LED Direct's Guide for CIBSE Recommended Lighting Levels

L=D DIRECT

General 500 lux Computer work stations 300 – 500 lux Filing rooms 300 lux Print rooms 300 lux Drawing office 500 lux CAO 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	
Comidors & stairs	100 has	
Escalators/Conveyors	150 tux	
Atria	50 - 200 han	
Atria with plants	500 - 3000 lux	
Entrances/Exits	200 lux	

ENGINEERING	
lool shops	300 - 750 tus
vs welding	000 hax
pot welding	500 - 1000 tax
leavy machine assembly	300 lux
respection and testing	500 - 2000 line
BANKS & BUILD	ING SOCIETIES
Counter offices	500 lus
NOTIC areas	900 lips
STAFF	AREAS
Changing rooms & tollets	100 lux
Nestrooms	150 lun
Nostaurants & cardeens	200 hax
кітсі	HEMS
ierving & washing up areas	300 lux

Pood stones	190 (48	
PUBLIC A	CCESSIBILITY	
Churches & village halls	500 lux	

COMMUNICATION	
Switchboards	300 fux
Post rooms	500 lux
DISTRIBU	TION & STORAGE

Loading bays	150 lux	
Unpacking & sorting	200 lux	
Large item stores	100 hax	
Small-item stones	200 lux	
Trade counter	500 lux	
Warehouse/Bulk Stores	100 fex	
Packing & dispatch	300 fax	
Cold stores	300 fux	

100 lux		
300 lux		
150 lax		
100 lux		

BUILDING SERVICES AREAS

GENERAL AREAS		
Entrance halls & lobbles	200 lux	
Enquiry desks	500 tux	
Gatehouses	200 lun	



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The integraphic above provides a height guide to the CBSE 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 could, consist our expensif LEC Direct can provide advice on the connect lighting socialism, drawing on our decades of experience in the lighting sector.

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AN Whitehead

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Cibse Lighting Guide Lg4: Sports Cibse Staff,1990-12 Cibse Lighting Guide Lg9: Lighting for Communal Residential Buildings Chartered Institute Of Building Services Engineers Staff,1997-12 **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 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 ahve 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 bookoffers comprehensive guidance on how colour light and contrast canbe incorporated within buildings to enhance their usability Thebook provides state of the art clear guidance as well as avaluable 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 builtenvironments are critical in determining how people interact withthe space and how confident safe and secure they will feel whendoing so They also have a major influence on a person ssense of well being and their ability to use the environmentindependently 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 workundertaken 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 toproduce a unique comprehensive and informative guide to how thethree elements can work together to improve the design andmanagement of environments for us all Supporting website at www wiley com go brightandcook 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 Metric Handbook Pamela Buxton, 2015-03-05 Significantly updated in reference to the latest construction standards and evolving building types Many chapters revised including housing transport offices libraries and hotels New chapter on flood aware design Sustainable design integrated into chapters throughout Over 100 000 copies sold to successive generations of architects and designers this book belongs in every design studio and architecture school library The Metric Handbook is the major handbook of planning and design information for architects and architecture students Covering basic design data for all the major building types it is the ideal starting point for any project For each building type the book gives the basic design requirements and all the principal dimensional data and succinct guidance on how to use the information and what regulations the designer needs to be aware of As well as building types the Metric Handbook deals with broader aspects of design such as materials acoustics and lighting and general design data on human dimensions and space requirements The Metric Handbook provides an invaluable resource for solving everyday design and planning **Lighting Guide** Chartered Institution of Building Services Engineers, 2022 problems Lighting Modern Buildings Derek Phillips, 2013-06-17 This is an important book written by one of the top lighting designers in the country Written at the end of a career as an architect and lighting designer the book draws on the experience gained while living through a period of intense lighting development from 1956 up to the millenium It bridges the gap between the present day architect and lighting engineer from the viewpoint of the independent lighting designer Lighting Modern Buildings documents the part played by the independent lighting designer leading to a greater understanding by architects and lighting engineers of the importance of lighting in architectural design The book starts with an exploration of the basic human needs of vision and the perception of our exterior world the intellectual and the physical since this is what lighting is all about To do this it is necessary to trace the development of daylight from earliest times up to the present day the starting point for any lighting design is the natural source Whilst an essential understanding of the role of daylight is the beginning a knowledge of the various forms and properties of artificial light is essential not only at night but during the day In early buildings there was one form of light daylight during the day and another artificial at night No attempt was made to integrate the two The situation today is different there are many reasons for this not least in the possibilities of modern structure The book therefore has extensive coverage of day and night lighting and how it is designed to provide optimum solutions in building design A major portion of Derek Phillips book is devoted to design Sufficient technical detail is provided in the book to permit an understanding of the design principles of each scheme Schemes illustrated vary from small domestic buildings churches

and workplace to those devoted to leisure and sport At the end of each section a series of conclusions are drawn leading to a philosophy of lighting design 101 Rules of Thumb for Low-Energy Architecture Huw Heywood, 2021-08-31 Buildings and construction are a major contributor to the climate and biodiversity emergency They account for nearly 40% of energy related carbon dioxide CO2 emissions It is more important than ever for architects to design responsibly and create low carbon low energy buildings for a sustainable future 101 Rules of Thumb sets out the essential elements of low energy architecture in a fresh intuitive way Where ever changing technology and complex legislation can cloud the designer s thought process this book equips you with the fundamentals you need to minimise CO2 emissions design for low energy use and work with not against the forces of nature With reliable simple rules of thumb each page focuses on a single piece of guidance along with a clear hand drawn illustration The emphasis is on passive low energy principles and the rules of thumb cover all the design fundamentals from site and location to orientation and form peppered with ideas to help the designer think outside the box drawing inspiration from traditional methods photoperiodic plants and the black tailed prairie dog An extended fully updated narrative bibliography explores the sources in detail and provides a valuable springboard for further study Applicable throughout the world in any climate region 101 Rules of Thumb is a global primer to be dipped into at any time as a quick means of refocusing on what s important when designing a new or retrofitted low energy building The rules cover Site and location Orientation and form The low energy building envelope Carbon free heating cooling and lighting Passive low energy principles Mechanical and Electrical Equipment for Buildings Walter T. Grondzik, Alison G. Kwok, Benjamin Stein, John S. Reynolds, 2011-01-31 For more than half a century this book has been a fixture in architecture and construction firms the world over Twice awarded the AIA's Citation for Excellence in International Architecture Book Publishing Mechanical and Electrical Equipment for Buildings is recognized for its comprehensiveness clarity of presentation and timely coverage of new design trends and technologies Addressing mechanical and electrical systems for buildings of all sizes it provides design guidelines and detailed design procedures for each topic covered Thoroughly updated to cover the latest technologies new and emerging design trends and relevant codes this latest edition features more than 2 200 illustrations 200 new to this edition and a companion Website with additional resources

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