

Turnpike Lighting/Electrical Design Guidance

Lighting Design Criteria References and Additional Resources

Lighting Design Criteria Documents:

- *Florida Department of Transportation (FDOT) Design Manual (FDM)*
- *Florida Department of Transportation (FDOT) Standard Plans for Road and Bridge Construction*
- *Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction*
- *Florida Department of Transportation (FDOT) Manual on Uniform Traffic Studies - Chapter 15 Highway Lighting Justification Procedure*

Additional Lighting/Electrical Design Resources:

- *AASHTO Roadway Lighting Design Guide*
This is the basic guide for highway lighting. It includes information on warranting conditions and design criteria.
- *ANSI/IESNA Recommended Practice for Roadway Lighting IES RP-8-XX (Current Edition)*
- *ANSI/IESNA American National Standard Practice for Tunnel Lighting IES RP-22-11 (for information only, superseded by RP-8-22)*
- *IESNA Lighting Library*
- *IESNA Lighting Handbook Reference & Application (for information only, superseded by IESNA Lighting Library)*
- *NFPA 70, National Electric Code (Current Edition)*
- *NFPA 70E, Standard for Electrical Safety in the Workplace (Current Edition)*
- *NFPA 101, Life Safety Code (Current Edition).*
- *Federal Aviation Regulation - Safe, Efficient Use, and Preservation of the Navigable Airspace, 14 CFR part 77*
This regulation sets the requirements to follow on projects near airports.
- *Federal Aviation Administration (FAA) Advisory Circular AC 70/7460-1M, Obstruction Marking and Lighting*
This advisory circular defines the requirements to identify objects that require special lighting near airports.
- *Federal Aviation Administration (FAA) Advisory Circular AC 150/5345-43J, Specification for Obstruction Lighting Equipment*
This advisory circular contains the FAA specification for obstruction lighting equipment.

Turnpike Specific Guidance:

- *Lighting Design Analysis Report (LDAR) Template*
- *Box Girder Maintenance Lighting and Power Guidance*
- *Electrical Systems Guidance*
- *Light Poles and Luminaires Guidance*
- *Lighting Load Centers Guidance*
- *Load Center Details*
- *Service Point Details*
- *Lighting Design General Plan Notes*