

THE ROLE OF ARTIFICIAL LIGHTING AND INTERIOR MATERIAL SELECTION IN THE COMFORT OF VISITORS TO TANATAP CAFÉ IN BEKASI

Astria Melanira¹

¹)Architecture Study Program, Faculty of Engineering, Krisnadwipayana University, Jakarta, Indonesia

Email : astriamelanira@unkris.ac.id

ABSTRACT

Currently, there has been significant growth in cafes in Indonesia, highlighting the demand for variety and thematic elements. Cafes serve as social hubs for relaxation after daily routines. Enhancing visual comfort is crucial for visitor satisfaction. Artificial and natural lighting play a significant role, especially at night, adhering to established standards for optimal visual comfort. The research methodology in this study employs data collection techniques through questionnaires and observations. The sampling method used is random sampling. The results of the observations and questionnaires examined visitor comfort in artificial lighting and interior materials, with a focus on the case study of Tanatap Coffee Bekasi. Tanatap Cafe highlights its design and artificial lighting system, creating a warm and natural atmosphere with attractive interior materials, thereby enhancing visual appeal for visitors.

Keywords: Lighting, Interior, Cafe

INTRODUCTION

The development of cafes in Indonesia is currently quite rapid, marked by a variety of interesting themes and concepts offered as places to relax and gather (Satria et al., 2021). Today, restaurants and cafes are not only places to eat and socialize but also serve as workspaces. Attractive design and comfort, such as seating arrangements and an inviting atmosphere, are key factors driving customers to visit and return (Monica et al., 2022). As the functions of restaurants and cafes evolve, visual comfort becomes crucial in creating a comfortable atmosphere. Natural and artificial lighting play a significant role, especially at night, and must be adjusted to standards to achieve optimal visual comfort (Febriana Prasetyo, 2023).

METHODS

This study uses a qualitative descriptive method, which emphasizes analysis, process, and meaning from the subject's perspective. According to Sugiyono and I Made Winartha, this method aims to analyze, describe, and summarize conditions and situations based on data from interviews or observations (Faizal M, 2022).

Research Variables

Ordinal variables are variables arranged based on order or ranking. The ordinal scale not only distinguishes categories but also indicates levels from low to high. Three important aspects of this scale are:

- a) Categories and measurements are predetermined,
- b) Measurement alternatives are arranged based on category differences,
- c) Responses are ranked based on two or more levels.

Data Collection Techniques

This study uses questionnaires and observations as data collection techniques, employing simple random sampling. The sample consists of 12 respondents, who are visitors to Tanatap Coffee Bekasi.

Research Location

Tanatap Coffee Bekasi is located at Kemang Pratama I CB 01, Bojong Rawalumbu, Rawalumbu District, Bekasi City, West Java 17116.

RESULTS AND DISCUSSION

Field Observation

The research was conducted in the main visitor area on the first floor and the outdoor roof area between 2:00 p.m. and 5:00 p.m. The layout of Tanatap Coffee Bekasi can be seen in Figure 1.

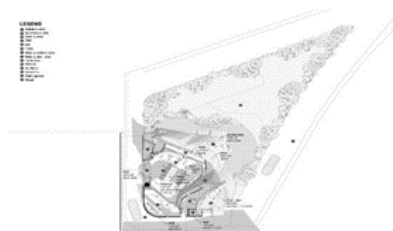


Figure 1. Layout of Tanatap Coffee Bekasi

Tanatap Coffee consists of one floor with an outdoor area on the roof. The bar is located in the southwest, adjacent to the kitchen and prayer room. The first floor features an open space concept without partitions. The facade uses glass blocks and clear glass to maximize natural light. In the evening and at night, artificial lighting is used to create a soft atmosphere. The space is harmoniously arranged with a combination of colors, patterns, furniture, and distinctive interior design (Tanatap Canopy Garden Café and Restaurant, 2022).



Figure 2. Layout of Tanatap Coffee Bekasi

Identification of Artificial Lighting

Artificial lighting in the interior of Tanatap Coffee, as seen in Figure 8, is sourced from a large diameter pendant lamp in the bar area.



Figure 3. Artificial Lighting in the Bar Area

In Figure 4, the lighting in the entrance area comes from uplight lamps.



Figure 4. Entrance Area Lighting

In Figure 5, in the Visitor Area, there are spotlights directed toward the setting area.



Figure 5. Lighting in the Visitor Area

In Figure 6, uplighting is installed in the rock seating area and under the visitor tables.



Figure 6. Lighting Under the Visitor Table

In Figure 7, the visitor area features a ceiling accent with LED strip lights on the ceiling accent.



Figure 7. Lighting in the Visitor Area

In Figure 8, there are wall lamps above the refrigerator in the bar area.



Figure 8. Bar Area Lighting

Material Identification

In Figure 9, the wall material in the entrance area uses brick walls with accent finishes such as striped concrete textures.



Figure 9. Wall Material

In Figure 10, the wall material in the bar area uses glass blocks.



Figure 10. Wall Materials

In Figure 11, the wall materials leading to the outdoor roof use glass blocks, clear glass, and polycarbonate.



Figure 11. Wall Materials

In Figure 12, the floor materials in the visitor area use mosaic tiles, red oxide flooring, and concrete flooring coated with a finish.



Figure 12. Wall Materials

In Figure 13, Roof Materials are related to outdoor roofs using Concrete Roof materials.



Figure 13. Roof Material

In Figure 14, the backrest material on the visitor seating furniture uses glass blocks arranged with iron as the seat support.



Figure 14. Glass Block Material

In Figure 15, the material used for the bar table area is glass block arranged with iron as a support.



Figure 15. Furniture Materials

Questionnaire

In the questionnaire, respondents will answer questions about artificial lighting and the choice of interior materials at Tanatap Coffee. The results will be calculated in a percentage diagram.

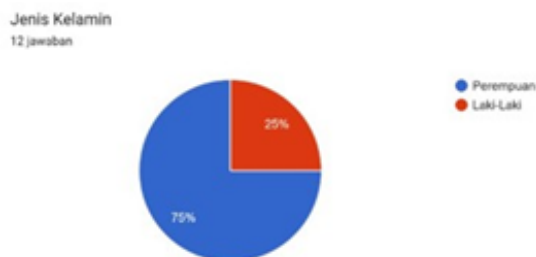


Figure 16. Diagram of Respondent Gender

Figures 16 and 17 show that the percentage of visitors to Tanatap Cafe is dominated by female visitors aged 18-30 years.

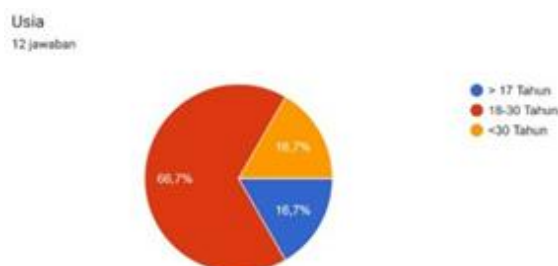


Figure 17. Respondent Age Diagram

Figures 17 and 18 show that most Tanatap Coffee visitors come 1-3 times a month, with the main purpose of meeting friends and relaxing.

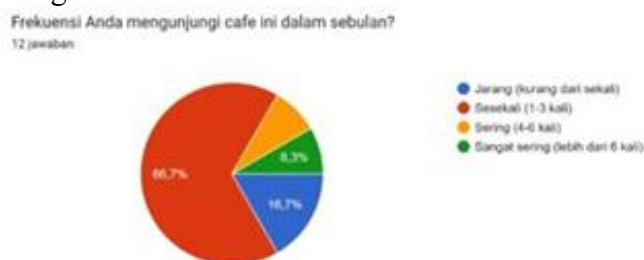


Figure 18. Frequency of Visits Diagram



Figure 19. Respondents' Activities

Figure 20 shows that most respondents felt that the lighting in the interior of Tanatap Cafe was adequate.

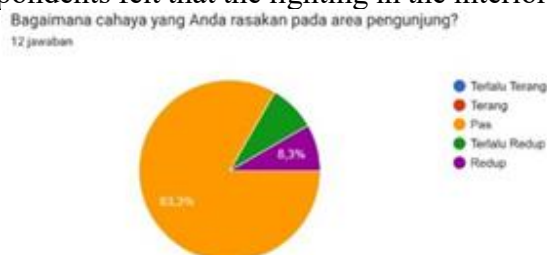


Figure 20. Artificial Lighting Diagram

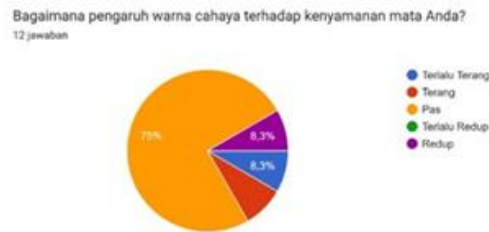


Figure 21. Artificial Color Diagram

Figure 21 shows that most respondents felt that the color of the lighting in the Tanatap café interior was comfortable for the eyes. Some respondents felt that the lighting in the Tanatap café interior was bright, too bright, or dim.



Figure 22. Artificial Lighting Diagram

Figure 22 shows that the lighting in the interior of Tanatap Cafe is considered to facilitate visitors in carrying out activities in the interior of Tanatap Cafe.

Figure 23 shows some of the respondents' opinions regarding artificial lighting in the interior of Tanatap Coffee.



Figure 23. Opinions on Artificial Lighting

Results of the Material Selection Questionnaire

Figure 24 shows that several respondents felt that the materials used in the café interior were in line with the concept that the café wanted to convey to visitors.



Figure 24. Interior Material Diagram

Figure 25 shows that most respondents prefer sitting on chairs with soft cushions rather than chairs without cushions.



Figure 25. Interior Material Diagram

In Figure 26, most respondents are likely to return to visit Tanatap Coffee.

Figure 27 shows the respondents' opinions regarding the materials that attract attention in the interior of Tanatap Coffee.



Figure 27. Respondents' Opinions

Figure 28 shows the respondents' opinions on certain parts of the interior design that impressed them. Some mentioned the unique shape of the lamps, the sculptures in the café area, and so on.

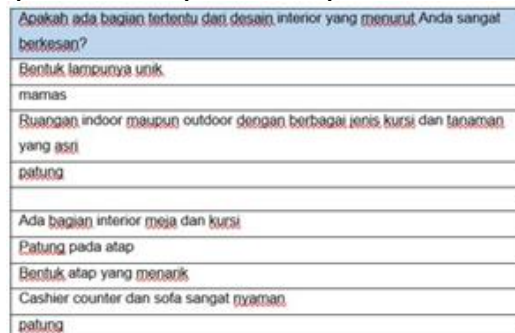


Figure 28. Respondents' Opinions

CONCLUSIONS

This study explores visitor comfort in relation to artificial lighting and interior materials at Tanatap Coffee Bekasi. Artificial lighting creates a natural, warm, and intimate atmosphere. Materials such as iron and glass blocks are widely used, meeting aesthetic and functional criteria, as well as supporting visual appeal and long-term durability. The unfinished technique on exposed cement walls highlights the original color and texture, while some visitors consider hanging sculptures as unique elements in the café's interior. Further research could focus on material durability, lighting energy efficiency, and design adaptation to trends and customer preferences. The author hopes that these findings can be explored further, for example through comparative research on various cafes with different interior designs to assess the benefits and drawbacks of each. Experimental research on customer satisfaction and material sustainability could also make a significant contribution.

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