

LED Direct's Guide for CIBSE Recommended Lighting Levels

LED DIRECT

OFFICES

General	500 lux
Computer work stations	300 – 500 lux
Filing rooms	300 lux
Print rooms	300 lux
Drawing office	500 lux
Drawing boards	750 lux
CAD design areas	300 – 500 lux

RETAILING

Small retail outlets	500 lux
Supermarkets	750 lux
Hypermarkets	1000 lux
DIY superstore	1000 lux
Garden centres	500 lux
Showrooms	500 – 750 lux

CIRCULATION AREAS

Lifts	100 lux
Corridors & stairs	100 lux
Escalators/Conveyors	150 lux
Atria	50 – 200 lux
Atria with plants	500 – 3000 lux
Entrances/Exits	200 lux

ENGINEERING

Tool shops	500 – 750 lux
Arc welding	500 lux
Spot welding	500 – 1000 lux
Heavy machine assembly	300 lux
Inspection and testing	500 – 2000 lux

BANKS & BUILDING SOCIETIES

Counter offices	500 lux
Public areas	500 lux

STAFF AREAS

Changing rooms & toilets	100 lux
Restrooms	150 lux
Restaurants & canteens	200 lux

KITCHENS

Serving & washing up areas	500 lux
Food preparation & cooking	500 lux
Food stores	150 lux

PUBLIC ACCESSIBILITY

Churches & village halls	200 lux
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COMMUNICATION

Switchboards	300 lux
Post rooms	500 lux

DISTRIBUTION & STORAGE

Loading bays	150 lux
Unpacking & sorting	200 lux
Large item stores	100 lux
Small-item stores	200 lux
Trade counter	500 lux
Warehouse/Bulk Stores	100 lux
Packing & despatch	300 lux
Cold stores	300 lux

BUILDING SERVICES AREAS

Boiler house	100 lux
Control rooms	300 lux
Mechanical plant rooms	150 lux
Electrical plant rooms	100 lux

GENERAL AREAS

Entrance halls & lobbies	200 lux
Enquiry desks	500 lux
Gatehouses	200 lux



To discuss your project today, call

0333 0230 827



Or email us about your lighting project now!

info@leddirect.co.uk

The infographic above provides a helpful guide to the CIBSE recommended lighting levels for the most common premises types. This is only a guide and any specific building requirements need to be carefully considered. If in doubt, consult our expert! LED Direct can provide advice on the correct lighting solution for any application, drawing on our decades of experience in the lighting sector.

Cibse Lighting Guide 6

**Chartered Institution of Building
Services Engineers, Society of Light
and Lighting**



Cibse Lighting Guide 6:

Lamps and Lighting M.A. Cayless, 2012-08-21 This book is a comprehensive guide to the theory and practice of lighting. Covering the physics of light production, light sources, circuits and a wide variety of lighting applications, it is both suitable as a detailed textbook and as a thoroughly practical guide for practising lighting engineers. This fourth edition of *Lamps and Lighting* has been completely updated with new chapters on the latest lamp technology and applications. The editors have called upon a wide range of expertise and as a result many sections have been broadened to include both European and US practice. The book begins with a description of the fundamentals of light, vision, colour and measurement. Part II, the main section of the book, deals with lamps and control equipment and includes descriptions of all lamp types in use today. Part III on lighting covers both interior and exterior applications.

The Colour, Light and Contrast Manual Keith Bright, Geoffrey Cook, 2010-01-06 Endorsed by the Society of Light and Lighting, this practical book offers comprehensive guidance on how colour, light and contrast can be incorporated within buildings to enhance their usability. The book provides state-of-the-art clear guidance as well as a valuable information source for busy professionals involved in the design or management of new and existing environments. The ways colour, light and contrast are used within built environments are critical in determining how people interact with the space and how confident, safe and secure they will feel when doing so. They also have a major influence on a person's sense of well-being and their ability to use the environment independently and without undue effort. Understanding how to use colour and contrast and how they are influenced by both natural and artificial lighting is vital for all those involved in the design and management of the environments and spaces we all use. In recent years there has been a considerable amount of work undertaken to further our understanding of how colour, light and contrast affect emotion and sensory abilities and how they can assist or hinder people in their everyday lives. Other publications consider these issues individually but *The Colour, Light and Contrast Manual* designing and managing inclusive built environments draws knowledge and information together to produce a unique comprehensive and informative guide to how the three elements can work together to improve the design and management of environments for us all. Supporting website at www.wiley.com/go/brightandcook

Code for Lighting Cibse, Cibse, 2007-06 The Code for Lighting has been revised and updated to include exterior lighting as well as interior lighting. The book takes into account new legislation such as the 2002 revision of Part L of the Building Regulations as well as new and forthcoming International and European Standards on lighting and ergonomics. It also reflects new initiatives on energy conservation in the UK. This book is primarily intended to provide guidance to those responsible for the design, installation, commissioning, operation and maintenance of building services.

Code for Lighting Chartered Institution of Building Services Engineers, Society of Light and Lighting, 2002 The Code for Lighting has been revised and updated to include exterior lighting as well as interior lighting. The book takes into account new legislation such as the 2002 revision of Part L of the Building Regulations as well as new and forthcoming International

and European Standards on lighting and ergonomics It also reflects new initiatives on energy conservation in the UK This book is primarily intended to provide guidance to those responsible for the design installation commissioning operation and maintenance of building services Fully updated to take account of the Building Regulations 2002 Part L revisions Key reference tool for interior and exterior lighting Illustrated in colour throughout **Landscape Architect's Pocket Book** Siobhan Vernon,Rachel Tennant,Nicola Garmory,2013-04-17 An indispensable tool for all landscape architects this time saving guide answers the most frequently asked questions in one pocket sized volume It is a concise easy to read reference that gives instant access to a wide range of information needed on a daily basis both out on site and in the office Covering all the major topics including hard landscaping soft landscaping as well as planning and legislation the pocket book also includes a handy glossary of important terms useful calculations and helpful contacts Not only an essential tool for everyday queries on British standards and procedures this is a first point of reference for those seeking more extensive supplementary sources of information including websites and further publications This new edition incorporates updates and revisions from key planning and environmental legislation guidelines and national standards Recommended Practice on Lighting for Educational Facilities ,2000 **Handbook on the Wiring Regulations** Electrical Contractors' Association (ECA),2008-04-15 This well established handbook written and sponsored by the Electrical Contractors Association and Select formerly the Electrical Contractors Association of Scotland provides a detailed authoritative guide to the Wiring Regulations BS 7671 Requirements for Electrical Installations As the regulations are not drafted by topic the handbook will be particularly useful in guiding designers installers inspectors and testers round the various requirements It gives practical guidance on how to approach new installations extensions to existing installations and the more extensive testing and inspection which are required The handbook has been revised to take account of amendments introduced by BS 7671 2001 effective from 1 January 2002 The most significant changes are chapter 13 rewritten to include three sections on protection for safety design and selection of electrical equipment a new chapter 44 on overvoltage protection a new chapter 48 on high fire risk situations revisions to the requirements on rooms containing a bath or shower new earthing requirements for the installation of equipment with high protective conductor outlets **Lighting for Driving** Peter R. Boyce,2008-12-04 By considering vehicle signal and road lighting as integrated means of communication this unique authoritative work explains the thinking and scientific reasoning behind various forms of lighting and analyzes their contribution to the driver s understanding of real and potential road hazards Attention is also given to how these forms of lighting are likely to evolve in response to the development of new technology and an improved understanding of ergonomics **Building Services Design for Energy Efficient Buildings** Paul Tymkow,Savvas Tassou,Maria Kolokotroni,Hussam Jouhara,2020-07-12 The role and influence of building services engineers are undergoing rapid change and are pivotal to achieving low carbon buildings However textbooks in the field have tended to remain fairly traditional with a detailed focus on the technicalities of

heating ventilation and air conditioning HVAC systems often with little wider context This book addresses that need by embracing a contemporary understanding of the urgent challenge to address climate change together with practical approaches to energy efficiency and carbon mitigation for mechanical and electrical systems in a concise manner The essential conceptual design issues for planning the principal building services systems that influence energy efficiency are examined in detail These are HVAC and electrical systems In addition the following issues are addressed background issues on climate change whole life performance and design collaboration generic strategies for energy efficient low carbon design health and wellbeing and post occupancy evaluation building ventilation air conditioning and HVAC system selection thermal energy generation and distribution systems low energy approaches for thermal control electrical systems data collection controls and monitoring building thermal load assessment building electric power load assessment space planning and design integration with other disciplines In order to deliver buildings that help mitigate climate change impacts a new perspective is required for building services engineers from the initial conceptual design and throughout the design collaboration with other disciplines This book provides a contemporary introduction and guide to this new approach for students and practitioners alike Integrated Sustainable Design of Buildings Paul Appleby, 2012-10-12 Integrated Sustainable Design of Buildings aims to provide a guide to members of design and masterplanning teams on how to deliver sustainable development and buildings cost effectively meeting current and emerging UK and international statutory and planning requirements Using a series of case histories and examples from the author s ten years of providing sustainability advisory services the book sets out a clear and understandable strategy that deals with all aspects of sustainable design and construction and the implications for delivery costs saleability and long term operation The extensive scope includes all aspects of environmental social and economic sustainability including strategies to reduce carbon emissions and the impact of climate change Integrated Sustainable Design of Buildings appeared in the Cambridge Top 40 Sustainability Books of 2010

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web hydrostatic testing is universally known and accepted as a means of demonstrating the fitness of a pressurized component for service after a hydro test a tank can be expected to safely contain its intended operating pressure the hydro test shall be conducted before permanent external piping is connected to the tank

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hydrostatic test must be performed they do not have detailed procedures on how a hydrostatic test is performed there is information available in api 650 appendix s section s 4 10 specific to stainless steel tanks api

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