

Chapter 19

OUTDOOR LIGHTING ORDINANCE

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10-19-1: **PURPOSE:** This Chapter requires specific types of light fixtures and lighting levels for commercial, public, and residential lights in Victor. The purpose is to provide for the health, safety and general welfare of the residents of Victor by providing even, adequate lighting for safety and security that is not excessive, does not interfere with vision because of glare, is even to avoid excessive visual adjustment to varying light levels, permits the viewing of the night sky, and is not obtrusive to homes and public places.

10-19-2: **PROOF OF COMPLIANCE:** Commercial building plans, conditional use permits, and subdivision applications shall provide information to show compliance with this Chapter.

- A. Projects with limited lighting may provide the proposed location, height, and orientation of lighting fixtures, fixture details, supports, shielding, and lamp specifications.
- B. For major projects, the Planning and Zoning Administrator may require any or all of the following:
 - 1. Manufacturer's photometric data: plots of luminance, product specifications or access to IES-formatted electronic data files for the installation.

2. Photometric Layout showing luminaires and initial and maintained horizontal and vertical luminance within the site and to 20 feet beyond the property boundary, maxima, minima, and uniformity ratios on a grid no greater than 10x10 feet.

C. Deviations from requirements of this Chapter may be granted upon prior approval of the Planning and Zoning Commission on the basis of project size or the nature of the lighting. The applicant must demonstrate each of the following:

1. The proposed deviation is justified by unusual circumstances and appropriate to the location of the lighting and the surrounding neighborhood;

2. The proposed deviation will not unreasonably diminish the health, safety, or welfare of the surrounding neighborhood uses; and

3. The proposed deviation substantially conforms to these exterior lighting regulations. The Planning and Zoning Commission may approve, deny, or approve with conditions any such application submitted under this subchapter.

10-19-3: **GENERAL REQUIREMENTS:** All exterior lighting not exempted by E shall meet the following requirements:

A. Exterior Lighting. Exterior lighting shall use fully shielded fixtures.

B. Exterior lighting shall be designed and installed so as to prevent light trespass.

10-19-4: **EXCEPTIONS:** This article does not apply to the following applications, except as provided in this subchapter:

A. Residential fixtures in Residential Districts and Transitional Business Districts shall conform to the provisions of Section 7. of this Chapter

B. Holiday lighting.

C. Emergency Lighting: All temporary emergency lighting needed by the fire and police departments, or other emergency services.

D. Lighting of Towers: Lighting of radio, communication and navigation towers; provided the owner or occupant demonstrates that the federal aviation administration (FAA) regulations can only be met through the use of lighting that does not comply with this article.

E. Playing Field Luminaires' height: Luminaires used for playing fields and courts shall be exempt from the height restrictions of this article

provided all other provisions of this article are met and the light is used only while the field or court is in use.

- F. Lighting for Flags: Lighting for flags provided:
1. The flag is a United States of America or State of Idaho official flag.
 2. The light is shielded to prevent glare.
 3. The maximum lumen output is one thousand three hundred (1,300) lumens.
 4. Down lighting of flags is recommended.

10-19-5: **PROHIBITIONS:** The following applications are prohibited, unless they are exempted by section 4 of this chapter.

- A. Flashing, blinking, intermittent lights or other lights that move or give the impression of movement are prohibited.
- B. Searchlights, high intensity floodlights, laser source lights, illusion lights, or any similar high intensity light are prohibited.

10-19-6: **PUBLIC AND COMMERCIAL LIGHTS:**

- A. Parking area and other freestanding luminaires: The height of parking area luminaires shall not exceed twenty feet (20'). Parking area lights are encouraged to be greater in number, lower in height and lower in lumens, as opposed to fewer in number, higher in height and higher in lumens. Parking lot lighting shall not exceed a maximum initial horizontal luminance of 4.0 foot-candles.
- B. Canopy Lights, service station lighting, and outdoor retail areas: All luminaires mounted on or within the lower surface of a canopy shall be recessed or fully shielded in-and-of themselves, with flat glass or plastic lenses. Shielding provided by the surrounding canopy structure or the edge of the canopy is not sufficient to meet this standard. The luminance level shall not exceed the levels of this Chapter.
- C. Sign lighting:
1. Externally lit signs shall be illuminated only with steady, stationary, shielded light sources directed solely onto the sign from above without causing glare. Lamps used for illuminating a sign shall be simple in form and should not clutter the building or structure. All light sources should shine only down.

2. Lights which flash or move in any manner, colored lights, and exterior neon signs are prohibited.

3. Internally lit signs shall have a dark or opaque background.

D. Streetlight Performance

Streetlights shall be limited to 70 watts with a maximum rated lamp lumen of six thousand four hundred (6,400). Streetlights shall have light distributions or "house side shields" that limit lighting of residences, and shall be between 12 and 20 feet in height. Streetlights are discouraged in areas that are naturally dark. Any new placement or replacement of street lighting shall be approved by the public works department.

10-19-7: **RESIDENTIAL LIGHTS:** This section shall apply to residential districts and Transitional Business Districts.

A. Exterior lighting on residences brighter than a 60 watt incandescent light shall be shielded so that no light is projected above the horizontal, and the lamp shall be diffused or shielded so that it can not be seen from public areas or roadways or any other property.

B. Floodlights: Floodlights are discouraged. Floodlights on residences with external shielding shall be permitted provided that they are angled so that the centerline of the light beam is directed below a thirty degree (30°) angle measured from the vertical line from the center of the light extended to the ground, and only if the fixture does not cause glare or light to shine on adjacent property or public rights of way. Motion detector lights are encouraged, but they shall meet the requirements for floodlights.

10-19-8: **OPERATION OF LIGHTING:** Nonessential Lighting: All nonessential exterior commercial and recreational lighting shall be turned off after business hours and/or when not in use. Lights on a timer are encouraged. Sensor activated lights that shut off 5 minutes after activation ceases are encouraged if lights are needed for security purposes.

10-19-9: **EXISTING LIGHTING:** All existing exterior lighting installed before the effective date of this article shall be brought into conformance with this chapter within the following time periods:

A. All existing exterior lighting located on a subject property that is part of an application for design review approval, a conditional use permit, subdivision approval, or a building permit is required to be brought into conformance with this article before 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.

- B. All other existing exterior lighting on property used for residential, commercial, institutional, or any other public and semipublic uses that is not in conformance with this article shall be brought into conformance with this article within five (5) years from the date of adoption of this article. (06-0222-7, Ord. 02-22-06)

10-19-10: Tables:

TABLE 19 A: Typical initial lamp-output ratings, in lumens.

Lamp Type	Lamp Wattage	Initial Lumen Output
Incandescent lamp (frosted) (Syl.)	25	235
Incandescent lamp (frosted) (Syl.)	40	375
Incandescent lamp (frosted) (Syl.)	60	890
Incandescent lamp (frosted) (Syl.)	100	1,690
Incandescent lamp (frosted) (Syl.)	150	2,850
Incandescent flood or spot (G.E.)	75	765
Incandescent flood or spot (G.E.)	120	1,500
Incandescent flood or spot (G.E.)	150	2,000
Quartz halogen lamp (frosted) (Syl.)	42	665
Quartz halogen lamp (frosted) (Syl.)	52	885
Quartz halogen lamp (frosted) (Syl.)	72	1,300

Lamp Type	Lamp Wattage	Initial Lumen Output
Quartz halogen lamp (frosted) (Syl.)	300	6,000
Quartz halogen lamp (frosted) (Syl.)	500	10,500
Quartz halogen lamp (frosted) (Syl.)	1,000	21,000
Quartz halogen flood or spot (G.E.)	20	260
Quartz halogen flood or spot (G.E.)	42	630
Quartz halogen flood or spot (G.E.)	50	895
Quartz halogen flood or spot (G.E.) (all 12-volt MR-16 type)	75	1,300
Fluorescent lamp (Phillips)	7	400
Fluorescent lamp (Phillips)	9	600
Fluorescent lamp (Phillips)	13	900
Fluorescent lamp (Phillips)	22	1,200
Fluorescent lamp (Phillips)	28	1,600

TABLE 19 A: cont Typical initial lamp-output ratings, in lumens.

Fluorescent lamp (Phillips)	40	3,150
High pressure sodium lamp (diffuse) (G.E.)	35	2,250
High pressure sodium lamp (diffuse) (G.E.)	50	4,000
High pressure sodium lamp (diffuse) (G.E.)	70	6,400
High pressure sodium lamp (diffuse) (G.E.)	100	9,500
High pressure sodium lamp (diffuse) (G.E.)	150	16,000
Lamp Type	Lamp Wattage	Initial Lumen Output
High pressure sodium lamp (diffuse) (G.E.)	250	27,500
High pressure sodium lamp (diffuse) (G.E.)	400	50,000
Mercury vapor lamp (white deluxe) (Syl.)	100	4,500
Mercury vapor lamp (white deluxe) (Syl.)	175	8,500
Mercury vapor lamp (white deluxe) (Syl.)	250	11,100
Mercury vapor lamp (white deluxe) (Syl.)	400	20,100
Metal halide lamp (coated) (G.E.)	32	2,500
Metal halide lamp (coated) (Venture)	50	3,400
Metal halide lamp (coated) (G.E.)	100	9,000
Metal halide lamp (coated) (G.E.)	175	15,750
Metal halide lamp (coated) (G.E.)	250	20,500
Metal halide lamp (coated) (G.E.)	400	36,000

Information from Sylvania #PL-150, General Electric #9200, and Phillips #SG-100 large lamp catalogs.

TABLE 19 B:

Maximum Initial Luminance Levels for Service Stations and Outdoor Retail Areas		
Area description	Maximum Luminance (foot-candles)	
Approach		4.0
Driveway	4.0	
Pump Island or Merchandise Area	20	
Building Facades	5	
Services Area	5	

Reference: Based on Dark Areas portion of Table 8, IESNA RP-33-99 Service Station or Gas Pump Area Average Luminance Levels, with adjustments to maximum initial values.