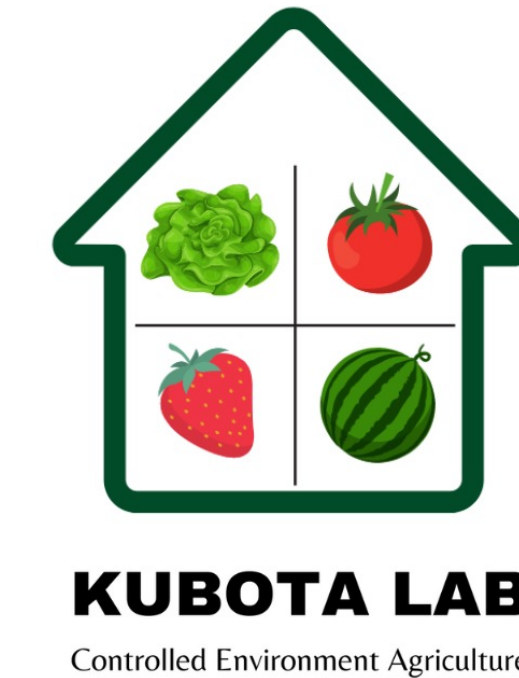
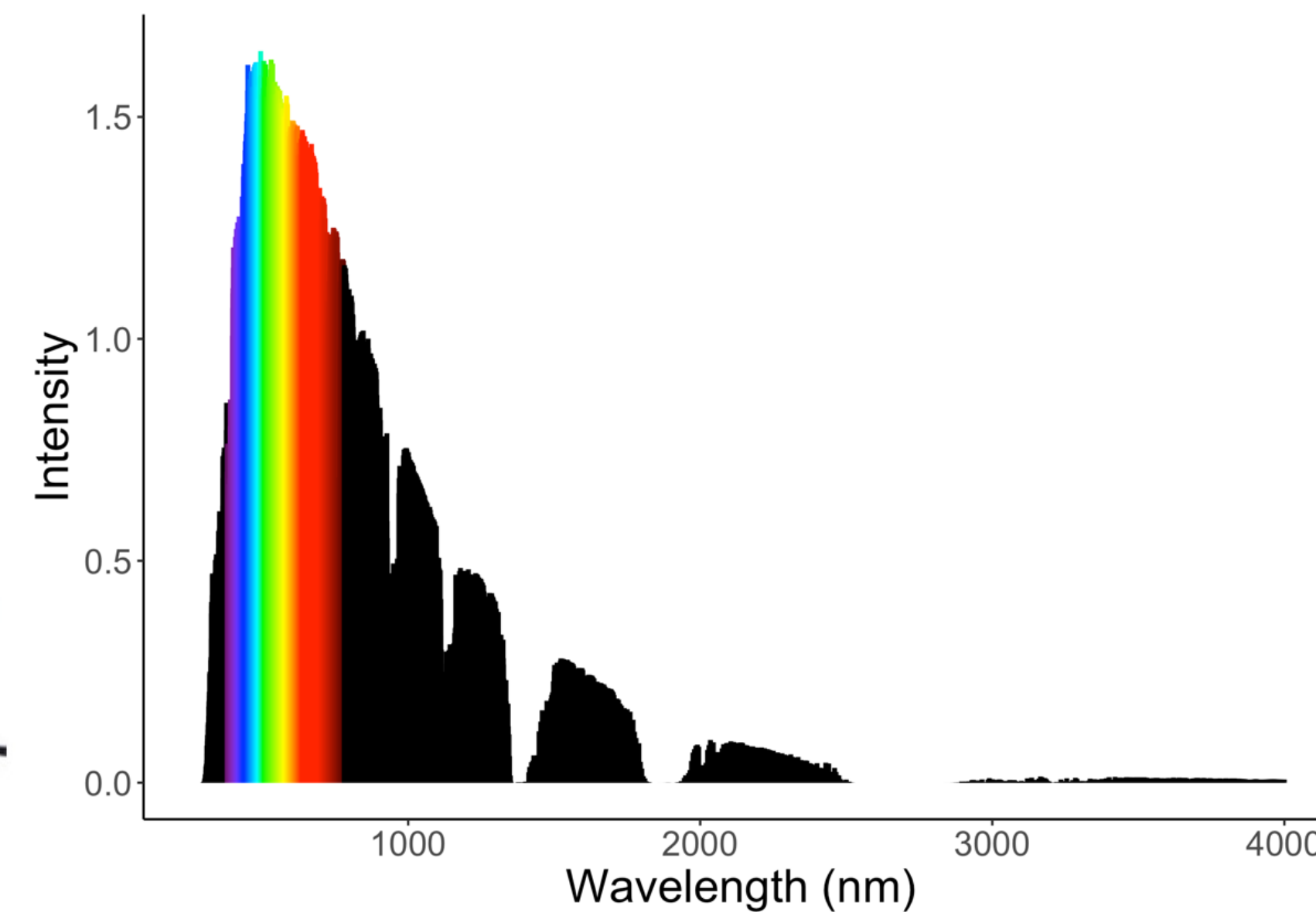


Different Colors of Light and Plants



Spectroradiometer



Color of sunlight

Scientists use a special tool called a "Spectroradiometer" to measure the color of light. They found out that different colors of light affect how plants grow. With this knowledge, they were able to figure out how to grow plants using artificial light.



Blue light
400 – 500 nm



Green light
500 – 600 nm



Red light
600 – 700 nm



Far-Red light
700 – 750 nm

- Help plants take in more CO₂
- Let them grow toward light

- Help lower leaves photosynthesize

- Fast photosynthesis
- Change shape of plants

- Stretch plants to avoid being in the shade

Growers use different colored lights to help plants grow healthy indoors, just like under the sun!

