sentence should read: 'Six days…to use with Heathrow data.'

Page 2-48: Section 2.10.3: paragraph 2, lines 7/8 should read: '…adjustments to use with Heathrow data.'

Page 2-49: Table 2.67: this table has been amended; a corrigendum slip is available from CIBSE.

Page 3-11: Table 3.12: column 4 heading: units should be $W \cdot m^{-1} \cdot K^{-1}$.

Page 3-17: Table 3.19: caption should read: 'Edge insulation factor, Ψ_{ei}, for vertical edge insulation'. Column 2 heading should read: 'Depth of vertical edge (floor) insulation, D_i / m'.

Pages 3-31, 3-32: Appendix 3.A6: a corrected version is available from CIBSE.

Page 4-2: Notation: units for $\bar{\theta}$ should be °C.

Page 4-16: Table 4.22: schematics (b) and (c): replace 'z_a' by 'h_a'.

Page 5-11: Equation 5.15: replace 'Q_i' in numerator by 'Φ_i'.

Page 5-11: Example 5.1(a): Step 3: replace '179.3' in first bracket by '345.7'; replace '5.462 kW' on right hand side by '8.789 kW'. Step 4: replace '5.46' in first bracket in numerator by '8.79'; replace '20.28 °C' in second line by '21.48 °C'. Step 5: replace '20.28' by '21.48'; replace '17.72 °C' by '16.52 °C'.

Page 5-12: Example 5.1(b): Step 2: replace '5.462 kW' by '8.789 kW'. Step 4: replace '5.462' in first bracket by '8.79'; replace '17.64 °C' by

'17.23 °C'. Step 5: replace '17.64' by '17.23'; replace '20.36 °C' by '20.77 °C'.

Page 7-6: definition following equation 7.14 should read: '…and Rsi is the internal surface resistance (m2·K·W–1).'

Guide B1

Page 6-2: Table 6.2: units for gross and net calorific values should read 'MJ· kg^{-1}', not 'MJ· m^{-3}'; corrigendum slip available from CIBSE

Page 6-4: Table 6.3: caption should read 'Carbon emission factors for UK in 2000–2005', not 'CO_2 emission factors for UK in 2000–2005'; corrigendum slip available from CIBSE

Guide C

Page 3-21: left hand column, bottom line should read: 'prepared using equation 3.101…'

Page 3-25: equation 3.112: in denominator, k_n should read 'λ_n'

Page 4-25: Figure 4.9(a): diameter of horizontal inlet branch should be smaller and branch should be labelled '37 mm'; diameter of outlet branch should be larger and branch should be labelled '50 mm'.

Page 4-58: Table 4.125: caption should read: '90° swept tees, rectangular diverging flow: values of…'

Page 4-63: Table 4.A1.1: units for ν should read: / 10^6 m^2.s^{-1}

Page 4-64: Table 4.A1.12: units for θ should read: / K

Guide D

Amendments to 2005 edition:

Page iv: Acknowledgements: line 6 should read: '…P R Lorton (Consultant)…'

Page 3-7: Equation 3.3 should read:

$$\text{UPPHC} = \frac{300\ \text{P}}{\text{UPPINT}}$$

Page 7-4: Caption to Figure 7.3 should read: 'Sheave shaft load…'

Page 7-10: Left hand column: delete paragraph: 'Caution should be applied…design of the building.'

Page 12-13: Section 12.13.4: lines 3/4 should read: '…installation is undertaken in the machinery spaces…'

Guide E

Page 2-4: Section 2.2.5: this section incorrectly states that the Building Regulations do not apply to educational buildings. Whilst exemption was the case in the past educational buildings are no longer exempted from the Building Regulations.

Guide F

Page 5-10: Table 5.5: column 2, column heading should read 'Density at 15°C / kg·m^{-3}'; units for gross calorific value and net calorific value should be megajoules per kilogram (MJ·kg^{-1}), not megajoules per cubic metre (MJ·m^{-3}); corrigendum slip available from CIBSE

Page 7-11: Table 7.7: Table caption should read 'Air handling benchmarks for conditioned offices'

Page 10-7: Section 10.2: British Standard referred to in the second bullet point should read 'BS 5422', not 'BS 5442'

Guide K

Amendments to 2005 edition:

Page 3-1: Equation 3.1 should read:

$$\text{P} = \text{U}_\text{o}\ I \cos \Phi$$

where P is the active power (W), U_o is the phase-to-neutral voltage (V), I is the current (A), Φ is the angular displacement between the voltage and current waveforms and is known as the power factor angle; cos Φ is known as the power factor

Page 3-1: Equation 3.2 should read:

$$\text{P} = \sqrt{3}\ \text{U}\ I \cos \Phi$$

where U is the line (i.e. phase-to-phase) voltage (V)

Page 3-1: Equations 3.3 and 3.4 should read:

$$\text{S} = \text{U}_\text{o}\ I \times 10^{-3}$$

$$\text{S} = \sqrt{3}\ \text{U}\ I \times 10^{-3}$$

where S is the apparent power (kV·A)

Page 4-6: Equation 4.1 (incorrectly numbered 3.1) should read:

$$\text{S}_\text{a} = \sqrt{3}\ \text{U}\ I_\text{l} \times 10^{-3}$$

where S_a is the rated kV·A of the alternator (kV·A), U is the line (i.e. phase-to-phase) voltage (V), and I_l is the rated full load line current (A)

Page 5-1: Equation 5.1 should read:

$$\text{P}_\text{L} = I^2\ \text{R}_\text{c}$$

where P_L is the power loss (W), I is the current carried in the cable (A) and R_c is the resistance of the cable (Ω)

Page 5-10: Equation 5.4 should read:

$$\text{Cable impedance (\%)} = \frac{\text{KVA}_\text{b}\ Z\ l}{\text{v}^2} \times 10^5$$

where KVA_b is the base kV·A value (kV·A), Z is the impedance per unit length of the cable (Ω·m^{-1}), l is the length of the cable (m) and v is the line (i.e. phase-to-phase) voltage (V)

Page 5-10: Equation 5.7 should read:

$$I_\text{sc} = \frac{\text{MVA}_\text{b} \times 10^3}{\sqrt{3}\ \text{v}}$$

Page 5-10: Example; fault level calculations; last equation in the example should read:

$$I_\text{sc} = \frac{14.01 \times 10^3}{\sqrt{3} \times 400} = 20.22\ \text{kA}$$

Page 5-11: Equation 5.8 should be labelled 5.9

Page 6-1: equation 6.1 should read:

$$\text{S} = \text{U}_\text{o}\ I \times 10^{-3}$$

where S is the full load power (kV·A), U_o is the rated secondary (phase-to-neutral) voltage (V) and I is the rated output current (A)

Page 6-2: the following replaces equations 6.2 to 6.6 and the accompanying text:

For three-phase transformers, this is expressed as:

$$\text{S} = \sqrt{3}\ \text{U}\ I \times 10^{-3} \qquad (6.2)$$

The values for voltage and current in star- and delta-connected three-phase windings are as follows:

For star connection:

$$\text{Phase-to-neutral voltage} = \text{U}_\text{o} = \frac{\text{U}}{\sqrt{3}} \qquad (6.3)$$

For delta connection:

$$\text{Phase voltage} = \text{line voltage} = \text{U} = \sqrt{3}\ \text{U}_\text{o} \qquad (6.4)$$

The output current of the transformer in both cases is equal to:

$$I = \frac{\text{S} \times 10^3}{3\ \text{U}_\text{o}} \qquad (6.5)$$

or:

$$I = \frac{\text{S} \times 10^3}{\sqrt{3}\ \text{U}} \qquad (6.6)$$

Page 6-5: Equation 6.7 (incorrectly numbered 6.3) should read:

$$\text{Fault level (kA)} = \frac{\text{3-phase trans. rating (kV·A)} \times 100}{\sqrt{3}\ \text{U}_\text{o} \times \text{impedance (\%)}}$$

where U_o is the secondary line (phase-to-phase) voltage (V)

Page 8-3: Caption to Figure 8.3 should read: 'Figure 8.3 Basic radial final circuit…'

Page 10-3: Figures 10.3(a) and 10.3(b): U_o should be replaced by U_{oc}

Page 10-3: Caption to Figure 10.3 should read: 'Figure 10.3 Definition of earth loop impedance[9]; (a) TN system, (b) TT system (U_{oc} is the no-load open circuit phase-to-earthed-neutral voltage measured at the terminals of the transformer)

Page 10-7: equation 10.4 should read:

$$\text{U}_\text{t} = (\text{U}_\text{oc}\ \text{Z}_\text{p}) / \text{Z}_\text{el}$$

where U_t is the touch voltage (V), U_{oc} is the no-load open circuit supply phase-to-earthed-neutral voltage (V), Z_p is the return path impedance (Ω) and Z_{el} is the earth fault loop impedance (Ω)

Page 10-9: Equation 10.5 should read:

$$I_\text{f} = \text{U}_\text{oc} / \text{Z}_\text{el}$$

where I_f is the earth fault current (A), U_{oc} is the no-load open circuit supply phase-to-earthed-neutral voltage (V) and Z_{el} is the earth loop impedance (Ω)

Page 10-10: Figures 10.11 and 10.12: U_o should be replaced by U_{oc}

Page 10-10: Equation 10.13 should read:

$$\text{U}_\text{t} = \text{U}_\text{oc} \frac{\Sigma\ (\text{Z}_\text{p} + \text{Z}_\text{po})}{\text{Z}_\text{el}}$$

where U_{oc} is the no-load open circuit phase-to-earthed-neutral voltage (V)

Page 10-12: Figure 10.14(b): this figure has been amended; a corrigendum slip is available from CIBSE

TM39: Building energy metering

Page 15: section 9.2: the paragraph: 'Where sub-metering …approved by OFGEM.' should be deleted.

AM10: Natural ventilation in non-domestic buildings

Page 2: section 1.2.3, paragraph 3: 'Because implicit…' should read: 'Because explicit…'.

Page 40: section heading 4.1.2.3 should read '4.2.1.3'; section heading 4.1.2.4 should read: '4.2.1.4'.

Page 47: right hand column, third line from bottom: '1.851' should read: '1.185'.

Page 49: right hand column, tenth line from top: '1.851' should read: '–0.4.05'.

Lighting Guide 6

Please amend the definition of 'maintenance factor' to read:

Maintenance factor
The ratio of the maintenance illuminance to the initial illuminance. Maintenance factor is also known as light loss factor.