

IES Indoor Lighting Recommendations

Space	Footcandles	Lux
Assembly		
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
Food Service Facility		
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
Gymnasiums		
Assemblies	10 fc	108 lx
General Exercise & Recreation	30 fc	323 lx
Hospitals		
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
Offices		
General & Private Office	50-100 fc	538-1,076 lx
Conference Room	20-70 fc	215-753 lx
Cooridor	20 fc	215 lx
Schools		
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
Stores		
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
Warehouses		
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

Michal Rosen-Zvi



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

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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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