

CIBSE Guideline & Recommended Lighting Levels

The below table provides a guide to the CIBSE recommended lighting levels for the most commercial environments.

Please note this is only a guide and any specific area requirements should be considered and designed in accordance. These levels are based on the C.I.B.S.E guide for interior lighting and cover only the most common applications.

Area	Recommended Lighting Level	Area	Recommended Lighting Level
Offices		Retailing	
General	500 Lux	Small Retail Outlets	500 Lux
Computer Work Stations	300 – 500 Lux	Supermarkets	750 Lux
Filing Rooms	300 Lux	Hypermarkets	1000 Lux
Print Rooms	300 Lux	DIY Superstore	1000 Lux
Drawing Office	500 Lux	Garden Centres	500 Lux
Drawing Boards	750 Lux	Showrooms	500 – 750 Lux
CAD Design Areas	300 – 500 Lux		
Engineering		Banks & Building Societies	
Tool Shops	300 – 750 Lux	Counter Offices	500 Lux
Arc Welding	300 Lux	Public Areas	300 Lux
Spot Welding	500 – 1000 Lux	Staff Areas	
Heavy Machine Assembly	300 Lux	Changing Rooms & Toilets	100 Lux
Inspection and Testing	500 – 2000 Lux	Rest Rooms	150 Lux
		Restaurants & Canteens	200 Lux
Distribution & Storage		General Areas	
Loading Bays	150 Lux	Entrance Halls & Lobbies	200 Lux
Unpacking & Sorting	200 Lux	Enquiry Desks	500 Lux
Large Item Stores	100 Lux	Gatehouses	200 Lux
Small Item Stores	200 Lux	Cold Stores	300 Lux
Trade Counter	500 Lux	Kitchens	
Warehouse/Bulk Stores	100 Lux	Serving & Washing Up Areas	300 Lux
Packing & Dispatch	300 Lux	Food Preparation & Cooking	500 Lux
Cold Stores	300 Lux	Food Stores	150 Lux

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eWork and eBusiness in Architecture, Engineering and Construction Ardeshir Mahdavi, Bob Martens, Raimar Scherer, 2014-08-21 In the last two decades the biannual ECPPM European Conference on Product and Process Modelling conference series has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT Information and Communication Technology applications in the AEC FM Architecture Engineering Construction and 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 **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 *A Whole-System Approach to High Performance Green Buildings* David Strong, Victoria Burrows, 2016-12-31 This authoritative new resource provides a comprehensive review of the current approaches to the design and construction of sustainable buildings This hand on guide features global case studies with practical examples of both successful and unsuccessful designs The whole system approach to integrated design is clearly presented This book includes insight into designing for the future including design quality and future proofing intelligent buildings and whole life value Nature inspired sustainable designs that can be mimicked in the construction industry are presented Technical challenges such as energy efficiency design and computer modeling are

explored along with various construction phase opportunities

Value Management in Construction and Real Estate Geoffrey Q. P. Shen, Ann T. W. Yu, 2015-10-05 This cutting edge study explores alternative methods and tools to obtain value for money while maintaining quality in construction projects especially large and complex ones Extensive references throughout will help the reader develop a deeper understanding of the methodology and self study questions help to keep you on track Ideal as a reference for practitioners and the perfect intro for students of construction or real estate

Urban and Transit Planning Hocine Bougdah, Antonella Versaci, Adolf Sotoca, Ferdinando Trapani, Marco Migliore, Nancy Clark, 2019-07-20 A volume of five parts this book is a culmination of selected research papers from the second version of the international conferences on Urban Planning Architectural Design for sustainable Development UPADSD and Urban Transit and Sustainable Networks UTSN of 2017 in Palermo and the first of the Resilient and Responsible Architecture and Urbanism Conference RRAU of 2018 in the Netherlands This book not only discusses environmental challenges of the world today but also informs the reader of the new technologies tools and approaches used today for successful planning and development as well as new and upcoming ones Chapters of this book provide in depth debates on fields of environmental planning and management transportation planning renewable energy generation and sustainable urban land use It addresses long term issues as well as short term issues of land use and transportation in different parts of the world in hopes of improving the quality of life Topics within this book include 1 Sustainability and the Built Environment 2 Urban and Environmental Planning 3 Sustainable Urban Land Use and Transportation 4 Energy Efficient Urban Areas Renewable Energy Generation 5 Quality of Life Environmental Management Systems This book is a useful source for academics researchers and practitioners seeking pioneering research in the field

Using the Building Regulations: Part M Access Melanie Smith, 2006-08-11 This informative book takes the practitioner through the requirements for Part M of the Building Regulations explaining and expanding the guidance given in the Approved Document and comparing the advice in BS83000 and other relevant publications Access statements are demystified and the implications for the building in use under the Disability Discrimination Act are clarified It will inform all those working within the built environment enabling them to deal with a complex and evolving area of the law which directly affects everyone As with the other books in the Using the Building Regulations series Part M Access goes far beyond analysis of the Regulations and Documents themselves and offers practical advice on using not just the traditional routes to compliance but also on the alternative approaches suggested but not explained in the Approved Documents The advantages and disadvantages of each form of compliance are analysed in depth

Pharmaceutical Isolators Brian Midcalf, 2004 This work considers the basic concepts definitions and standards necessary in the design construction commissioning maintenance and use of pharmaceutical isolators

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

Energy Master Planning toward Net Zero Energy Resilient Public Communities Guide Alexander Zhivov, 2022-06-13 Best practices from around the world have proven that holistic Energy Master Planning can be the key to identifying cost effective solutions for energy systems that depend on climate zone density of energy users and local resources Energy Master Planning can be applied to various scales of communities e g to a group of buildings a campus a city a region or even an entire nation Although the integration of the energy master planning into the community master planning process may be a challenging task it also provides significant opportunities to support energy efficiency and community resilience by increasing budgets for investments derived from energy savings by providing more resilient and cost effective systems by increasing comfort and quality of life and by stimulating local production which boosts local economies The Guide is designed to provide a valuable information resource for those involved in community planning energy systems engineers architects energy managers and building operators Specifically this Guide was developed to support the application of the Energy Master Planning process through the lens of best practices and lessons learned from case studies from around the globe The Guide introduces concepts and metrics for energy system resilience methodologies and discusses business and financial models for Energy Master Plans implementation This information can help planners to establish objectives and constraints for energy planning and to select and apply available technologies and energy system architectures applicable to their diverse local energy supply and demand situations This Guide is a result of research conducted under the International Energy Agency IEA Energy in Buildings and Communities EBC Program Annex 73 and the US Department of Defense Environmental Security Technology Certification Program ESTCP project EW18 5281 to support the planning of Low Energy Resilient Public Communities process that is easy to understand and execute

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