

Recessed Lights

Recessed lamps are shaped like cans and recess into any ceiling. The manufacturer guarantees that a room will be "well lit" in the 4ft radius around the center of each recessed lamp when using the standard bulb. Determine the arrangement that would guarantee the minimal amount of recessed lamps necessary to make sure that a 14x16ft room is 100% "well lit." How many lamps does that arrangement require?

