台灣地區國際觀光旅館客房照明應用之研究

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摘要

Taiwan produces the energy by oneself scarcely, more than 97% of the energy is dependent
on importing. Improvement energy efficiency is an important countermeasure. A research of
Bureau of Energy is pointed out. International tourist hotels average electricity consumption is
about 7030000000 kWh/m2‧yr. The illumination accounts for 28% of total amount of energy. According to the latest statistics provided by the Ministry of Transportation and Communications Tourism Bureau, select Taipei Sheraton Hotel for example target of this
research. And basically theory setting-up by references. Moreover, the lighting design software “DIALux” is applied to simulate the room environment, for test unit power density. Furthermore, and the optimal planning could be proposed to optimize the lighting for the room. Finally, through numerical simulation, probe into dissipation energy difference between the two in order to as conclusion of research this.

關鍵字：International Tourism Hotels；Refrigerating Cabinets；Artificial Lighting；DIALux