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## Horticultural Research (Japan)

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## Effects of Red-light Intensity during Long-day Treat and Cut Flower Quality in *Eustoma grandiflorum* Cu autumn Shipment

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Long-day treatment by pre-dawn lighting (6 h) was applied to *Eust* cultivars to investigate flowering responses and cut flower qualities f shipment. Seedlings were irradiated by using bulb-type red-light flu FR ratio was 8.8, with photon flux density (PFD) of red-light (660 $\pm$  0.5 µmol·m<sup>-2</sup>·s<sup>-1</sup>. Control plants were grown under ambient day cc without long-day treatment. The times from planting to flower buddi

treatments were significantly longer than that of the controls. Hower significant difference among the times from planting to flower buddin Long-day treatment with the highest red-light intensity showed the § number of nodes on the main stem at anthesis of the first floret. The grown under long-day treatment with red-light intensities above 0.2 significantly longer than that of the control. Long-day treatment using fluorescent lamps was applied to 11 *Eustoma* cultivars. Compared plants, the times from planting to flower budding under long-day trecultivars and the number of nodes on the main stem at anthesis of th increased to a maximum of 2.4 in 10 cultivars. Moreover, cut flower day treatment was 11.3 cm longer at maximum and cut flower weig cultivars at harvest (at anthesis of the third floret) compared with the increase in the number of nodes on the main stem under long-day trecorrelated with the days to flowering in the controls.

Key Words: cut flower length, flowering response, photomorphos

[PDF (410K)] [References]

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