

## 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

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	10	0.9	6	0.6	4	0.4
Subcollector						
Local	6	0.6	4	0.4	4	0.4

#### B.

#### Parking Illumination (Open Parking Facilities)

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**

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

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)