

## IES Indoor Lighting Recommendations

Space	Footcandles	Lux
<b>Assembly</b>		
Rough Easy Seeing	20-50 fc	215-538 lx
Rough Difficulty Seeing	50-100 fc	538-1,076 lx
Medium	100-200 fc	1,076-2,152 lx
<b>Food Service Facility</b>		
Dining Area, Cashier	20-50 fc	215-538 lx
Display	30-100 fc	322-1,076 lx
Kitchen	50-100 fc	538-1,076 lx
<b>Gymnasiums</b>		
Assemblies	10 fc	108 lx
General Exercise & Recreation	30 fc	323 lx
<b>Hospitals</b>		
Room	10-30 fc	107-322 lx
Cooridor	5-30 fc	53-322 lx
Emergency Room	50-100 fc	538-1,076 lx
Operating Room	100-200 fc	1,076-2,152 lx
<b>Offices</b>		
General & Private Office	50-100 fc	538-1,076 lx
Conference Room	20-70 fc	215-753 lx
Cooridor	20 fc	215 lx
<b>Schools</b>		
Reading	20-100 fc	215-1,076 lx
Typing	20-100 fc	215-1,076 lx
Demonstrations	100-200 fc	1,076-2,152 lx
<b>Stores</b>		
Circulation Area	10-30 fc	108-323 lx
Merchandising, Servicing	30-100 fc	323-1,076 lx
Merchandising, Self-Servicing	200 fc	2,152 lx
<b>Warehouses</b>		
Inactive	5-10 fc	54-108 lx
Active Rough Bulky	10-20 fc	108-215 lx
Active Medium	20 fc	215 lx
Active Fine	20-50 fc	215-538 lx

# Ies Design Guide

**Ensheng Dong**



## Ies Design Guide:

**IES Design Guide for Residential Street Lighting** ,2015      **IES Design Guide for Hotel Lighting** ,2012

Designing with Light Jason Livingston,2021-12-21 The new edition of the popular introduction to architectural lighting design covering all stages of the lighting design process Designing with Light The Art Science and Practice of Architectural Lighting Design Second Edition provides students and professionals alike with comprehensive understanding of the use of lighting to define and enhance a space This accessible highly practical textbook covers topics such as the art and science of color color rendering and appearance lighting control systems building codes and standards and sustainability and energy conservation Throughout the text accomplished lighting designer and instructor Jason Livingston offers expert insights on the use of color the interaction between light and materials the relation between light vision and psychology and more Fully revised and updated throughout the second edition features new chapters on design thinking common lighting techniques and lighting economics Expanded sections on aesthetics controlling LEDs light and health designing with light and color mixing luminaires are supported by new case studies examples and exercises Featuring hundreds of high quality color images and illustrations Designing with Light Provides systematic guidance on all aspects of the lighting design process Thoroughly covers color and light including color perception color rendering and designing with colored light Explains the theory behind the practice of architectural lighting design Contains information on cost estimating life cycle analysis voluntary energy programs and professional lighting design credentials Includes an instructor resource site with PowerPoint presentations test questions and suggested assignments for each chapter and also a student site with flashcards self evaluation tests and helpful calculators Designing with Light The Art Science and Practice of Architectural Lighting Design Second Edition is perfect for architecture interior design and electrical engineering programs that include courses on lighting design as well as professionals looking for a thorough and up to date desk reference      Interior Lighting Wout van Bommel,2019-08-13 This book outlines the underlying principles on which interior lighting should be based provides detailed information on the lighting hardware available today and gives guidance for the design of interior lighting installations resulting in good visual performance and comfort alertness and health The book is divided into three parts Part One discusses the fundamentals of the visual and non visual mechanisms and the practical consequences for visual performance and comfort for sleep daytime alertness and performance and includes chapters on age effects therapeutic effects and hazardous effects of lighting Part Two deals with the lighting hardware lamps with emphasis on LEDs gear drivers and luminaires including chapters about lighting controls and LEDs beyond lighting Part Three is the application part providing the link between theory and practice and supplying the reader with the knowledge needed for lighting design It describes the relevant lighting criteria for good and efficient interior lighting and discusses the International European and North American standards and recommendations for interior lighting A particular focus is on solid state light sources LEDs and the

possibility to design innovative truly sustainable lighting installations that are adaptable to changing circumstances The design of such installations is difficult and the book offers details of the typical characteristics of the many different solid state light sources and of the aspects determining the final quality of interior lighting Essential reading for interior lighting designers lighting engineers and architects the book will also be a useful reference for researchers and students Reviews of Road Lighting by the same author If you are going to design streetlighting you must read this book a solid comprehensive textbook written by an acknowledged expert in the field if you have a query about any aspect of streetlighting design you will find the answer here LUX August 2015 a really comprehensive book dealing with every aspect of the subject well essential text for reference on this subject Lighting Journal March 2015 [IES Design Guide for Application of Luminaire Symbols on Lighting Design Drawings](#) ,2010 [IES Design Guide for Selection, Installation, Operations and Maintenance of Roadway Lighting Control Systems](#) ,2015 [Outdoor Lighting for Pedestrians](#) Frank Markowitz,2021-12-30 Outdoor Lighting for Pedestrians shows how outdoor lighting is important for pedestrians safety personal security and comfort with major impacts on street path and park aesthetics and neighborhood sense of place Providing clear basic technical background accessible to non engineers the book focuses especially on planning and policy concerns It covers the fundamentals of lighting technology benefits costs and possible adverse impacts of lighting enhancements traditional and innovative approaches planning and policy documents and practices aesthetics and placemaking and technology trends in lighting design This book is aimed primarily at practicing transportation planners and engineers generalist urban planners safety advocates and researchers and university students However lighting designers and other professionals will also find it useful It considers how lighting can be coordinated with other potential improvements to enhance the pedestrian environment for better walkability

**Farm Lighting Design Guide** ,1974 [The Green Studio Handbook](#) Alison G. Kwok,Walter T. Grondzik, Tom Hahn,2025-07-03 Making the complexities of green architecture accessible to the design studio The Green Studio Handbook remains a must read for current and future architects The heart of this book provides 43 comprehensive design strategies covering the building envelope lighting heating cooling energy and electricity and water and waste each with a description key architectural issues implementation considerations and a step by step design procedure for integration early in the design process Each design strategy has been thoroughly reviewed and updated to reflect the latest evidence based guidance best practices and standards in consideration of all climatic zones In addition to more than 80 building examples provided throughout ten in depth case studies illustrate successful integration of numerous strategies All case studies are brand new to this fourth edition and include a wide range of building types from the USA Colombia Rwanda Malaysia Denmark Bhutan Canada and Australia Envelope design strategies have been significantly revised and expanded to include new strategies on Foundation systems for the reduction of embodied carbon Framing systems using mass timber bamboo and other natural material based systems Low complexity wall systems using natural elements such as earth lime straw and hemp High

complexity wall systems for enhanced thermal performance and strength Additional roofing systems beyond green roofs

*Design Guide for Roadway Lighting Maintenance (DG-4-14)* Illuminating Engineering Society,2014-07-21     *Mechanical and Electrical Equipment for Buildings* Walter Grondzik,Daniel Overbey,Alison Kwok,2026-05-11

UPDATED EDITION OF THE LEADING AWARD WINNING REFERENCE ON MECHANICAL AND ELECTRICAL SYSTEMS FOR BUILDINGS OF ALL SIZES Twice awarded the AIA s Citation for Excellence in International Architecture Book Publishing Mechanical and Electrical Equipment for Buildings comprehensively reviews mechanical and electrical systems for buildings of all sizes providing design guidelines and detailed design procedures for each topic covered To assist with learning this book contains in depth discussions of why and how to which help the reader better understand concepts and applications This 14th Edition features substantial revisions to core content reflecting the latest knowledge and advancements in the field with coverage of topics including green buildings zero energy zero carbon zero water zero waste healthy buildings resiliency electrification and decarbonization along with revised references to codes standards and rating systems from ASHRAE NFPA ICC IES USGBC LEED ILFI Living Building Challenge IWBI the WELL Building Standard and more With this new edition readers will also find an updated Learner s Guide new PowerPoint learning aids for each chapter updated case studies and an improved test bank of questions and answers New illustrations are also included throughout

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**Design Guide for Roadway Lighting Maintenance** ,1993     **The IESNA Lighting Handbook** Mark Stanley Rea,Illuminating Engineering Society of North America,2000     *Index and Directory of U.S. Industry Standards* ,1987     **Lighting Design & Application** ,1981

**D+E. Design & Environment** ,1974     *Illuminating Engineering* Illuminating Engineering Society,1995

Transactions of the Illuminating Engineering Society ,1922     **Annual Book of ASTM Standards** American Society for Testing and Materials,1979 Index to ASTM standards issued as last part of each vol     Progressive Architecture ,1991

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