

Supplementary materials

Table S1. Primers used in this study.

Name	Oligo 5' → 3'	Contig
Ubi-F	TGAACCTCCATGCCCTCCTCTTC	VPTC006466
Ubi-R	TGAAGCATGGCATCAATTTC	
VnPHOT1-F	ATGGAAGAGAAGGAGGAACGGC	VPTC017750
VnPHOT1-R	TGTCGGACAGCACCTGGATC	
VnPHOT2-F	CAATAGAACTCGACCATAAATCTTAC	VPTC16000
VnPHOT2-R	CTTGCATGTCCAATCCTGGT	
Vn_ELIP1-F	CGTTCGACATCTGCCTTGCC	VPTC001069
Vn_ELIP1-R	CAGAGATTGACAGATGAGACCACATG	
Vn_LHCA1-F	CAAGGTGAAGGAGATTAAGAACGG	VPTC009056
Vn_LHCA1-R	ATGGATCTGGGAATGATGACGT	
Vn_PSII-F	GCATCAGGAAGGAAGGCTAAGG	VPTC001554
Vn_PSII-R	GCACTGGTATTGTAAACTAGAACAGCAC	
Vn_D1-F	TGCGACCTTGGATTGCTGTTG	VPTC017296
Vn_D1-R	CCGAAGACACCAGCTACGCC	
VnPetC-F	CCAAGGCACCGTTGTAAGAGG	VPTC016179
VnPetC-R	CGTTTGTCTTCTCCTTGCCC	
Vn_PSI-F	CGTGCTGAGGATGCCGCTT	VPTC006498
Vn_PSI-R	GAACCGAACTACCACTGGATAACCG	
Vn_RBCL2-F	CAATCCCAAGCATGGTTACAATG	VPTC016890
Vn_RBCL2-R	GCCGTATCCTGAGTTGTCCATTG	
Vn_PEPC-F	CAGGTTACCATGTGACGGCGA	VPTC000540
Vn_PEPC-R	CACCTCCTGAGCACTGGAAAGC	
Vn_SOD-F	CTCCCGAAGATGAGAACATGCC	VPTC003604
Vn_SOD-R	ATCAGCATGGACAACAACAGCC	
Vn_CAT-F	CGACAACTTCTCAACGAGAACGA	VPTC009091
Vn_CAT-R	GTCGTAGTGGTTGTTGCGGAAG	

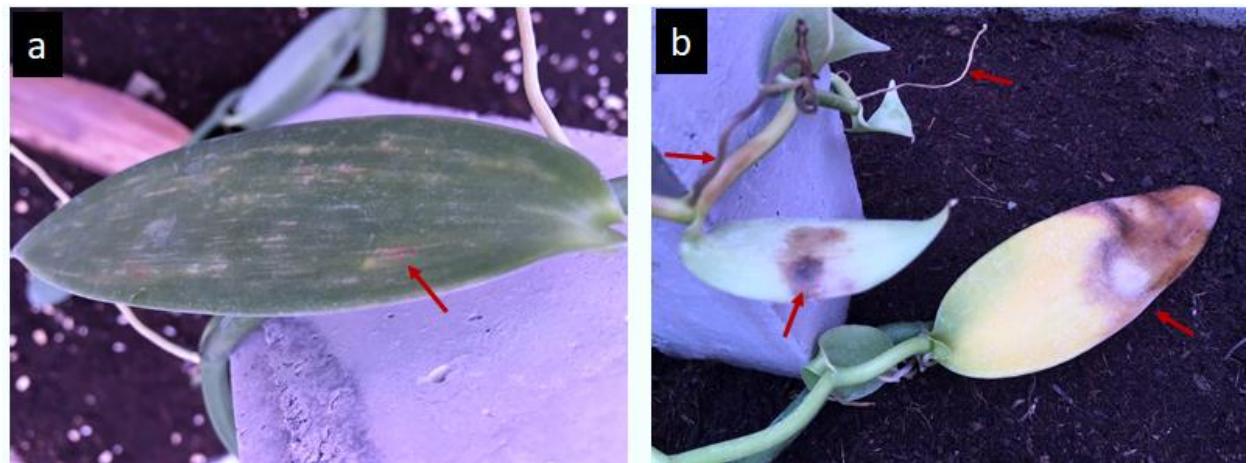


Figure S1. High light irradiation in the screen house caused sunburn symptom on the leaves of vanilla orchids.

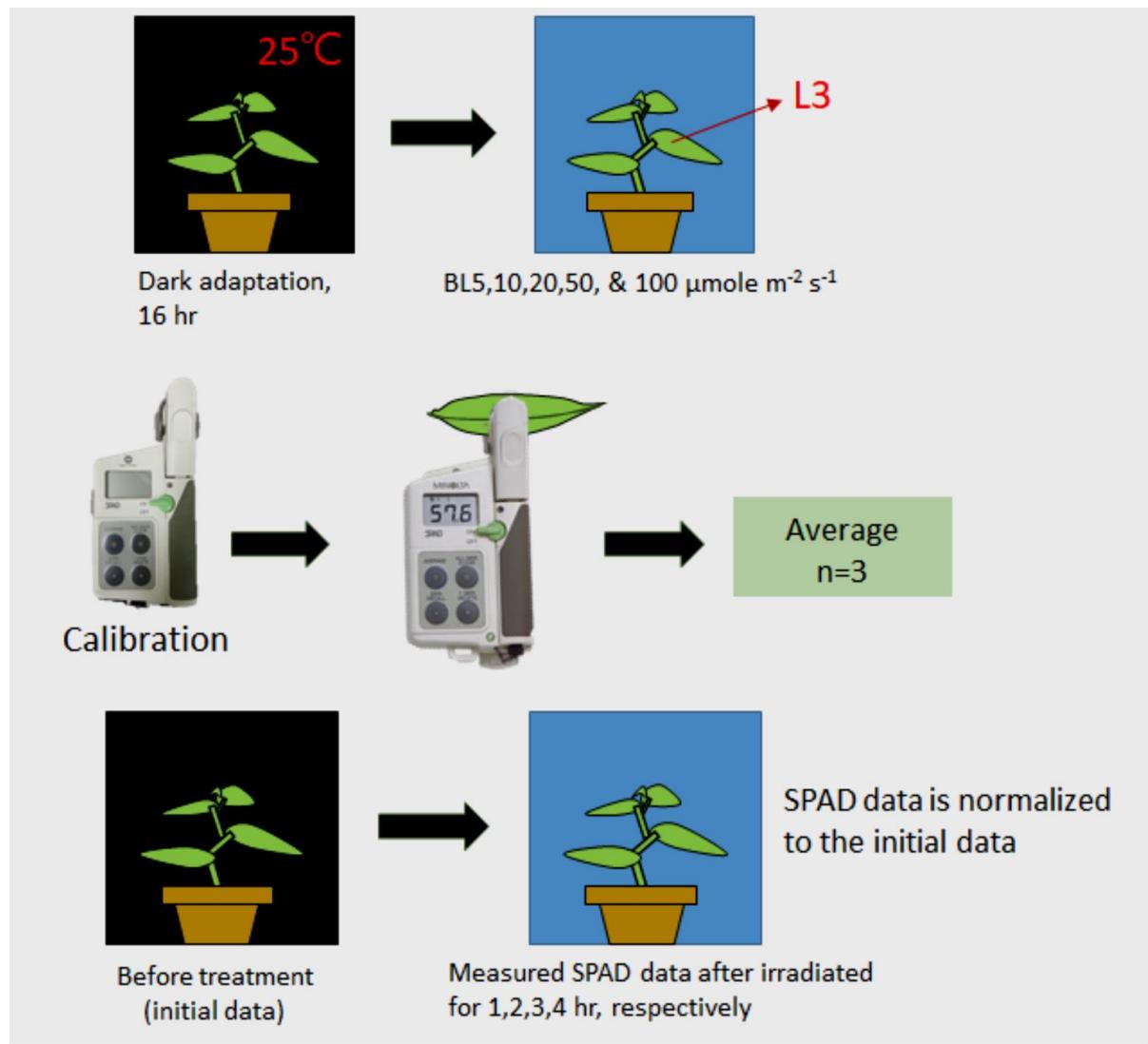


Figure S2. Procedures to measure chloroplast movement using a SPAD meter.

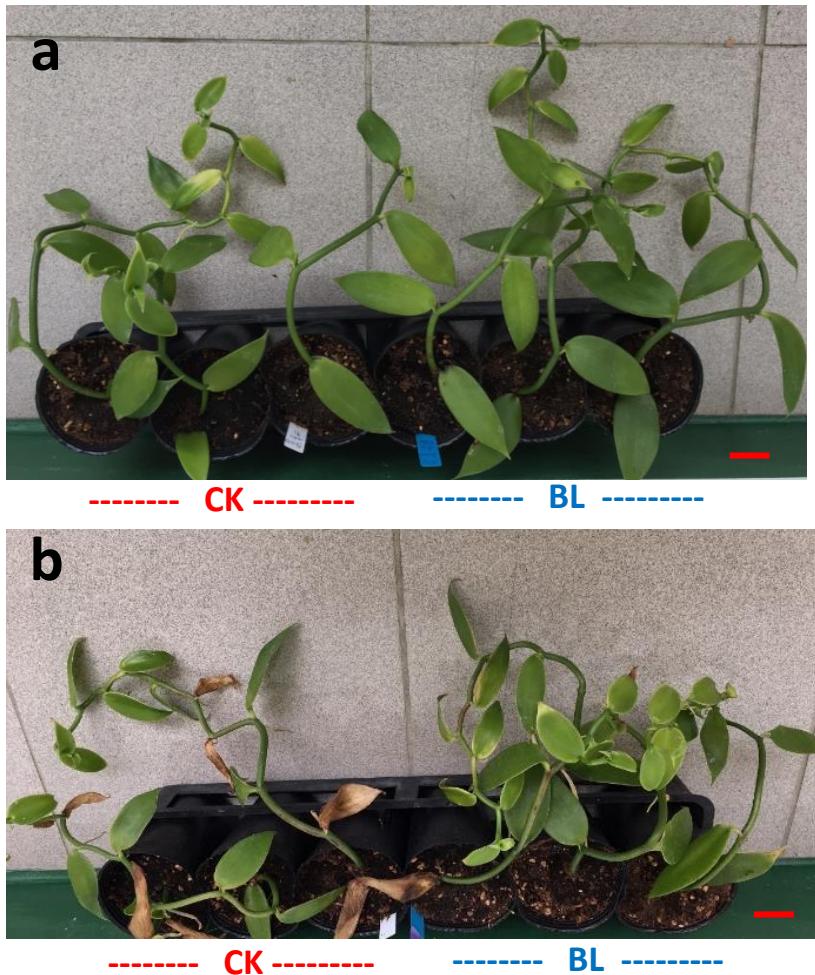


Figure S3. Vanilla orchids exposed to high irradiations of ML500 or HL1000 for two weeks caused severe photoinhibition but BL-acclimation reduced the photodamage. (a) ML500 (b) HL1000. Bars, 2cm.