



# Short introduction of myself

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# A plant is not much different from a human



# Growing plants “is all about balance”





# What a plant is looking at every day

Every part of a greenhouse is realizing a shadow moment



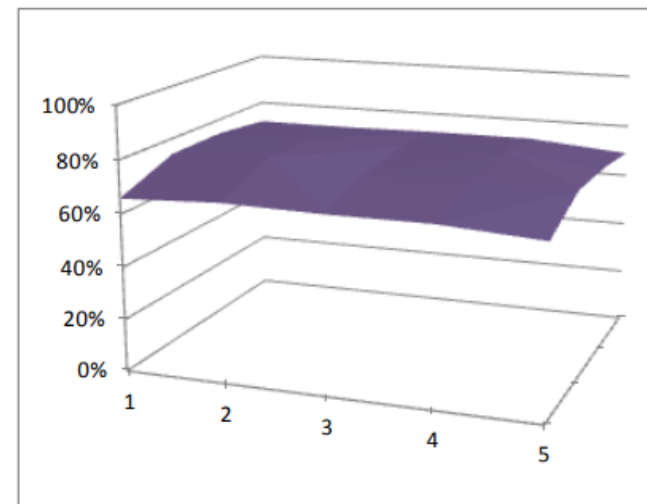
# Interval training or constant jogging?

What do you think is best for a plant?



# Thinking in solutions via coatings

Light on plants in a diffuse situation after the use of a coating

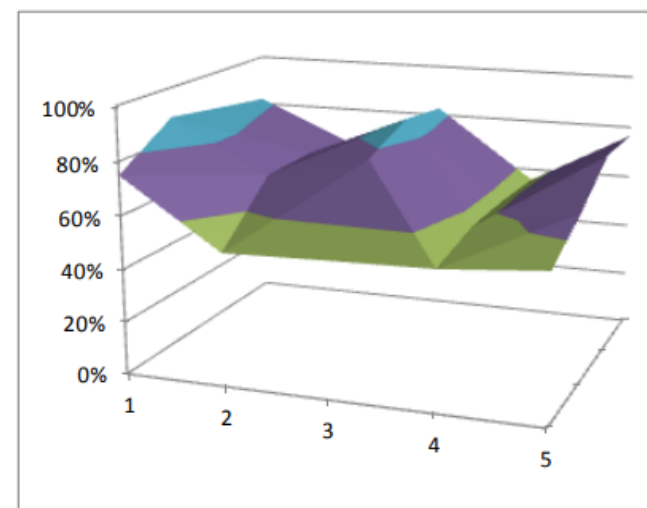


max 76%

min 64%

11%

Light on plants in a traditional situation with clear glass



max 89%

min 50%

39%



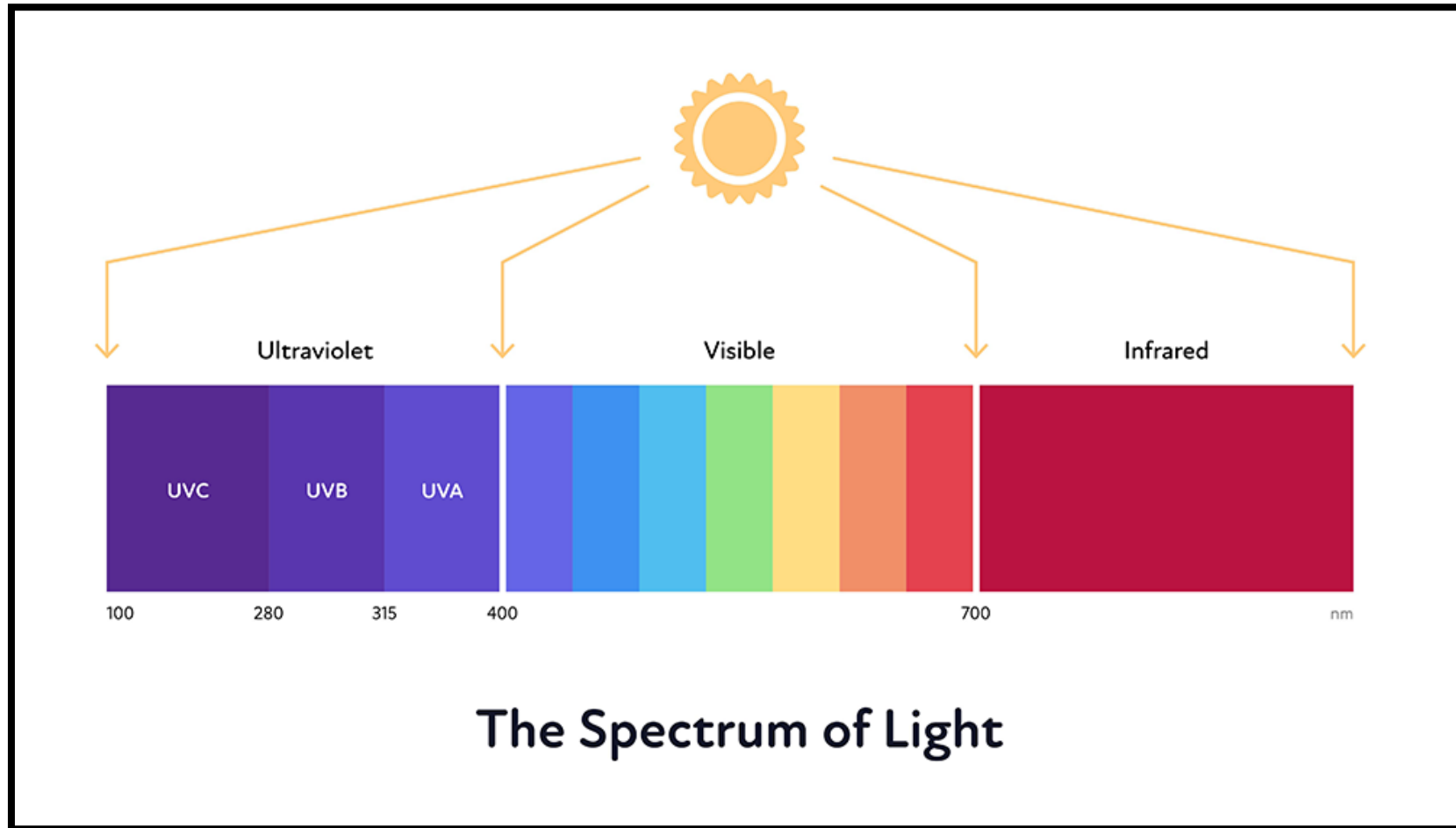
# Control via data, experience and feeling

No day is the same, the plant is reacting on changes in climate, plant load,

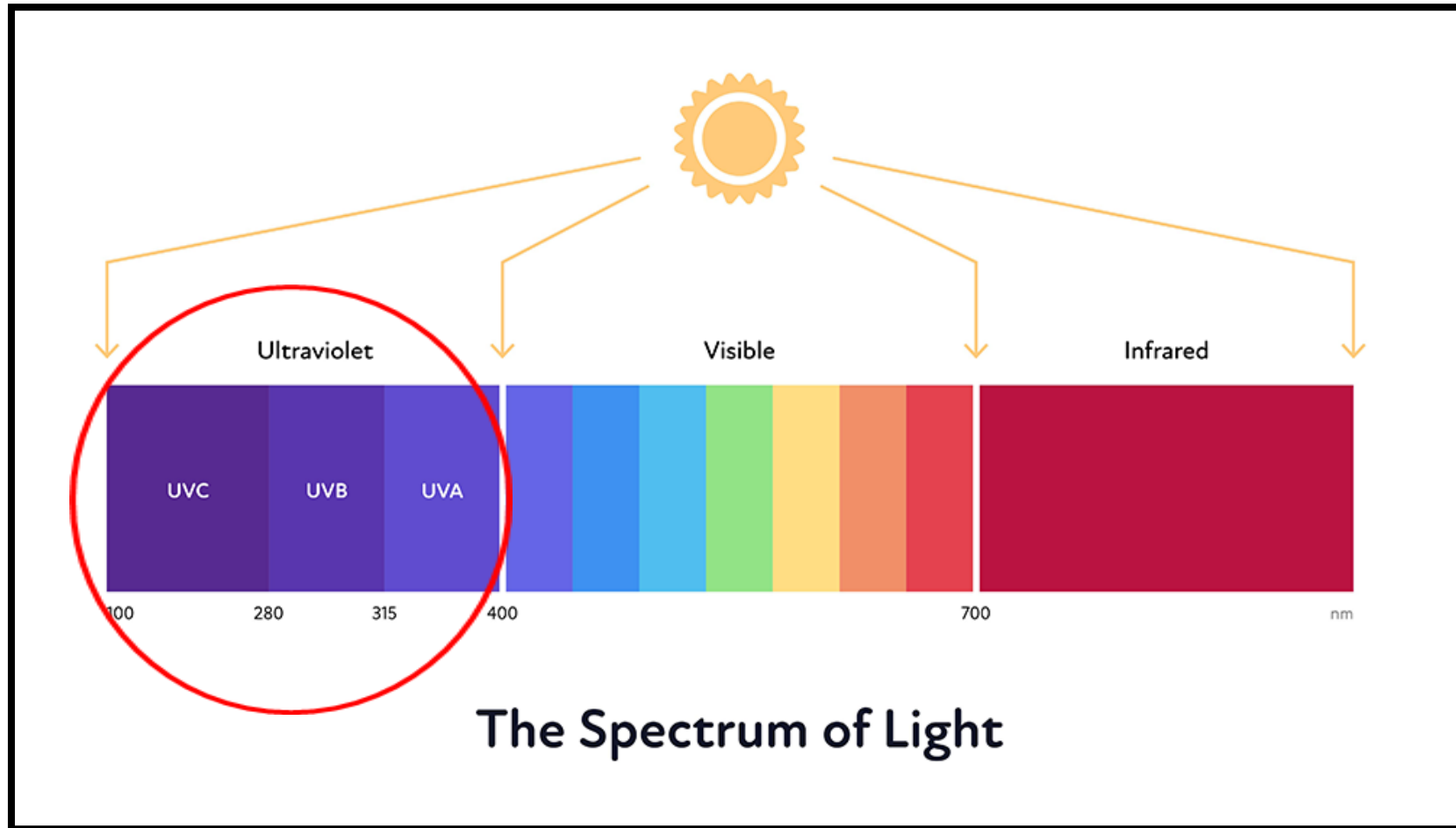




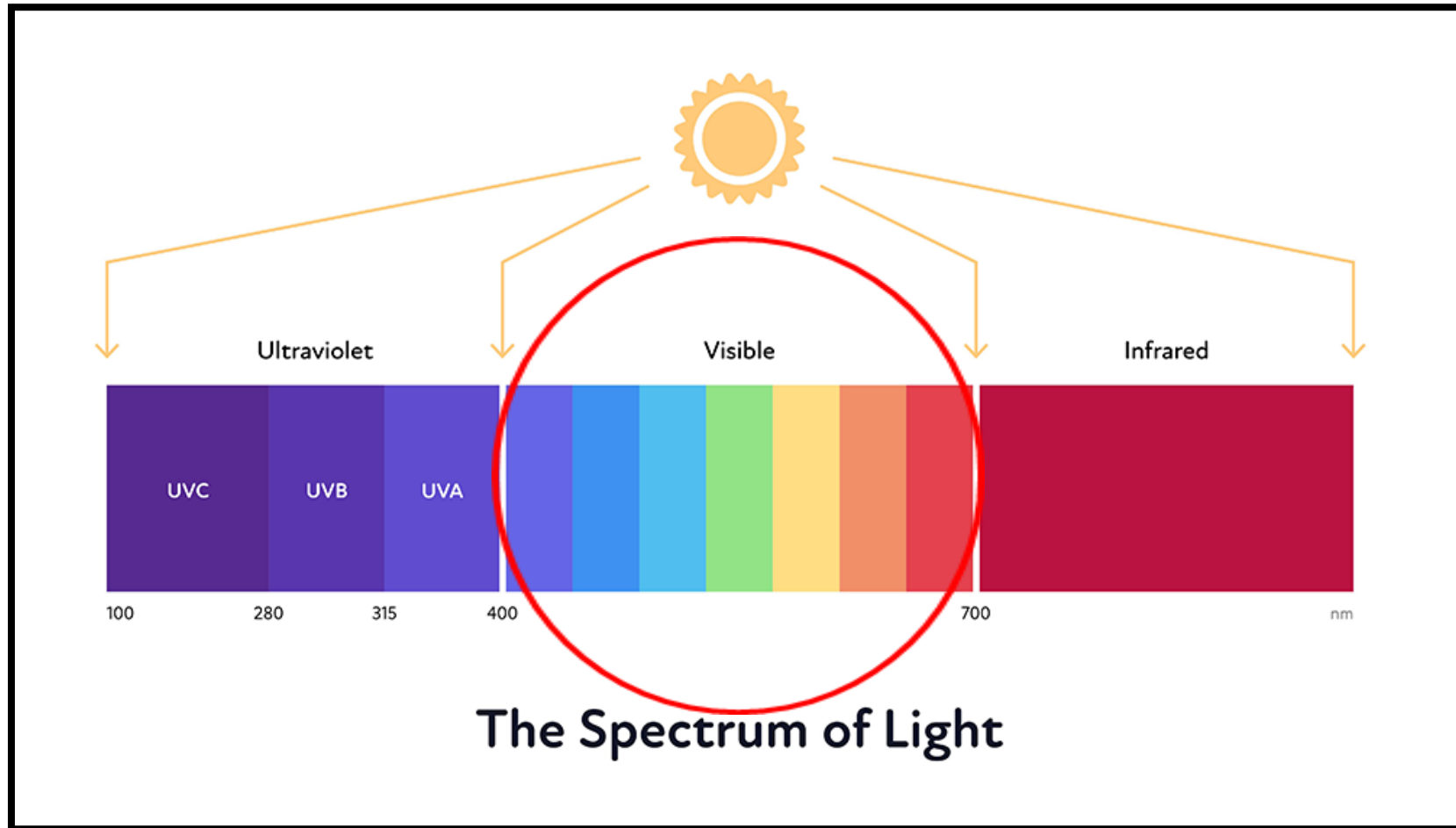
# Radiation of the sun



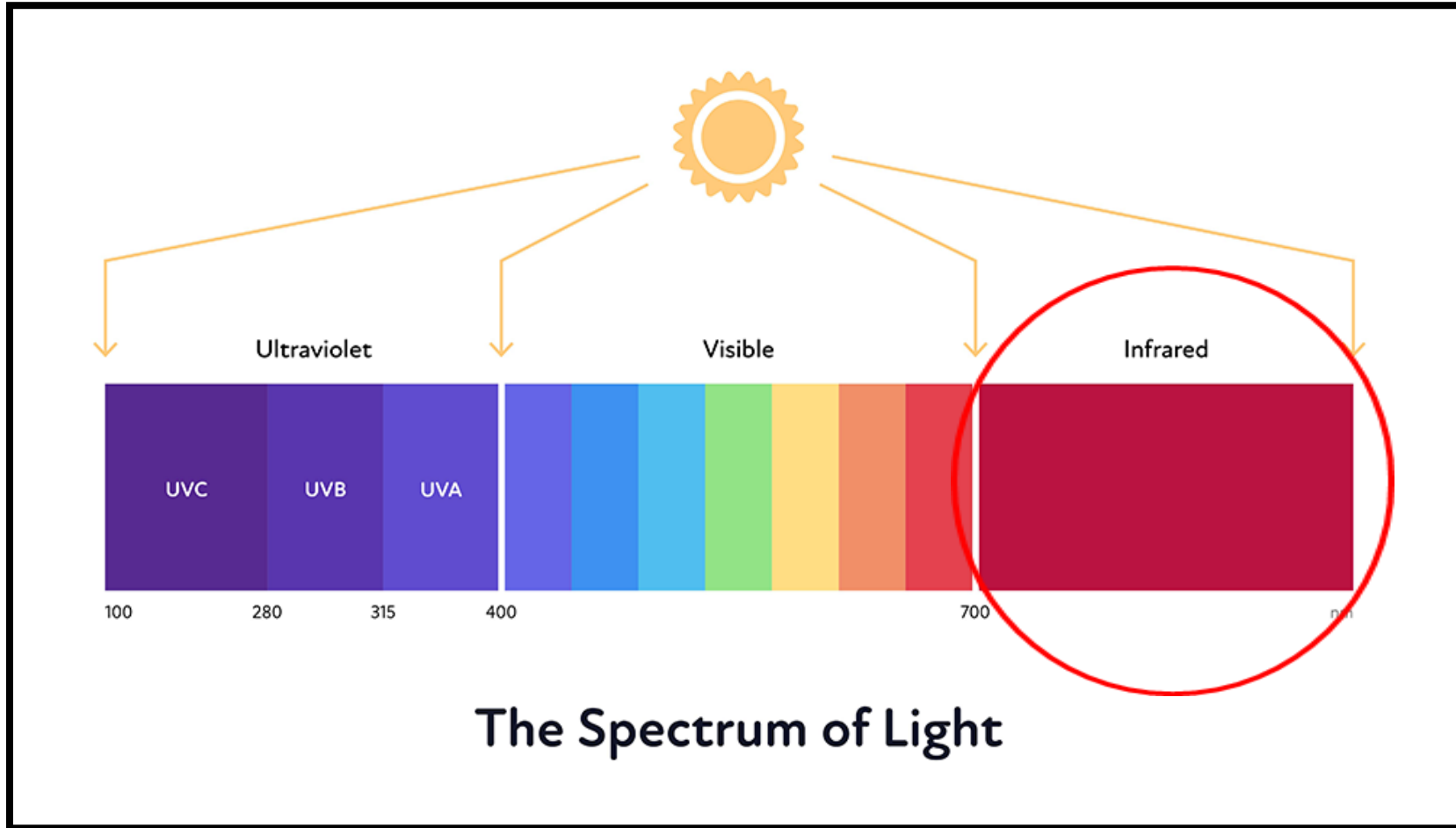
# UV-Ultraviolet light



# PAR (Photosynthetically Active Radiation)



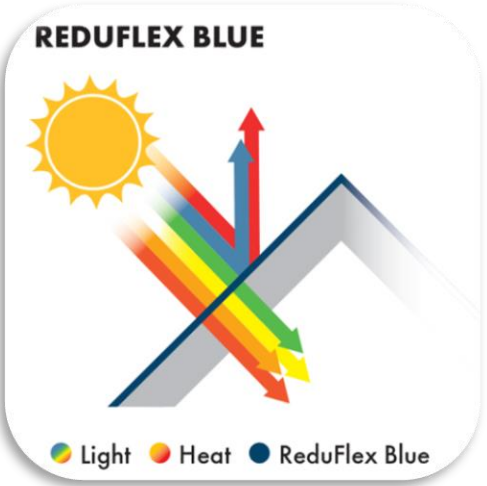
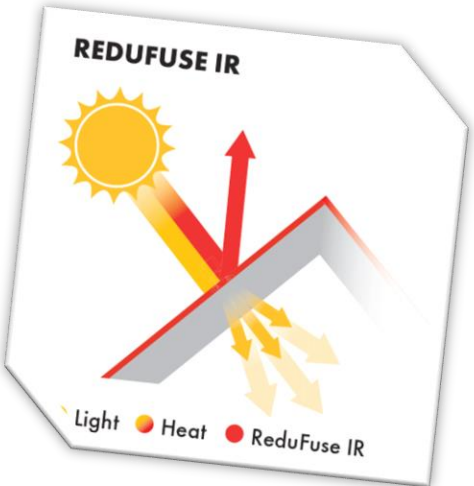
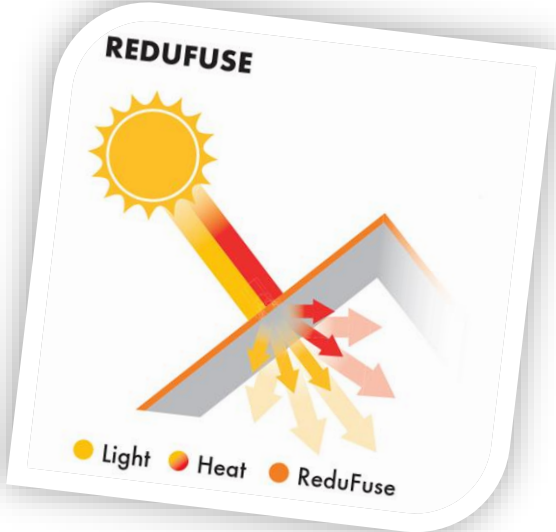
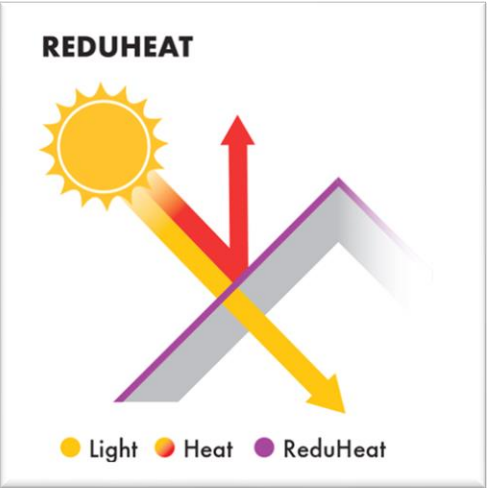
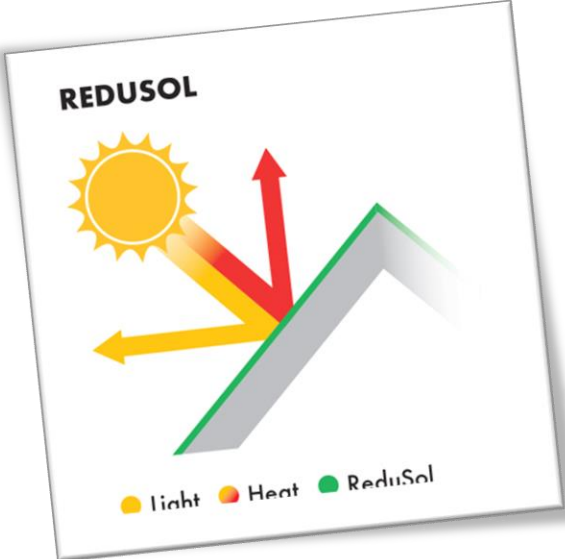
# IR (Infra Red)



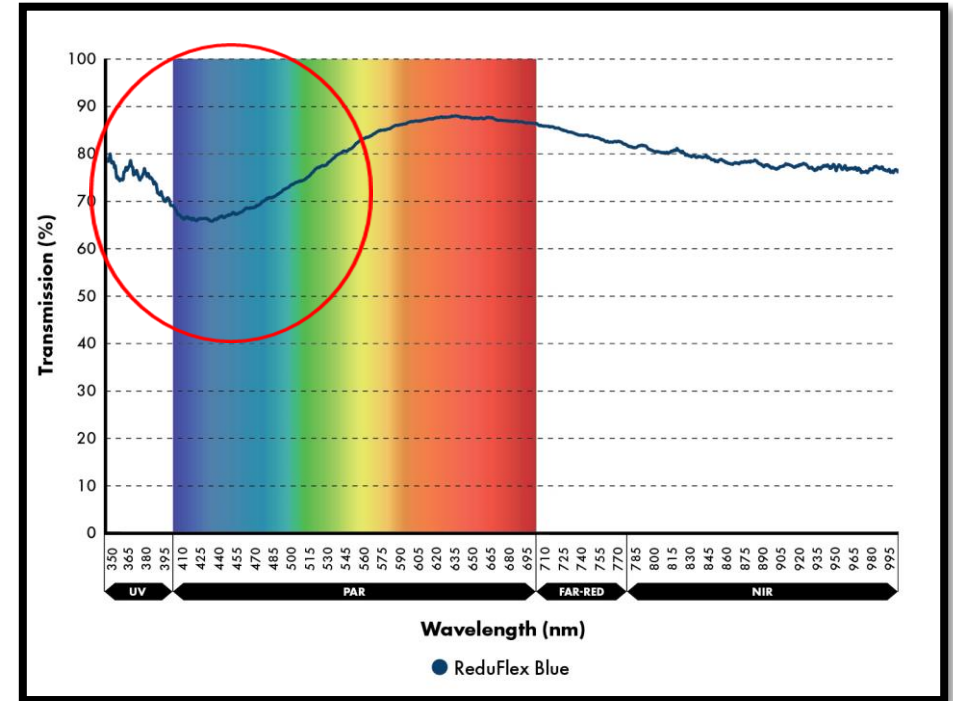
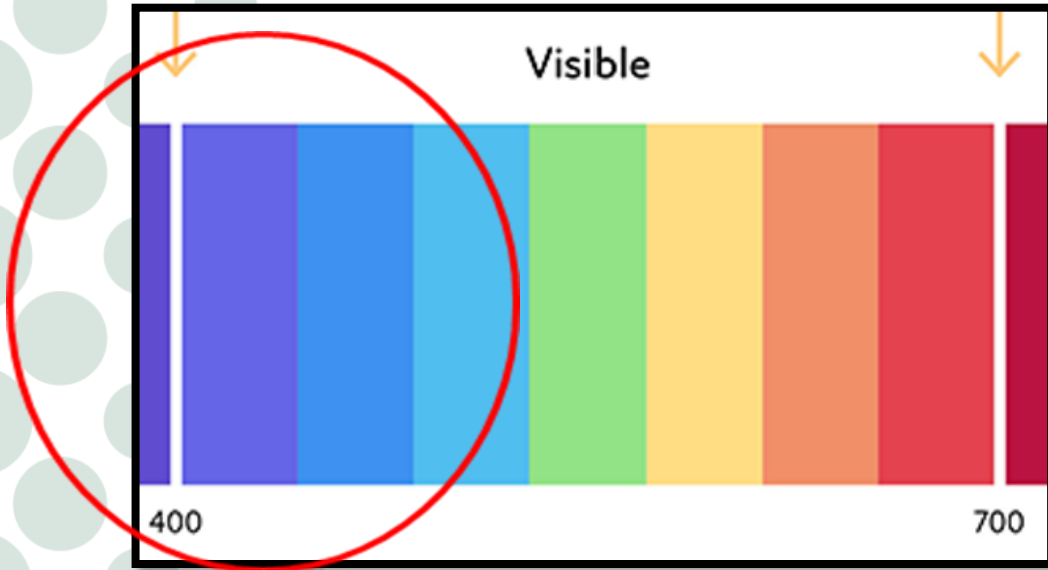
The Spectrum of Light



# Which coatings can help?

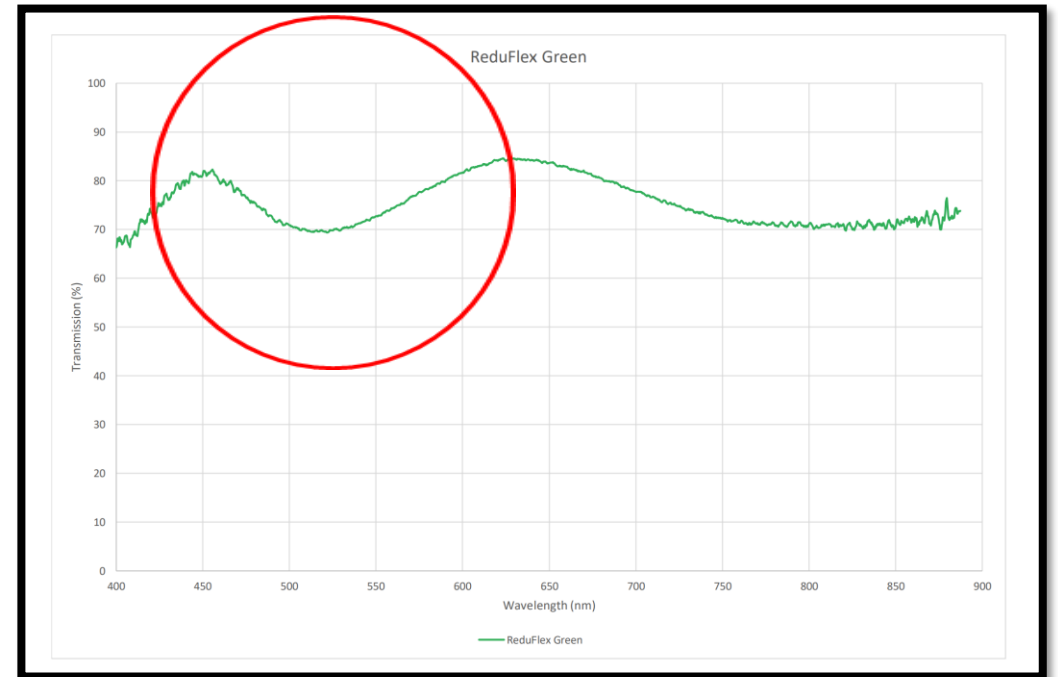
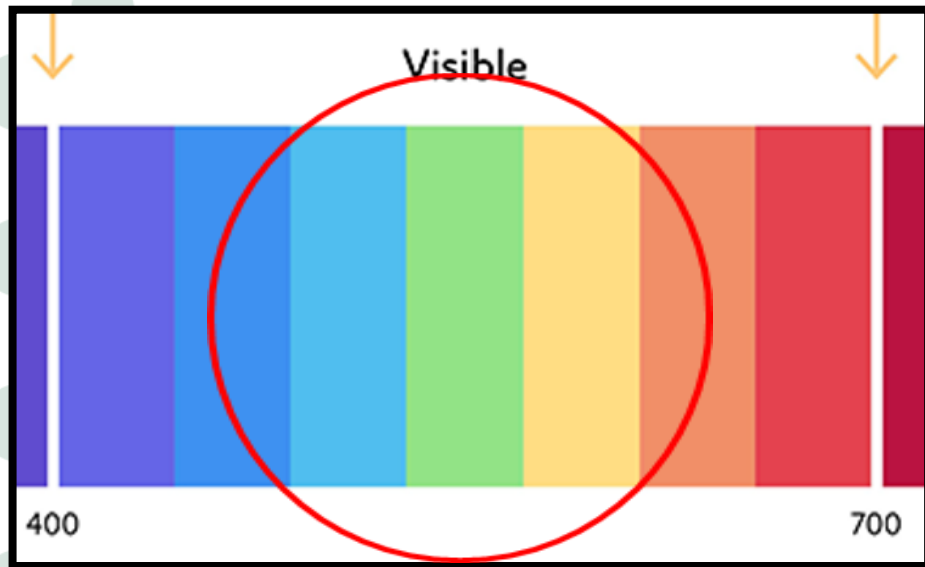


# Blue light (400-500 nm)



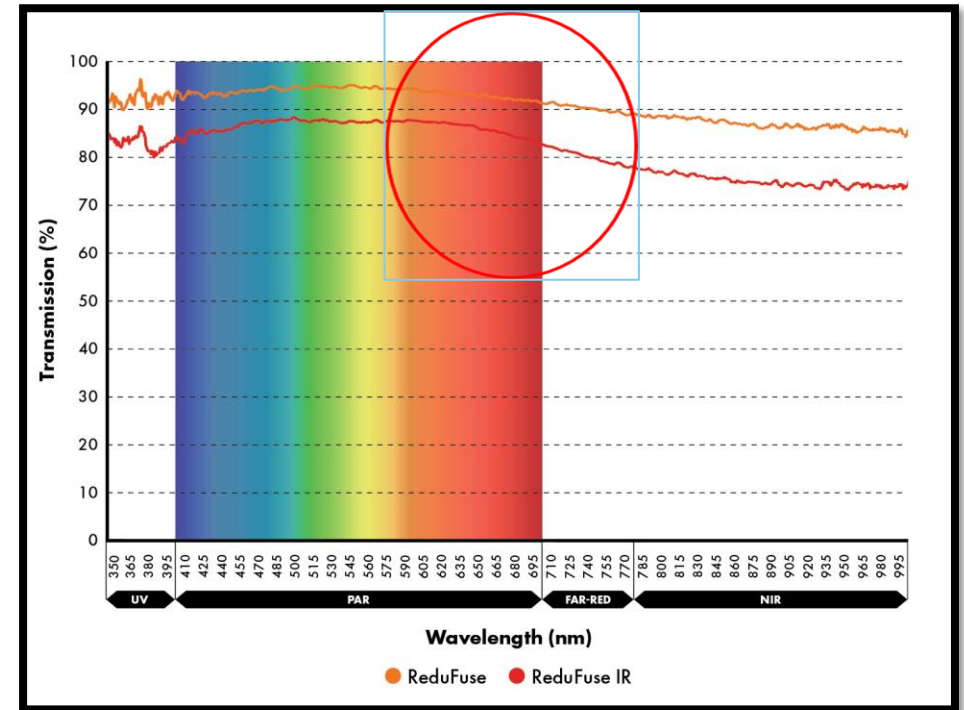
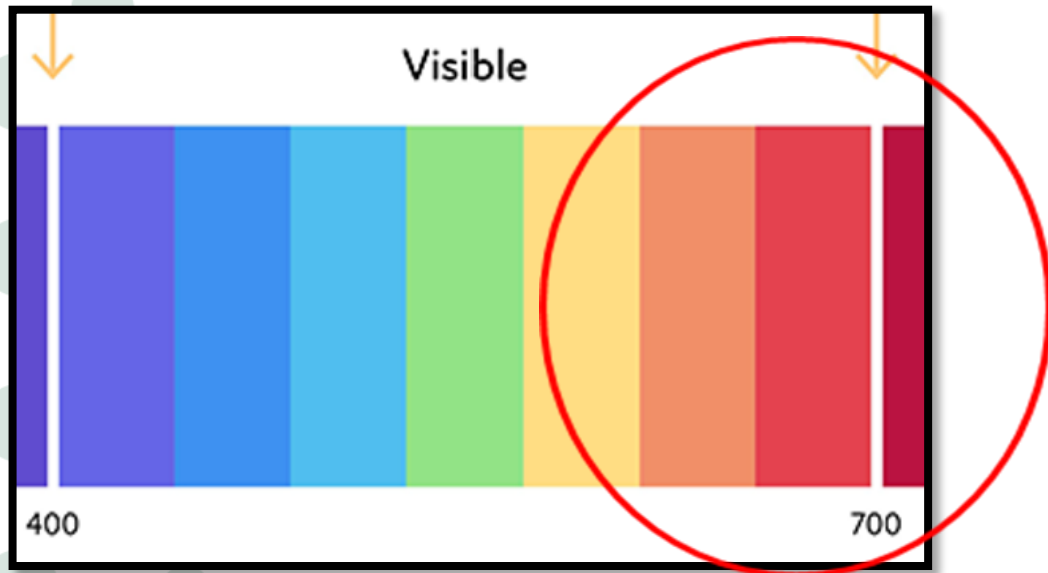
Blue light (400-500 nm) promotes the development of leaves and the formation of compact, or stretched, strong plants.

# Green light (500-600 nm)



Green light (500-600 nm) is often less efficiently absorbed by plants because much of it is reflected, which is why plants appear green.

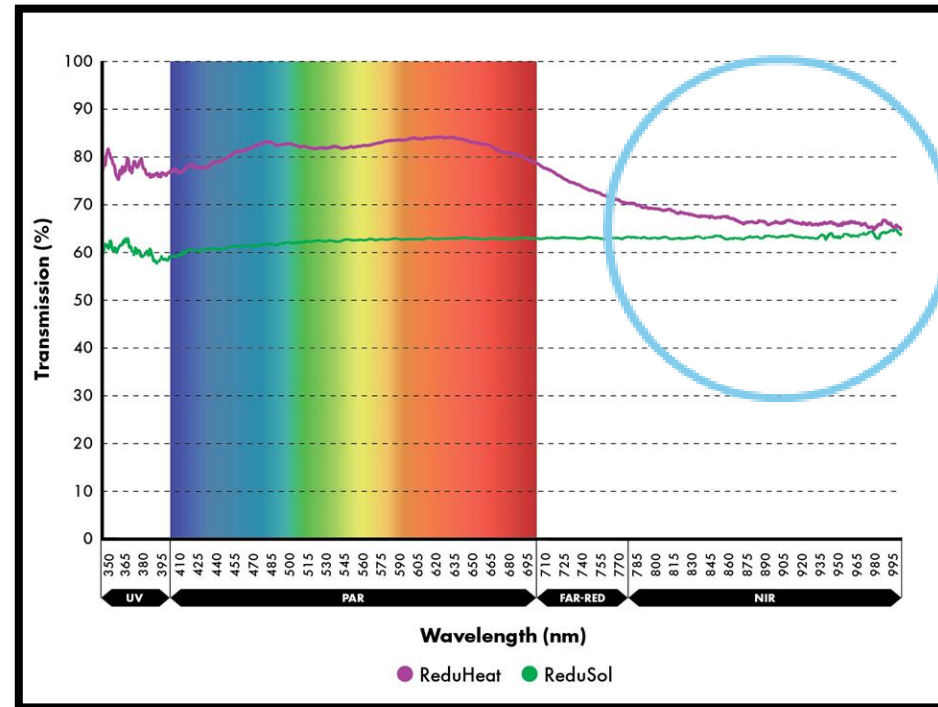
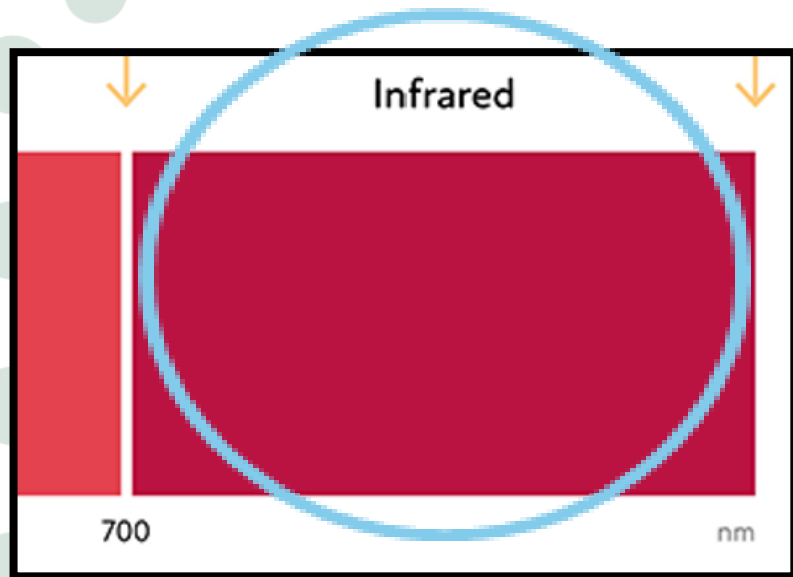
# Red light (600-700 nm)



Red light (600-700 nm) is essential for the flowering and fruiting of plants. It regulates processes such as leaf opening and closing, flowering cycles, and flower production.



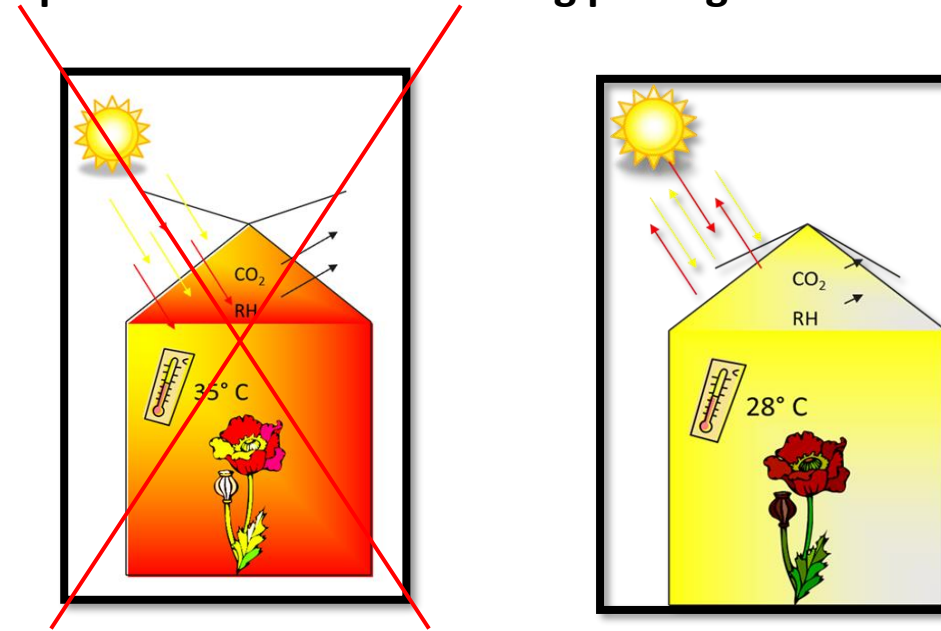
# Infraredlight (IR/ 780 nm - 1 mm)



IR (InfraRed) does not have a direct contribution to photosynthesis, but it does have important effects on a plant like: stimulating opening or closing of the stomata, plant development, the microclimate around a plant (leaves) and the warming of the greenhouse and plants

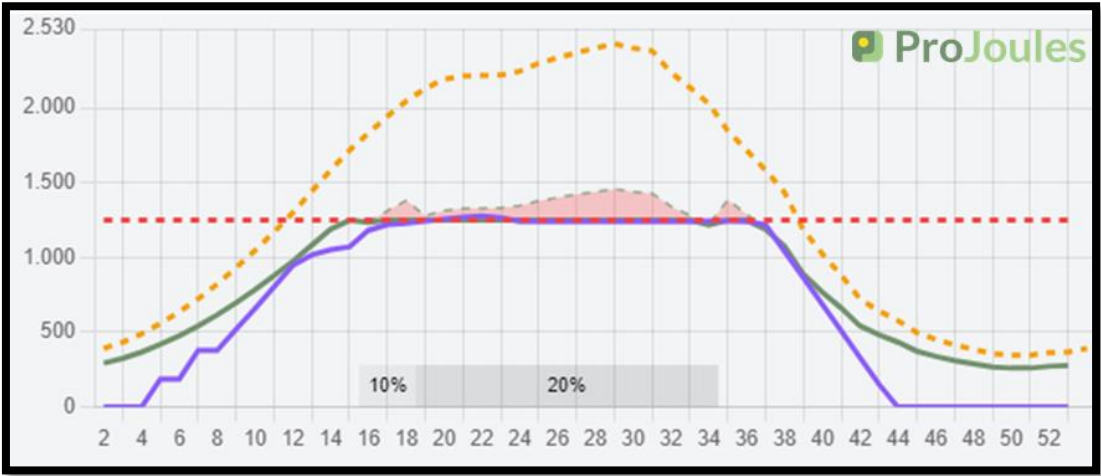
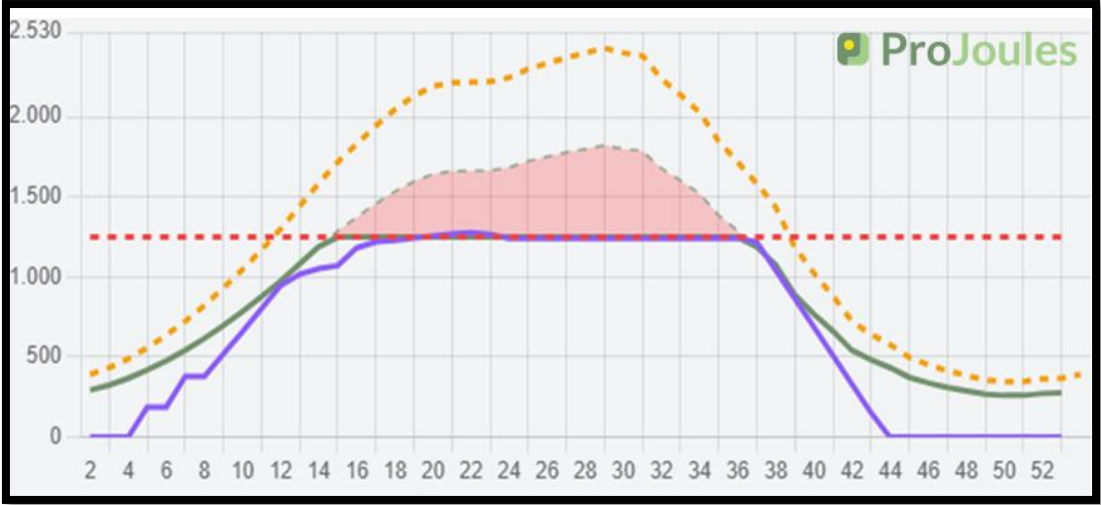
# Coatings can help temperature Control

Regulates canopy temperature  
and prevents heat stress during picking and flowering



Infrared-reflecting coatings reduce the amount of heat that penetrates the canopy, thus preventing the plant from overheating

# Make a shading plan with our help



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