

DIVISION 26 - ELECTRICAL

SECTION 26 56 00 – EXTERIOR LIGHTING

PART 1: GENERAL

1.01 Scope of Standards

- A. This standard provides general guidance concerning the specific preferences of Texas State University for Exterior Lighting.
- B. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for Texas State University projects.

1.02 General Requirements for Exterior Fixtures

- A. Light fixture selection shall comply with the following:
 - 1. All pole mount fixtures, ground mounted and wall mounted fixtures shall have die cast aluminum housings with powder coat painted finish.
 - 2. All exterior wall mounted fixture mounted below 12 foot above grade shall be “vandal resistant” design. Additionally, all fixtures installed below 5 foot above grade shall have tamperproof screws.
 - 3. All exterior fixtures shall have internal electrical components (socket and ballast) in a tray type configuration with connectors for simplified replacement of failed components.
 - 4. Where required to control light trespass, exterior fixture shall be provided with “house side shields” (or the equivalent). Fixtures using “barn doors” are not acceptable.
 - 5. Light controls: Refer to 26 50 00, PART 2, D.
- B. See 26 50 00. PART 2, G. LAMP AND BALLAST GUIDELINES FOR ALL LIGHTING.

1.03 General Illuminance Levels for Exterior Lighting

- A. Illuminance levels shall be designed based careful consideration of the use. The following schedule is a general guide for lighting levels. The schedule is not intended to replace or supplant the information included in the cited references, and is included here for general information.

RECOMMENDED MAINTAINED ILLUMINANCE VALUES FOR PARKING FACILITIES (FROM IESNA RP-20-98)

AREA OR SPACE	MIN AVG	MINIMUM	MAX:MIN
Parking garage (night)	NA	1.00 fc	10:1
Parking garage ramps (day)	NA	2.0 FC	10:1
Parking garage ramps (night)	NA	1.0 FC	10:1
Parking garage entrances (day)	50	NA	NA
Parking garage entrances (night)	NA	1.0 fc	10:1
Parking (levels open to sky)	NA	0.5 fc	15:1
STAIRWAYS (serving structured parking)	NA	2.0 fc	NA

AREA OR SPACE	MINIMUM	MAX:MIN
Parking lots (enhanced security)	0.5 fc	15:1

RECOMMENDED MAINTAINED ILLUMINANCE VALUES FOR ROADWAYS (FROM IESNA RP-8-00)

AREA OR SPACE	MIN AVG	AVG:MIN
Roadways (Collector)	1.2 fc	4.0

RECOMMENDED MAINTAINED ILLUMINANCE VALUES FOR PEDESTRIAN WAYS (FROM IESNA RP-33-99)

AREA OR SPACE	MIN AVG	MAX:MIN
Pedestrian stairways	0.5 fc	10:1
Sidewalks (roadside)	0.5 fc	10:1
Walkways distant from roadways	0.5 fc	10:1

Sidewalk and walkways illuminance values are based on a pedestrian activity for an intermediate area.

All illuminance levels are horizontal footcandles measured at the ground plane. See the cited IESNA documents for requirements for vertical illuminance levels. See paragraph 26 50 00, PART 3, 3.01 PROJECT DELIVERABLES for documentation requirements related to illuminance levels.

PART 2: PRODUCTS (NOT USED)

PART 3: EXECUTION (NOT USED)

END OF SECTION 26 56 00