

# 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    | 300 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 | 300 lux |
|--------------------------|---------|

## 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          | 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.

# Cibse Lighting Guide 01

**David Littlefield**



## **Cibse Lighting Guide 01:**

**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. **SASH Design Guide 1** Sports Council (Great Britain), 1986

**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. **Code for Lighting** Chartered Institution of Building Services Engineers, Society of Light and Lighting, 2002 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. Fully updated to take account of the Building Regulations 2002 Part L revisions. Key reference tool for interior and exterior lighting. Illustrated in colour throughout. **The Colour, Light and Contrast Manual** Keith Bright, Geoffrey Cook, 2010-01-06 Endorsed by the Society of Light and Lighting, this practical book offers comprehensive guidance on how colour, light and contrast can be incorporated within buildings to enhance their usability. The book provides state-of-the-art, clear guidance as well as a valuable information source for busy professionals involved in the design or management of new and existing environments. The ways colour, light and contrast are used within built environments are critical in determining how people interact with the space and how confident, safe and secure they will feel when doing so. They also have a major influence on a person's sense of well-being and their ability to use the environment independently and without undue effort. Understanding how to use colour and contrast and how they are influenced by both natural and artificial lighting is vital for all those involved in the design and management of the environments and spaces we all use. In recent years there has been a considerable amount of work undertaken to further our understanding of how colour, light and contrast affect

emotion and sensory abilities and how they can assist or hinder people in their everyday lives. Other publications consider these issues individually but *The Colour Light and Contrast Manual* designing and managing inclusive built environments draws knowledge and information together to produce a unique comprehensive and informative guide to how the three elements can work together to improve the design and management of environments for us all. Supporting website at [www.wiley.com/go/brightandcook](http://www.wiley.com/go/brightandcook)

*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.

*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.

*Metric Handbook* David Littlefield, 2012-09-10. An essential reference resource for any architect or architect student, the Metric Handbook is the major handbook for planning and design data. For each building type, the book gives basic design requirements, principal dimensional data and details of relevant building regulations. The book also contains information on broader aspects of design applicable to all building types such as materials, acoustics and lighting and data on human dimensions and space requirements. Significantly updated, the new edition of this work focuses on sustainable design practice to make projects competitive within a green market. As well as a full revision including additional new building types and the latest updates to regulation and practice, the book features an improved new layout with color images and text to make it easier to find vital information quickly. Metric Handbook is a tried and tested authoritative reference for solving everyday planning problems; it is a must have for every design office desk and drawing board.

**Intelligent Building Systems**  
Albert Ting-pat So, Wai Lok Chan, 2012-12-06. Intelligent building is the future of our building industry; all commercial

residential industrial and institutional buildings will be designed towards the goal of intelligent buildings The most important aspect of an intelligent building is the building systems such as electrical services heating ventilation and air conditioning systems vertical transportation systems and life safety systems which must operate intelligently and efficiently to enhance the activities of the occupants Intelligent Building Systems explains what already exists in a modern intelligent building and describes what is currently being developed by researchers to improve human comfort working efficiency and energy performance for buildings in the 21st century Intelligent Building Systems is divided into three parts The first part gives a quick review of the structure terminology layout and operating principles of most standard modern building systems The second part introduces the background material necessary to understand intelligent building systems including information on electronics technology fundamental mathematics and techniques in artificial intelligence and signal processing These first two parts are the foundation for the final part which consists of research works carried out by the authors and other researchers in the application of artificial intelligence to building systems The technologies presented will encourage readers to envision new and innovative ideas on possible future applications Intelligent Building Systems is relevant to practitioners and researchers in the area of architectural science and engineering electrical and mechanical services and intelligent buildings It may also be used as a text for advanced courses on the topic      Cibse Lighting Guide Lg4: Sports Cibse Staff,1990-12

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