2022 Denver Green Code
Explanatory Video Series

CE24: Exterior Lighting Power Densities (LPDs)

Community Planning & Development
Office of Climate Action, Sustainability and Resiliency
Why is this a priority in Denver?

• Reduced exterior lighting power densities reduces lighting energy consumption and associated costs
• Additionally, light pollution may be reduced, lessening adverse impacts on animals and insects
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Project Requirements

• Reduce the exterior lighting power allowance from DEC Section C405.5.2 or ASHRAE 90.1 Section 9.4.2 by the factors in table below (based on lighting zone)
  – Total connected exterior lighting power per DEC Section C405.5.1 or ASHRAE 90.1 Section 9.1.3

<table>
<thead>
<tr>
<th>Lighting Power Allowance Factors</th>
<th>Lighting Zone</th>
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</thead>
<tbody>
<tr>
<td>Exterior Location</td>
<td>LZ0</td>
</tr>
<tr>
<td>Tradable area, uncovered parking area: measured SRI &lt;29 or no SRI measurement</td>
<td>N/A</td>
</tr>
<tr>
<td>Tradable area, uncovered parking area: new concrete w/o added color pigment or measured SRI &gt;29</td>
<td>N/A</td>
</tr>
<tr>
<td>Tradable areas, other</td>
<td>1.0</td>
</tr>
<tr>
<td>Nontradable areas</td>
<td>1.0</td>
</tr>
</tbody>
</table>
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### Submittal Requirements

<table>
<thead>
<tr>
<th>Phase</th>
<th>What’s required?</th>
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| Permit | • Submit completed DGC LMU and DEC Checklists  
• Provide calculations for exterior lighting power allowance using appropriate lighting power allowance factors from DGC  
• Submit design documents that include lighting fixture schedules, exterior and/or site lighting plans, and total connected exterior lighting power calculations |
Where can I learn more?

Visit Denvergov.org/GreenCode to:

• Link to the 2022 Denver Green Code
  • Download the DGC Checklists
  • Watch other videos in this series
  • Register for DGC Virtual Office Hours
  • Find additional resources for your project

Denver Energy Code links: Code & Policies | Checklists | Resources & Trainings

For Green Buildings Ordinance, visit Denvergov.org/GreenRoofs