

Supplementary Materials

Supplementary Table S1 Details of treatments: The light quality and concentration of sodium selenite (Na_2SeO_3) solution for this experiment. The photosynthetic photon flux density (PPFD) was maintained at $60 \mu\text{mol m}^{-2}\text{s}^{-1}$.

Treatment	Red/Blue/Green LED ratios	Selenium Supplement
1R1B1G	Red: Blue: Green=1:1:1	\
1R1B1G+Se	Red: Blue: Green=1:1:1	100 $\mu\text{mol L}^{-1}$ Na_2SeO_3
1R1B+Se	Red: Blue=1:1	100 $\mu\text{mol L}^{-1}$ Na_2SeO_3
1R2B+Se	Red: Blue=1:2	100 $\mu\text{mol L}^{-1}$ Na_2SeO_3
2R1B+Se	Red: Blue=2:1	100 $\mu\text{mol L}^{-1}$ Na_2SeO_3



Supplementary Figure S1 The phenotype of broccoli sprouts under a combination of selenium and LED light quality treatments.