

AN OVERVIEW OF LED LIGHTING IN AGRICULTURE FOR THE GROWTH AND DEVELOPMENT OF PLANTS

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Abstract

The overall aim of the work was to investigate the applicability of solid-state or semiconductor LED lighting technology in plant growth. This is accomplished by an extensive review of related research work conducted so far and of the results gathered from the growth tests performed. The work is concerned with the basic concepts regarding the photosynthetic process in plants growth with artificial lighting. Comparative study of light generated by conventional light sources and modern LED light sources is also elaborated in this paper.

Keywords:

Artificial Lighting,
Photosynthesis,
Light Spectrum,
Luminous Efficiency etc

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