



UPL 12-7-11 No. 6 Passport

IES Recommended Practices	
Guideline for Security Lighting for People, Property, and Public Spaces	G-1-03
Recommended Lighting for Walkways and Class 1 Bikeways	DG-5-94
Recommended Practice for Sports and Recreational Area Lighting	RP-6-01
Roadway Lighting	RP-8-00
IESNA Lighting Handbook 10th Edition	July 2011

Area Classification (DG-5-1994) Table 2	Recommended Maintained Average Horizontal Illumination (footcandles)	Uniformity (Average to Minimum)
Commercial Sidewalk	1.0	4:1
Intermediate Sidewalk	0.5	4:1
Residential Sidewalk	0.2	10:1

Security Locations and Tasks (Recommended Illuminance) (G-1-03) Table 1 Page 7-12	Recommended Maintained Average Illumination (footcandles)	Uniformity (Average to Minimum)
Building Façade	0.5 - 2.0 (vertical)	8:1
Areas for Public Parks Park Trails and Walkways	0.6 (horizontal)	4:1
Areas for Public Parks Likely Loitering Areas	1.0 (horizontal)	4:1

KJWW is assuming the "Nighttime Outdoor Lighting Zone" is classified as an LZ2 - Areas of human activity where the vision of human residents and users is adapted to moderate light levels. Lighting may typically be used for safety and convenience but is not necessarily uniform or continuous. After curfew, lighting may be extinguished or reduced as activity levels decline.

**Table 22.4 "Indoor and Nighttime Outdoor Activity Level Definitions" (page 22.32)
Outdoor "high" includes University campuses and is defined as "Areas with relatively high volumes of pedestrians and vehicles or solely people during dark hours. Activity level is relative to a locale's population, density of related applications, and general expected norms across the community. Typified by consistently high volumes or extreme swings of very high volumes over short time periods. Outdoor facilities typical of large population centers.**

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City of Madison Outdoor Lighting Ordinance 10.085	Recommended Maintained Average Horizontal Illumination (footcandles)	Maximum Average Footcandles on Pavement	Uniformity (Average to Minimum)	Maximum Watts per Square Foot Lighting Load
General Parking and Pedestrian Area Medium Level of Activity	0.4	2.5	5:1	0.10
General Parking and Pedestrian Area Low Level of Activity	0.2	1.5	5:1	0.08
Maximum initial illumination level under an outdoor canopy shall not exceed 50 footcandles at any point.				

Maintained Illuminance Goals	
Perimeter walkways	0.3-1.0
Main Walkways	1.0-1.5
Plaza	1.5-3.0
Entries	3.0-10.0

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