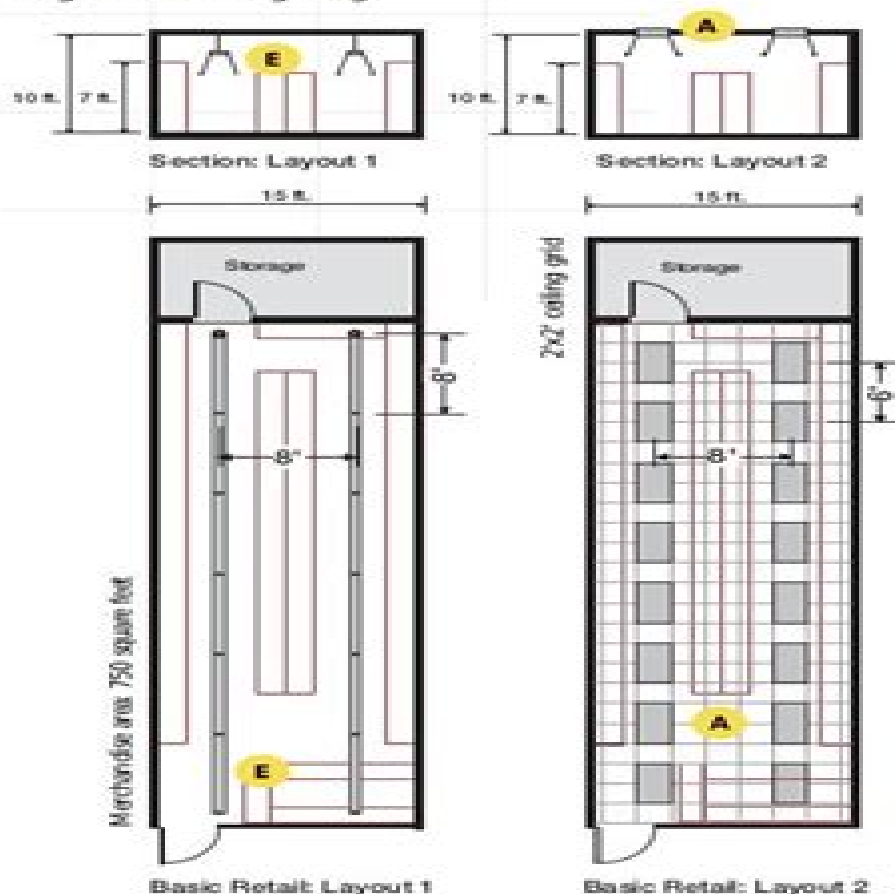


basic retail lighting

Bright ambient lighting



SUMMARY TABLE FOR "BASIC" RETAIL

	Layout 1	Layout 2
Ambient + Footcandles (fc)	80-90	50-60
Connected Load (W/sf)	1.8	1.9
Energy Savings ² (%)	45-55%	40-50%
First Cost ³ (material & labor)	No adder	No adder
Applicable Area ⁴ (sf)	650-850	650-850

1-Actual FC may be 30% lower due to shelving units over 6' tall. 2-Savings compared to current lighting practices in the New England region. 3-Layout 1 and 2 cost the same and represent the lowest cost option. This is the basis of comparison for "Intermediate" and "Higher End" costs. 4-Layout applies to any store within this size range, with the meeting light-level recommendations and without exceeding energy codes. Add rows of fixtures for larger stores.

Types of stores: High activity retailing such as mass merchandising, discount stores, hardware, video, fast food, grocery service establishments and sale of bulk or large objects such as appliances or furniture. A destination store that doesn't require lighting to draw customers inside, and that offers inexpensive products and/or significant value for money. Self-service.

Purpose of lighting: To light all objects uniformly, provide good visibility for reading labels and to create a bright, clean, stimulating environment.

Lighting Strategies

- Exposed sources are effective to project a "discount" or "speedy service" image. Fluorescent sources provide the best value, giving good color rendering, high efficiency lighting with the longest life.
- Use light colored finishes on all wall surfaces to increase overall brightness and reflected light.
- For a greater sense of brightness and consistency with daylight use "841" color lamps. This stands for a Color Rendering Index of 80+ and a Correlated Color Temperature of 4100K.
- Consider neon or colored lights for window displays or to identify departments.

Lighting Levels

50-80 footcandles ambient lighting.

BASIC RETAIL FIXTURE SCHEDULE

A: 3-lamp Parabolic 2'x4'

E: 2-lamp Fluorescent pendant

See page 7 for complete fixture specifications.



Retail Lighting Guide

J Rink



Retail Lighting Guide:

The Essential Guide to Retail Lighting Cosmin Ticleanu, P. J. Littlefair, Gareth Howlett, 2013 This guide reviews current practice in retail lighting and gives advice on achieving energy savings for retailers architects and designers including practical guidance on refurbishing existing lighting systems and developing new lighting solutions [The National Lighting Bureau Guide to Retail Lighting Management](#) National Lighting Bureau, 1991 **Electric Utility Guide to Marketing Efficient Lighting**, 1990 *Lighting Guide 17*, 2018 **Illuminating Our World: A Comprehensive Guide to Lighting Systems** Charles Nehme, Light It shapes our world influences our mood and plays a vital role in our everyday lives From the gentle glow of a sunrise to the brilliant illumination of a city skyline lighting systems have become an integral part of our environment both shaping and responding to our needs This book delves into the fascinating world of lighting systems offering a comprehensive exploration of their components applications and ongoing advancements Whether you re an architect engineer designer homeowner or simply curious about the world around you this book aims to illuminate the complexities and wonders of these systems Within these pages you ll embark on a journey that Explores the fundamental principles of light and lighting delving into its scientific technical and historical aspects Examines various types of lighting systems their components and their unique characteristics We ll explore traditional options like incandescent and fluorescent delve into the world of energy efficient LED and halogen options and even touch upon emerging technologies that are shaping the future of lighting Guides you through the process of selecting and designing lighting systems for various applications We ll delve into factors like space functionality desired ambiance energy efficiency and regulatory considerations Unveils the intricate relationship between lighting and human well being exploring how lighting choices can impact our mood productivity and even our health This book is not simply a technical manual it s an invitation to understand the art and science of lighting systems It s a call to appreciate the power of light in shaping our world and to explore the possibilities it holds for the future So turn the page and let the journey begin **Museum Store: The Manager's Guide, Fourth Edition** Museum Store Association, 2016-07 Museum Store The Manager s Guide is full of practical advice forms and examples for any museum store manager who wants to increase visibility and sales and expand their customer base *Basic Information Sources on Store Arrangement and Display*, 1954 **A Professional and Practical Guide for Architectural Lighting Practices using DMX controlled fixtures** Jamey Brock, 2023-02-15 This e book hopes to provide a comprehensive primer on architectural lighting and DMX technology It covers the fundamental principles of architectural lighting the basics of DMX technology types of DMX controllers and their features setting up DMX signal pathways and addressing fixtures DMX wiring and cabling requirements and factors to consider when designing an architectural lighting system It also provides tips for achieving different moods and atmospheres with lighting routine maintenance procedures for DMX lighting fixtures and troubleshooting common issues with DMX controlled lighting systems While this e book provides a

solid foundation for those looking to get into the field of architectural lighting it is important to note that it is not all encompassing and there may be other factors to consider depending on the specific project or space It is recommended that readers continue to research and consult with professionals in the field to ensure the best possible results

The Retail Handbook Walter Sumner Hayward,1924 **Electrical Standards and Product Guide** ,2005 *Fundamentals of Lighting* Susan M. Winchip,2017-01-12

Fundamentals of Lighting 3rd Edition continues to focus on the basics of lighting systems and the interrelationship of lighting and design This new edition includes updated standards and new technologies and an updated art program with over 300 photographs of global interiors and new lighting systems

Museum Store: The Manager's Guide Museum Store Association,2016-07-01

Museum Store The Manager's Guide is a practical guide for any store manager who needs guidance about visual merchandising measuring performance managing volunteers and much more This eight chapter volume includes a wealth of advice on best practices compiled by the national professional organization of museum stores It includes a myriad of supportive worksheets to help the novice manager It provides guidance from experienced store managers to assist the novice in evaluating a store's performance The 4th edition includes updated information on social media and mobile shopping A new chapter to this valuable resource highlights the legal implications of the business of nonprofit retail including copyright unrelated business income tax and staff relations A great resource for every back office

Store Arrangement and Display United States. Bureau of Foreign and Domestic Commerce,1949 **Marketing Information Guide** ,1957 *Distribution Data Guide* ,1954 *The Stagecraft Handbook: A Comprehensive Guide to Lighting, Sound, and Stage Management* Pasquale De Marco,2025-05-22

Delve into the Enchanting World of Stagecraft A Comprehensive Guide to Lighting Sound and Stage Management In the realm of theater where imagination takes center stage and stories come to life stagecraft stands as a captivating art form that captivates audiences and transports them to extraordinary worlds This comprehensive guide unlocks the secrets of stagecraft providing an immersive journey through the fundamental principles and practical techniques used by professionals in the field Discover the art of lighting design where light becomes a storytelling tool shaping moods emphasizing dramatic moments and enhancing the visual impact of a performance Learn how to create immersive soundscapes that transport audiences to different environments underscore emotional journeys and provide a rich sonic tapestry for the narrative Explore the intricacies of stage management the logistical backbone of any theatrical production Gain insights into the challenges of managing rehearsals scheduling performances coordinating technical crews and ensuring the smooth running of a show Delve into the latest advancements in stagecraft technology from cutting edge lighting instruments to sophisticated sound systems and how these innovations are revolutionizing theatrical productions Whether you're an aspiring stagecraft professional seeking to master the art a seasoned practitioner aiming to refine your skills or a theater enthusiast eager to understand the magic behind the scenes this book is your essential companion With its in depth explanations practical

exercises and illuminating case studies this guide equips you with the knowledge and expertise to create unforgettable theatrical experiences Unleash your creativity and ignite your passion for theater as you embark on this exploration of stagecraft Discover the boundless possibilities of this captivating art form where dreams take flight and stories come to life This comprehensive guide to stagecraft is the key to unlocking your potential and transforming your theatrical productions into extraordinary spectacles that leave audiences spellbound Dive into the world of stagecraft today and experience the magic of theater like never before If you like this book write a review on google books

Fundamentals of Energy Efficient Lighting and Controls Jason Livingston, 2025-04-03 This book is a comprehensive guide to quality energy efficient lighting design and controls for commercial and institutional spaces The highly practical text cover topics such as light sources and light fixtures brightness and energy use calculations financial analysis and auditing existing lighting systems The introduction of LEDs and the phase out of traditional light sources along with increasingly stringent energy codes is leading to highly efficient lighting designs This book places quality lighting design and consideration for the comfort of the occupants on an equal footing with energy efficiency to emphasize a holistic approach Featuring over a hundred high quality images and illustrations this book Provides an overview of lighting design considerations and the design process Thoroughly covers light sources and lighting fixtures with an emphasis on LEDs Explains the requirements found in most energy conservation codes and voluntary programs including lighting controls daylighting and limits on lighting system power consumption Discusses non design issues such as maintenance energy audits and the financial analysis of retrofit vs replacement options in existing buildings

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 *The Complete Guide to Under Cabinet Lighting* Annie Josey, Christopher Johnson, 2013-08-21 Today the kitchen has to be multifunctional It s not only a place to prepare and eat food but also a place to relax a place to entertain and a place to enjoy It should be inviting bright functional and easy to control The right kitchen lighting will help you stay clean organized and safe while letting you create the perfect atmosphere for an early morning baking frenzy board games with the kids on a rainy afternoon or spending a couple s night in Most of all light layering having multiple light sources for different purposes is the most important all encompassing rule in kitchen lighting design A single light source never does any space justice You need different sources of light for different purposes Ambient lighting task lighting accent lighting safety lighting and mood lighting are all essential parts of great kitchen design This book will first and foremost address task lighting in the kitchen Under cabinet lights are the most popular attractive and handy kind of task lighting for the kitchen Lighting designers agree that the path to any beautiful functional kitchen starts with excellent task lights Kitchen task lights have one simple purpose to help you out When you really need to get down to business to cook a gourmet dinner or finally scrub down those countertops task lights allow you to see In this book you ll learn how to get that perfect lighting in your own kitchen You ll discover what kind of under cabinet lights will work best for your space the ins and outs of every light source and fixture style and even what kind of lights will work best with your personality Then move on to step by step instructions on how to layout install and operate your under cabinet lights Already have under cabinet lights in your kitchen Just flip over to the maintenance section to learn what to expect from your lights over time and how to fix common problems that may come up You may also want to note that under cabinet lights work in areas other than the kitchen offices labs workstations even in outdoor cooking areas **Business Service Bulletin** ,1956

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