

**EXERCISE: ILLUMINATION**NAME Jordan Hillier

Using one of the light meters on reserve in the Fine Arts Library make the following measurements.

1. Take the following measurements in a room on or near campus (not in Meyerson) to which you have easy access (classroom, coffeshop, your apartment, etc.).

Measure the horizontal Illuminance two times during the day and once after dark (you can calculate the amount of daylight if the same lights are on for both measurements by subtracting the nighttime measurement from the daytime one).

Measure the horizontal illuminance outdoors at the same time as the daytime measurement.

Take a photograph of the light conditions and add your evaluation of the light level: **too low, low, enough, high, too high**

Room Name: Architectural Archives Main Display Room

Time 1. <u>11:00 am</u>	Indoor Illuminance (FC)	<u>54.7</u>	
	Outdoor Illuminance (FC)	<u>4,350</u>	
	Evaluation	The outdoor illuminance at this time was very strong, as the exterior of the room was receiving direct sunlight. The interior illuminance still appeared relatively low in comparison to the exterior. While there were lights on in the room, I believe that the illumination from the window at that hour would have been enough to illuminate the room without additional lighting.	
Time 2. <u>2:00 pm</u>	Indoor illuminance (FC)	<u>31.1</u>	
	Outdoor Illuminance (FC)	<u>2,115</u>	
	Evaluation	The was no longer direct sunlight shining into the room, which decreased the indoor illuminance by almost half. While this is reasonable considering the use of the room, in general I would categorize this as a low lit space because it would rely on artificial light for the majority of the day in order to be occupied.	
Nighttime. <u>5:00 pm</u>	Indoor illuminance (FC)	<u>7.3</u>	
	Outdoor Illuminance (FC)	<u>2.2</u>	
	Evaluation	Despite the interior being well lit by artificial lights after the sun had set, the illuminance was still low. I think that this could have to do in part with the type of lighting used throughout the interior of the space. The windows now played an opposite role. While previously the about of illuminance in the room would increase when nearing a window, openings now became dark holes draining the light from the room. The outdoor illuminance reflected this with a low illuminance of 2.2, despite the street lights and ambient light from the city and HUP.	

Photos

