

JOSHUA KREUTZBERGER
LIGHTING/ELECTRICAL
EXECUTIVE SUMMARY (TECH. #1)
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EXECUTIVE SUMMARY

This report is a summary of the existing lighting systems and the major lighting hardware including the luminaires, lamps, ballasts, etc. for the four applications from the lighting proposal memo. The four spaces are the auditorium, the 60-capacity classroom on the fifth floor, the lobby, and the grassy plaza. Analysis of these spaces was started by using the IES handbook to investigate design criteria. Luminaires were placed into schedules and light loss factors were calculated for the different fixtures. The drawings were included with the location of furnishings and other relevant items for the redesign of these spaces. The lighting design program, AGI 32, calculated the average illuminances of the walls and floor and provided renderings and pseudo color displays. After all research was finished, the material was positioned into a well-organized report.

The variety of different spaces allowed the different challenges of the lighting design to be realized. A couple examples include visual display terminal placement and lighting with no reflected glare, daylighting integration with the 60-capacity classroom and the lobby, and the placement of the luminaires to provide an aesthetically pleasing space. The auditorium and the classroom require different control devices for the various scenes applied in the spaces.

During the analysis, different aspects of the spaces and lighting design have helped to provide an efficient understanding of the existing lighting systems. The investigation of the four redesign areas (auditorium, classroom, lobby, and plaza) has provided the information to obtain a few ideas of a better design for the spaces.