The Relation of Residential Lighting and Occupants Behavior, Perception and Welfare

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Abstract:
Lighting is an essential component of interior design that provides functional and aesthetic qualities for the users of the space. The impact of Lighting not only on the reduction but also to highlight the beauty of residential space according to function and distribution of selected spaces is of interest in this study. The purpose of this research is to generate a complete overview of residential lighting that demonstrates the relation of residential lighting and residents users’ perceptions. The question presented in this study addresses whether residential lighting has an effect on human behavior, which eventually impacts how the occupants feel comfort, safety, and relaxation.

The methodology of conducting research from the prior research involves the thematic approach, in which credible scholarly journal articles written between 1996 and 2010 were reviewed with the relation of occupants’ behavior and residential lighting in mind. The objective of this paper is to explore-support, or nullify-whether lighting affects human behavior in residential environments through the evaluation of journal articles discussing occupant’s behavior, perceptions, and energy efficiency that is impacted by lighting. The findings suggest lighting design in residential environments is essential for the well-being of occupants. While lighting may not directly affect occupants in a noticeable way, evidence from research indicates that occupants are in fact influenced by lighting. Designers must determine occupants’ needs for light in every corner as appropriate to their specific family requirements, taking into account the activities that occur in every room of the house. Designing lighting should be accompanied by taking care of the designed environment, sensitive optical artistic inclinations, as well as the overall quality of lighting.

Keywords
- Residential Lighting
- Occupants Behavior,
- Perception
- interior design

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