

# 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 Lg6 Lighting Guide Outdoor

**Peter Tregenza, David Loe**



## **Cibse Lg6 Lighting Guide Outdoor:**

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)

**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.

**The Human and Social Dimension of Urban**

**Lightsapes** Daria Casciani,2020-11-02 This book explores new criteria and characteristics for integrating human psychology in the design of modern urban lighting It identifies a new area of lighting design research and practice that focuses on the nocturnal urban experience in terms of people s emotional cognitive and motivational perceptions to achieve more accessible sociable and sustainable cities In turn the book compares new tools and research methodologies for tackling complex issues concerning the ties between lighting people and the city Moreover it presents a series of case studies to provide an in depth understanding of the influence of urban lighting in terms of luminous atmosphere perception positive social affect social enhancement accessibility and hospitability Lastly the book proposes a multidisciplinary qualitative and quantitative methodology for assessing the spatial experience of outdoor lighting

**The Lit Environment** Derek Phillips,2002 Building on the success of his previous two books in this series The Lit Environment sees Derek Phillips approaching the topic of exterior lighting This book addresses the issues raised by the perception of light experienced by people who are outside buildings It is not simply about floodlighting buildings but takes a more embracing approach to deal with light for the whole external environment Covers a comprehensive range of buildings through 30 international case studies including buildings in Britain France Germany Denmark Israel Egypt and the United States The book represents a strong fusion of science and quantity with light and vision Visually inclined designers should understand how science can improve their vision and engineers with a strong science basis should understand how they can come to terms with visual affects This book illustrates the essence of how to light buildings well Benefit from the experience and knowledge of a top architect and lighting engineer Gain an understanding of the design principles involved with this comprehensive overview of exterior lighting International case studies from Lyon to Tel Aviv as well as the United States show theory in practice

**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

*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

The Design of Lighting Peter Tregenza, David Loe, 2003-09-02 Written primarily for the practising designer The Design of Lighting brings together in one volume all that the practitioner is likely to need The authors combine a technical introduction to lighting and colour theory with a guide to design concepts and criteria to create a comprehensive source book for architects and designers on interior lighting design

**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

Lighting Design for Schools Great Britain. Department for Education and Employment. Architects & Building Branch, 1999 Lighting Design for Schools

**Light Pollution** Bob Mizon, 2012-12-06 Light pollution is the modern scourge of optical astronomy More and more observing sites are being lost as the glare of city lighting blots out the night sky Professional astronomical observatories are located far from cities but amateur astronomers often do not have this luxury This book considers the two available strategies open to astronomers get rid of the light pollution by lobbying Authorities and Standards Organisations and minimise its effects by using the correct instrumentation The book contains an extensive detailed catalogue of deep sky and other objects that despite what one might believe can be seen from variously light polluted sites for practical observers

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