

Question: Has your state or agency developed specific lighting levels or thresholds for specific facility types (roadways / freeways / ramps / intersections / paths & sidewalks / etc.), and what methodology and/or criteria (illuminance / veiling luminance / contrast ratio / etc.) are used?

State	Contact	Response
Alabama	Stacey Glass, glasss@dot.state.al.us	Uses AASHTO Roadway Lighting Design Guide (October 2005) and IES RP-8 (latest edition) - illuminance methodology
Alaska	Jeff Jeffers, jeff.jeffers@alaska.gov	Currently using 1984 AASHTO Informational Guide for Roadway Lighting 1984. The 2005 AASHTO Roadway Lighting Design Guide is expected to be adopted early 2015
Arizona	Richard Moeur, rmoeur@azdot.gov (requestor)	Typically use 2005 AASHTO Roadway Lighting design guideline (illuminance) - sometimes use IES guidance for tunnels. Current policy at http://www.azdot.gov/docs/businesslibraries/700.pdf . Considering options as policy is updated.
Arkansas	John Mathis, John.Mathis@ahtd.ar.gov	Uses AASHTO's Roadway Lighting Design Guide, October 2005 - Illuminance method with recommended values
California		
Colorado		
Connecticut		
Delaware	Mark Luszcz, Mark.Luszcz@state.de.us	Uses AASHTO lighting levels and uniformity ratios and the illuminance method. DelDOT's lighting guidelines: http://www.deldot.gov/information/pubs_forms/manuals/lighting/lighting_guidelines_2012-10-01.pdf
District of Columbia		
Florida		
Georgia		
Golden Gate BHTD		
Hawaii	Brian Kimura, Bryan.Kimura@hawaii.gov	Uses the AASHTO design guide - illuminance method. There is no specific level for freeways. Engineering judgement is used to select the appropriate level within the recommended range.
Idaho		

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Illinois	Mark Seppelt, Mark.Seppelt@illinois.gov	Uses ANSI/IESNA RP-8-00 - Illuminance Method - Bureau of Design and Environmental Manual (Ch 56 Highway Lighting): http://www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Manuals-Split/Design-And-Environment/BDE-Manual/Chapter%2056%20Highway%20Lighting.pdf
Indiana	Dave Boruff, DBORUFF@indot.IN.gov	Uses AASHTO Roadway Lighting Design Guide - Illuminance Method. AASHTO design criteria modified based on Indiana's standards: http://www.in.gov/indot/design_manual/files/Ch78_2013.pdf
Iowa	Timothy Crouch, Tim.Crouch@dot.iowa.gov	Uses IES RP-8 for all of lighting level thresholds for different roadway types - luminance methodology.
Kansas	Connie Eakes, ConnieE@ksdot.org	KDOT only lights interchanges, (mostly basic diamond shape) - use high mast towers (100', 110' or 120', depending on the pavement elevation) at the exit ramp and 40' standard poles at the intersection (two towers and two standard poles). If there are houses by the interchanges, then use continuous lighting (40' standard poles) in place of a tower. Lighting at interchanges based on ADT.
Kentucky	Jeff Wolfe, Jeff.Wolfe@ky.gov	Uses AASHTO Roadway Lighting Design Guide for highway lighting (intersections, interchanges, continuous) and IESNA RP-8 for pedestrian lighting - Illuminance and uniformity ratio used in design
Louisiana	Jody Colvin, Jody.Colvin@LA.GOV	ANSI, AASTHO, IES - Illuminance Method - LaDOTD evaluates Veiling Luminance (VL) and Small Target Visibility (STV) ratios for all roadway lighting systems, especially those where luminaire mounting heights are 30 feet or less - LA DOTD Lighting Guide: http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/Misc%20Documents/Lighting%20on%20State%20Highways.pdf
Maine		
Manitoba		
Maryland		
Massachusetts	Chuck Hale, charles.hale@state.ma.us	Uses American National Standard Practice on Roadway Lighting, Document ANSI/IESNA RP-8-00, as the basis for illuminating Massachusetts roads and streets as well as pedestrian walkways and bikeways. Criteria - Luminance Methodology

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Michigan	Mark Bott, BOTTM@michigan.gov	Uses AASHTO and the referenced IESNA levels. Roadway lighting provisions (Division 8 - 819): http://mdotcf.state.mi.us/public/specprov/#ba203976-ad0b-4a0c-aaab-5730ee3d6072
Minnesota	Sue Zarling, Susan.Zarling@state.mn.us	Uses AASHTO/IES, highways: 0.6 to 1.1 fc average illuminance, 4.0:1 ave/min uniformity, and a veiling luminance (Lv(max)/L(avg)) of 0.34:1. paths and sidewalks: is our Rest Area lighting. AASHTO Ch 9 for exit gores, interior roads, parking areas, and active areas. Working on incorporating vertical illuminance. Poles must be spaced very closely together to reach the minimum vertical illuminance listed in the IES documents.
Mississippi	James Sullivan, jssullivan@mdot.ms.gov	Uses AASHTO Roadway Lighting Design Guide - primarily use illuminance method, occasional use of veiling luminance method.
Missouri		
Montana		
Nebraska	Carl Humphrey, Carl.Humphrey@nebraska.gov	Uses the current AASHTO Roadway Lighting Design Guide for overhead highway and street lighting and the ANSI / IESNA RP-8-00 for pedestrian and bikeway lighting
Nevada	Denise Inda, dinda@dot.state.nv.us	Methods and Standards in Development
New Hampshire		
New Jersey	Chris Barretts, chris.barretts@dot.state.nj.us	Uses AASHTO, NJ Lighting Design Guide: http://www.state.nj.us/transportation/eng/documents/RDM/sec11.shtm#SelectionTypes Mainline highways and ramps:horizontal illuminance of 0.6 to 0.8 footcandles, uniformity ratio of 3:1 to 4:1 or better with a 0.2 footcandle minimum level
New Jersey Turnpike		
New Mexico	Afshin Jian, Afshin.Jian@state.nm.us	Uses ANSI/IESNA RP-8-00 Table 2 recommendations
New York		

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North Carolina		
North Dakota		
Nova Scotia		
Ohio		
Oklahoma		
Oregon	Ernest Kim, Ernest.C.KIM@odot.state.or.us	Uses IES RP-8 (Roadway Lighting) and AASHTO's Roadway Lighting Design Guide, to provide appropriate lighting levels and uniformity with illuminance method. ODOT Lighting Policies and Guidelines: http://www.oregon.gov/ODOT/HWY/TRAFFIC-ROADWAY/docs/pdf/lighting_policy_and_guidelines.pdf
Pennsylvania	Glenn Rowe, GLROWE@pa.gov	Uses AASHTO and IES; PennDOT design manual also includes design criteria for rest areas. For other streets, intersections, and sidewalks/multi-use trails, they follow IES recommendations. Criteria Used - average illuminance, average to minimum uniformity ratio, and veiling luminance ratio.
Puerto Rico		
Rhode Island		
Saskatchewan		
South Carolina	Tony Sheppard, SheppardTS@scdot.org	Uses AASHTO Roadway Lighting Design Guide
South Dakota	Christina Bennett, Christina.Bennett@state.sd.us	Uses AASHTO and lateral light distributions of IES, roadway lighting guide: http://sddot.com/business/design/docs/rd/rdmch15.pdf
Tennessee		
Texas	Meg Moore, Meg.Moore@txdot.gov	Uses AASHTO Roadway Lighting Design Guide and IESNA RP-8 when designing lighting for all facility types. For specific light levels, we use the illuminance design values from Table 3-5a of the Roadway Lighting Design Guide.
Utah		
Vermont		
Virginia		

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Washington	Keith Calais, CalaisK@wsdot.wa.gov	Our lighting criteria is based off of RP-8 - illuminance method. WSDOT has developed light levels for each type of roadway depending on its classification. WSDOT Design Manual: http://www.wsdot.wa.gov/publications/manuals/fulltext/M22-01/1040.pdf
West Virginia	Mohammed Khan, mohammed.a.khan@wv.gov	Uses AASHTO Roadway Lighting Design Guide, FHWA Lighting Handbook and ANSI/IESNA RP-8-00.
Wisconsin	William McNary, William.McNary@dot.wi.gov	Uses AASHTO Roadway Lighting Design Guide, October 2005
Wyoming		