

Draft Text Amendment to Lighting to Promote Dark Sky Principles, July 24, 2023,
revised 7/26/23

Deleted language is ~~[struck out and in brackets]~~. New language is underlined and highlighted.

§34 OFF-STREET PARKING AND LOADING

34-11.13 Lighting Standards for Parking Lots

Any lighting used to illuminate any off-street parking area shall be shielded, down directed and so arranged as to reflect the light away from adjoining premises and public rights-of-way. Lighting of the parking lot must be adequate at ground level for the protection and safety of the public in regard to pedestrian and vehicular circulation (Also see §44-5.5.1(b), Lighting and Noise).

§44 SPECIAL PERMIT AND/OR SITE PLAN DOCUMENTS, STANDARDS AND OBJECTIVES

44-1.4.5 Signs and Lighting

~~Locations, size, height, orientation, design and plans of all signs and outdoor lighting including shielding, foot candles and hours of operation.~~

Lighting Plans are required for all non-residential and multi-family residential developments and shall be submitted as part of the Site Plan.

A. Lighting plans shall include the following:

1. Detail for lighting fixtures, including:

a. Fixture type;

b. Fixture dimensions;

c. Fixture color;

d. Lighting element type;

e. Lighting element wattage;

f. Lighting color temperature in Kelvin units;

g. Fixture Lumens output;

h. Sign location; and

i. Hours of operation.

2. Photometric plan of site.

3. Fixture locations, including:

a. Exterior building lighting;

b. Site lighting; and

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c. Right of way lighting.

B. Continuing obligation to comply with standards. Once new lighting is installed, the owner has the continuing obligation to ensure existing and new lighting fixtures comply with lighting standards.

44-5.5 Lighting and Noise

44-5.5.1

That all exterior lights and illuminated signs shall be designed, located, installed and directed in such a manner as to prevent objectionable light at, and glare across, the property lines, **to impose Dark Sky initiatives to help control light pollution; and to reduce energy use.**

Except as described below, all outdoor lighting installed after the effective date of this regulation (INSERT DATE) shall comply with these requirements. This includes, but is not limited to, new lighting, replacement lighting, or any other lighting whether attached to structures, poles, the earth, or any other location, including lighting installed by any third party.

- a. All exterior light fixtures shall be ~~[located at the minimum height from the ground and the maximum distance from the property line consistent with providing adequate and safe lighting of the building entrances, walkways, parking area and access ways]~~ **mounted no higher than 16 feet.**
- b. All exterior lighting shall be designed so that the filaments, light sources or lenses are shielded with opaque material in such a way that the light will be **cut-off**, down directed and ~~[will not be visible at a height greater than six (6) feet above the ground level at property lines]~~ **the lighting element shall not be visible from the property line.**
~~[b. Unshielded lighting may be used if it can be shown that the light distribution characteristics of the proposed fixtures are not objectionable.]~~
- c. Lighting may be directed upward at such an angle to light only on-site buildings, trees, shrubs or site surfaces.
- d. Lights producing varying intensities, changing colors, or light movement shall be prohibited.
- e. **All lighting fixtures shall be 3000 Kor less in color.**
- f. **In no case shall the total lumens for a single site exceed 100,000 lumens per net acre.**
- g. **In no case shall Direct Light be allowed beyond the property line and in no case shall the lighting element be visible from beyond the property line. Site lighting shall be considered as to reduce the amount of Reflective Light leaving the site.**
- h. **Exemptions:**
 - ii. **Holiday Lighting: Holiday lighting shall be exempt.**

All lighting within the public right of way shall be consistent with the current Engineering Standards and Specifications.

§5 DEFINITIONS

Direct Light: Light emitted directly from the lamp, off of the reflector or reflector diffuser, or through the refractor or diffuser lens, of a luminaire.

Fixture: The assembly that houses the lamp or lamps and can include all or some of the following parts: a housing, a mounting bracket or pole socket, a lamp holder, a ballast, a reflector or mirror, and/or a refractor or lens.

Glare: Light emitting from a luminaire with intensity great enough to reduce a viewer's ability to see, and in extreme cases causing momentary blindness.

Height of Luminaire: The height of a luminaire shall be the vertical distance from the ground directly below the centerline of the luminaire to the lowest direct-light emitting part of the luminaire.

Lumen: (A unit of luminous Flux.) One foot-candle is one lumen per square foot. For the purposes of this Ordinance, the lumen output values shall be the INITIAL lumen output ratings of a lamp.

Outdoor Lighting: The nighttime illumination of an outside area or object by any man-made device located outdoors that produces light by any means.

Reflected Light: Reflected Light is ambient light that results from the reflection of direct light off the urban environment.

Temporary Outdoor Lighting: The specific illumination of an outside area or object by any man-made device located outdoors that produces light by any means for a period of less than 30 days, with at least 180 days passing before being used again.