Glass-Based LED System for Indoor Horticulture: Enhanced Plant Growth through Sm$^{3+}$ and Tm$^{3+}$ Co-Doped Luminescent Glasses

Fig. S1 PL excitation spectra of Sm$^{3+}$ and Tm$^{3+}$ co-doped glasses, with (a) monitoring of 565 nm, (b) 602 nm, and (c) 707 nm Sm$^{3+}$ ion emissions.
**Fig. S2** PL spectra of two reference samples (R1 and R2) prepared with the same base glass composition as the Sm$^{3+}$ and Tm$^{3+}$ co-doped samples, except for the fact that R1 contains only 0.25 mol% Tm$_2$O$_3$ and R2 contains only 0.25 mol% Sm$_2$O$_3$ under 360 nm excitation.