

VIRGINIA DEPARTMENT OF TRANSPORTATION

# LOCATION AND DESIGN DIVISION

## INSTRUCTIONAL AND INFORMATIONAL MEMORANDUM

GENERAL SUBJECT: ROADWAY LIGHTING	NUMBER: IIM-LD-231 MM-319
SPECIFIC SUBJECT:  PROCUREMENT, DESIGN AND MAINTENANCE OF LIGHTING SYSTEMS	DATE:  JULY 15, 2003
	SUPERSEDES:
LOCATION AND DESIGN DIVISION APPROVAL: Mohammad Mirshahi, PE	
MOBILITY MANAGEMENT DIVISION APPROVAL: Raymond J. Khoury, PE	ASSET MANAGEMENT DIVISION APPROVAL: James R. Smith, Jr. Acting Director

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### BACKGROUND

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- The 2003 General Assembly enacted legislation that amended Section 2.2-1111 of the Code of Virginia relating to procurement and design of lighting systems. This legislation requires that the Department design all lighting systems in accordance with the current Illuminating Engineering Society of North America (IESNA) standards and recommended practices. It further requires that all lighting systems utilize fixtures that minimize glare, light trespass and skyglow as defined by IESNA.
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### EFFECTIVE DATE

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- This legislation is effective July 1, 2003; however, the Central Office Location and Design Division's Traffic Engineering Design Section has been designing lighting systems in accordance with IESNA since earlier in 2002, when it was recognized this issue needed to be addressed.

## POLICY

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- Any roadway lighting designed, installed or funded under the auspices of the Department must be in accordance with this legislation. This includes, but is not limited to, construction projects, lighting installed by permit, intersection lighting (including that installed by Regional Signal Contracts), etc. Typically the Central Office Traffic Engineering Design Section designs or reviews designs of others to ensure the lighting designs are appropriate.
- Because of the potential magnitude of signal projects with intersection lighting, this office is having some standard intersection lighting designs developed that may be used by the districts when including intersection lighting with their signal designs. Until these standard designs are completed and/or if a standard design does not apply to a specific intersection configuration, this office needs to review or provide designs for those locations to ensure compliance.
- Additionally, any maintenance or maintenance replacement of the lighting system must be done in a manner not to alter the integrity of the original design. Any luminaire replacement must be identical to those originally installed or a new design or design review will need to take place.