

# The Physiological Response of *Anthurium* to Radiance<sup>1</sup>.

Bing - Dwo Su<sup>2</sup>

## Abstract

Investigation of physiological responses of various shading grades, light quality, major nutrients efficiency, and long day treatment of *Anthurium andre-anum* Linden under different environmental conditions. Two cultivars, 'Sarina' and 'Etna' were used in this experiments.

From the results of treatments by 75% and 50% shade with black PE screen, 75% shade with silver PE screen, and by red, blue and yellow glassine; the best growth and flowering quality of plants were obtained by 75% shade with black PE screen. White nylon screen and three glassines caused short in plant morphology, and poor in flowering quality. Under 75% shade with black PE screen and three different glassines, cross section of leaves had short palisade cells, the size of spongy mesophyll cells were not regular in distribution. Spongy mesophyll cells were more larger in glassine treatments than in others.

'Sarina' provided by 75% shade with black PE screen had green leaves, while yellow-green leaves by red glassine. Spathes color of 'Sarina' under 50% and 75% shade with black PE screen were pink, and light orange under blue glassine.

'Etna' provided by 50% shade with black PE screen had green leaves, or yellow-green leaves by yellow glassine. Spathes color of 'Etna' were bright red while under white nylon screen, dark red under blue glassine.

**Key words:** Anthurium, Shading, Radiance.

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<sup>1</sup>A Part of author's master thesis.

<sup>2</sup>Assistant of Horticulturist Taitung DAIS.