

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

Lights in Scene: Redevelopment project for the square Turletti in Savigliano

by Riccardo Iacuzzo

Tutor: Chiara Aghemo

Co-tutor: Silvia Gron



Plan and sections project

The realization of this thesis is closely related to the workshop, "The lighting design project", that I attended in 2012 held by Professor Chiara Aghemo, and architects R. Taraglio, G. Piccablotto. The case study on which we have focused is a collaboration with the Municipality of Savigliano, having the intent to redesign the urban lighting of the entire historical city center. In addition, the notice of contest of ideas held on 29/02/2012, by the Council for the development of artistic and cultural Savigliano, for "the redevelopment of the area in front of the Civic Theatre Milanollo", it's formed the opportunity to define the real theme of the my project thesis degree.

In the first part of the thesis were treated the fundamental theoretical aspects of the project, the starting point for addressing specific issues related to the design of a public space like a square. The study has in fact concentrated at first on the description and identification of the various forms of public spaces and their social and cultural role. The second part of the deepening concerns the general themes of public and technical regulations in force, light pollution and sustainability related to energy saving.

A final aspect is the urban lighting with LED solution technologies, its features and performance. The lighting design must also have an explicit normative reference, for this in the third chapter, the thesis introduces the technical standards for the lighting of outdoor environments, specifically the UNI 11248/07 and UNI EN 13201-2. It also takes into account the Piedmont Regional Law 31/2000 provides that the provisions for the prevention and the fight against light pollution.

Is then examined the competition of ideas and its requests, then move on to the analysis of the state of passes made, considering different aspects: the territorial framework, morphological analysis, the urban framework, the analysis of historical architecture and the analysis of existing lighting on the site.

Finally, the last part of the thesis is treated the project of architecture design and lighting. The concept which qualifies the whole project is based on the desire to recreate a connection with the soul of the square, the Milanollo theater and its precious function, reversing the activity of performing arts, theatrical exhibition and demonstration carried out inside the building, in outer space in front of the artefact itself. It's thought to create an environment identified and defined, an "intimate" square lowered relative to the road surface, drawing an outdoor theater, to be used not only for the functions related to the show, but even for the rest, for example the relaxation and play outdoors. The decision to demolish the old wall in this square has allowed the definition of a unique and wider space, able to brand themselves as a true central hub for the entire historic center city. The study of a lighting project useful to the creation of night scenes accessible in compliance with the existing legislation, is the central point of the whole thesis. Again, the idea is based on the desire to overturn the business of entertainment related to the theater Milanollo, in outer space especially designed. Here the need is to create a scenario suitable to accommodate such activities, where the lighting of common use of the square is not in conflict with that momentary stage of the show. It's clear that the holding of an event and the creation of a scenario of light that accompanies such activity, represents a unique situation, therefore, is not linked to the daily use of space. It is therefore of paramount importance, to tie in the theme of this project, the conditions that ensure the lighting according to the law during the night, so the design of 3 different lighting scenarios: 1. The Event (lighting tied to the show) 2. The Daily Use (usufruct night lighting of the square in the daily life of the town) 3. Step Off (after one in the morning, lower levels of illumination on and off the elements of stage lighting, maintaining safety and regulatory standards).



Lighting design project:site plan and sections



Lighting design render_DIALUX

For further information, e-mail:

Riccardo Iacuzzo: iacuzzo.riccardo@gmail.com

Maintained by:
CISDA - HypArc, e-mail: hyparc@polito.it