

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

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.

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The Environmental Design Pocketbook Sofie Pelsmakers, 2019-10-23 The Environmental Design Pocketbook 2nd ed places the information you need for sustainable low energy building design at your fingertips Packed with diagrams tools and tips it cuts through the complex mass of technical data and legislation that faces the designer and distils all the key guidance into a single reference that is quick easy to use and points to the facts figures and performance data that are most important This 2nd edition is now fully up to date with the latest Building Regulations Part L and F legislation England and Wales RIBA Plan of Work 2013 new information on the Green Deal and Zero Carbon and contains revised references and further reading sections throughout Whether used in the classroom office or on site the book guides the designer through the entire process from the fundamentals to the building details From future proofing for a changing climate to rainwater harvesting retrofit and zero carbon technologies the Pocketbook has got it covered **Cibse Lighting Guide Lg4: Sports** Cibse Staff, 1990-12

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 *Cibse Lighting Guide Lg9: Lighting for Communal Residential Buildings* Chartered Institute Of Building Services Engineers Staff, 1997-12 **Facilities for cardiac services** Great Britain: Department of Health: Estates and Facilities Division, 2006-12-11 This documents contains best practice advice on the design and layout of new cardiac facilities within acute general hospitals and the recommendations should also be applied when existing facilities are upgraded where practical It covers the following facilities dedicated out patient units for provision of consultation examination and patient support information services non invasive investigations units for example for undertaking ECGs and echocardiography and analysis of pacemakers and other implantable devices catheter laboratories and associated facilities minor cardiac procedures rooms dedicated day case units for admission preparation recovery and discharge of day patients undergoing invasive procedures cardiac operating theatres and associated facilities Key legislation affecting the provision of cardiac facilities is also highlighted This edition of HBN 28 replaces the 2001 edition ISBN 0113224559 **Daylighting**

Derek Phillips, 2012-05-23 Daylighting offers a general theory and introduction to the use of natural light in architecture The fourth of Derek Phillip s lighting books draws on his experience to illustrate how best to bring natural light into building design As sustainability becomes a core principal for designers daylighting comes to the fore as an alternative to artificial energy consuming light Here Phillips makes a rational argument for considering daylight first outlining the arguments in favour of a daylight approach and goes on to show through a series of beautifully illustrated case studies how architects have created buildings in which natural light has been shown to play a major strategic role in the development of the design of a building

Medical Ethics and Laws for Doctors Part 2 Dr Shaikh Ahmad Shaikh Ismail, 2019-06-14 Healthcare is one of a few professions that set a code of decorum for its professionals In yester years the relationship between the doctor and patient was paternalistic but todays scenario has changed The advancement of medical science and technology has made it extremely important to maintain an accord between medicine and ethics to safe guard against malefaction in the field of medicine and research The concept of Medical Law and Ethics basically looks into the inherent rights that patients have regarding the privacy of their medical records doctor patient confidentiality the right to obtain emergency treatment and so on This field essentially sees you juggling between two apparently diverse and widespread fields where your playground is the various ethical considerations that have to be taken seriously while delving into medical science and the various procedures involved in the same Medical education any where in the world is governed by various legislations applicable to different nations regions culuteres and religions Medical teaching is incomplete with out creating awareness of these legal responsibilities to the budding doctors Which is legally depends on the medical terms like bio ethis eugenics euthanasia consensual activity legal rights freedom of information consumer protection lack of communication confidentiality hospital accreditation truth telling conflict of interest referral fee splitting treatment of relatives sexual relationships substituted judgment vender relationships medical futility legal parties medical negligence expert testimony damages medical record privacy law quality of life QoL and reproductive rights Medical law concerns the responsibilities of medical professionals towards the patient and rights of the patient The first recorded medical law was the code of Hammurabi which said if a physician make a large incision with the operating knife and kill him his hands shall be cut off When I was talking to a group of present day surgeons about this the immediate comment was that there would be no body in the hall except the hall boys who would have hands Thus the need for the medical laws arose due to errors and injustice done to the society purposely or inadvertently Ignorance of knowledge is not a crime but negligence is So over the years several laws had to be enunciated to protect the society against the harms from the medical profession Medical ethics is the study of moral values and judgments as they apply to medicine encompassing history philosophy theology and sociology The earliest evidence of professional oath is recorded in the 12th century in the Byzantine manuscript These may be traced to guidelines for physicians in the Hippocratic Oath early Christian teachings Formula Comitum Archiatrorum Muslim medicine Jewish thinkers Roman Catholic

scholastic thinkers Catholic moral theology These intellectual traditions continue in Catholic Islamic and Jewish medical ethics The profession is tailored for medical professionals as well as legal officers as it essential involves a blend of both these practices and professions Moreover the practice of Medical Law and Ethics essentially goes beyond the aspects of just ensuring lack of negligence during medical procedures and prevention of personal injury to the patients The practice of Medical Law and Ethics essentially goes beyond the boundaries of these aforementioned aspects of medical ethics and essentially looks into providing advice to medical practitioners as well as medical organizations helping in the formulation as well as implementation of health policies and medical laws and even extends into functions such as ensuring proper formulation and implementation of appropriate risk management procedures in order to curb the incidence of unethical processes

Site Layout Planning for Daylight and Sunlight P. J. Littlefair, 2011 This highly regarded BRE guide gives advice on site layout planning to achieve good sunlighting and daylighting both within buildings and in the open spaces between them New material covers dense urban areas trees and hedges

Facilities for Pathology Services NHS Estates, 2005-07-04 This document gives best practice advice on the planning and design of accommodation for NHS pathology services It focuses on laboratory based facilities within acute hospitals serving acute and primary care needs across a pathology network It also touches upon point of care testing facilities

Praxishandbuch Green Building Peter Möslle, Michaela Lambertz, Stefan Altenschmidt, Christoph Ingenhoven, 2017-12-18 Nachhaltiges Bauen wird für Investoren Bauherren Nutzer Politik und Gesellschaft immer wichtiger Planung Bau und Betrieb von Green Buildings erfordern eine Berücksichtigung ganz unterschiedlicher Disziplinen in den Bereichen Recht Technik und Architektur Die Autoren aus den unterschiedlichen Fachrichtungen beleuchten diese komplexen Zusammenhänge und zeigen praxistaugliche Lösungen auf

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web oct 23 2011 a description of intergraph plant design system pds how to communicate with pds how to use pds model how to use pds deliverables this has been achieved by combining brief extracts from the many intergraph manuals and a set of step by step guides to building models and operating the system