

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	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 Lighting Level Guide

Derek Phillips



Cibse Lighting Level Guide:

Electrical Engineer's Reference Book M. A. Laughton, D.F. Warne, 2002-09-27 For ease of use this edition has been divided into the following subject sections general principles materials and processes control power electronics and drives environment power generation transmission and distribution power systems sectors of electricity use New chapters and major revisions include industrial instrumentation digital control systems programmable controllers electronic power conversion environmental control hazardous area technology electromagnetic compatibility alternative energy sources alternating current generators electromagnetic transients power system planning reactive power plant and FACTS controllers electricity economics and trading power quality An essential source of techniques data and principles for all practising electrical engineers Written by an international team of experts from engineering companies and universities Includes a major new section on control systems PLCs and microprocessors

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

Daylight, Design and Place-Making Hisham Elkadi, Sura Al-Maiyah, 2020-12-21 Daylight Design and Place Making examines the role of daylight in creating and revealing the wonders of heritage and contemporary architecture Shifting from a purely technical approach to daylighting this book places importance on the creation of meaningful aesthetics through an understanding of context and culture Cultural applications of light in architecture differ depending on various historical technological and social characteristics Increasingly there is a revival of interest in contemporary architecture using daylight as an essential contextual ingredient in the design process By examining the architecture of daylight in different locales and setting these in their historical contexts the book argues that appropriate use of daylight will ensure not only visual and thermal comfort in the urban setting and aid in energy efficiency but also will contribute to the overall identity of new buildings particularly in urban regeneration projects This book brings together an analysis of technical aspects of daylight performance and environmental impact with discussions on the psychology of daylighting and its influence in shaping perceptions of our built environment It will be an ideal read for academics and researchers interested in architecture and cultural studies

Hospital Accommodation for Children and Young People NHS Estates, 2005 This publication sets out best practice guidance on the design of healthcare facilities for children and adolescents with the aim of

creating a child centred built environment It is primarily intended for new builds and upgrades of existing childrens facilities Central considerations are alleviating fear and anxiety maximising security and safety reducing boredom and creating a healing environment Facilities should also cater for parents and siblings Issues discussed include general functional and design considerations including patient groups capacity planning space access and security requirements play facilities and privacy aspects design of specific service areas including reception out patient and in patient facilities engineering services and cost information **Cibse Lighting Guide Lg4: Sports** Cibse Staff,1990-12 **Building Services Journal** ,2006

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 **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 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

SASH Design Guide 1 Sports Council (Great Britain),1986 **Lighting** D.C. Pritchard,2014-09-25 Lighting now in its sixth edition is the standard text on the principles and practice of lighting interiors and exteriors The book introduces all the main principles of light and colour along with the design of general lighting schemes It complies with the CIBSE lighting code and guides covers the main calculations that a lighting designer needs to do and includes worked examples The book starts with the theory of light and how it is perceived by the eye It looks at the units used and the subjective effect of colour The characteristics of various types of lamp are described along with luminaires the equipment that contains the lamps The effects of daylight on light levels indoors are described before going on to look at the design of general lighting schemes The book concludes with chapters looking at lighting for specific applications including roadway lighting floodlighting and the interior of specific building types **The Building Regulations 2000** Stationery Office,2006-03-28 Building Regulations 2000 L2a

Lighting Design + Application ,1996 **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 Lighting Journal* ,1990

Recommended Practice on Lighting for Educational Facilities ,2000 **International Journal of Lighting Research and Technology** ,1996 Cibse Lighting Guide Lg9: Lighting for Communal Residential Buildings Chartered Institute Of Building Services Engineers Staff,1997-12 Guidelines for Environmental Design in Schools Great Britain. Department for Education and Employment. Architects & Building Branch,1997 This guide provides advice on meeting the standards prescribed in The Education School Premises Regulations 1996 It replaces Design Note 17 The guidelines are aimed at the designers of new school buildings but may also be used for the improvement of existing buildings **Stadia** Geraint John,Rod Sheard,2000 This completely updated third edition is an essential design guide for those responsible for designing and providing new stadia and also making major alterations to existing buildings Stadia are one of the most exciting building types designed well they can enhance and provide a comfortable venue for great occasions One new chapter for this edition Stadia and Tourism looks at this modern very interesting aspect of stadia This authoritative and comprehensive guide to stadia design will be invaluable to those responsible for the provision of new stadia or refurbishment Both authors have been involved in the design of stadia arenas and grandstands for many years and this book reflects their wealth of experience and expertise

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