

# 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 1

**Cibse Staff**



## **Cibse Lighting Guide 1:**

**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

**Metric Handbook** David Adler, 2007-06-07 Originally devised as a guide for converting from imperial to metric measurements, the *Metric Handbook* has since been totally transformed into a major international handbook of planning and design data. The second edition has been completely updated with most chapters being totally rewritten to meet the needs of the modern designer. The book contains nearly 50 chapters dealing with all the principal building types: from airports, factories and warehouses, offices, shops and hospitals to schools, religious buildings and libraries. For each building type, the *Metric Handbook* gives the basic design requirements and all the principal dimensional data. Several chapters deal with general aspects of building such as materials, lighting, acoustics and tropical design. There are also sections on general design data including details of human dimensions and space requirements. It is a unique authoritative reference for solving everyday planning problems. In its various editions, it has sold over 100 000 copies worldwide and continues to be a reference work belonging on every design office desk or drawing board. **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. **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.

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      Metric Handbook David Littlefield,2012-09-10 Fully updated in reference to the latest construction standards and new building types Sustainable design fully integrated into each chapter Over 100 000 copies sold to successive generations of architects and designers this book truly belongs on every design office desk and drawing board The Metric Handbook is the major handbook of planning and design data for architects and architecture students Covering basic design data for all the major building types it is the ideal starting point for any project For each building type the book gives the basic design requirements and all the principal dimensional data and succinct guidance on how to use the information and what regulations the designer needs to be aware of As well as buildings the Metric Handbook deals with broader aspects of design such as materials acoustics and lighting and general design data on human dimensions and space requirements The Metric Handbook really is the unique reference for solving everyday planning problems About the Author David Littlefield is a senior lecturer at the University of the West of England where he teaches in the department of planning and architecture For many years he worked as a writer and journalist David has written co written or edited over ten books on architecture Customer reviews This book is a great investment as you will use it throughout your career as an architect I have found that this book is the Bible for all planners contains so much information that no designer or planner should be without a copy An essential reference book that should be on the shelf in any design studio      Metric Handbook Pamela Buxton,2021-11-25 The Metric Handbook is the major handbook of planning and design data for architects and architecture students with over 100 000 copies sold to successive generations of architects and designers It remains the ideal starting point for any project and belongs in every design office The seventh edition references the latest regulations and construction standards and includes new chapters on data centres and logistics facilities alongside basic design data for all the major building types For each building type the book gives the basic design requirements and all the principal dimensional data and succinct guidance on how to use the information and what

regulations the designer needs to be aware of As well as buildings the Metric Handbook deals with broader aspects of design such as materials acoustics and lighting and general design data on human dimensions and space requirements The Metric Handbook is the unique reference for solving everyday planning problems      **Daylighting** Peter Tregenza, Michael Wilson, 2013-01-11 This authoritative and multi disciplinary book provides architects lighting specialists and anyone else working daylight into design with all the tools needed to incorporate this most fundamental element of architecture It includes an overview of current practice of daylighting in architecture and urban planning a review of recent research on daylighting and what this means to the practitioner a global vision of architectural lighting which is linked to the climates of the world and which integrates view sunlight diffuse skylight and electric lighting up to date tools for design in practice delivery of information in a variety of ways for interdisciplinary readers graphics mathematics text photographs and in depth illustrations a clear structure eleven chapters covering different aspects of lighting a set of worksheets giving step by step examples of calculations and design procedures for use in practice and a collection of algorithms and equations for reference by specialists and software designers This book should trigger creative thought It recognizes that good lighting design needs both knowledge and imagination

The Top Books of the Year Cibse Lighting Guide 1 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. Cibse Lighting Guide 1 : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Cibse Lighting Guide 1 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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