

Arkansas Law requires that all new publicly funded outdoor lighting be shielded. Shielding reduced glare and directs more light down on the ground where it's needed, often allowing lower wattage fixtures to be used. Shielded fixtures are not expensive.

The proposed lighting ordinance for Eureka Springs requires new privately installed outdoor lighting in Eureka Springs to meet glare and energy standards similar to those the City already follows for its municipal outdoor lighting.

Fixtures on the left would be prohibited.

Fixtures on the right are acceptable.



Drop/Sag Lens



Flat Lens

Night time comparison of a gas station canopy retrofitted with flat lens fixtures.



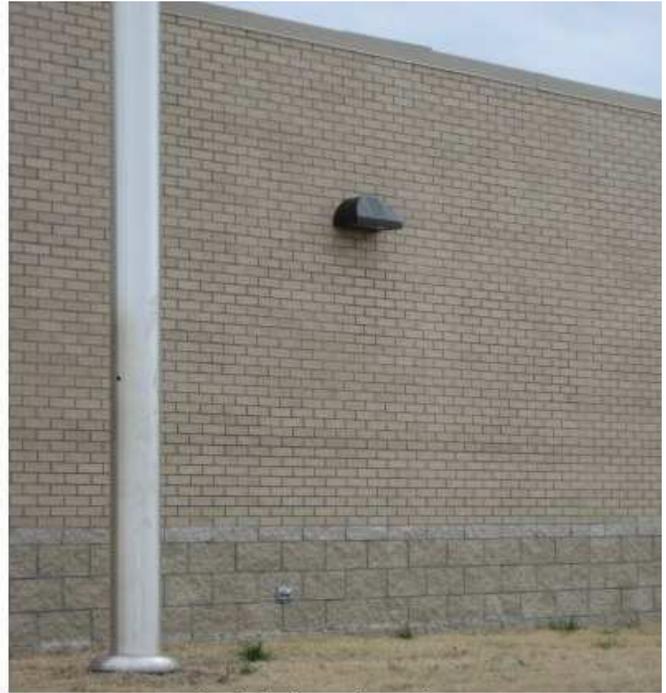
Drop Lens



Flat Lens



Unshielded Wall Pack



Shielded Wall Pack



Prohibited Installation



Acceptable Installation

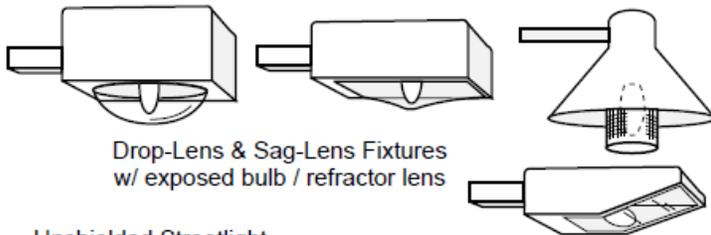
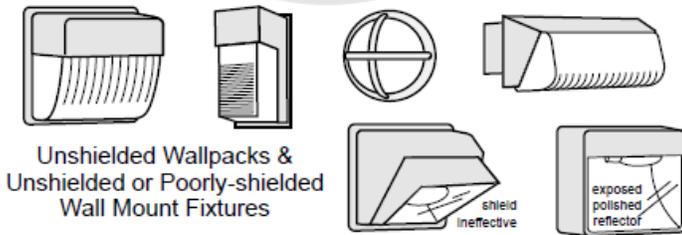
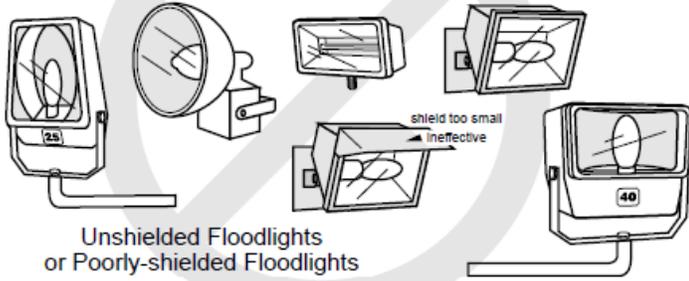
Good Fixtures



Examples of Acceptable / Unacceptable Lighting Fixtures

Unacceptable

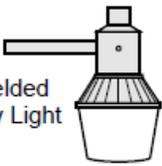
Fixtures that produce glare and light trespass



Unshielded Streetlight



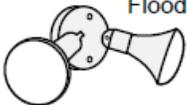
Unshielded Security Light



Unshielded 'Period' Style Fixtures



Unshielded PAR Floodlights

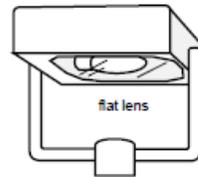


Drop-Lens Canopy Fixtures

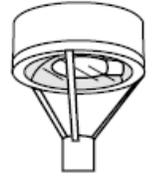


Acceptable

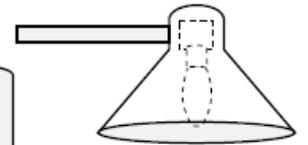
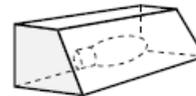
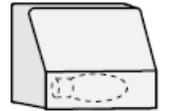
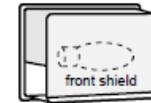
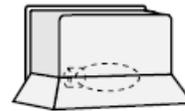
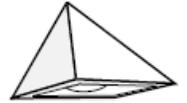
Fixtures that shield the light source to minimize glare and light trespass and to facilitate better vision at night



Full Cutoff Fixtures



Fully Shielded Wallpack & Wall Mount Fixtures

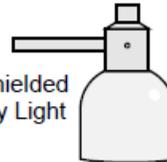


Fully Shielded Fixtures

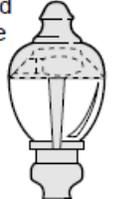
Full Cutoff Streetlight



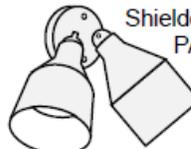
Fully Shielded Security Light



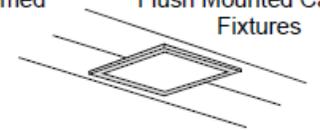
Fully Shielded 'Period' Style Fixtures
bulb shielded in opaque top



Shielded / Properly-aimed PAR Floodlights



Flush Mounted Canopy Fixtures



TYPICAL LUMEN OUTPUT

Incandescent Lamp - Standard Household Bulb

Watts	Lumens
100†	1,690
150	2,850
200	3,930
300	5,600
500	8,100

Compact Fluorescent Lamp – Warm White Light

Watts	Lumens
27†	1,950
32†	2,200
42†	2,800
68	4,200

Metal Halide Lamp - Cool Blue-White Light

Watts	Lumens
32†	2,500
50†	3,400
70	5,600
100	9,000
175	15,750
250	20,500
400	39,000
1000 [X]	86,000

High Pressure Sodium Lamp - Yellow Light

Watts	Lumens
35†	2,250
50†	4,000
70	6,400
100	9,500
150	16,000
250	27,500
400 [X]	50,000
1000 [X]	145,000

Mercury Vapor Lamp - Blue/Green Light (obsolete – new fixtures no longer available)

Watts	Lumens
100†	4,000
175	7,500
250	11,100
400	20,100
1000 [X]	58,000

† **Shielded fixture not required**

[X] Lamps exceeding 40,000 lumens are prohibited