

# 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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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.

# Lighting In Hostile And Hazardous Environments Cibse Lighting Guide

**Geoff MacAngus-Gerrard**



## **Lighting In Hostile And Hazardous Environments Cibse Lighting Guide:**

**Lamps and Lighting** M.A. Cayless, 2012-08-21 This book is a comprehensive guide to the theory and practice of lighting. Covering the physics of light production, light sources, circuits and a wide variety of lighting applications, it is both suitable as a detailed textbook and as a thoroughly practical guide for practising lighting engineers. This fourth edition of *Lamps and Lighting* has been completely updated with new chapters on the latest lamp technology and applications. The editors have called upon a wide range of expertise and as a result many sections have been broadened to include both European and US practice. The book begins with a description of the fundamentals of light, vision, colour and measurement. Part II, the main section of the book, deals with lamps and control equipment and includes descriptions of all lamp types in use today. Part III on lighting covers both interior and exterior applications.

**Code for Lighting** 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.

**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.

**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.

**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

*Offshore Electrical Engineering Manual* Geoff MacAngus-Gerrard, 2017-11-06 *Offshore Electrical Engineering Manual* Second Edition is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems The book begins with coverage of different types of insulation hot spot temperatures temperature rise ambient air temperatures basis of machine ratings method of measurement of temperature rise by resistance measurement of ambient air temperature This is followed by coverage of AC generators automatic voltage regulators AC switchgear transformers and programmable electronic systems The emphasis throughout is on practical ready to apply techniques that yield immediate and cost effective benefits The majority of the systems covered in the book operate at a nominal voltage of 24 y dc and although it is not necessary for each of the systems to have separate battery and battery charger systems the grouping criteria require more detailed discussion The book also provides information on equipment such as dual chargers and batteries for certain vital systems switchgear tripping closing and engine start batteries which are dedicated to the equipment they supply In the case of engines which drive fire pumps duplicate charges and batteries are also required Packed with charts tables and diagrams this work is intended to be of interest to both technical readers and to general readers It covers electrical engineering in offshore situations with much of the information gained in the North Sea Some topics covered are offshore power requirements generator selection process drivers and starting requirements control and monitoring systems and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems components are maintained and production is uninterrupted Demonstrates how to repair modify and install electrical instruments ensuring compliance with current regulations and specifications Covers specification management and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC AC selection and offshore cabling designs

*Offshore Electrical Engineering* Geoff MacAngus-Gerrard, 2013-10-22 *Offshore Electrical Engineering* is written based on the author s 20 years electrical

engineering experience of electrical North Sea oil endeavor The book has 14 chapters and five important appendices The book starts with designing for electrical power offshore application especially with aspects that are different from land based structures such as space and weight limitations safety hazards at sea and corrosive marine environment The criteria for selecting prime movers and generators for example gas turbines and reciprocating engines depending on the type of applications are examined The machinery drives are then discussed whereby the different offshore electric motor ratings are considered As in any electrical system the use of ergonomically designed controls is important Distribution switchgear transformers and cables are described The book also explains the environmental considerations power system disturbances and protection In an offshore structure lighting requirements and subsea power supplies diving life support system and equipment protection are emphasized A reliability analysis is also included to ensure continuance of service from the equipment A general checklist to be used when preparing commissioning worksopes is included and due to space and weight limitations on offshore installation the rationale of maintenance and logistics options are explained The appendices can be used as guides to descriptions offshore installations typical commissioning test sheets computerized calculations program and a comparison of world hazardous area equipment The text is a suitable reading for offshore personnel oil rig administrators and for readers from all walks of life interested in some technical aspects of offshore structures **Lighting**

David Christopher Pritchard,1995 Standard text for the teaching of light design and application at BTEC and HNC level taking into account the 1994 CIBSE Lighting Code **Building Services Journal** ,2000 **Pencahaya**, Ed. 5 ,1997

**Building Services** ,1987 *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 **Lighting in Hostile and Hazardous**

**Environments** ,1983 Handbook of Industrial Lighting Stanley L. Lyons,2013-10-22 Handbook of Industrial Lighting is a practical guide on the specification design installation operation and maintenance of lighting in industrial premises Coverage of the book includes the importance of good localized lighting the different lighting schemes lighting for difficult visual tasks lighting in consideration to safety and emergency lighting The book also includes the practical thermal ventilation and energy considerations lighting in different environments maintenance of lighting installations and the cost benefits of

efficient lighting Appendices include useful information such as UK legislation and codes on lighting summary of lamp and luminaire data and conversion factors The text is recommended for those involved in the design planning and maintenance of industrial places such as factories and power plants *Lighting for Industry and Security* Stanley Lewis Lyons,1992 Provides a wealth of information about lighting for industrial applications and as an aid to security As well as serving the needs of practising lighting engineers and specifiers of lighting it will also be a valuable reference for newcomers to the lighting industry This is because technical terms and basic lighting concepts are explained in plain language *Emergency Lighting* X. Lyons,2013-10-22 *Emergency Lighting For Industrial Commercial and Residential Premises* concerns itself with the provision of emergency lighting to facilitate exit routes for people in industrial commercial and residential areas The book covers important topics such as the objectives of emergency lighting systems the identification of safe routes under low lighting in different areas and related devices such as luminaires emergency signs and way guidance Also discussed are the applications of emergency lighting factors to consider in the design of emergency lighting electrical installations and testing and servicing The book has appendices that serve as guides to UK emergency lighting equipment names to be contacted and a short guide in case of fire The text is recommended for building planners engineers and architects The book is also applicable to those who would like to know about emergency lighting but do not have any specialist knowledge on the subject as the book avoids the use of jargon *The Outdoor Lighting Guide* Institution of Lighting Engineers,2005 The all inclusive guide to exterior lighting from The Institution of Lighting Engineers the recognized pre eminent professional source in the UK for authoritative guidance on exterior lighting *Outdoor Lighting Guide* Institution of Lighting Engineers,2013-01-11 As concern grows over environmental issues and light pollution this book satisfies a need for a straightforward and accessible guide to the use design and installation of outdoor lighting This all inclusive guide to exterior lighting from the Institution of Lighting Engineers recognized as the pre eminent professional source in the UK for authoritative guidance on exterior lighting provides a comprehensive source of information and advice on all forms of exterior lighting from floodlighting buildings and road lighting to elaborate Christmas decorations Useful to practitioners and non experts alike specialists will value the dependable detail on standards and related design installation and maintenance problems whilst general professionals can find extensive practical guidance on safety issues the lighting of hazardous areas and avoiding potential difficulties *Lighting Guide* Chartered Institution of Building Services Engineers,1991 **Emergency Lighting** Stanley Lewis Lyons,1992 *Emergency Lighting For Industrial Commercial and Residential Premises* concerns itself with the provision of emergency lighting to facilitate exit routes for people in industrial commercial and residential areas The book covers important topics such as the objectives of emergency lighting systems the identification of safe routes under low lighting in different areas and related devices such as luminaires emergency signs and way guidance Also discussed are the applications of emergency lighting factors to consider in the design of emergency lighting electrical installations and tes

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