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## **Leveraging Daylight Metrics to Enhance the Quality of Common Spaces: A Focus on User Experience and Social Dynamics**

The design of common spaces within urban environments is crucial for creating vibrant and inclusive communities. This research paper explores the potential of leveraging daylight metrics as tools to enhance the quality of common spaces, with a specific focus on user experience and social dynamics. The study includes case studies in two diverse cities, Bangkok and Zurich, to examine the role of daylight in shaping the urban environment.

Daylight metrics provide valuable insights into the impact of daylight on common spaces. Parameters such as illuminance, glare, and color rendering can be measured to evaluate the quality of daylight and inform design interventions. The paper explores different daylight metrics, including the Daylight Factor, Spatial Daylight Autonomy, and Daylight Availability, highlighting their significance in improving visual comfort, reducing energy consumption, and fostering a connection to the natural environment.

By analysing case studies in Bangkok and Zurich, this research investigates the relationship between daylight metrics, user experience, and social dynamics in common spaces. Bangkok represents a rapidly growing urban environment in a tropical climate, while Zurich exemplifies a well-planned city with a temperate climate. The findings reveal the unique challenges and opportunities each context presents in leveraging daylight to enhance the quality of common spaces.

The research identifies the diverse benefits of daylight metrics on user experience and social dynamics within common spaces. Adequate provision of daylight positively influences mood, well-being, and productivity, creating inviting and comfortable spaces for users. Furthermore, integrating daylight metrics ensures equitable access to common spaces, accommodating the diverse preferences, abilities, and cultural backgrounds of users.

Moreover, the paper demonstrates how well-designed and well-lit spaces encourage social engagement, facilitate diverse groups to gather, interact, and create a sense of belonging. By incorporating daylighting strategies and considering spatial configurations, designers can create common spaces that promote social connections, stimulate creativity, and enhance the overall quality of life.

The research emphasizes the importance of adopting an interdisciplinary approach in urban design, encompassing knowledge from psychology, architecture, and environmental science. The integration of daylight metrics as tools for decision-making and design optimisation is crucial for creating people-centered and sustainable common spaces in urban environments.

In conclusion, this research paper highlights the significance of leveraging daylight metrics to enhance the quality of common spaces, focusing on user experience and social dynamics. Examining case studies in Bangkok and Zurich, the paper showcases the integration of daylight metrics and the promising opportunities for creating vibrant, inclusive, and user-centric common spaces that enhance user experience, foster social interactions, and contribute to the overall well-being of individuals in urban environments.

### **Keyword 1**

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