

POLITECNICO DI TORINO  
SECOND SCHOOL OF ARCHITECTURE  
Master of Science in Architecture for Sustainability  
***Honors theses***

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**LIGHT AS INSTRUMENT FOR URBAN AND SOCIAL RIQUALIFICATION: A CASE STUDY FOR THE EX PARK OF MARTESANA, MILAN**

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This project is dedicated for the requalification of a green park in the suburb of a very big city: Milan.

The light of the green space can resolve some different problems, can contribute to improve the quality of the life of some difficult parts of the city and help to create some social bond. The aim of the project is the interaction of LIGHT and CITY, in the case of the light could change the face of the suburb of a big city. The case study is focused on the lighting requalification of the ex park's Martesana, in Milan. I used a methodology learned during some lighting workshop: frequent inspections during the day and the evening; drawing some sketches with paper and after with the graphic tablet; realization of a concept; realization of the project and research of the luminaires; technical drawings; verification of the light performance with the program Dialux. As a result I've elaborate some sociological themes, for example the theories of the urban security. The SWOT, the CPTED (theory made by Jeffrey in 1971); qualitative interview and the participative planning.

The park is based in the Nord-East of Milan, in a suburb and industrial area, with high density of public housing.

The project of the park was drew in the 1978 by Marice Cerasi; it has a surface area about 121.000 squaremetres.

In Viale Padova's neighbourhood there are the 42% of foreign people, a multi-ethnic area with an elevate rate crime. For studyng and analysing the inhabitants social condition, I've prepared a serial of qualitative questions.

The question at the beginning was: “why the park is sparsely attended?” The direct evidence had emphasized the lack of proper lighting and the lower visibility of the area. This place needs new social cohesion. Then started another analysis: the CPTED (*crime prevention through environmental design*) developed from the Jeffrey and Newmann’s theories. In this reference about urban security, the light is the security guarantor: “ a system of good lighting, designed to enhance the aesthetic context, can significantly change the image and atmosphere of a territory”.

The existing luminaires was classified about the difference sources and places. They are not very suitable for their functions.

The project’s aim is to demonstrate how with the right and good light, we can change and transform an unsafe place in a welcoming, safe and attractive park.

The idea was to extending the daylight and focused it on the trails, squares, amphitheatre.

Considering the disposition of the area inside the park and the functions, the final concept is to turn this place, with the use of light, in a foyer (like a wide urban space).

The luminaries was choose after a long research on internet and on some different catalogues. One more aim is to use also LED luminaries for the energy saving.

All the analysis has carried to the realization of a design concept and proposals for the redevelopment of the park with minimal intervention, responding in a very positive to the original question, the light is half with high potential for outdoor environments, in this context that we can create stage sets and original and attractive place.

From the attachment: disposition of the luminaries (1), fotorendering (2) (3).





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