



ROADWAY LIGHTING DESIGN

Introduction

The Transportation Association of Canada Roadway Lighting Design Guide, originally published in 1983, was deemed in early 2000 to be outdated and in need of replacement. Through a Canada wide competitive selection process DMD was selected to prepare the new Roadway Lighting Design Guide.

TAC Design Guide

Now complete and available for sale (www.tac-atc.ca) the nearly 500-page roadway lighting design guide covers all aspects of roadway lighting design including vision fundamentals and concepts, obtrusive lighting, planning and design process, system components and common elements, standards and codes, computer applications, maintenance, roadways and interchanges, intersections, roundabouts, crosswalks, tunnels, toll plazas, off roadway facilities (parking lots, pathways, etc), signs, streetscapes and work zone/temporary lighting.

In preparing the document, design standards and design practices from North America, Australia, New Zealand and Europe were researched. The majority of the Guide is, therefore, based on existing recommended practices of the Illuminating Engineering Society of North America (IESNA) and the Commission Internationale De l'Eclairage (CIE).

Improving Your Knowledge

DMD undertook this project of producing a Roadway Lighting Design Guide to both improve knowledge and quality of roadway lighting designs. Over the years improved computer lighting software has allowed anyone who can operate a computer to produce a roadway lighting calculations and lighting designs with little or no experience or background. In many cases suppliers offer lighting calculations at no cost. This has led to "cookie cutter" designs with good lighting design taking a back seat.

Many designers of roadway lighting feel more lighting is better and fail to consider contrast, glare, adaptation

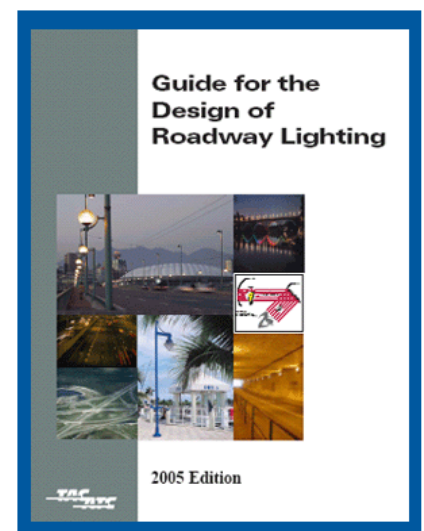
issues and other factors important to improving visibility and comfort for driver and pedestrians.

We encourage Cities, Municipalities and Government agencies to adopt the new TAC Roadway Lighting Design Guide. The document is an excellent educational source, very extensive in detail and as well defines many good lighting design practices which if adhered to will benefit and improve safety.

Looking to the Future

In the upcoming years many new lighting products and lighting design methods will be available to roadway lighting designers. DMD and Associates are committed to providing quality designs and staying current with new technology. Our key staff members are active members of the Illuminating Engineering Society and Canadian Standards Associations committees and attend lighting conferences throughout North America on a regular basis. This allows DMD to stay on the cutting edge of knowledge and through contacts gained on these committee's are networking and partnering with other design professionals from other parts of North America. One such new design method is that for lighting roundabouts.

Upcoming additions of the Advisor will deal with new technologies and design methods in order to offer our clients the best value.



DMD are committed to development and research of new technologies and design practices aimed at giving our clients the best value. For any further information on topics in this Advisor please contact Don McLean at 604-888-9010 or e-mail at don@dmdeng.com.

