

**Section 1. Purpose and Intent.**

It is the purpose of this Code to define practical and effective measures by which the obtrusive aspects of outdoor light usage can be minimized, while preserving safety, security, and the nighttime use and enjoyment of property. These measures are intended to curtail **light trespass**, glare, energy and resource waste, and to preserve the dark skies relied upon by Arizona’s world-class astronomical facilities by encouraging lighting practices that direct the appropriate amount of light where and when it is needed, managing spectral characteristics to minimize spectrum coverage and sky glow while maximizing visual effectiveness, and decreasing wasted light from overlighting and poorly shielded or inappropriately directed lighting fixtures.

It is further recognized that naturally dark landscapes and star-filled skies are valued by many and that poor practices in outdoor lighting hamper the reasonable use and enjoyment of property and can endanger the public welfare by producing unnecessary glare.

**Section 2. Conformance with Applicable Codes.**

All **outdoor lighting fixtures** shall be **installed** in conformance with the provisions of this Code, the Building Code, the Electrical Code, the Sign Code and all other applicable laws and regulations of the jurisdiction.

**Section 3. Establishment of Lighting and Astronomical Resource Zones**

3.1. Establishment of Lighting Zones. Three Lighting Zones (LZ) are established, with varying development standards specific to their location within [jurisdiction]. The Lighting Zones are shown in the Lighting Zone Map, and generally defined as follows:

- A. LZ1 – rural areas
- B. LZ2 – suburban areas
- C. LZ3 – urban areas

3.2. Establishment of Astronomical Resource Zones. Critical and buffer Astronomical Resource Zones (ARZ) are established as shown on the Lighting Zone Map and generally defined as follows:

Name	Center Location (degrees)		ARZ radius (miles)	
	Latitude	Longitude	critical	buffer
Kitt Peak ARZ	31.9640	-111.6000	15	35
Mount Hopkins ARZ	31.6888	-110.8851	12.5	25
Anderson Mesa ARZ	35.0970	-111.5368	2.5	7
Happy Jack ARZ	34.7443	-111.4225	2.5	7

United States Naval Observatory ARZ	35.1840	-111.7405	2.5	7
Mount Lemmon ARZ	32.4428	-110.7887	15	75
Mount Graham ARZ	32.7014	-109.8891	15	75

**Section 4. Applicability.**

- 4.1. New Uses and Major Modifications. All outdoor lighting for new uses, developments or structures, and major modifications to outdoor lighting, for which a permit or other approval is issued or given after the effective date of this Code, shall meet the requirements of this Code. Cumulative modification or replacement of outdoor lighting constituting fifty (50) percent or more of the **lumens** permitted by this Code for the parcel, regardless of the actual amount of lighting already on a non-conforming site, shall be deemed a major modification for purposes of this section.
- 4.2. Minor Additions. Alterations, additions or modifications to outdoor lighting of less than fifty (50) percent in the value or **total outdoor light output**, and that require a permit, shall require the submission of a complete inventory and site plan detailing all existing and any proposed new outdoor lighting. Any new lighting on the site shall meet the requirements of this Code with regard to shielding and lamp type; the **total outdoor light output** after the modifications are complete shall not exceed that on the site before the modification, or that permitted by this Code, whichever is larger.
- 4.3. Nonconforming **Outdoor Light Fixtures**; Nonconforming Uses. If a use, building or structure loses its nonconforming status, or if **outdoor light fixtures** are modified in excess of fifty (50) percent of their value, or **total outdoor light output**, whether all at once, or in a series of cumulative changes, then all outdoor lighting must be brought into conformance with the requirements of this Code.
- 4.4. Resumption of Use after Abandonment. If a use, building or structure is **abandoned** then all outdoor lighting shall be brought into compliance with this Code before the use is resumed.
- 4.5. Public Roadways. Lighting for public roadways shall comply with this Code.
- 4.6. Alteration of Non-conforming Use. All **light fixtures** may be maintained as provided in Section \_\_\_\_ of the Zoning Ordinance, but shall not be re-erected, relocated, modified, or replaced unless brought into compliance with this Code. Nothing in this Code shall affect existing property or the right to its continued use for the purpose used at the time the Code takes effect, nor to make any reasonable repairs to **light fixtures**, property, or uses for such legal existing purposes.