A Scheme for the Application of Domestic Lighting Systems Design Criteria

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Abstract:
The formulation of lighting as independent units is the work of many designers, but lighting design as a systematic system work does not find much resonance among the designers due to its difficulty and the multiplicity of its entrances and elements. Systemic work in the field of designing lighting units deals with a number of variables and sometimes contrasting and contradictory elements that may be difficult to combine between traditional design elements of form and functionality, as there are environmental considerations and considerations of human adaptation with multiple categories of users. Therefore, the research focuses on answering two important questions, what are the elements of the lighting system design? What is the method that should be subject to the elements of the system to achieve a successful design that achieves the product of lighting units design integration? This study aims to formulate objective specifications for lighting systems designers to ensure that their designs perform lighting tasks in a manner that achieves security, safety and comfort for the user at home, and seeks to test the proposed design standards to show how successful they are in responding to consumer needs and provide them with safety limits and visual comfort limits and avoid lighting damage. The study used the inductive Approach method to arrive at a proposed system for designing home lighting systems through which objective specifications were established that enable lighting designers to provide lighting tasks that provide their users with comfort, safety and safety in the home, and by testing the proposed design criteria that indicate their success in responding to consumer needs and providing them with safety limits and visual comfort and avoid lighting damage.

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