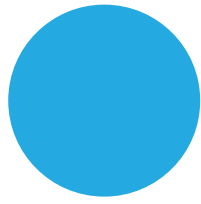
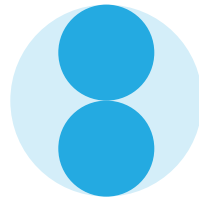


Aperture Diameter and Area Comparisons



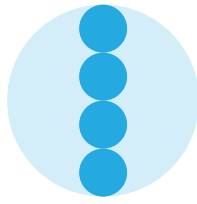
f/1.0

Diameter: 100mm
Area: 7845mm²



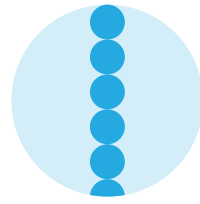
f/2.0

Diameter: 50mm
Area: 1963mm²



f/4.0

Diameter: 25mm
Area: 491mm²



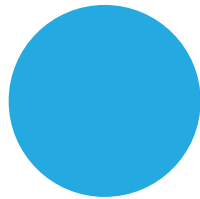
f/5.5

Diameter: 18.2mm
Area: 260mm²

f/1.0 has twice the diameter of f/2.0, four times the diameter of f/4.0, and 5½ times the diameter of f/5.5.

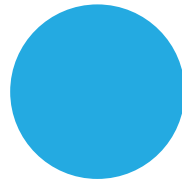
In terms of area, however those numbers are exponentially amplified.

So f/1.0 has four times the area of f/2.0, 16 times the area of f/4.0 and 30 times the area of f/5.5.



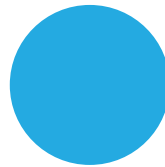
f/1.0

D: 100mm
A: 7845mm²



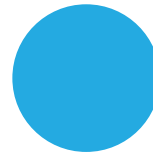
f/1.1

D: 90.9mm
A: 6491mm²



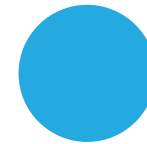
f/1.2

D: 83.3mm
A: 5454mm²



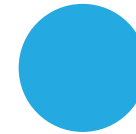
f/1.3

D: 76.9mm
A: 4647mm²



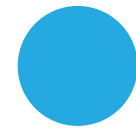
f/1.4

D: 71.4mm
A: 4007mm²



f/1.5

D: 66.7mm
A: 3491mm²



f/1.6

D: 62.5mm
A: 3068mm²



f/3.4

D: 29.4mm
A: 679mm²



f/3.6

D: 27.8mm
A: 606mm²



f/4.0

D: 25mm
A: 491mm²



f/4.7

D: 21.3mm
A: 356mm²



f/5.5

D: 18.2mm
A: 260mm²

Diameter and area calculations are based on a 100mm lens size.

(Aperture diameter is equal to the lens focal length divided by the f-stop number.)