

Roadway Lighting

Design Guide

October 2005



American Association
of State Highway and
Transportation Officials



Aashto An Informational Guide For Roadway Lighting

L Cohen

Aashto An Informational Guide For Roadway Lighting:

Roadway Lighting Design Guide American Association of State Highway and Transportation Officials,2005 This guide replaces the 1984 publication entitled An Informational Guide for Roadway Lighting It has been revised and brought up to date to reflect current practices in roadway lighting The guide provides a general overview of lighting systems from the point of view of the transportation departments and recommends minimum levels of quality The guide incorporates the illuminance and luminance design methods but does not include the small target visibility STV method

An Informational Guide for Roadway Lighting ,1984

An Informational Guide for Roadway Lighting American Association of State Highway and Transportation Officials,1969

An Informational Guide for Roadway Lighting American Association of State Highway Officials. Committee on Planning and Design Policies,1969

Code of Federal Regulations ,1995

The Code of Federal Regulations of the United States of America ,1995 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government

Code of Federal Regulations United States. Department of Transportation,1995 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of April 1 with ancillaries

Guidance for Implementation of the AASHTO Strategic Highway Safety Plan ,2004

Roundabouts: an Informational Guide Bruce W. Robinson,2000

AASHTO Documents in CD-ROM Format Byron C. Blaschke,1995

Roadside Design Guide American Association of State Highway and Transportation Officials. Task Force for Roadside Safety,1989

Bureau of Design and Environment Manual Illinois. Division of Highways. Bureau of Design and Environment,2000

Guidelines for Urban Major Street Design Institute of Transportation Engineers,ITE Technical Council Committee 5-5,1984

Index and Directory of U.S. Industry Standards ,1987

Roadway Lighting Ian Lewin,2003 Nighttime visibility has been shown to be influenced by the lamp type used for roadway lighting because the lamp's spectral output can influence sensors in the retina that are active at night This report investigates the nature of these spectral effects and provides an in depth

review of available knowledge It also addresses lighting levels and their relationship to driver safety Three candidate lamp types have been analyzed in terms of technical characteristics and associated costs This involves factors such as the efficacy

with which the sources produce light lamp life and maintenance characteristics Ideal lighting designs have been performed using the three sources for identical road sections and initial and operating costs have been calculated to assist in

contrasting the difference between the sources

Evaluation of Alternative Lighting Systems for Guide Sign Illumination

Jonathan Everett Upchurch,1986 The study objective was to identify a lighting system which has a lower power cost and reduced maintenance requirements and which provides adequately for motorists needs in terms of legibility and illumination level Twenty five candidate lighting systems were identified through a review of technical data and specifications for lamps

and fixtures by an independent lighting expert Photometric tests and computer analyses of sign illumination levels reduced

the number of candidates to ten alternative systems which were then field tested. Each alternative lighting system was tested for 10 to 14 months. Sign luminance was measured with a telephotometer. Power consumption was monitored. Maintenance requirements and lamp life were noted. A human factors study determined legibility distance and rated viewing comfort, lighting uniformity and color rendition. An economic analysis was performed which considered the initial cost of acquiring and installing the lighting systems and annual costs for electric power, washing, relamping and ballast replacement. A lighting system using the high pressure sodium light source was recommended. Compared to the existing commonly used fluorescent system, it uses one third as much electric power and has about one third of the annual owning and operating cost. The recommended system has a satisfactory illumination level and provides the best legibility distance of the ten systems tested.

CDOT Design Guide: Project development manual Colorado. Department of Transportation, 1995 **A Policy on Geometric Design of Highways and Streets, 1990** American Association of State Highway and Transportation Officials, 1990 **A Policy on Geometric Design of Highways and Streets, 1994** American Association of State Highway and Transportation Officials, 1995 A Policy on Geometric Design of Highways and Streets provides the design professional guidance by referencing a recommended range of values for critical dimensions and design Report, 1974

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