



Figure S4. Experimental (a) and model-based (b) spectra of leaf reflectance in pea plants, which were cultivated for 9 days under the low and moderate light intensity ($n=6$ for experiments). The average experimental reflectance spectrum ($n=6$) measured in the second mature leaf of pea plants (PolyPen RP 410) is shown. Standard errors are not shown because they are small. In variant “Moderate light intensity”, $h=33.8\ \mu\text{m}$ and $l=57.1\ \mu\text{m}$ (see Figure S3b); other parameters were not changed. In variant “Low light intensity”, $h=25.7\ \mu\text{m}$ and $l=46.6\ \mu\text{m}$ (see Figure S3b); other parameters were not changed. R^2 between experimental and model-based dependences were 0.989 (variant “Moderate light intensity”) and 0.976 (variant “Low light intensity”).