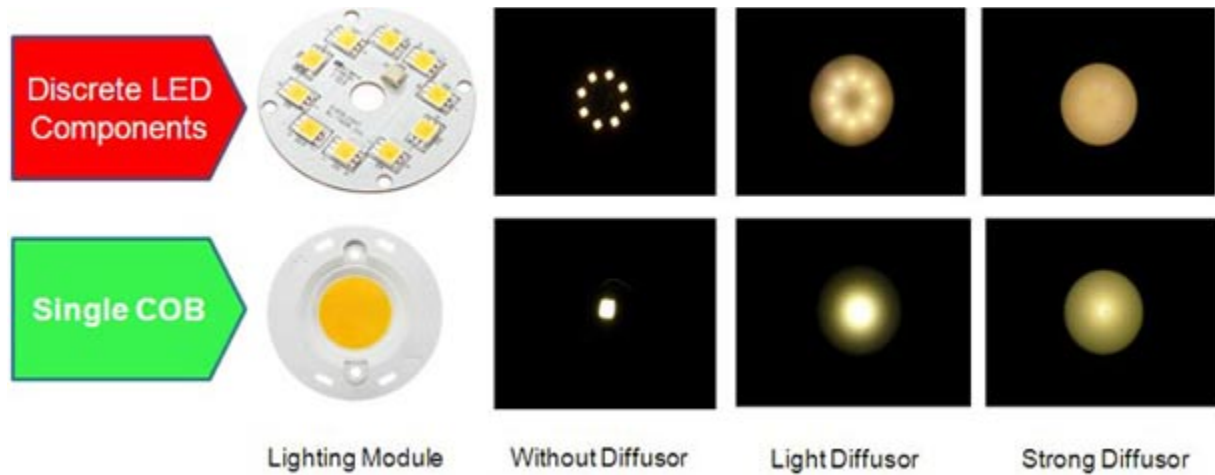


SMD LED: Surface Mount Technology

COB LED: Chip On Board





## COB



COB - the chip on board, or COB, LED.

In COB, all of the light's LEDs are concentrated in a single area, more cooling capacity is needed

The large size of the heat sink may cause the COB LED to cost a little more than an SMD LED does.

COB LED lights are higher-quality light sources. That's because they use reflectors to provide focused and controlled light

## SMD



SMD - the surface mount diode, or SMD, LED.

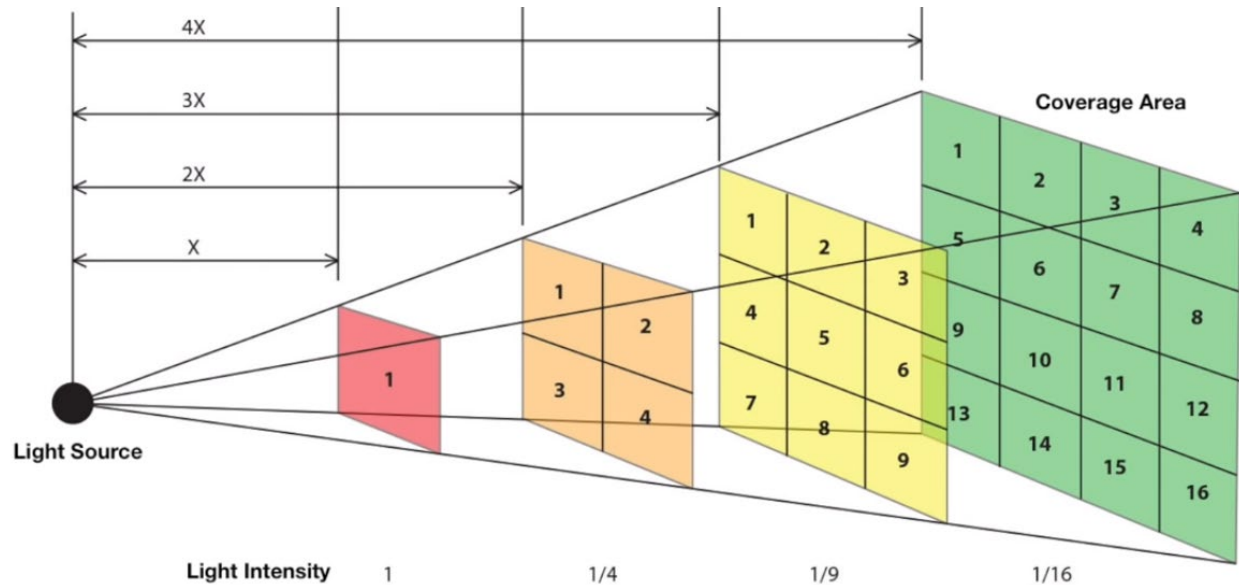
SMD LED also produces a broader light beam, which means the light doesn't need as large of a heat sink as a COB LED does.

SMD LEDs may cost less. Also, these lights feature frosted reflectors on them, which enable an even spreading of the light

SMD LED lights are a great option if you're interested in having your light flood over a large area

So it depends on where you want to place the light a work bench for example need a narrow light angle while a large room needs a wider angle lamp to illuminate the entire room evenly you can use an app called LUX meter to measure light intensity and compare different lamps.

According the Inverse Square Law:



So if you double the distance from a light source you will get a  $1/4$  of the light intensity from that light source



So with a COB lamp we can achieve more concentrated light with higher illumination