Outdoor Courtyard Lighting

Introduction

The outdoor courtyard is located in the southwest side of the Bahen Centre. The courtyard features a large patio area, grass lawn, and three large-scale concrete cylindrical sculptures and a natural water fountain system. It is a large area for students to congregate that could be created into a main center of attention of the building. It is one of the true focuses of the entire Bahen Centre area because it is the one area that more than half of the building has a view of this space through their windows.

Figure 7.1 - Ground floor plan of the Bahen Centre, showing the location of the Outdoor Courtyard in relation to the rest of the building
Design Goal

- To attract attention to the water feature (cylinders)
- To provide sufficient illuminance for the space so it is a safe environment
- To direct movement through the courtyard

Design Criteria

- Provide sufficient illuminance on the ground so it is a safe area to walk in
- Target illuminance
  - Horizontal 0.5 fc
  - Vertical 0.2 fc

Figure 7.2 - Outdoor Courtyard Plan View
Design Concept

- To use steplights throughout the surfaces of the water troughs in the courtyard to provide low level lighting that is close to the ground (See Figure 7.3).

- To light the cylindrical silos from the inside with LED’s, where the light is “glowing” out of the slots. LED fixtures to be programmed with changing color sequencing (See Figure 7.4)

Figure 7.3 - Similar application of steplights

Figure 7.4 - Sketch of LED fixture in silo concept
Table 7.1 - Lighting Fixture Schedule for the Outdoor Courtyard

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Luminaire</th>
<th>Type</th>
<th>Mounting</th>
<th>Photometric Web</th>
<th># lamps &amp; Wattage</th>
<th>Lamp type</th>
<th>LLF</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL1</td>
<td>ERCO Visor Floor Washlight</td>
<td>Wall mounted compact fluorescent steplight</td>
<td>Recessed Wall</td>
<td></td>
<td>1 x 18</td>
<td>G24q-2</td>
<td>0.713</td>
</tr>
<tr>
<td>LED1</td>
<td>Color Kinetics Colorbust 6, Surface Mounted Wallwasher (LED)</td>
<td></td>
<td>Wall mounted</td>
<td></td>
<td>N/A</td>
<td>N/A</td>
<td>LED</td>
</tr>
<tr>
<td>LED2</td>
<td>ERCO LED Orientation Luminaires</td>
<td>In ground LED Luminaires</td>
<td>In-ground</td>
<td></td>
<td>N/A</td>
<td>N/A</td>
<td>LED</td>
</tr>
</tbody>
</table>