

The moon shines because her surface reflects the light of the sun. It might seem very brilliant but in fact the moon only reflects the 3%-12% of the light that comes from the sun.

When half of the surface is illuminated it is called the full moon. The phenomenon where the full moon looks like a white disk with constant brightness, occurs when the moon is at 180 degrees from the sun (so the perspective is that the sun, the earth and the moon are in a straight line), it's in this position where the moon receives more light from the sun. This phenomenon is called moonlight.

So when the the moon is more brightness there are two factors because this happen:

- The angle between the sun and the moon is 180 degrees.
- The distance between the sun and the moon is smaller than usual. Because the intensity of the light also depends on the distance.