

Recommended Workplace Lighting Levels

based off the CIBSE recommended lighting levels

Disclaimer: The following lighting levels are our own recommendations and should only be used as a approximate guide. ATP take no responsibility or liability for any persons / company opting to utilise these lighting levels in their own workplace. These recommendations should not replace your own professional assessment of the required lighting levels in your workplace.



Offices

General	500 Lux	Drawing Office	500 Lux
Computer Workstations	300-500 Lux	Drawing Boards	750 Lux
Filing Rooms	300 Lux	CAD Design Area	300-500 Lux
Print Rooms	300 Lux		

Retailing

Small Retail Outlets	500 Lux	DIY Superstore	1000 Lux
Supermarkets	750 Lux	Garden Centres	500 Lux
Hypermarkets	1000 lux	Showrooms	500-750 Lux

Engineering

Tool Shops	300-750 Lux	Heavy Machine Assembly	300 Lux
Arc Welding	300 Lux	Inspection and Testing	500-2000 Lux
Spot Welding	500-1000 Lux		

Banks and Building Societies

Counter Offices	500 Lux	Public Areas	300 Lux
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Staff Areas

Changing Rooms & Toilets	100 Lux	Restaurants & Canteens	200 Lux
Rest Rooms	150 Lux		

Kitchens

Serving and Washing Up Areas	300 Lux	Food Stores	150 Lux
Food Preparation & Cooking	500 Lux		

General Areas

Entrance Halls & Lobbies	200 Lux	Gatehouses	200 Lux
Enquiry Desks	500 Lux		

Circulation Areas

Lifts	100 Lux	Atria	50 – 200 Lux
Corridors & Stairs	100 Lux	Atria with Plants	500-3000 Lux
Escalators / Conveyors	150 Lux	Entrances / Exits	200 Lux

Communication

Switch Boards	300 Lux	Post Rooms	500 Lux
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Cibse Guide Lighting At Workplace Lux Levels

Scott C. Dulebohn



Cibse Guide Lighting At Workplace Lux Levels:

Beyond the Workplace Zoo Nigel Oseland, 2021-09-27 This book begins by outlining the common design mistakes with the modern open plan office and the industry focus on cost that has resulted in the ill fated Workplace Zoo The requirements of office based workers according to psychological theory and research are then explained Dr Oseland references historical studies in psychophysics to describe how to design environmental conditions acoustics lighting temperature indoor air quality that enhance performance by supporting basic physiological needs More contemporary research in environmental psychology investigates how cognition affects our interpretation and response to physical stimuli depending on personality context attitude and other personal factors This in turn informs individual requirements for the environmental conditions as well as group needs Studies in evolutionary psychology and biophilia are also referenced The latter part of the book turns to workplace solutions and focuses on how to plan design and manage offices to accommodate our innate human needs now and in the future The importance of designing for inclusivity is also recognised including accommodating cultural gender and generational differences along with designing spaces for neurodiversity Dr Oseland s proposed workplace solution the Landscaped Office is a revived and revised version of B rolandschaft with a contemporary twist The impact of workplace trends such as agile working and hot desking is also explored and found to complement the workplace solution resulting in the Agile Landscaped Office This book is key reading for professionals and post graduate students in business interior design architecture surveying facilities management building services engineering HR and organisational or environmental psychology

Facilities Manager's Desk Reference Jane M. Wiggins, 2014-02-04 An invaluable source of highly relevant practical information on the all the principal FM services written for the practicing facilities manager in an easily readable concise format To help the facilities manager meet the needs of their organisation the Facilities Manager s Desk Reference provides the facilities manager with an invaluable source of highly relevant practical information on the all the principal FM services as well as information on legal compliance issues the development of strategic policies and tactical best practice information Fully updated over the first edition and presented in an easily readable concise format with a clear practitioner perspective the book covers both hard and soft facilities management issues It will be a first point of reference for all busy facilities managers saving them time by providing access to the information needed to ensure the safe effective and efficient running of any facilities function Fully updated over the 1st edition it contains all the essential data covering the principal FM services Highly practical aimed at the busy FM practitioner Saves time by bringing together essential useful and practical information Benefits students whose courses do not prepare them for the practicalities of professional practice

Integrated Sustainable Design of Buildings Paul Appleby, 2012-10-12 This book aims to provide a guide to members of design and masterplanning teams on how to deliver sustainable development and buildings cost effectively meeting current and emerging UK and international statutory and planning requirements The book sets out a clear and understandable

strategy that deals with all aspects of sustainable design and construction and the implications for delivery costs saleability and long term operation The extensive scope includes all aspects of environmental social and economic sustainability including strategies to reduce carbon emissions and the impact of climate change

Monitoring for Health Hazards at Work John Cherrie,Robin Howie,Sean Semple,2011-06-09 Monitoring for Health Hazards at Work has become an essential companion for students and professionals in occupational hygiene offering a concise account of the dangers faced in a wide variety of work environments and giving practical step by step guidance to gauge exposure It includes Coverage of most major health hazards airborne dust fibres gases vapours noise radiation and biological agents Accounts of the latest equipment and techniques required to monitor such hazards Full guidance on how to undertake risk assessments Now thoroughly revised and restructured by an eminent new team of authors the fourth edition brings this valuable handbook right up to date

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

Workplace ,2000 Code for Lighting Cibse,Cibse,2007-06 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

Environmental Pollution Vijay P Singh,Shalini Yadav,Ram Narayan Yadava,2017-12-29 This book comprises select proceedings of the International Conference on Water

Environment Energy and Society The book is divided into five parts The first part deals with some aspects of environmental pollution such as socio economic environment assessment for sustainable development environmental issues due to fire in coal Mines and its impact and suggestions for implementing precautionary and control measures redevelopment of urban slum dwellings issues challenges air and noise pollution in mega cities importance of indoor environmental quality in green buildings Part II discusses pollution indicators such as assessment and prediction of environmental noise fuzzy logic based performance evaluation fish biodiversity and its periodic reduction effects of anthropogenic activities on fresh water ecosystems and monitoring of air pollution Part III focuses on generation of pollution namely biomedical waste generation and management heavy metal leaching etc Water quality assessment is described in Part IV The Part V presents water quality modeling The book will be of interest to researchers and practitioners in the field of water resources hydrology environmental resources agricultural engineering watershed management earth sciences as well as those engaged in natural resources planning and management Graduate students and those wishing to conduct further research in water and environment and their development and management will also find the book to be of value **Lighting: Interior and Exterior**

Robert Bean,2012-09-10 This guide shows how the concepts used in lighting design arise from the needs of the designer and the user These concepts are shown in a practical context to enable you to develop and improve your design skills Through examples and exercises this book makes it easier for the student to acquire the level of understanding knowledge and skill required for both examinations and professional training purposes Over the past two decades there has been an increasing emphasis on the need for architects and building professionals to have a better understanding of lighting and the ability to deal with lighting matters within the context of the built environment Lighting is no longer considered to be primarily the province of the electrical engineer Previously a separate subject in the professional examinations lighting is often now found in a more general area within an architecture or building course RIBA Climate Guide

Mina Hasman,2023-04-21 Climate change is a threat to humankind which requires immediate action The built environment has a vital role to play in responding to the climate emergency There is a pressing need for architects to acquire the requisite skills and knowledge to design buildings that deliver sustainable outcomes meeting the RIBA 2030 Climate Challenge and mandatory competence in climate literacy Equipping you with the key information that built environment professionals require to halt climate change and mitigate its impacts in your day to day work this book is organised around six overarching topics 1 Human Factors 2 Circular Economy 3 Energy and Carbon 4 Water 5 Ecology and Biodiversity 6 Connectivity and Transport Featuring images and original illustrations each themed section will guide you through fundamental elements and competencies for creating a sustainable design and delivery framework that can be implemented by you in your practice Contextualising the climate emergency within the built environment landscape the guide maps out the essential background knowledge around climate science international agreements legislations commitments and roadmaps A collection of short

building and urban scale case studies present key takeaways illustrating real life applications of design strategies and industry wide tools as well as standards that are deployed in climate conscious built environments all around the world

The Routledge Companion to Paradigms of Performativity in Design and Architecture Mitra Kanaani, 2019-12-06 The Routledge Companion to Paradigms of Performativity in Design and Architecture focuses on a non linear multilateral ethical way of design thinking positioning the design process as a journey It expands on the multiple facets and paradigms of performative design thinking as an emerging trend in design methodology This edited collection explores the meaning of performativity by examining its relevance in conjunction with three fundamental principles firmness commodity and delight The scope and broader meaning of performativity performative architecture and performance based building design are discussed in terms of how they influence today s design thinking With contributions from 44 expert practitioners educators and researchers this volume engages theory history technology and the human aspects of performative design thinking and its implications for the future of design

Safety at Work John R. Ridley, John Channing, 2008 This edition has been extensively revised to encompass changes in health safety employment and environmental legislation Major revisions have been made to the text throughout the book to reflect changes to laws standards and practices

Translation and Processing of Light by the Non-Image Forming Visual System – Context, Mechanisms and Applications Fabian-Xosé Fernandez, Shadab Rahman, Manuel Spitschan, 2021-10-18

Building Services Journal, 2000

Lighting the Electronic Office Gary R. Steffy, 1995 Improper lighting at computer terminals and other work stations can seriously damage the health of workers This book offers real solutions to that problem and systemically examines all sides of this critical issue Analyzing current legislation standards and voluntary guidelines it develops a consensus and recommends means of implementation 50 illustrations

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

The Architects' Journal, 2003

RIBA Journal, 2002

Hobbs' Food Poisoning and Food Hygiene Jim McLauchlin, Christine Little, Betty C. Hobbs, 2007-06-29 This unique textbook takes a holistic approach to food poisoning and food hygiene explaining in clear and non technical language the causes of food poisoning with practical examples from real life outbreaks Now in its seventh edition the book retains its longstanding clarity while being completely revised and updated by a new team of editors

Visual and Non-Visual Effects of Light Agnieszka Wolska, Dariusz Sawicki, Małgorzata Tafil-Klawe, 2020-07-29 The introduction of artificial lighting extends the time of wakefulness after dark and enables work at night thus disturbing the human circadian rhythm The understanding of the physiological mechanisms of visual and non

visual systems may be important for the development and use of proper light infrastructure and light interventions for different workplace settings especially for shift work conditions Visual and Non Visual Effects of Light Working Environment and Well Being presents the impact of lighting in the working environment on human health well being and visual performance The physiological explanation of the visual and non visual effects of light on humans which discusses the biological bases of image and non image forming vision at the cellular level may be of particular interest to any professional in the field of medicine physiology and biology It is one of the intentions of this book to put forward some recommendations and examples of lighting design which take into account both the visual and non visual effects of light on humans These may be of particular interest to any professional in the field of lighting occupational safety and health and interior design What effects on health can a light overdose or light deficiency have What is bad light The authors of the monograph provide answers to these questions Just as for a physicist the dual nature of light comprises an electromagnetic wave and a photon the duality of light for a physician comprises visual and non visual effects Prof Jacek Przybylski Medical University of Warsaw This is a unique publication in the field of lighting technology The authors have skillfully combined both the technical and biomedical aspects involved which is unprecedented in the literature available As a result an important study has been created for many professional groups with a significant impact on the assessment of risks associated with LED sources Prof Andrzej Zaj c Military University of Technology Warsaw

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web apr 6 2014 the formula for acceleration $a = \frac{v_f - v_0}{t}$ and is measured in meters per second ² here is a typical question a car starts from standing top and in 10 seconds is

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web a when a force is applied on an object there is an equal force applied by the object in the opposite direction b when a force acts on an object its acceleration is in the same

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web donor whereas a base generically represented by b is a proton acceptor when acids and bases combine they swap a proton ha b a hb strong acids eg sulfuric acid have a very pronounced tendency to transfer a proton to a base whereas weak acids

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points 50 words the goal of this experiment is using the skills of precision to determine the

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web understand that parts of an acid base titration be able to determine the K_a or K_b from pH data associated with the titration of a weak acid or base be able to determine the molar mass of a solid monoprotic acid from titration data be able to calculate K_{a1} and K_{a2} for a polyprotic acid by the end of this lab students should be able to

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web jul 19 2023 at the beginning of the titration the solution in the erlenmeyer flask is acidic as the base is added it completely reacts with the acid and the solution in the erlenmeyer flask continues to be acidic but at the equivalence point

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web 1 approximately 3 g of hydrated oxalic acid $\text{H}_2\text{C}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ was weighted to the nearest 0.01 g in a 50 ml beaker 2 about 30 ml of distilled water was added to the beaker to dissolve the oxalic acid 3 the solution was transferred into 250 ml volumetric flask the beaker was rinsed and its contents were poured into the flask

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web solution a titrant volume 0 ml the solution ph is due to the acid ionization of hcl because this is a strong acid the ionization is complete and the hydronium ion molarity is 0.100 M the ph of the solution is then $\text{ph} = -\log 0.100 = 1.000$ b titrant volume 12.50 ml

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web one type of titration uses a neutralization reaction in which an acid and a base react to produce a salt and water in equation 1 the acid is hcl hydrochloric acid and the base is naoh sodium hydroxide when the acid and base react they form nacl sodium chloride which is also known as table salt

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