

## APPENDIX NO. 8

**Illumination of streets, parking areas, and pedestrian ways shall be provided as specified in the following table:**

### ILLUMINATION GUIDELINES FOR STREET, PARKING, AND PEDESTRIAN AREAS

#### A.

#### Street Illumination

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Area Classification

Street Hierarchy	<u>Commercial</u>		<u>Intermediate</u>		<u>Residential</u>	
	Lux	Footcandles	Lux	Footcandles	Lux	Footcandles
Collector	13	1.2	10	0.9	6	0.6
Minor-Residential Subcollector	10	0.9	6	0.6	4	0.4
Local	6	0.6	4	0.4	4	0.4

#### B.

#### Parking Illumination (Open Parking Facilities)

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Illumination Objective

Level of Activity	<u>Vehicular Traffic</u>		<u>Pedestrian Safety</u>		<u>Pedestrian Security</u>	
	Lux	Footcandles	Lux	Footcandles	Lux	Footcandles
Low activity	5	0.5	2	0.2	9	0.8
Medium activity	11	1	6	0.6	22	2
High activity	22	2	10	0.9	43	4

**C.**  
**Pedestrian Way Illumination**

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	<b>Minimum Average</b>		<b>Average Levels for Special Pedestrian Security</b>			
	<b>Level</b>		<b>Mounting Heights</b>		<b>Mounting Heights</b>	
<b>Walkways &amp; Bikeway</b>			3 to 5 meters		5 to 10 meters	
<b>Classification</b>	<b>Lux</b>	<b>Footcandles</b>	(9 to 15 feet)		(15 to 30 feet)	
	<b>Lux</b>	<b>Footcandles</b>	<b>Lux</b>	<b>Footcandles</b>	<b>Lux</b>	<b>Footcandles</b>

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Sidewalks (Roadside) and Type A Bikeways:

Commercial Areas	10	0.9	22	2.0	43	4.0
Intermediate	6	0.6	11	1.0	22	2.0
Residential Areas	2	0.2	4	0.4	9	0.8

Walkways Distant From Roadways and Type B Bikeways:

Park Walkways and Bikeways

	5	0.5	6	0.6	11	1.0
Pedestrian Tunnels	43	4.0	54	5.0	--	--
Pedestrian Overpasses	3	0.3	4	0.4	--	--
Pedestrian Stairways	6	0.6	9	0.8	--	--

# ILLUMINATION GUIDELINES FOR STREET, PARKING, AND PEDESTRIAN AREAS

IES Lighting Handbook definitions:

## I. Area classification:

### 1. Commercial

That portion of a municipality in a business development where ordinarily there are large numbers of pedestrians during business hours.

### 2. Intermediate

That portion of a municipality often characterized by a moderately heavy nighttime pedestrian activity such as in blocks having libraries, community recreation centers, large apartment buildings or neighborhood retail stores.

### 3. Residential

A residential development, or a mixture of residential and commercial establishments, characterized by a few pedestrians at night. This definition includes areas with single family homes, townhouses and/or small apartment buildings.

## II. Activity level:

### 1. High activity

Major league athletic events, major cultural or civic events, and major regional shopping centers.

### 2. Medium activity

Fast food facilities, area shopping centers, hospital parking areas, transportation parking (airports, etc.), cultural, civic or recreational events, and residential complex parking.

### 3. Low activity

Local merchant parking, industrial employee parking, educational facility parking.

## III. Bikeway classification

1. Type A bikeway - a strip within or adjacent to a public roadway or shoulder, used for bicycle travel.

2. Type B bikeway - an improved strip identified for public bicycle travel and located away from a roadway or its adjacent sidewalk system.

**Source:** Illuminating Engineering Society of North America, IES Lighting Handbook (New York, NY: IES, 1981)