

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 – 5000 lux
Heavy machine assembly	500 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	500 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 & dispatch	300 lux
Cold stores	300 lux

BUILDING SERVICES AREAS

Boiler house	100 lux
Control rooms	500 lux
Mechanical plant rooms	150 lux
Electrical plant rooms	100 lux

GENERAL AREAS

Entrance halls & lobbies	200 lux
Inquiry 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 Lg6 Lighting Guide

**Electrical Contractors' Association
(ECA)**

A red circular graphic with a gradient, appearing as a stylized light or lens flare, positioned to the right of the ECA text.

Cibse Lg6 Lighting Guide:

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

The Lit Environment Derek Phillips, 2002 Building on the success of his previous two books in this series **The Lit Environment** sees Derek Phillips approaching the topic of exterior lighting. This book addresses the issues raised by the perception of light experienced by people who are outside buildings. It is not simply about floodlighting buildings but takes a more embracing approach to deal with light for the whole external environment. Covers a comprehensive range of buildings through 30 international case studies including buildings in Britain France Germany Denmark Israel Egypt and the United States. The book represents a strong fusion of science and quantity with light and vision. Visually inclined designers should understand how science can improve their vision and engineers with a strong science basis should understand how they can come to terms with visual affects. This book illustrates the essence of how to light buildings well. Benefit from the experience and knowledge of a top architect and lighting engineer. Gain an understanding of the design principles involved with this comprehensive overview of exterior lighting. International case studies from Lyon to Tel Aviv as well as the United States show theory in practice

The Design of Lighting Peter Tregenza, David Loe, 2003-09-02 Written primarily for the practising designer **The Design of Lighting** brings together in one volume all that the practitioner is likely to need. The authors combine a technical introduction to lighting and colour theory with a guide to design concepts and criteria to create a comprehensive source book for architects and designers on interior lighting design

Intelligent Building Systems Albert Ting-pat So, Wai Lok Chan, 2012-12-06 Intelligent building is the future of our building industry all commercial residential industrial and institutional buildings will

be designed towards the goal of intelligent buildings The most important aspect of an intelligent building is the building systems such as electrical services heating ventilation and air conditioning systems vertical transportation systems and life safety systems which must operate intelligently and efficiently to enhance the activities of the occupants Intelligent Building Systems explains what already exists in a modern intelligent building and describes what is currently being developed by researchers to improve human comfort working efficiency and energy performance for buildings in the 21st century Intelligent Building Systems is divided into three parts The first part gives a quick review of the structure terminology layout and operating principles of most standard modern building systems The second part introduces the background material necessary to understand intelligent building systems including information on electronics technology fundamental mathematics and techniques in artificial intelligence and signal processing These first two parts are the foundation for the final part which consists of research works carried out by the authors and other researchers in the application of artificial intelligence to building systems The technologies presented will encourage readers to envision new and innovative ideas on possible future applications Intelligent Building Systems is relevant to practitioners and researchers in the area of architectural science and engineering electrical and mechanical services and intelligent buildings It may also be used as a text for advanced courses on the topic

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

Light Pollution Bob Mizon, 2012-12-06 Light pollution is the modern scourge of optical astronomy More and more observing sites are being lost as the glare of city lighting blots out the night sky Professional astronomical observatories are located far from cities but amateur astronomers often do not have this luxury This book considers the two available strategies open to astronomers get rid of the light pollution by lobbying Authorities and Standards Organisations and minimise its effects by using the correct instrumentation The book contains an extensive detailed catalogue of deep sky and other objects that despite what one might believe can be seen from variously light polluted sites for practical observers

The Human and Social Dimension of Urban Lightscapes Daria

Casciani,2020-11-02 This book explores new criteria and characteristics for integrating human psychology in the design of modern urban lighting It identifies a new area of lighting design research and practice that focuses on the nocturnal urban experience in terms of people s emotional cognitive and motivational perceptions to achieve more accessible sociable and sustainable cities In turn the book compares new tools and research methodologies for tackling complex issues concerning the ties between lighting people and the city Moreover it presents a series of case studies to provide an in depth understanding of the influence of urban lighting in terms of luminous atmosphere perception positive social affect social enhancement accessibility and hospitability Lastly the book proposes a multidisciplinary qualitative and quantitative methodology for assessing the spatial experience of outdoor lighting

Daylighting Derek Phillips,2012-05-23 Daylighting offers a general theory and introduction to the use of natural light in architecture The fourth of Derek Phillip s lighting books draws on his experience to illustrate how best to bring natural light into building design As sustainability becomes a core principal for designers daylighting comes to the fore as an alternative to artificial energy consuming light Here Phillips makes a rational argument for considering daylight first outlining the arguments in favour of a daylight approach and goes on to show through a series of beautifully illustrated case studies how architects have created buildings in which natural light has been shown to play a major strategic role in the development of the design of a building

Lighting Design for Schools Great Britain. Department for Education and Employment. Architects & Building Branch,1999 Lighting Design for Schools

International Journal of Lighting Research and Technology ,1996

Cibse Lighting Guide Lg4: Sports Cibse Staff,1990-12

The Architects' Journal ,1994

Safer City Centres Tanner Oc,Steve A Tiesdell,1997-04-28 This book discusses safety in the public space of city centres and thus in the public realm It deals with the design management of city centres and how this can be modified to reduce opportunities for anti social behaviour and at the same time lessen fear of crime The various chapters show how crime could be reduced and how centres of town and cities might be reclaimed made safer and more liveable

Adapt du r sum de l diteur

Cibse Lighting Guide Lg9: Lighting for Communal Residential Buildings Chartered Institute Of Building Services Engineers Staff,1997-12

Kempe's Engineers Year-book ,2002

Code for Lighting Cibse,2007-06-01 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

Lighting Guide Chartered Institution of Building Services Engineers,2022

Lighting Guide ,1989

Lighting Guide 14 ,2016 This LG14 Control of electric lighting is the first edition of a wholly new SLL Lighting Guide It sets out a logical approach for the professional designer to consider the consultation design specification commissioning and handover of a lighting installation

incorporating controls Luminaire and controls technology is moving quickly and some forms of emerging controls technology have yet to prove themselves and become commonplace in the built environment For this reason LG14 acknowledges the existence of these new technologies and future editions will incorporate design considerations as these technologies become proven and commonplace As other SLL Lighting Guides the SLL Code for Lighting and the SLL Lighting Handbook are revised the sections on controls contained within these other publications will be revised to align with LG14

Lighting

Guide 9 - Lighting for Communal Residential Buildings CIBSE,2013

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