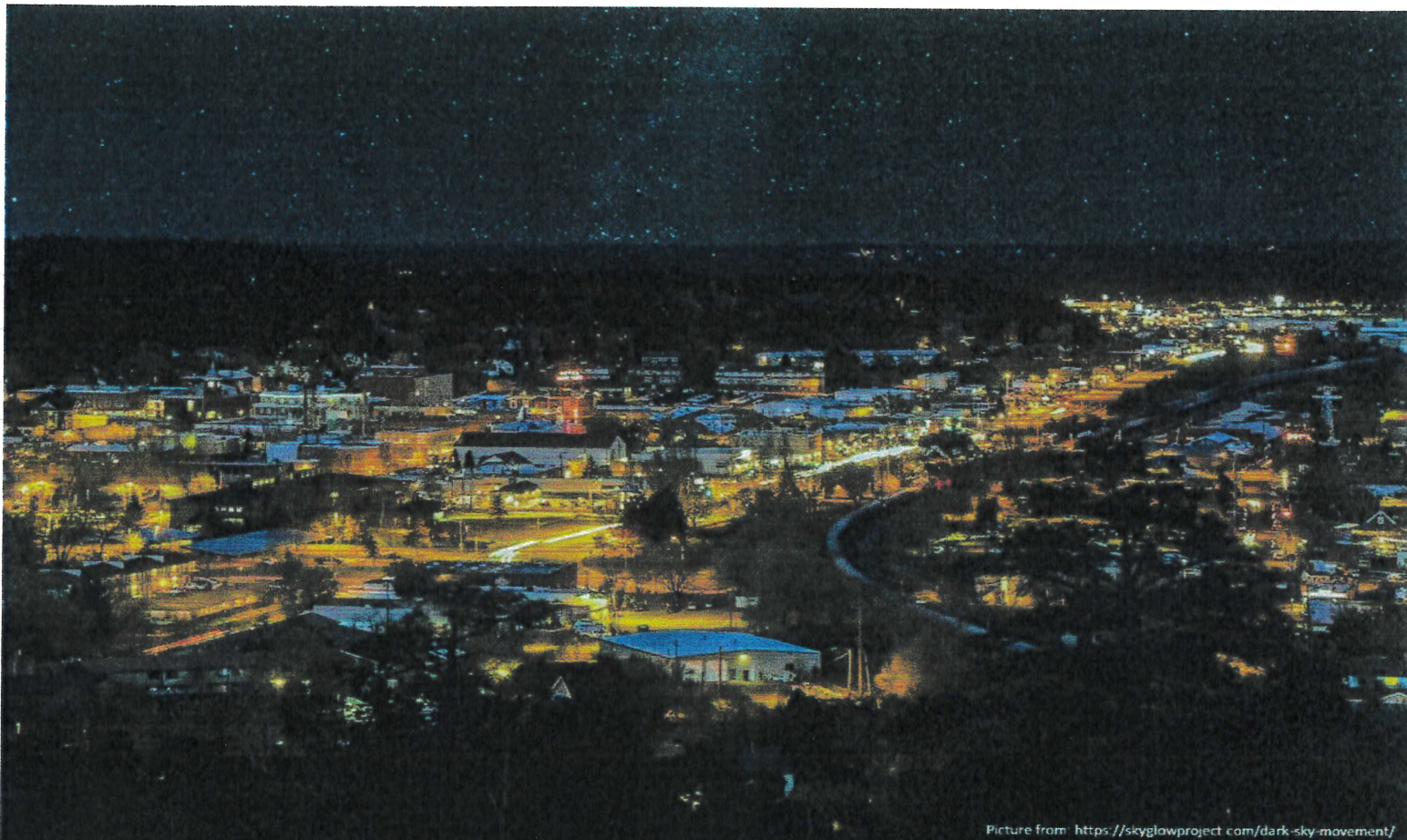




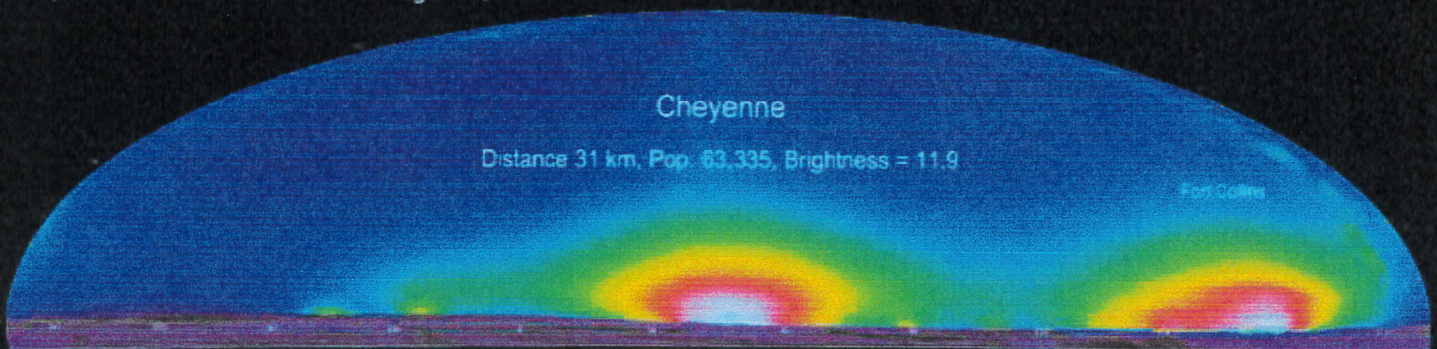
Picture from <https://skyglowproject.com/dark-sky-movement/>

Flagstaff's night sky is over 90% darker!

Ashurst Lake July 8, 2016



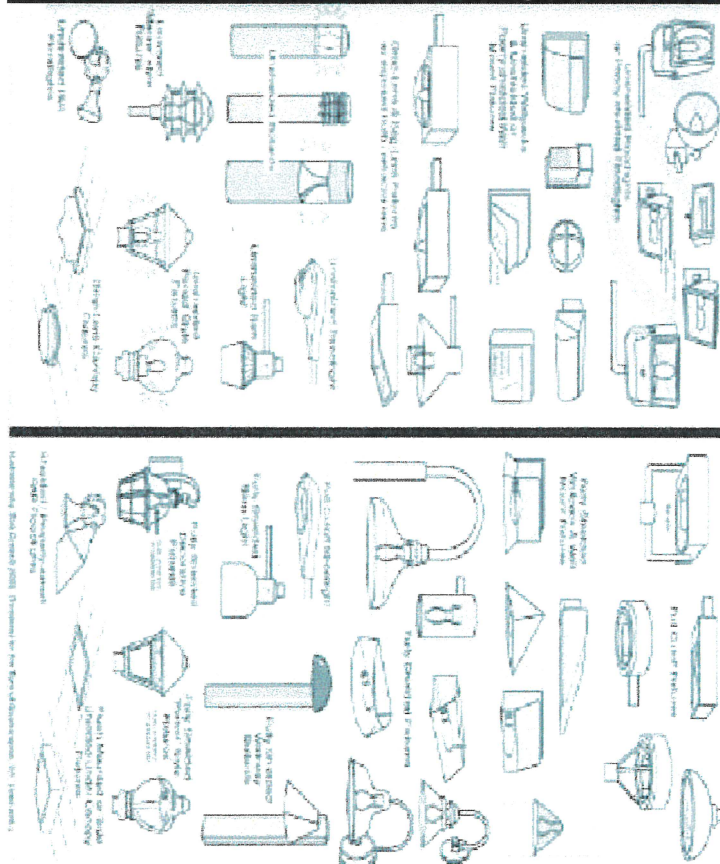
Soapstone Prairie Natural Area August 2, 2016



Visual Magnitudes per square arc-second

Flagstaff AZ Elevation 7139 feet

Unacceptable / Discouraged



- **CHAPTER 14.20. - EXTERIOR LIGHTING REGULATIONS**

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- **14.20.010. - Title.**

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This chapter shall be known and may be cited as the "Town of Palmer Lake Exterior Lighting Regulations."

(Ord. No. 20-2018, § 3(14.17.010), 11-8-2018)

- **14.20.020. - Definitions.**

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The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Emergency lighting means temporary lighting used by a police department, fire department, or other governmental entity required for public safety in the reasonable determination of public safety officials with authority.

Foot-candle means a unit of measure of the intensity of light falling on a surface, equal to one lumen per square foot.

Glare means a harsh uncomfortably bright light.

Holiday lighting means seasonal lighting using typical low-wattage lamps outlining a building or structure, or decorative string lighting in trees, commonly associated with the winter holiday season which begins Thanksgiving of each year and ends January 15th of the following year.

Laser light means a device that emits light through a process of optical amplification based on the stimulated emission of electromagnetic radiation.

Light trespass means any form of shining light emanating from a fixture that penetrates property other than that on which it is placed by more than 0.04 foot-candles at the property line.

Motion sensor means a mechanism for controlling illumination by turning lights on when activated by motion and remaining on during activity for a maximum of 30 minutes following the last detection of motion.

Photocell means a mechanism that is activated by the nonpresence of sunlight (and has the effect of illuminating a property all night).

Prohibited bulbs means any metal halide bulbs, fluorescent bulbs, or LED bulbs with correlated color temperature of 3000k or above.

Searchlight means a device, consisting of a light source and a reflecting surface behind it that projects a powerful beam of light in a particular direction. Search light does not include a powerful flashlight or emergency lighting.

Shielded fixture means a light fixture that has an opaque shield, housing or shade over the bulb or lamp such that light is not emitted through the top or the sides of the shield, housing or shade and is emitted downward only and not past the property line of the property on which the fixture exists.

(Ord. No. 20-2018, § 3(14.17.020), 11-8-2018)

- **14.20.030. - Applicability; compliance date.**

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(a)

Unless exempt under section [14.20.040](#)(b), the provisions of this chapter shall apply to all newly installed commercial and residential exterior light fixtures.

(b)

Unless exempt under section [14.20.040](#)(b), the provisions of this chapter shall apply to all exterior light fixtures lawfully installed prior to the effective date of the ordinance from which this chapter is derived but that do not comply with the requirements of this chapter such that such fixtures may continue to be used and maintained, but shall be brought into compliance with the requirements of this chapter as follows:

(1)

All non-compliant light fixtures requiring only an adjustment (to include a change of bulbs) to meet the requirements of this chapter shall be brought into compliance with the requirements of this chapter by January 15, 2019; and

(2)

All non-compliant light fixtures which require replacement to meet the requirements of this chapter shall be brought into compliance with the requirements of this chapter by May 31, 2019.

(Ord. No. 20-2018, § 3(14.17.030), 11-8-2018)

- **14.20.040. - Prohibited lighting; exemptions.**

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(a)

Unless exempted under subsection (b) of this section, the following are prohibited on all properties within the town:

(1)

The lighting of any light fixtures that do not meet the lighting standards set forth in section [14.20.050](#).

(2)

Searchlights.

(3)

Laser lights.

(4)

Lights not approved in any town-approved lighting plan for any property.

(b)

Exemptions. The provisions of this chapter shall not apply to the following:

(1)

Lighting of or on residential structures conditioned on such lighting not causing light trespass or nuisance from glare.

(2)

Emergency lighting.

(3)

Holiday lighting conditioned on such lighting not causing light trespass or nuisance from glare.

(4)

Lighting of the historic star on Sundance Mountain at such times as determined by the town board of trustees.

(5)

Lighting of national, state or local municipal flags (and not other flags) when lit with a maximum of two fixtures of not more than 80 watts each conditioned on such lighting not causing light trespass or nuisance from glare.

(6)

Lighting of a sign in accordance with the requirements of the Palmer Lake Code.

(7)

Lighting by town of town fields or other recreational facilities conditioned on lighting of the playing area being extinguished by 10:00 p.m. or within one-half hour after the conclusion of the final event of the day, whichever is later with the remainder of the facility lighting, except for reasons of security, being extinguished at 10:00 p.m. or within one hour after the event, whichever is later.

(Ord. No. 20-2018, § 3(14.17.040), 11-8-2018)

- **14.20.050. - Lighting standards.**

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(a)

Light fixtures must be shielded fixtures.

(b)

Light from any property shall not cause light trespass.

(c)

No prohibited bulbs as defined in this chapter may be lit. Yellow light sources such as high-pressure sodium, phosphor-converted amber light emitting diode, low-pressure sodium, narrow-band amber bulbs are suggested.

(d)

Total lumens for a property will be limited to a maximum of 25,000 lumens per acre.

(e)

Signage illumination. All signage shall comply with all applicable provisions of this Code.

(f)

Security lighting. Security lighting must be directed downward toward designated areas and use the lowest possible illumination to effectively allow surveillance. The use of motion sensors, timers, photocells or other means to activate lighting during times when it is needed is encouraged to conserve energy and provide safety and promote compatibility between different land uses.