

## **ARTICLE 10 HEIGHT AND AREA REGULATIONS**

### **Section 1023 Outdoor Lighting and Illumination.** 65 repealed 201 374

- A. **Definitions:** For the purposes of this section, exterior lighting is defined and regulated by the following definitions and categories:
1. **Footcandle (fc)** - A unit of illuminance of equal to the light from one candle projected on a one foot square surface at a distance of one foot from the candle. One foot-candle equals one lumen.
  2. **Fully Shielded (Full Cut-Off)** - A fixture shielded with an opaque material so that light rays emitted by the fixture are projected only below a horizontal plane running through the lowest point on the fixture where light is emitted.
  3. **Luminaire (Light Fixture)** - A complete lighting unit consisting of a lamp or lamps and ballast(s) (when applicable) together with the parts designed to distribute the light, position and protect the lamps, to connect the lamps to the power supply.
  4. **Opaque** - Impervious to the passage of light.
  5. **Partially Shielded (Partial Cut-Off)** - A fixture that allows light rays to be emitted up and down and shielded with an opaque material in such a manner to prevent the bulb from being seen.
  6. **Safety Lighting** - Low-level lighting used to illuminate vehicular and pedestrian circulation.
  7. **Security Lighting** - Lighting that is fully shielded that is intended to provide bright illumination during emergency situations only.
  8. **Translucent** – A material through which light can pass but the light source cannot be seen.
  9. **Trespass Lighting** - Spill light that encroaches onto neighboring properties.
  10. **Visual Enjoyment Lighting** - Lighting intended to illuminate outdoor living areas.

All types of outdoor Luminaires are subject to the following limitations:

No lamp or lighting or illumination device shall provide light in excess of 0.75 foot candles of projected brightness measured at the nearest property line.

1. Each lighting or illuminating device shall be set back from the nearest property line a minimum of ten (10) feet or a distance equal to or greater than the height of the device above natural or excavated grade, whichever is greater.

**EXCEPTION:** A lighted entry marker may be placed on each side of a driveway entrance. The entry markers shall not be placed within the Town right-of-way or private road areas and the total height of the marker and light shall not exceed four (4) feet above finished grade adjacent to the driveway. The light source shall not exceed 300 lumens.

3. The following light sources shall not exceed a height of thirty-six (36) inches above natural or excavated grade, whichever is lower, and shall not exceed 300 lumens:
  - a. All lighting or illumination of landscape;
  - b. Accent or aesthetic lighting of buildings or structures;
  - c. Any illumination device that directs light above a horizontal plane.
4. Lighting used for security and safety shall be an integral part of and attached to the building. The light source and reflecting device shall be shielded or hooded with an opaque cover so that it is not visible from off the property and shall not be higher than twenty (20) feet above natural or excavated grade, whichever is lower. The light source shall not exceed 1200 lumens. Limited use of security/safety lighting is encouraged to prevent excessive ambient light.
5. Rope lighting shall not exceed 80 lumens per lineal foot and must be shielded so the individual luminaires are not visible.
6. Temporary holiday lighting shall be permitted between November 15<sup>th</sup> and January 15<sup>th</sup>. All other colored Luminaires or bulbs and string are prohibited.
7. Tennis court lighting shall be hooded or shielded so that the light source and reflecting device is not visible from off the property. No lighting or illumination device shall project light in excess of 0.75 foot candles of brightness measured at the nearest property line. The maximum height of tennis court lighting shall not exceed twenty (20) feet above the court surface or natural grade whichever is lower.
8. On Hillside lots there shall be no lighting permitted in the undisturbed areas of the property. Exterior lighting shall be kept to the minimum amount needed for the safe use of the property and all permitted lighting shall comply with all terms of this section.

## **ARTICLE 22 HILLSIDE DEVELOPMENT REGULATIONS**

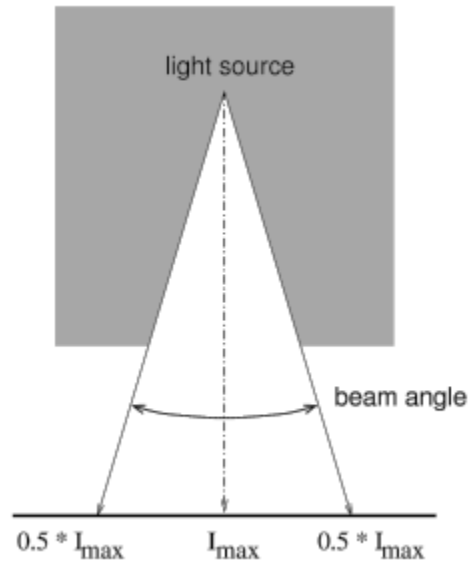
### **Section 2208      **OUTDOOR LIGHTING** <sup>558</sup>**

B. Purpose: The intent of these lighting requirements is to preserve the low light level conditions that are inherently characteristic of the desert. The objective is to allow only the quantity and level of lighting necessary for safety, security and the enjoyment of outdoor living while protecting against direct glare and excessive lighting; protecting the ability to view the night sky; and preventing light trespass.

C. Definitions: For the purposes of this section, exterior lighting is defined and regulated by the following definitions and categories:

11. Footcandle (fc) - A unit of illuminance of equal to the the light from one candle projected on a one foot square surface at a distance of one foot from the candle. One foot-candle equals one lumen.
12. Fully Shielded (Full Cut-Off) - A fixture shielded with an opaque material so that light rays emitted by the fixture are projected only below a horizontal plane running through the lowest point on the fixture where light is emitted.
13. Luminaire (Light Fixture) - A complete lighting unit consisting of a lamp or lamps and ballast(s) (when applicable) together with the parts designed to distribute the light, position and protect the lamps, to connect the lamps to the power supply.
14. Opaque - Impervious to the passage of light.
15. Partially Shielded (Partial Cut-Off) - A fixture that allows light rays to be emitted up and down and shielded with an opaque material in such a manner to prevent the bulb from being seen.
16. Safety Lighting - Low-level lighting used to illuminate vehicular and pedestrian circulation.
17. Security Lighting - Lighting that is fully shielded that is intended to provide bright illumination during emergency situations only.
18. Translucent – A material through which light can pass but the light source cannot be seen.
19. Trespass Lighting - Spill light that encroaches onto neighboring properties.
20. Visual Enjoyment Lighting - Lighting intended to illuminate outdoor living areas.

**FIGURE 9 – Light Source Beam Angle**



C. Design Standards:

1. All building mounted **Luminaires** shall be fully shielded. Recessed lights in exterior soffits, eaves, or ceilings shall have a **beam angle not greater than 90 degrees**. At the main entry of the primary structure and garage entrances, a maximum of two (2) translucent fixtures may be permitted as long as the total lumens, per fixture, do not exceed a maximum of 1200 lumens. All other entrances, excluding garage doors, shall be limited to no more than one (1) fixture. Maximum illuminance per fixture is not to exceed 1200 lumens.
2. All **Luminaires**, unless otherwise allowed, shall be directed downward and properly aimed on the targeted areas to maximize their effectiveness and minimize the total number of lighting fixtures.
3. Building mounted **Luminaires** must be directed downward away from adjacent lots, streets, undisturbed areas, and open spaces, and may not be used to light walls or building elements for decorative purposes.
4. There shall be no lighting permitted in areas identified as “undisturbed areas” of the property pursuant to the plans submitted under Section 2207 III.A.
5. The maximum lighting intensity shall not exceed 0.25 footcandle when measured at the property line.

6. Lighted entry markers may be placed on each side of the driveway entrance and one side of an entry walkway. Repetitive row of Luminaires along driveways or walkways accessing public streets is not allowed. Random placement of Luminaires along entry driveways and walkways may be allowed. Driveway Luminaires must be located on the "downhill" side and aimed toward the "uphill" side, must be fully shielded from below and only light the driveway or walkway surface. Entry markers shall not be placed within the Town right-of-way or private road areas and the total height of the marker and light shall not exceed four (4) feet above finished grade adjacent to the driveway and walkway. The light source shall not exceed 300 lumens.
7. Luminaires shall be set back from the nearest property line a minimum of ten (10) feet except for entry lighting.

D. Luminaire (Light Fixture) All luminaires shall be subject to the following limitations:

1. Shall not exceed 1200 lumens when attached to a structure and confined to the immediate vicinity of a building entrance or outdoor living area of the residence.
2. Shall not exceed 300 lumens for all other uses.
3. Shall not exceed 300 lumens for landscape up-lighting.
4. Security lighting shall be on only when needed and be controlled by a timer that operation to 10 minutes per incident. The light source shall not exceed 1200 lumens.
5. Rope lighting shall not exceed 80 lumens per lineal foot.

E. Mounting Luminaires:

1. Post-mounted Luminaires shall not to exceed 36 inches above the ground.
2. Tree mounted Luminaires shall not exceed 8 feet above the finished grade.
3. Wall mounted Luminaires not to exceed 8 feet above finished grade and shielded in such a manner as to avoid creating concentrated light (hot spots) on the structures to which they are mounted.
4. Security Luminaires shall not exceed 12 feet above finished grade.

F. Landscape Up-lighting:

1. The number of fixtures is limited to one fixture per 1000 square feet of allowable disturbed area.
2. The light source beam angle shall not exceed 90 degrees.

G. Prohibitions In addition to the limitations noted above, the following Luminaires are strictly prohibited:

1. Colored lamps or bulbs and string and unshielded rope lights; except temporary holiday lighting between November 15<sup>th</sup> and January 15<sup>th</sup>.
2. Tennis court and sport court lighting.
3. Temporary lighting that violates the provisions of this lighting section.
4. Exterior Luminaires, except security lighting, that illuminate the adjoining mountainside such that the mountainside is visible from off the property at any time.

H. Amendments:

1. Should the applicant desire to substitute outdoor light fixtures or lamps after a permit has been issued, the applicant must submit all changes to the Town Engineer for approval, with adequate information to assure compliance with this ordinance.

## **ARTICLE 25 SIGNS**

### Section 2506. Lighting: <sup>388</sup>

- A. Signs may be illuminated with illumination confined to the area of the sign.
- B. All light sources shall be fully shielded so they do not create a nuisance or hazard.
- C. Back lighting of freestanding letters mounted on a wall shall be limited to 100 lumens per square foot of sign area and the letters shall be fabricated so that the illumination source is not visible. Backlit non-opaque panels are not permitted..

External sign lighting shall be shielded so that the illumination source is not visible from any adjacent street or property and does not shine beyond the sign area it is intended to illuminate

- D. Signs that are illuminated shall not exceed 0.75 foot candles of projected brightness measured at the nearest property line.
- E. To reduce the amount of Blue Light at night, the color temperature of lighting shall be no more than 3000 Kelvins
- F. Lighting shall not be flashing, intermittent, or fluttering; shall not be moving, animated or create noise in any manner.
- G. Signs may be illuminated only during the hours that the associated establishment is open for business.
- H.

## **SPECIAL USE PERMIT GUIDELINES**

### Section 2            Lighting

The following lighting guidelines shall apply to all non-residential properties requiring a Special Use Permit.

- a. Outdoor lighting shall be permitted so long as:
  - i. the light emitting element is shielded so that no beam of light extends above a horizontal plane placed at the lowest level of any exposed portion of the light emitting element; and
  - ii. the light emitting element and reflecting device of all lighting or illumination units is hooded or shielded so that it is not visible from any adjacent lot or real property; and
  - iii. such outdoor lighting or illuminating units do not direct light, either directly or through a reflecting device, upon any adjacent real property.
  - iv. uplighting shall be permitted so long as no Luminaire is greater than 300 lumens.
- b. Outdoor pole lighting shall be permitted subject to the provisions of subsection A.8.a of this section so long as:
  - 8. the height of such lights or illumination does not exceed 16 feet measured from the natural ground level; and
  - 9. Each lighting or illuminating device shall be set back from the nearest property line a distance equal to or greater than the height of the device above natural ground level.

- c. Outdoor light levels, measured in foot candles in accordance with Illuminating Engineering Society of North America (IESNA) standards, shall not exceed the following levels in the locations specified:
  - i. parking lots – 1.6.
  - ii. entrance roadways, interior driveways and drop off areas – 5.0.
  - iii. adjacent to service buildings and loading docks – 5.0.
  - iv. in conjunction with architectural lighting adjacent to all other structures – 3.0.
  - v. outdoor pool decks and function areas – 5.0.
  - vi. outdoor dining areas – 10.0.
- d. No outdoor lighting shall be permitted within any setback area adjacent to a residential property unless:
  - i. the lighting measured at the property line does not exceed 0.5 foot candles; and
  - ii. all light emitting elements are less than three (3) feet in height.