

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

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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 2015

**Electrical Contractors' Association
(ECA)**



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Metric Handbook Pamela Buxton, 2021-11-25 The Metric Handbook is the major handbook of planning and design data for architects and architecture students with over 100 000 copies sold to successive generations of architects and designers It remains the ideal starting point for any project and belongs in every design office The seventh edition references the latest regulations and construction standards and includes new chapters on data centres and logistics facilities alongside basic design data for all the major building types 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 buildings 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 is the unique reference for solving everyday planning problems

Handbook of Retrofitting High Density Residential Buildings Bertug Ozarisoy, Hasim Altan, 2023-01-01 This book investigates energy use and measures to improve the energy efficiency of public housing using post war social housing development estates in Cyprus as its example On this Mediterranean island which experiences hot and humid temperatures throughout the year residential buildings need to adapt to the climate to improve the thermal comfort of their occupants The book assesses the domestic energy use of inefficiently built residential tower blocks and their occupants thermal comfort by considering the significant impact of overheating risks on energy consumption and occupants thermal comfort and well being with the intention of evaluating the current energy performance of base case representative residential tower blocks RTBs In particular considering the cooling energy demand in the summer using Famagusta Cyprus as a case study It seeks to identify the impact of occupancy patterns and habitual adaptive behaviour of households on home energy performance in order to provide bases for the information needed to calibrate building energy performance of targeted households

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

Deep Energy Retrofit—A Guide for Decision Makers

Alexander Zhivov, Rüdiger Lohse, 2021-02-10 Many governments worldwide are setting more stringent targets for reductions in energy use in government public buildings Buildings constructed more than 10 years ago account for a major share of energy used by the building stock However the funding and know how applied knowledge available for owner directed energy retrofit projects has not kept pace with new requirements With typical retrofit projects reduction of energy use varies between 10 and 20% while actual executed renovation projects show that energy use reduction can exceed 50% and can cost effectively achieve the Passive House standard or even approach net zero energy status EBC Annex 61 2017a Hermelink and M ller 2010 NBI 2014 RICS 2013 Shonder and Nasser 2015 Miller and Higgins 2015 Emmerich et al 2011 Building energy efficiency EE ranks first in approaches with resource efficiency potential with a total resource benefit of approximately 700 billion until 2030 EE is by far the cheapest way to cut CO₂ emissions McKinsey 2011 IPCC 2007 However according to an IEA study IEA 2014a more than 80% of savings potential in building sector remains untapped Thus the share of deployed EE in the building sector is lower than in the Industry Transport and Energy generation sectors Estimates for the deep renovation potentials show 600 900bn investment potential 1000 1300bn savings potential 70% energy saving potential and 90% CO₂ reduction potential

Sustainable Construction

Sandy Halliday, 2018-12-07 The second edition of Sustainable Construction provides a masterclass on the principles and techniques involved in the design and delivery of practical affordable high quality sustainable buildings and places It presents precedents theory concepts and principles alongside 120 wide ranging case studies that highlight current best practice and encourage implementation Topics in the book include the history of ideas in sustainable construction policy materials cost issues appraisal techniques environmental design energy water construction processes and urban ecology The book is heavily illustrated in full colour and is an ideal contemporary accessible primer to courses in Architecture Construction Building Engineering Environmental Engineering Project Management Landscape Urbanism and Development

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 re focusing 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

Circadian Lighting Design in the LED Era Maurizio Rossi,2019-02-06 This book explores how lighting systems based on LED sources have the ability to positively influence the human circadian system with benefits for health and well being The opening chapters examine the functioning of the human circadian system its response to artificial lighting potential health impacts of different types of light exposure and current researches in circadian photometry A first case study analyzes the natural lighting available in an urban interior concluding that it is unable to activate the human circadian system over the entire year Important original research is then described in which systems suitable for artificial circadian lighting in residential interiors and offices were developed after testing of new design paradigms based on LED sources Readers will also find a detailed analysis of the LED products available or under development globally that may contribute to optimal artificial circadian lighting as well as the environmental sensors control interfaces and monitoring systems suitable for integration with new LED lighting systems Finally guidelines for circadian lighting design are proposed with identification of key requirements

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

Environmental Ergonomics: Principles, Methods, and Applications Ken Parsons,2025-04-14 Environmental Ergonomics Principles Methods

and Applications provides the philosophy principles and application of environmental ergonomics as a universal concept and considers total environments as an integration of environmental factors to which people are exposed The book develops the definition of environmental ergonomics and presents the principles methods and application of knowledge in the areas of human response to heat and cold sound vibration light and air quality and addresses diverse environments and people The title explains the effects of the environment on the health comfort and performance of people for all environmental components introduces environmental ergonomics as a universal subject and offers general principles and methods for measuring and representing the environment and its effects A wide range of case studies demonstrates the application of the subject for all environmental components and for integrated environments Special environments such as vehicles and unique populations such as people with disabilities are considered in the book The title concludes with an in depth understanding of total environments with a description of how to conduct an environmental ergonomics survey and a case study An ideal read for any professional or student interested in environmental ergonomics including architects occupational hygienists interior designers systems engineers civil engineers HVAC engineers and building services engineers The title will help any reader develop a thorough understanding of the effects of the environment on the health comfort and performance of people

Colour Design Janet Best, 2017-06-08 *Colour Design Theories and Applications* Second Edition provides information on a broad spectrum of colour subjects written by seasoned industry professionals and academics It is a multidisciplinary book that addresses the use of colour across a range of industries with a particular focus on textile colouration Part One deals with the human visual system colour perception and colour psychology while Part Two focuses on the practical application of colour in design including specifically in textiles and fashion Part Three covers cultural and historical aspects of colour as well as recent developments addressing areas such as dyes and pigments architecture colour theory virtual reality games colour printing website development and sustainability This revised expanded and updated edition reflects recent technological developments and new industry priorities Bringing together the science of colouration and the more artistic elements of design this book supports students academics and industry professionals in developing a deep knowledge of colour use It will also be an important reference for those involved in textile dyeing design and manufacture Provides a comprehensive review of the issues surrounding the use of color in textiles Discusses the application of color across a wide range of industries supporting interdisciplinary knowledge and research Offers a revised expanded and updated look that reflects the rise of new technology and industry priorities

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