1 Exterior Lighting
1.1 Exterior lighting fixtures on Purdue’s campus
    are primarily limited to the historic “gothic” style at
    campus pedestrian areas, and “shoebox” fixtures at
    parking lots, along roadways, and at the
    contemporary areas of campus.

    Note: In an effort to provide a more sustainable and
    energy efficient campus, we have decided to move
    from the traditional HPS light source, found
    throughout campus, to LED.

1.2 Color temperature is not to exceed 5100°K.

1.3 All fixture choices (style and source types) are
    to be approved by the Director of Campus Master
    Planning and Sustainability.

2 Photometrics

2.1 Provide point by point photometrics for the
    exterior lighting design. Include the light loss factor
    used, maximum levels, minimum levels, average
    levels and average uniformity ratio as described
    below. The photometrics should be provided at the
    DD drawing review level as well as the FRCD review
    level.

3 Requirements for concrete pole bases
3.1 Ground rods are not required in pole bases.
3.2 Concrete pole bases in parking areas are to
    be set on concrete bases 3'-0” above finished grade.
3.3 Concrete pole bases in green spaces are to
    be 2” above finished grade.
3.4 Conduits in concrete bases to be either RGS
    or fiberglass.
3.5 Buried conduit to be PVC.
3.6 Each base is to have a spare conduit (1” min.)
    stubbed into adjacent green space

4 Parking, Roadway, and Area Lighting
4.1 Parking, roadway, and area lighting fixtures
    should conform to the criteria listed in the table,
    below.

4.2 New installations typically utilize LED light
    sources.
4.3 Area lighting refers to building site, walkway,
    and open space lighting.
4.4 Bollards are discouraged because they do not
    illuminate the facial features of oncoming
    pedestrians. They can be used in some special
    circumstances, but each case must be approved
    individually by the Director of Campus Master
    Planning and Sustainability.

5 Landscape Lighting
5.1 In general, decorative landscape lighting is to
    be avoided.
5.2 Approval must come from the Director of
    Campus Master Planning and Sustainability.

5.4 Lenses are to be acrylic. Polycarbonate is
    prohibited.
### Table of Lighting Requirements

<table>
<thead>
<tr>
<th></th>
<th>Pole</th>
<th>Light</th>
<th>Light Level</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Traditional Campus</strong></td>
<td><strong>Pedestrian Area Lighting</strong></td>
<td>Sternberg Catalog #9312-TO, color gloss black</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sternberg 1335 LED Revere, Catalog #1335/PT/4A1R45T3/CTA/TEK-BK, color gloss black</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td><strong>Parking Lots</strong></td>
<td>Square pole, 30' tall, color dark bronze</td>
<td>Lithonia CSX1-LED, color dark bronze</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td><strong>Roadway</strong></td>
<td>Square pole, 30' tall, color dark bronze</td>
<td>Lithonia CSX1-LED, color dark bronze</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td><strong>Crosswalk</strong></td>
<td>Square pole, 30' tall, color dark bronze</td>
<td>Lithonia CSX1-LED, color dark bronze</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td><strong>Contemporary Campus</strong></td>
<td><strong>Pedestrian Area Lighting</strong></td>
<td>Square pole, 14' tall, color platinum silver</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td></td>
<td></td>
<td>KIM Entablature Standard LED, color platinum silver</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td><strong>Parking Lots</strong></td>
<td>Square pole, 30' tall, color platinum silver</td>
<td>KIM Entablature Standard LED, color platinum silver</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td><strong>Roadway</strong></td>
<td>Square pole, 30' tall, color dark bronze</td>
<td>Lithonia CSX1-LED, color dark bronze</td>
<td>Average lighting level is to be 1 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td><strong>Crosswalk</strong></td>
<td>Square pole, 30' tall, color dark bronze</td>
<td>Lithonia CSX1-LED, color dark bronze</td>
<td>Average lighting level is to be 2 fc with an average uniformity ratio of 4.0 ($E_{avg}/E_{min}$) measured at the pavement</td>
</tr>
<tr>
<td>Perimeter Parkway</td>
<td>Roadway</td>
<td>Valmont 26'-6&quot; Aluminum Pole w/ 5'-0&quot; and 3'-0&quot; Mast Arms, color dark bronze</td>
<td>GE Evolve LED Series ERMC, color dark bronze</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------</td>
<td>-----------------------------------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Garages</td>
<td></td>
<td>LED with a combination of bi-level (occupancy sensor) and photocell controls.</td>
<td>Average lighting level is to be 5 fc when occupied and not less than 1 fc average when unoccupied.</td>
</tr>
</tbody>
</table>

**Notes:**

*Deviations from the above table are to be approved by the Director of Campus Master Planning and Sustainability.*

*“Traditional Campus” includes most of the West Lafayette campus*

*“Contemporary Campus” includes Discovery Park and a pedestrian mall between Jischke Drive and the Agricultural and Biological Engineering Building*

\[ E_{avg} \] – *minimum maintained average horizontal illuminance at pavement*

\[ E_{min} \] – *minimum horizontal illuminance at pavement*