

Tech Assignment #1

The following Lighting and Existing Conditions and Design Criteria Report examines the current general lighting system throughout the entire building and specific lighting system components within the main lobby, multi-purpose room, and registration, while briefly discussing possible exterior considerations.



After analyzing the current lighting conditions and examining photographs taken onsite, the design is adequate for the various tasks needed. But, it was determined there is room for improvements and upgrades to the current design in terms of lighting aesthetics and power consumption.

While the main lobby is lit more than adequately and meets ASHRAE 90.1 standards for power consumption, fixture types and placement could be improved to optimize the architectural features in the space. Although the multi-purpose room is adequately lit, power density was too high for ASHRAE 90.1 standards and could be lowered. Even though lighting controls were flexible and suit the function of the space, a few spot fixtures strategically placed could increase the usability of the space to become more versatile. The registration area was well lit for its task and fixtures were chosen properly for the space. However, power density was too high and fixtures could be located and mounted better to take full advantage of the space geometry.

When considering redesign, all spaces must not only improve lighting aesthetics and controls, but maintain power density levels at or below the ASHRAE 90.1 standards.