

The World HortiCenter is a combination school, product demonstration and research facility for the Dutch greenhouse industry.



Students taking a lunch break from classes.



A local tomato and cutflower peony grower was our guide.



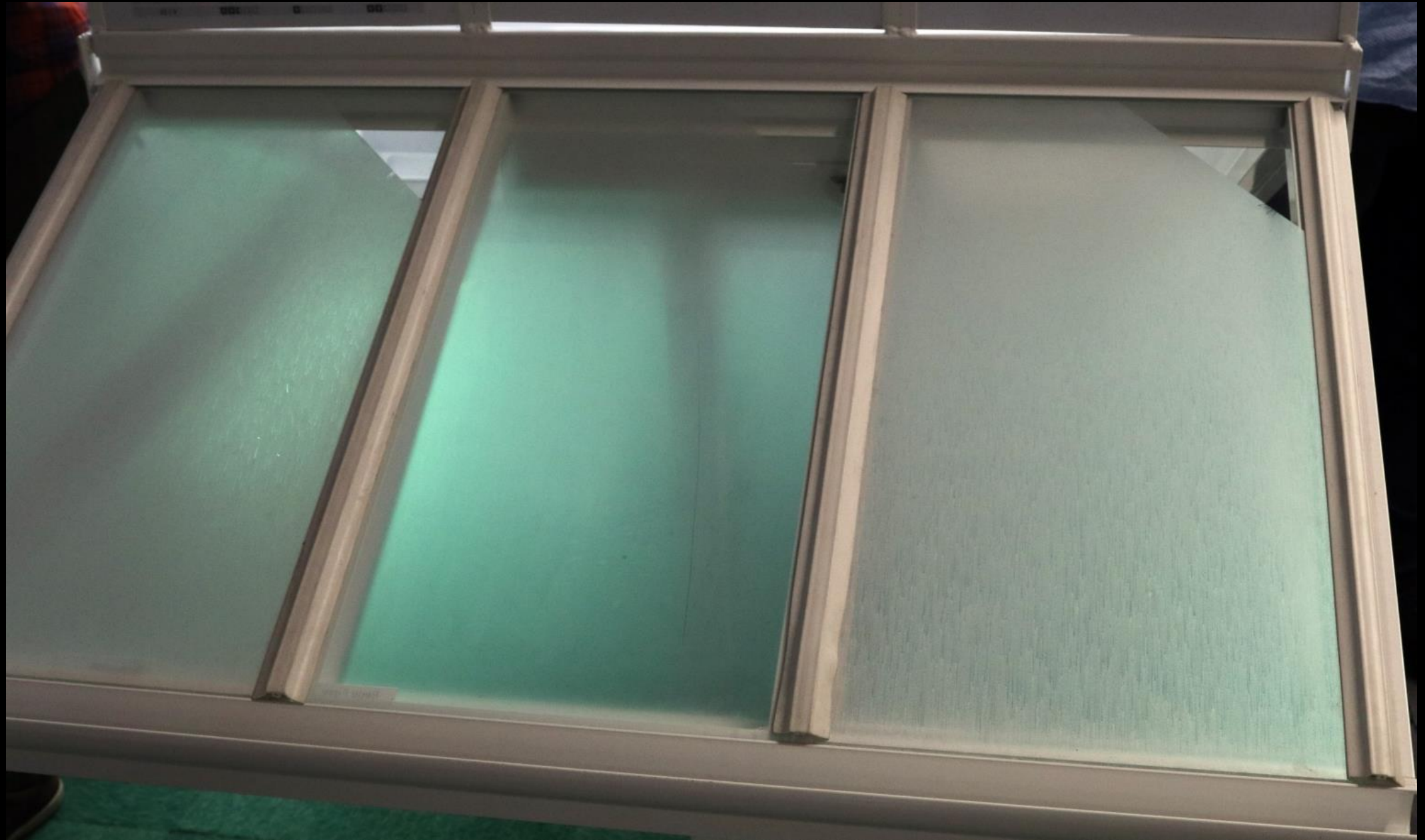
The first part of the visit introduced us to greenhouse companies demonstrating their products.



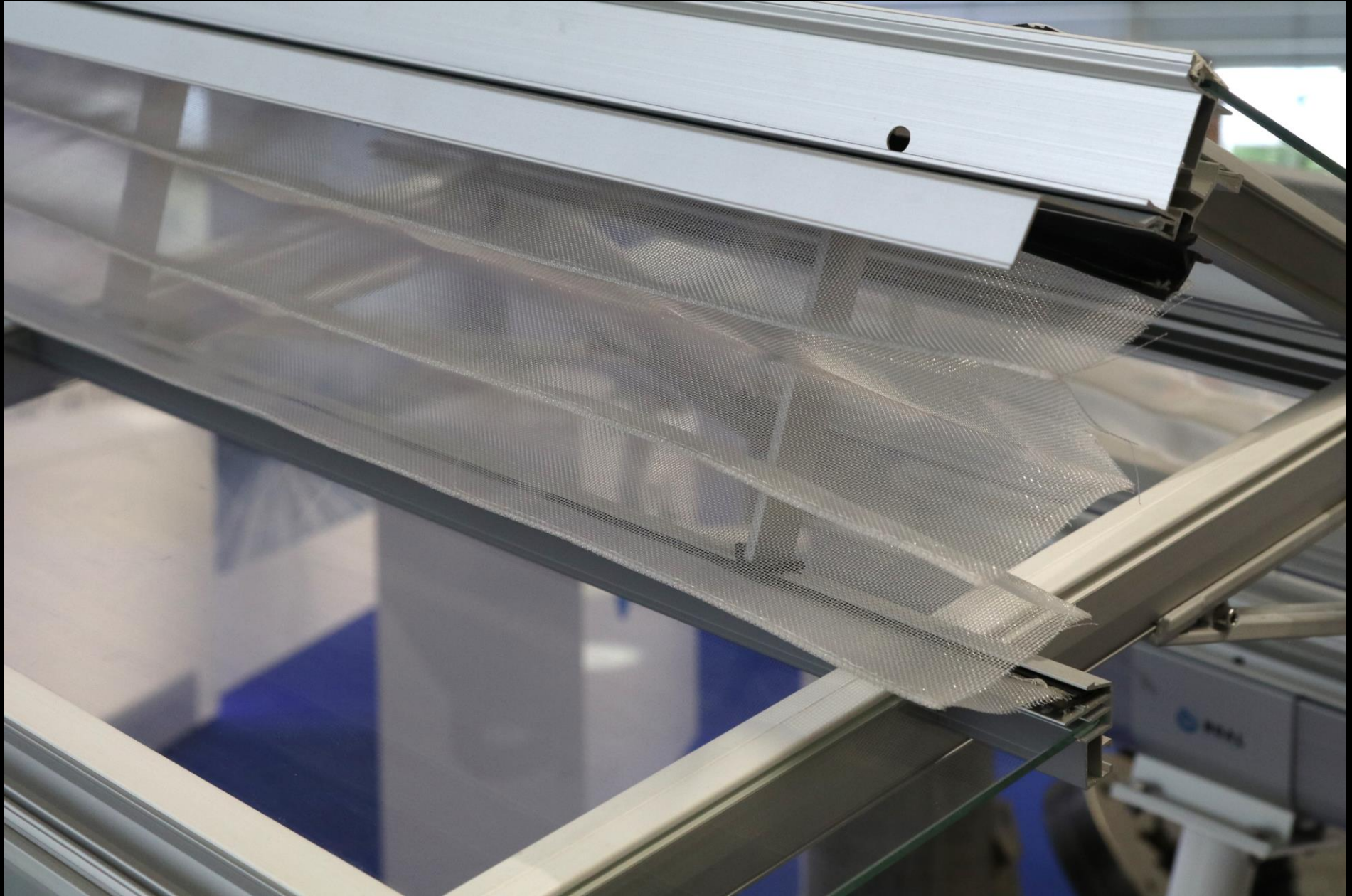
Different colored thermal curtains.



Glazing pigments alter light diffusion into the greenhouse.



Insect screening.



LED supplemental lighting lamp.



This company had a virtual sales representative.



More typical, a human sales rep explained their products.



Part of the ambiance was old-style equipment like this bulb sorter.



As bulbs rolled
down the table,
small bulbs were
sorted before the
large bulbs.



Sophisticated
greenhouse
facilities were
available for custom
grower research.



Reverse osmosis
system for clean
irrigation water.



System for adding
acid to adjust
fertilizer pH.



Numerous tanks for pumping different fertilizer formulations for greenhouse experiments.



Sensors for computer-aided environmental control. This greenhouse section was experimenting with infrared sensors that measure crop temperature.

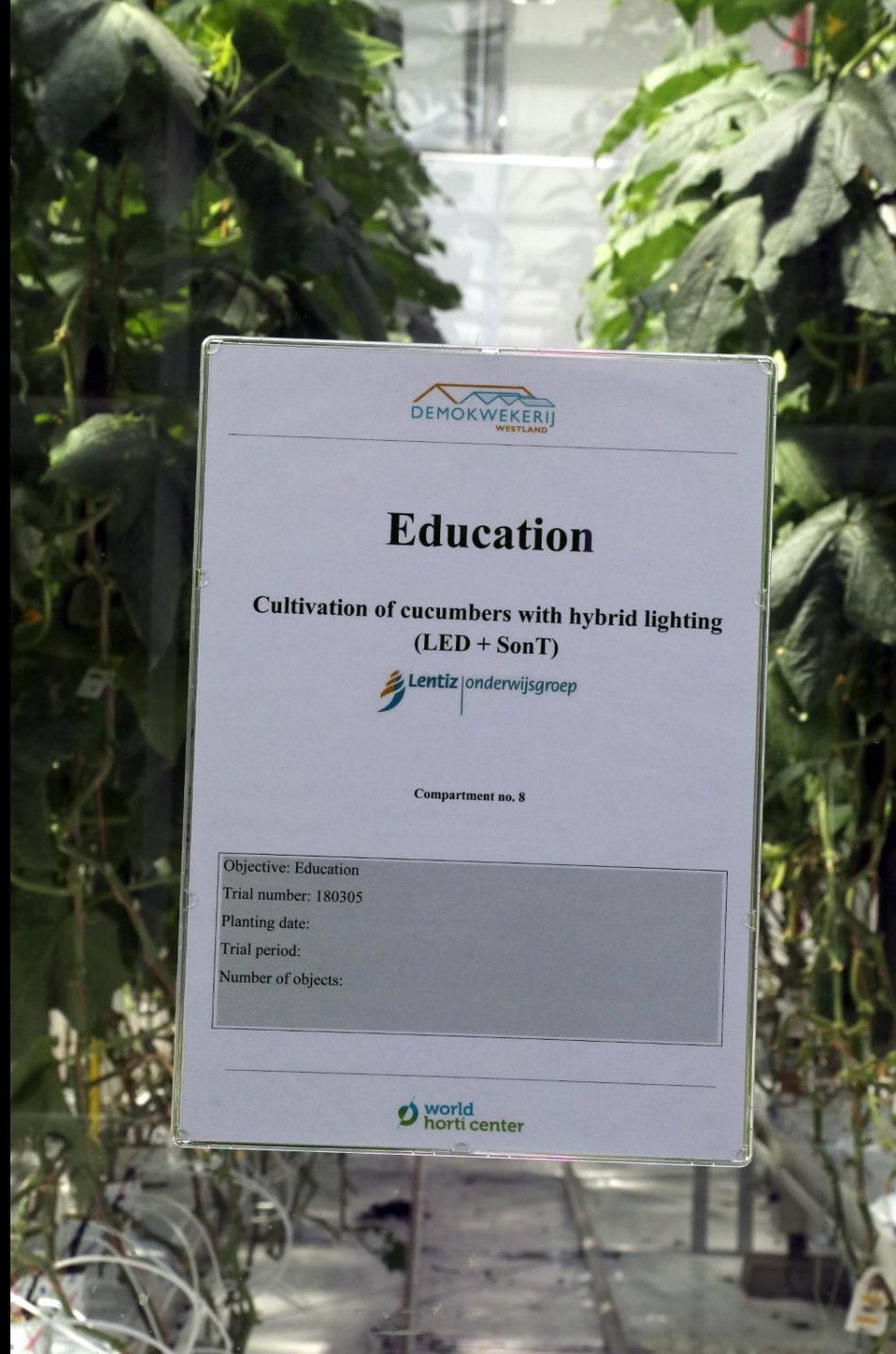


Using a digital weighing scale to measure crop evapotranspiration and schedule on-demand irrigation.



The greenhouses were also used for student teaching.

This section was an experiment using different fertilizers and LED lighting on cucumber.



Hydroponic cucumber



LED lamps

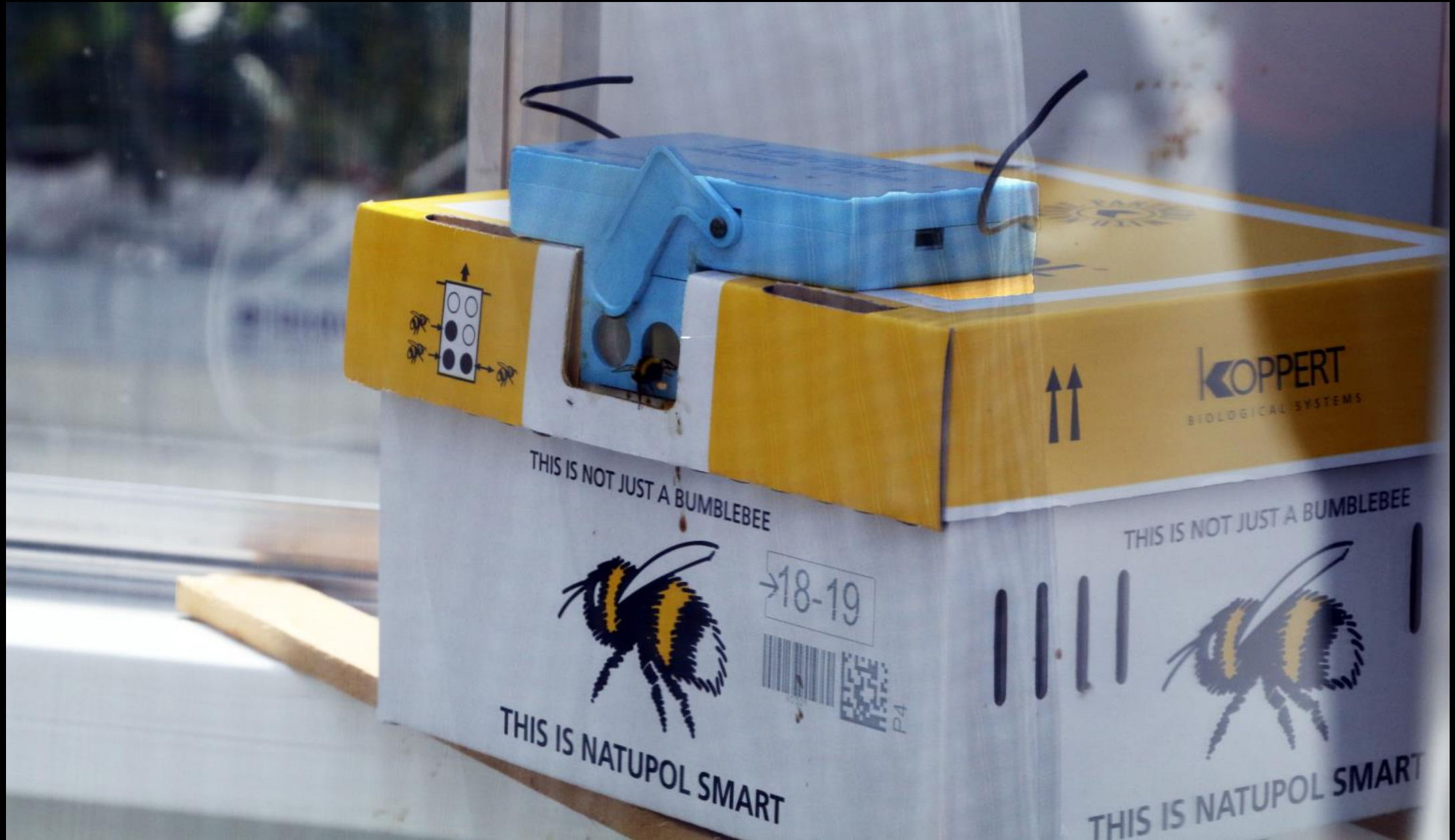
Hydroponic peppers



All crops were grown in rockwool bags supplied with fertilizer drip tubes.



Bees helped ensure good pollination.



Harvesting peppers using an elevated platform that moves along rails in the aisles between plants.



In addition to cucumber and pepper, hydroponic tomatoes were also grown for research and teaching.



Tomato cultivar trials.

