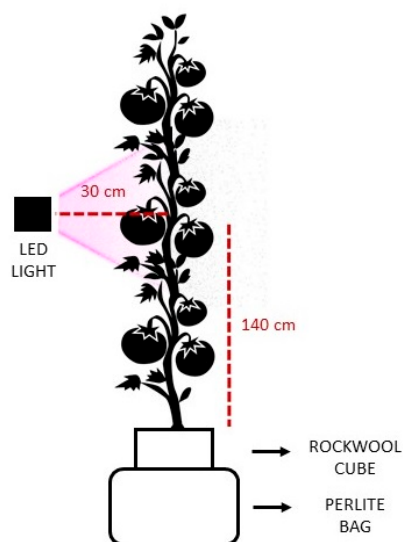**Figure S1.** Descriptive scheme of LED lamp location.

Table S1. Results of two-way ANOVA analysis.

Evaluated parameters	LED	DEF	LED*DEF
Collar diameter	***	ns	ns
Internode length	ns	ns	ns
Total leaf area	ns		
Leaf fresh weight	ns		
Leaf dry weight	ns		
LDMC	ns		
Plant total fresh weight	ns		
Plant total dry weight	ns		
Stem length	ns		
SLA	*		
Chlorophyll content leaf under 3° truss	***	ns	ns
Chlorophyll content leaf under 4° truss	***	ns	ns
Stomatal conductance (GS)	ns	ns	ns
Under-leaf CO_2 concentration (Ci)	ns	ns	ns
Leaf transpiration (E)	ns	ns	ns
Net photosynthesis (A)	*	ns	ns
Effective quantum yield efficiency of PSII (ΦPSII)	*	**	ns
PSII maximum efficiency (Fv/Fm)	ns	ns	ns
Photochemical quenching of PSII (qP)	*	**	ns
Proximal fruit volume Follow up 1	ns	**	ns
Proximal fruit volume Follow up 2	*	ns	ns
Distal fruit volume Follow up 1	***	ns	ns
Distal fruit volume Follow up 2	***	ns	ns
Total number of fruits	***	ns	ns
Total yield	***	ns	ns
Yield green tomatoes	ns	ns	ns
Yield red tomatoes	***	ns	ns
Ripening Proximal Fruit Follow up 1	ns	**	**

	LED	DEF	LED*DEF
Ripening Distal Fruit Follow up 1	ns	ns	ns
Ripening Proximal Fruit Follow up 2	***	ns	ns
Ripening Distal Fruit Follow up 2	**	ns	ns
Fruit hardness	ns	ns	ns
L*	***	ns	ns
HUE angle	***	ns	ns
Chroma	ns	ns	ns
Pulp firmness	ns	ns	ns
Soluble solids	ns	*	ns
Titratable acidity	*	ns	***
FDMC	ns	ns	ns
Lycopene	ns	ns	ns
β-carotene	ns	ns	ns

ns = $p > 0.05$; * = $p \leq 0.05$; ** = $p \leq 0.01$; *** = $p \leq 0.001$

LED = effect of supplemental LED light (RB or CK treatment)

DEF = effect of defoliation (R and NR treatment)

LED*DEF = interaction among factors