

Dynamic Performances of Ballast for T5 Fluorescent Lamps

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Abstract

This study discusses the dynamic performances of ballast for T5 fluorescent lamp. The equivalent circuit of ballast for T5 fluorescent lamp is proposed. The transient response and steady-state response of ballast for T5 fluorescent lamp is presented. Furthermore, the frequency response of ballast for T5 fluorescent lamp is measured to obtain the adequate frequency of the T5 fluorescent lamp. The operations of the fluorescent lamp at normal mode and saving-energy mode are discussed. Test results are presented to validate the dynamic performances of ballast for T5 fluorescent lamp.

Keyword : ballast; T5 fluorescent lamp; frequency response