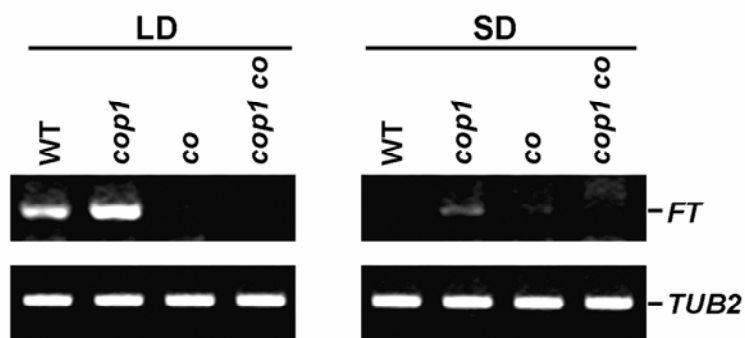


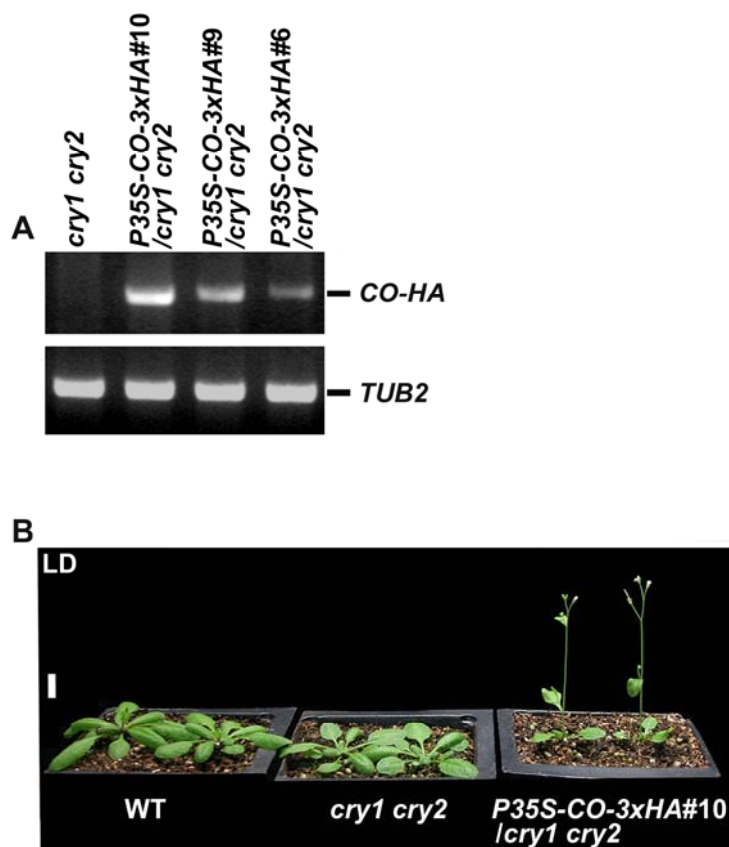
Supplemental Figure 1. Phenotypes of Plants Grown in LD or SD Illuminated by Blue Light (BL-LD or BL-SD).

(A) and (B) The *cop1* mutant flowers significantly and slightly earlier than wild type in BL-SD and BL-LD, respectively. (C) The *cry1 cry2 cop1* triple mutant flowers as early as *cop1* single mutant in BL-LD. (D) and (E) The *cop1 co* double mutant flowers as late as the *co* single mutant in both BL-SD and BL-LD. (F) The *cry1 cry2 co* triple mutant flowers as late as the *cry1 cry2* double mutant in BL-LD. Scale bar, 1 cm.



Supplemental Figure 2. RT-PCR Analysis of *FT* Expression.

FT expression is up-regulated in *cop1* mutant in both LD and SD, but dramatically down-regulated in *co* and *cop1 co* mutants. Seedlings were grown in LD or SD for 8 days, and then collected for RNA extraction before it was getting dark at day 9. *TUB2* was amplified as an internal loading control.

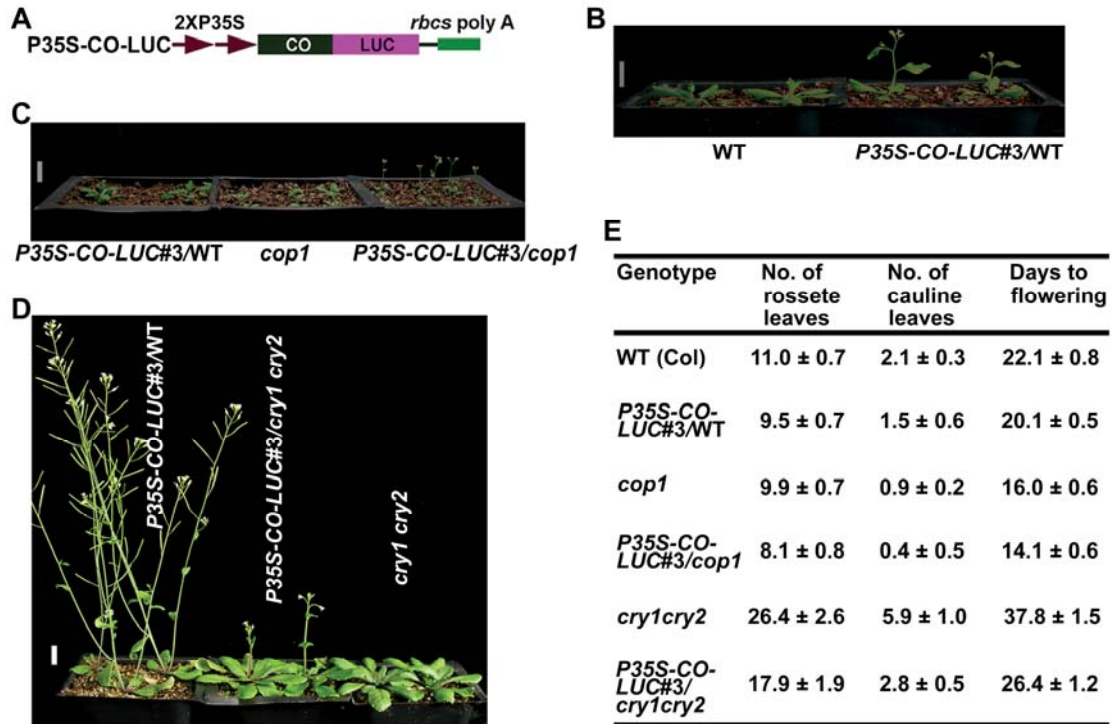


Supplemental Figure 3. Phenotype of *P35S-CO-3xHA/cry1 cry2* Plants in LD.

(A) RT-PCR analysis showing expression of *CO-HA* in transgenic *P35S-CO-3xHA/cry1 cry2* plants. Seedlings were grown for 8 days in LD, and then

collected for RNA extraction 4h after light was on. *TUB2* was amplified as an internal loading control.

(B) *P35S-CO-3xHA#10 /cry1cry2* plants flower earlier than *cry1cry2* mutant in LD. Scale bar, 1cm.



Supplemental Figure 4. Phenotypes of *cop1* and *cry1 cry2* Mutant Plants Expressing *CO-LUC* in LD.

(A) A construct constitutively expressing *CO-LUC*.

(B) *P35S-CO-LUC#3 /WT* plants flower earlier than WT.

(C) *P35S-CO-LUC#3/cop1* plants flower earlier than both *P35S-CO-LUC#3 /WT* and *cop1* mutant plants.

(D) *P35S-CO-LUC#3/WT* plants flower earlier than *P35S-CO-LUC#3/cry1 cry2* plants, and *P35S-CO-LUC#3/cry1 cry2* plants flower earlier than *cry1 cry2* mutant plants. The representative plants shown in (B-D) were photographed 20, 24, and 33 days post germination in LD, respectively. Scale bar, 1cm.

(E) Flowering time of transgenic plants expressing *CO-LUC* in LDs. Flowering time was measured as the total number of leaves produced or days to bolting. Data from 20 individuals for each genotype ± S.D.

Supplemental Table 1. Flowering Time of Mutant Plants Grown in LD or SD Illuminated by Blue Light (BL-LD or BL-SD).

Plants in each experiment were grown under BL-LD or BL-SD as indicated. Flowering time was measured as the total number of leaves produced or days to flowering. When the days to flowering is used as the measure of flowering time, the *cry1 cry2* and the *co* mutants flower late in BL-LD, the *cop1* mutant flowers early in BL-LD and BL-SD, the *cry1 cry2 cop1* triple mutant flowers as early as the *cop1* single mutant in BL-LD, the *cry1 cry2 co* triple mutant flowers as late as the *cry1 cry2* double mutant in BL-LD, and the *cop1 co* double mutant flowers as late as the *co* single mutant in BL-LD. Data from at least 20 individuals for each genotype \pm S.D.

Genotype	BL-LD			BL-SD		
	No. of rosette leaves	No. of cauline leaves	Days to flowering	No. of rosette leaves	No. of cauline leaves	Days to flowering
WT (Col)	5.9 \pm 0.8	2.0 \pm 0.4	17.1 \pm 0.6	6.5 \pm 0.5	3.4 \pm 0.5	31.9 \pm 0.8
WT (Ler)	5.7 \pm 0.5	2.2 \pm 0.6	16.7 \pm 0.4	6.1 \pm 0.3	3.4 \pm 0.6	30.9 \pm 0.8
<i>cry1 cry2</i>	4.2 \pm 0.4	2.7 \pm 0.4	24.0 \pm 0.6	5.6 \pm 0.5	2.4 \pm 0.5	36.1 \pm 0.7
<i>cop1</i>	7.4 \pm 0.5	1.7 \pm 0.7	16.3 \pm 0.5	8.3 \pm 0.6	1.8 \pm 0.4	21.1 \pm 0.7
<i>co</i> (Col)	6.0 \pm 0.4	2.6 \pm 0.5	21.1 \pm 0.6	6.1 \pm 0.2	4.1 \pm 0.4	32.8 \pm 0.7
<i>co</i> (Ler)	6.1 \pm 0.7	2.6 \pm 0.5	21.7 \pm 0.6	5.6 \pm 0.5	2.7 \pm 0.5	31.2 \pm 0.7
<i>cry1 cry2 cop1</i>	8.7 \pm 0.5	1.9 \pm 0.4	16.7 \pm 0.5	8.4 \pm 0.5	1.9 \pm 0.3	21.8 \pm 0.8
<i>cry1 cry2 co</i>	4.2 \pm 0.4	2.4 \pm 0.6	25.2 \pm 0.6	5.3 \pm 0.7	2.6 \pm 0.5	38.5 \pm 0.7
<i>cop1 co</i>	10.1 \pm 0.6	1.2 \pm 0.4	22.0 \pm 0.8	11.2 \pm 0.8	1.9 \pm 0.3	32.3 \pm 1.2
<i>P35S-CO-3xHA#10/ cry1 cry2</i>	5.6 \pm 0.5	2.2 \pm 0.4	15.3 \pm 0.7	5.7 \pm 0.5	2.2 \pm 0.5	21.3 \pm 0.4