Chapter 17.132
DARK SKIES

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17.132.010: GENERAL PROVISIONS:

A. Title: This chapter, together with the amendments codified in this chapter, shall be known and may be cited as the KETCHUM DARK SKY ORDINANCE.

B. Purposes: The general purpose of this chapter is to protect and promote the public health, safety and welfare, the quality of life, and the ability to view the night sky by establishing regulations and a process of review for exterior lighting. This chapter establishes standards for exterior lighting in order to accomplish the following:

1. To protect against direct glare and excessive lighting;
2. To provide safe roadways for motorists, cyclists and pedestrians;
3. To protect and reclaim the ability to view the night sky, and help preserve the quality of life and the tourist experience;
4. To prevent light trespass in all areas of the City;
5. To promote efficient and cost effective lighting;
6. To ensure that sufficient lighting can be provided where needed to promote safety and security;
7. To allow for flexibility in the style of lighting fixtures;
8. To provide lighting guidelines;
9. To provide assistance to property owners and occupants in bringing nonconforming lighting into conformance with this chapter; and
10. To work with other jurisdictions within Blaine County to meet the purposes of this chapter.

C. Scope: All exterior lighting installed after the effective date hereof in any and all zoning districts in the City shall be in conformance with the requirements established by this chapter and any other applicable ordinances. All existing lighting installed prior to the effective date hereof in any and all zoning districts in the City shall be addressed as follows:
1. All existing lighting located on a subject property that is part of an application for a City Planning Department design review, conditional use, subdivision permit, or building permit is required to be brought into conformance with this chapter. Conformity shall occur prior to issuance of a certificate of occupancy, final inspection or final plat recordation, when applicable. For other permits, the applicant shall have a maximum of thirty (30) days from date of permit issuance to bring the lighting into conformance.

2. All existing exterior commercial lighting that is not in conformance with this chapter shall be brought into conformance with this chapter by June 30, 2018.

3. All existing lighting that does not meet the requirement of section 17.124.060 of this title, which states that "any parking, yard or building illumination in (any) zoning (district) shall be so directed as to protect adjacent properties from glare and direct lighting", is required to be brought into conformance with this chapter.

4. All existing exterior residential lighting, not affected by subsections C1 and C3 of this section, that does not comply with this chapter is required to be brought into conformance with this chapter by June 30, 2019.

5. In the event of a discrepancy in applicable ordinances, the most restrictive shall apply. (Ord. 1171, 2017)

17.132.020: APPLICABILITY:

A. Authority: The commission, the building official and/or the Administrator shall have the authority to require new lighting and existing lighting pursuant to subsection 17.132.010C1 of this chapter to meet the requirements of this chapter.

B. Lighting Plans Required: All applications for design review, conditional use, subdivision and/or building permits shall include lighting plans showing location, type, height, color temperature, lumen output and amount of all proposed and existing fixtures. The applicant shall provide enough information to verify that lighting conforms to the provisions of this chapter. The Administrator, commission and/or building official shall have the authority to request additional information in order to achieve the purposes of this chapter. (Ord. 1171, 2017)

17.132.030: LIGHTING STANDARDS:

A. Color Temperature: All exterior lighting shall utilize light sources not to exceed two thousand seven hundred (2,700) Kelvin.

B. Light Trespass And Overlighting: All existing and/or new exterior lighting shall not cause light trespass and shall protect adjacent properties from glare and excessive lighting. All vehicle lighting originating from a commercial property shall be shielded from other adjacent properties. Incidental light trespass (lighting emanating from turning motor vehicles or motion sensor lighting) is permitted.

1. All lighting emitting from any zoning lot shall not cause the light level along any property line, as measured at a height of sixty inches (60") above grade in a plane at any angle of inclination, to exceed the limitations listed in figure 1, "Light Trespass And Overlighting Matrix", of this subsection.

FIGURE 1
LIGHT TRESPASS AND OVERLIGHTING MATRIX

<table>
<thead>
<tr>
<th>Zone Of Light Source</th>
<th>Impacted Zone</th>
<th>Maximum Foot-Candle Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-commercial (LR, LR-1, LR-2, GR-L, GR-H, STO-.4, STO-1, STO-H, RU, AF)</td>
<td>0.1 foot-candle</td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------</td>
<td></td>
</tr>
<tr>
<td>Non-commercial (LR, LR-1, LR-2, GR-L, GR-H, STO-.4, STO-1, STO-H, RU, AF)</td>
<td>0.5 foot-candle</td>
<td></td>
</tr>
<tr>
<td>Commercial zones (CC, T, T-3000, T-4000, LI-1, LI-2, LI-3)</td>
<td>0.1 foot-candle</td>
<td></td>
</tr>
<tr>
<td>Commercial zones (CC, T, T-3000, T-4000, LI-1, LI-2, LI-3)</td>
<td>0.5 foot-candle</td>
<td></td>
</tr>
<tr>
<td>Community Core (CC)</td>
<td>No limit</td>
<td></td>
</tr>
</tbody>
</table>

C. IESNA Guidelines: The commission or Administrator may require that any new lighting or existing lighting that comes before them meet the standards for maximum illuminance output as established by IESNA.

D. Nonessential Exterior Commercial And Residential Lighting: All nonessential exterior commercial and residential lighting shall be turned off after business hours and/or when not in use. Lights on a timer shall be used. Sensor activated lights shall be used to replace existing lighting that is desired for security purposes.

E. Area Lights:

1. All area lights, including streetlights and parking area lighting, shall be level mounted and eighty five degrees (85°) full cutoff type fixtures.

2. Residential streetlights shall be limited to one thousand one hundred twenty five (1,125) lumens, unless otherwise recommended by the Public Works Department.

3. Nonresidential streetlights shall be limited to one thousand five hundred (1,500) lumens, unless otherwise recommended by the Public Works Department.

4. Lights on major intersections on State highways shall be limited to three thousand (3,000) lumens, unless otherwise recommended by the Public Works Department.

5. Parking area lights are encouraged to be greater in number, lower in height and lower in light level, as opposed to fewer in number, higher in height and higher in light level. Parking lot lighting shall not exceed IESNA recommended illuminance (foot-candle) level and are encouraged to utilize the lowest range available.

6. All freestanding area lights within a residential zone, except streetlights, shall be mounted at a height equal to or less than the value $3 + (D/3)$, where $D$ is the distance in feet to the nearest property boundary.

7. Freestanding luminaires shall be no higher than twenty five feet (25’) above the stand/pole base; except, that luminaires used for playing fields shall be exempt from the height restriction, provided all other provisions of this chapter are met and the light is used only while the field is in use; and except, that streetlights used on major roads may exceed this standard if necessary as determined by the City Council, as advised by a lighting engineer. Building mounted luminaires shall be attached only to walls, and the top of the fixture shall not exceed the height of the parapet or roof, whichever is greater.
8. Area lights on a timer, sensor activated, or turned off at ten thirty o'clock (10:30) P.M. are exempt from subsection B of this section, provided all other standards of this section are met.

F. Uplighting: Uplighting is prohibited in all zoning districts, except as where permitted in this chapter.

G. Public Outdoor Lighting: Public outdoor lighting, including holiday lighting, shall be permitted to ensure the safety and enjoyment of the intended public use. All public lighting shall comply with the standards established herein and shall be turned off after hours of operation or when not in use. When practically possible, motion sensors may be used. Public outdoor lighting is exempt from lighting curfews and exempt from subsection B of this section.

H. Lighting Fixtures:

1. All exterior lighting shall comply with the acceptable lighting fixtures located in figure 2 of this subsection H. All exterior lighting fixtures shall be full cutoff fixtures with the light source fully shielded, except as exempted in this chapter.

2. The following figure and information sheets shall be incorporated into this chapter as guidelines for the public and the City for use in meeting the intent of this chapter. The figure and information sheets only serve as examples. The City does not endorse or discriminate against any manufacturer or company that may be shown, portrayed or mentioned by the examples. Additional information is provided at the Ketchum Planning Department.

FIGURE 2
LIGHTING FIXTURE GUIDELINES
Examples of Acceptable / Unacceptable Lighting Fixtures

Unacceptable / Discouraged
Fixtures that produce glare and light trespass

- Unshielded Floodlights
- Poorly-shielded Floodlights
- Unshielded Wallpacks & Unshielded or Poorly-shielded Wall Mount Fixtures
- Drop-Lens & Sag-Lens Fixtures w/ exposed bulb / refractor lens
- Unshielded Bollards
- Unshielded Streetlight
- Unshielded Barn Light
- Louvered ‘Marine’ style Fixtures
- Unshielded PAR Floodlights

Acceptable
Fixtures that shield the light source to minimize glare and light trespass and to facilitate better vision at night

- Full Cutoff Fixtures
- Fully Shielded Wallpack & Wall Mount Fixtures
- Fully Shielded Fixtures
- Full Cutoff Streetlight
- Fully Shielded Barn Light
- Fully Shielded Walkway Bollards
- Fully Shielded Decorative Fixtures
- Fully Shielded Period Style Fixtures
- Fully Shielded Under Canopy Fixtures
- Flush Mounted or Side Shielded Under Canopy Fixtures

Illustrations by Bob Crelin 2005. Rendered for the Town of Southampton, NY. Used with permission.
I. Lighting Fixture Exceptions And Additional Requirements:

<table>
<thead>
<tr>
<th>Type Of Lighting</th>
<th>Full Cutoff Light Fixture</th>
<th>Light Trespass Standards</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canopy lighting</td>
<td>Required</td>
<td>Not exempt</td>
<td>All canopy lighting shall be recessed sufficiently so as to ensure that no light source is visible from or causes glare on public rights-of-way or adjacent property.</td>
</tr>
<tr>
<td>Flagpole lighting</td>
<td>Not required</td>
<td>Exempt</td>
<td>Upward flagpole lighting is permitted for governmental flags only. The maximum lumen output shall be 1,300 lumens. Flags are encouraged to be taken down at sunset to avoid the need for lighting.</td>
</tr>
<tr>
<td>Floodlights</td>
<td>Not required</td>
<td>Not exempt</td>
<td>Floodlights with external shielding shall be angled provided that no light escapes above a 25-degree angle measured from the vertical line from the center of the light extended to the ground. Floodlights shall not cause glare or light to shine directly on adjacent property or public rights-of-way. Shall be encouraged to be motion sensor activated.</td>
</tr>
<tr>
<td>Highway 75 lighting</td>
<td>Required</td>
<td>Exempt</td>
<td>Correlated color temperature 2700 Kelvin.</td>
</tr>
<tr>
<td>Holiday lights</td>
<td>Not required</td>
<td>Exempt</td>
<td>Shall only be displayed from November 20th to March 20th. Exempt from color temperature requirements set forth in this chapter. All new holiday lighting shall be LED lighting, or bulb that has been demonstrated to be the most energy efficient technology available. Flashing holiday lighting is permitted. All private holiday lighting shall be turned off at</td>
</tr>
</tbody>
</table>
the close of business hours in the Community Core Zoning District, and after 10:30 P.M. in all other zoning districts. Outdoor public lighting shall not be subject to holiday lighting curfew.

<table>
<thead>
<tr>
<th>neon lights</th>
<th>not required</th>
<th>not exempt</th>
<th>neon lights are only permitted pursuant to chapter 17.127 of this title.</th>
</tr>
</thead>
<tbody>
<tr>
<td>sensor activated lighting</td>
<td>required</td>
<td>exempt</td>
<td>shall be located so as to prevent lighting into adjacent properties or into a public right-of-way.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lighting shall activate only when motion on the property is detected and shall deactivate within no more than 5 minutes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lighting shall not be triggered by any activity off the property or in the public right-of-way.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The maximum lumen output shall be 600 lumens.</td>
</tr>
<tr>
<td>temporary emergency lighting</td>
<td>not required</td>
<td>exempt</td>
<td>utilized by public safety services. exempt from provisions of this chapter.</td>
</tr>
<tr>
<td>temporary lighting</td>
<td>required</td>
<td>exempt</td>
<td>lumens output shall be approved by the administrator.</td>
</tr>
</tbody>
</table>

J. Additional Development Restrictions:

<table>
<thead>
<tr>
<th>Development</th>
<th>Full Cutoff Light Fixture</th>
<th>Light Trespass Standards</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>motor vehicle fueling stations and motor vehicle service stations</td>
<td>required</td>
<td>not exempt</td>
<td>the average foot-candle lighting level at the pump for new and existing service stations is required to be no greater than 30 foot-candle average, as set by the IESNA for urban service stations.</td>
</tr>
<tr>
<td>towers for radio communication and navigation</td>
<td>not required</td>
<td>not exempt</td>
<td>all radio, communication and navigation towers that require lights shall have dual lighting capabilities. For daytime, the white strobe light may be used, and for nighttime, only red lights shall be used.</td>
</tr>
</tbody>
</table>
17.132.040: PROHIBITED LIGHTING:

A. Any light source that does not meet the requirements of this chapter.

B. Searchlights, beacons, laser source, and other high-intensity light fixtures.

C. Except as otherwise allowed by this title, any lighting that is flashing, blinking, rotating, chasing, or rapidly changing in color or intensity is prohibited. (Ord. 1171, 2017)

17.132.050: NOTIFICATION:

A. The City Building and Planning Department permits shall include a statement asking whether the subject property of the proposed work includes any exterior lighting. (Ord. 1171, 2017)

17.132.060: THE CITY'S ROLE:

A. The City will commit to changing all lighting within the City rights-of-way and on City owned property to meet the requirements of this chapter when luminaires expire. (Ord. 1171, 2017)