

ANSI/IES RP-8-18+A1 Design and Maintenance of Roadway and Parking Facility Lighting

Table 2-1. Backlight Ratings

	Secondary Solid Angle	B0	B1	B2	B3	B4	B5
	BH	110	500	1000	2500	5000	>5000
	BM	220	1000	2500	5000	8500	>8500
	BL	110	500	1000	2500	5000	>5000

Table 2-2. Uplight Ratings

	Secondary Solid Angle	U0	U1	U2	U3	U4	U5
	UH	0	10	50	500	1000	>1000
	UL	0	10	50	500	1000	>1000

Table 2-3. Glare Ratings for Asymmetrical Luminaire Types (I, II, III, IV)

	Secondary Solid Angle	G0	G1	G2	G3	G4	G5
	FVH	10	100	225	500	750	>750
	BVH	10	100	225	500	750	>750
	FH	660	1800	5000	7500	12000	>12000
	BH	110	500	1000	2500	5000	>5000

Table 2-4. Glare Ratings for Symmetrical Luminaire Types (V and VS)

	Secondary Solid Angle	G0	G1	G2	G3	G4	G5
	FVH	10	100	225	500	750	>750
	BVH	10	100	225	500	750	>750
	FH	660	1800	5000	7500	12000	>12000
	BH	660	1800	5000	7500	12000	>12000

Notes for Tables 2-1 through 2-4:

- Any one rating is determined by the maximum rating obtained for that table. For example, if the BH zone is rated B1, the BM zone is rated B2, and the BL zone is rated B1, then the Backlight rating for the luminaire is B2.
- For the determination of BUG ratings, the photometric test data shall include data in the upper hemisphere unless no light is emitted above 90 degrees vertical (for example, if the luminaire has a flat lens and opaque sides), per the IES Testing Procedures Committee recommendations.
- It is recommended that the photometric test density include values at least every 2.5 degrees vertically. If a photometric test does not include data points every 2.5 degrees vertically, the BUG ratings shall be determined based on appropriate interpolation.

Ansi Ies Rp 19standards

Jason Livingston



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Energy Efficient Buildings Zhiqiang John Zhai,2022-10-04 Energy Efficient Buildings A complete and authoritative discussion of the fundamentals of designing and engineering energy efficient buildings In Energy Efficient Buildings Fundamentals of Building Science and Thermal Systems distinguished engineer and architect Dr John Zhai delivers a comprehensive exploration of the design and engineering fundamentals of energy efficient buildings The book introduces the fundamental knowledge calculations analyses and principles used by designers of energy efficient buildings and addresses all essential elements of the discipline An essential guide for students studying civil architectural mechanical and electrical engineering with a focus on energy building systems and building science the book provides practical in class materials examples and actual design practices as well as end of chapter questions with solutions and sample group projects Readers will find A thorough introduction to the cross disciplinary approach to the design of energy efficient buildings Comprehensive explorations of all critical elements of energy efficient building design including standards and codes psychometrics microclimate thermal comfort indoor air quality HVAC systems and more In depth discussions of the foundational knowledge calculations analysis and principles needed to design energy efficient buildings Practical in class examples and end of chapter questions with solutions for students and design guidance and sample group projects for use in course lectures and actual design practices Perfect for graduate and advanced undergraduate students studying building environmental systems building systems in construction and mechanical and electrical systems in construction Energy Efficient Buildings Fundamentals of Building Science and Thermal Systems will also earn a place in the libraries of practicing civil architectural and mechanical engineers *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 Code of Federal Regulations ,2017 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries **Safety and Health Requirements Manual** United States. Army. Corps of Engineers,1984 **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

Development of Headlight System Performance

Criteria Douglas J. Mace, 1993 **The IESNA Lighting Handbook** Mark Stanley Rea, Illuminating Engineering Society of North America, 2000 *Human Factors Guidelines for Road Systems* John L. Campbell, 2012 This report completes and updates the first edition of NCHRP Report 600 Human Factors Guidelines for Road Systems HFG which was published previously in three collections The HFG contains guidelines that provide human factors principles and findings for consideration by and is a resource document for highway designers traffic engineers and other safety practitioners Foreword

Highway Safety Design and Operations Guide, 3rd Edition , Tunnel Engineering Handbook Thomas R.

Kuesel, Elwyn H. King, John O. Bickel, 2012-12-06 The *Tunnel Engineering Handbook Second Edition* provides in a single convenient volume comprehensive coverage of the state of the art in the design construction and rehabilitation of tunnels It brings together essential information on all the principal classifications of tunnels including soft ground hard rock immersed tube and cut and cover with comparisons of their relative advantages and suitability The broad coverage found in the *Tunnel Engineering Handbook* enables engineers to address such critical questions as how tunnels are planned and laid out how the design of tunnels depends on site and ground conditions and which types of tunnels and construction methods are best suited

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