



**BSR/ASHRAE/IES Addendum ab  
to ANSI/ASHRAE/IES Standard 90.1-2022**

**Public Review Draft**

# **Proposed Addendum ab to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low- Rise Residential Buildings**

**First Public Review (July 2024)  
(Draft Shows Proposed Changes to Current Standard)**

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**(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## FOREWORD

*The Illuminating Engineering Society has revised the definitions and names of lighting zones. This addendum changes the names and definitions of the lighting zones to match new definitions/terms to match the lighting industry guidance in RP-43.*

*The lighting power density (LPD) values change as follows:*

- *Some areas now have a value for LZ0, this change is consistent with the new guidance by the lighting industry.*
- *Many areas experienced a reduction of 15%. This reduction is a combination change in design practice (lamp lumen depreciation shifting from 0.85 to 0.90), increase in device efficacy, as well as a change in luminaire dirt depreciation.*
- *A few areas reduced by 20% (the 15% explained above the second 5% from a realignment in design).*
- *Dining areas reduced by 50%, this is a realignment in design. The LPD for dining areas LZ4 (dense urban) should be less than the LPD for interior dining.*

*The scope of the outdoor lighting efficiency standards changed to allow various outdoor lighting applications to be covered regardless of whether the outdoor lighting application was connected to a building.*

*The added exception 4 to Section 9.1.1.1 makes it clear that the scope of the lighting requirements do not apply to public roadways. Thus the “drives” in uncovered parking areas do not apply to public roadways.*

*Cost effectiveness analysis is not required for this addendum. These values were developed based on changes in design practice and coupled with market available technology.*

***[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]***

## Addendum ab to 90.1-2022

Modify the exceptions to Section 9.1.1.1 as follows

### 9.1.1 Scope

**9.1.1.1 New Building or Site System or Equipment.** Lighting *equipment* and *systems* serving the lighting needs of new *buildings* or new *site systems* and *equipment* shall comply with the requirements of this section as described in Section 9.2.

This section shall apply to the following:

- a. Lighting *equipment* and *systems* serving interior *spaces* of *buildings*.
- b. Lighting *equipment* and *systems* serving exterior applications.

#### **Exceptions to 9.1.1.1:**

1. Emergency lighting that is *automatically* off during normal operation.
2. Lighting, including exit signs, that is specifically designated as required by a health or life safety statute, ordinance, or regulation.
3. Decorative gas *lighting systems*.
4. Lighting for public streets, roadways, highways and traffic signage lighting, including lighting for driveway entrances occurring in the public right-of-way

Modify the definitions of Exterior Lighting Zones in Table 9.5.3-1 as follows:

**9.5.3 Exterior Lighting Power.** The total *exterior lighting power allowance* for all exterior applications is the sum of the base *site* allowance and all the individual allowances that are designed to be illuminated and are permitted in Table 9.5.3-2 for the applicable lighting zone in Table 9.5.3-1. The *installed exterior lighting power* identified in accordance with Section 9.1.3 shall not exceed the *exterior lighting power allowance* developed in accordance with this section. Trade-offs are allowed only among exterior lighting applications listed in the Table 9.5.3-2 “Tradable Surfaces” section. The lighting zone for exterior applications is determined from Table 9.5.3-1 unless otherwise specified by the local jurisdiction.

**Table 9.5.3-1 Exterior Lighting Zones**

Lighting Zone	Description
0	<p><b><u>Agricultural and other uses in rural areas.</u></b></p> <p>Undeveloped areas within national parks, state parks, forest land, rural areas, and other undeveloped areas as defined by the <i>authority having jurisdiction</i>.</p> <p><u>Amenity areas such as visitor centers or lodges within or adjacent to wilderness, natural parks, protected wildlife areas, and areas surrounding observatories. Municipal parks within or adjacent to LZ1.</u></p>
1	<p><b><u>Moderate density and low-activity development</u></b></p> <p>Developed areas of national parks, state parks, forest land, and rural areas</p> <p><u>Moderate-density single-family and multi-family residential in suburban or urban areas. Low-activity institutional, commercial, and light industrial areas. Municipal parks within or adjacent to LZ2.</u></p>
2	<p><b><u>Moderate-activity commercial corridors and suburban town centers.</u></b></p> <p><u>Areas predominantly consisting of residential zoning, neighborhood business districts, light industrial with limited nighttime use and residential mixed use areas</u></p> <p><u>Moderate-activity institutional and industrial uses in suburban or urban areas. Urban parks and university campuses within or adjacent to LZ3.</u></p>

	<u>High-density single-family and multi-family residential areas adjacent to LZ3.</u>
3	<p><b><u>High-activity urban commercial corridors and central business districts.</u></b></p> <p>All other areas</p> <p><u>Urban hospitality and entertainment districts, convention centers, and sports arenas. Heavy industrial areas and visitor-sides of large volume airport and transportation facilities.</u></p>
4	<p><b><u>Very high-activity urban entertainment, hospitality and retail areas.</u></b></p> <p>High activity commercial districts in major metropolitan areas as designated by the local jurisdiction</p> <p><u>Designated by the local land use planning authority.</u></p>

**Table 9.5.3-2 Individual Lighting Power Densities for Building Exteriors Applications**

	<b>Zone 0 (Agriculture/ Rural)</b>	<b>Zone 1 (Moderate density)</b>	<b>Zone 2 (Moderate Commercial)</b>	<b>Zone 3 (High-Activity Urban Corridor)</b>	<b>Zone 4 (Very-high activity urban)</b>	<b>Section 9.4.1.4 Required Controls</b>
<b>Base Site Allowance</b> (Base allowance may be used in tradable or non-tradable surfaces.)						
	— 40 W	<u>135</u> 160 W	<u>240</u> 280 W	<u>340</u> 400 W	<u>475</u> 560 W	
<b>Tradable Surfaces</b> (LPD for uncovered parking areas, building grounds, building entrances, exits and loading docks, canopies and overhangs, and outdoor sales areas may be traded.)						
<b>Uncovered Exterior Parking Areas (Including areas under canopies)</b>						
Parking areas and drives	— 0.006 W/ft <sup>2</sup>	<u>0.013</u> 0.015 W/ft <sup>2</sup>	<u>0.022</u> 0.026 W/ft <sup>2</sup>	<u>0.031</u> 0.037 W/ft <sup>2</sup>	<u>0.042</u> 0.052 W/ft <sup>2</sup>	(b) and either (d) or (e)
Parking areas and drives with <i>luminaires</i> >78W and mounting height <24 ft	— 0.006 W/ft <sup>2</sup>	<u>0.013</u> 0.015 W/ft <sup>2</sup>	<u>0.022</u> 0.026 W/ft <sup>2</sup>	<u>0.031</u> 0.037 W/ft <sup>2</sup>	<u>0.042</u> 0.052 W/ft <sup>2</sup>	(b) and (c)
<b>Grounds</b>						
Walkways/ramps	— 0.14 W/linear ft	<u>0.43</u> 0.5 W/linear ft	<u>0.43</u> 0.5 W/linear ft	<u>0.47</u> 0.55 W/linear ft	<u>0.51</u> 0.60 W/linear ft	(b) and either (d) or (e)
Plaza areas	— 0.008 W/ft <sup>2</sup>	<u>0.024</u> 0.028 W/ft <sup>2</sup>	<u>0.042</u> 0.049 W/ft <sup>2</sup>	<u>0.060</u> 0.070 W/ft <sup>2</sup>	<u>0.083</u> 0.098 W/ft <sup>2</sup>	(b) and either (d) or (e)
Roof terraces and special features	— 0.011 W/ft <sup>2</sup>	<u>0.034</u> 0.04 W/ft <sup>2</sup>	<u>0.060</u> 0.07 W/ft <sup>2</sup>	<u>0.085</u> 0.10 W/ft <sup>2</sup>	<u>0.120</u> 0.140 W/ft <sup>2</sup>	(b) and either (d) or (e)
Dining areas	— 0.026 W/ft <sup>2</sup>	<u>0.069</u> 0.156 W/ft <sup>2</sup>	<u>0.137</u> 0.273 W/ft <sup>2</sup>	<u>0.276</u> 0.390 W/ft <sup>2</sup>	<u>0.350</u> 0.546 W/ft <sup>2</sup>	(b) and either (d) or (e)
Pedestrian tunnels	—	<u>0.054</u> 0.063 W/ft <sup>2</sup>	<u>0.094</u> 0.110 W/ft <sup>2</sup>	<u>0.133</u> 0.157 W/ft <sup>2</sup>	<u>0.187</u> 0.220 W/ft <sup>2</sup>	(d) or (e)
Landscaping	—	<u>0.012</u> 0.014 W/ft <sup>2</sup>	<u>0.021</u> 0.025 W/ft <sup>2</sup>	<u>0.031</u> 0.036 W/ft <sup>2</sup>	<u>0.043</u> 0.050 W/ft <sup>2</sup>	(b) and (c)
<b>Building Entrances, Exits, and Loading Docks</b>						
Pedestrian and vehicular entrances and exits	— 1.57 W/linear ft of opening	<u>4.8</u> 5.6 W/linear ft of opening	<u>8.3</u> 9.8 W/linear ft of opening	<u>11.9</u> 14.0 W/linear ft of opening	<u>16.6</u> 19.6 W/linear ft of opening	(b) and either (d) or (e)
Entry canopies	— 0.020 W/ft <sup>2</sup>	<u>0.061</u> 0.072 W/ft <sup>2</sup>	<u>0.107</u> 0.126 W/ft <sup>2</sup>	<u>0.153</u> 0.180 W/ft <sup>2</sup>	<u>0.214</u> 0.252 W/ft <sup>2</sup>	(b) and either (d) or (e)
Loading docks	—	<u>0.088</u> 0.104 W/ft <sup>2</sup>	<u>0.155</u> 0.182 W/ft <sup>2</sup>	<u>0.221</u> 0.260 W/ft <sup>2</sup>	<u>0.309</u> 0.364 W/ft <sup>2</sup>	(b) and either (d) or (e)
<b>Sales Canopies</b>						
<del>Sales Canopies</del> Free standing and attached	—	<u>0.10</u> 0.20 W/ft <sup>2</sup>	<u>0.18</u> 0.35 W/ft <sup>2</sup>	<u>0.25</u> 0.50 W/ft <sup>2</sup>	<u>0.35</u> 0.70 W/ft <sup>2</sup>	(b) and either (d) or (e)
<b>Outdoor Sales</b>						
Open areas (including vehicle sales lots)	—	<u>0.061</u> 0.072 W/ft <sup>2</sup>	<u>0.107</u> 0.126 W/ft <sup>2</sup>	<u>0.153</u> 0.180 W/ft <sup>2</sup>	<u>0.214</u> 0.252 W/ft <sup>2</sup>	(b) and either (d) or (e)
Street frontage for vehicle sales lots in addition to “open area” allowance	—	—	<u>6.1</u> 7.2 W/linear ft	<u>8.8</u> 10.3 W/linear ft	<u>12.2</u> 14.4 W/linear ft	(b) and either (d) or (e)
<b>Informative Note:</b> a parking garage/ramp/structure is an <i>enclosed space</i> . See the interior table for parking garages/ramp/structure. Top floor of a parking garage/ramp/structure is not an <i>enclosed space</i> .						

**Nontradable Surfaces**

(LPD for the following applications can be used only for the specific application and cannot be traded between surfaces or with other exterior lighting. The following allowances are in addition to any allowance otherwise permitted in the “Tradable Surfaces” section of this table.)

Stairways	Exempt	Exempt	Exempt	Exempt	Exempt	(b)
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**Table 9.5.3-2 Individual Lighting Power Densities for Building Exteriors Applications (Continued)**

	<b>Zone 0 (Agriculture/ Rural)</b>	<b>Zone 1 (Moderate density)</b>	<b>Zone 2 (Moderate Commercial)</b>	<b>Zone 3 (High-Activity Urban Corridor)</b>	<b>Zone 4 (Very-high activity urban)</b>	<b>Section 9.4.1.4 Required Controls</b>
<i>Building facades</i> (The allowance for each illuminated facade <i>orientation</i> shall be calculated by multiplying the allowable value by the entire <i>facade area</i> or facades length for that <i>orientation</i> .)	—	<u>0.048</u> 0.056 /ft <sup>2</sup> of <i>facade area</i> or <u>1.19</u> 1.4 W/linear ft of facade length	<u>0.083</u> 0.098 W/ft <sup>2</sup> of <i>facade area</i> or <u>2.04</u> 2.4 W/linear ft of facade length	<u>0.119</u> 0.140 W/ft <sup>2</sup> of <i>facade area</i> or <u>2.89</u> 3.4 W/ linear ft of facade length	<u>0.167</u> 0.196 W/ft <sup>2</sup> of <i>facade area</i> or <u>4.08</u> 4.8 W/linear ft of facade length	(b) and (c)
Automated teller machines and night depositories	—	<u>80</u> 90 W per location plus 35 W per additional ATM per location	<u>80</u> 90 W per location plus 35 W per additional ATM per location	<u>80</u> 90 W per location plus 35 W per additional ATM per location	<u>80</u> 90 W per location plus 35 W per additional ATM per location	(b)
Uncovered entrances and gatehouse inspection stations at guarded facilities	—	<u>0.115</u> 0.144 W/ft <sup>2</sup>	<u>0.202</u> 0.252 W/ft <sup>2</sup>	<u>0.288</u> 0.360 W/ft <sup>2</sup>	<u>0.403</u> 0.504 W/ft <sup>2</sup>	(b) and either (d) or (e)
Uncovered loading areas for law enforcement, fire, ambulance, and other emergency service vehicles	—	<u>0.088</u> 0.104 W/ft <sup>2</sup>	<u>0.155</u> 0.182 W/ft <sup>2</sup>	<u>0.221</u> 0.260 W/ft <sup>2</sup>	<u>0.309</u> 0.364 W/ft <sup>2</sup>	(b) and either (d) or (e)
Drive-through windows/doors	—	<u>42</u> 53 W per drive-through	<u>74</u> 92 W per drive-through	<u>106</u> 132 W per drive-through	<u>148</u> 185 W per drive-through	(b) and either (d) or (e)
Parking near 24-hour retail entrances	—	<u>64</u> 80 W per main entry	<u>112</u> 140 W per main entry	<u>160</u> 200 W per main entry	<u>224</u> 280 W per main entry	(b) and either (d) or (e)
For areas that are not listed in this table or are not comparable to areas listed in this table, use the comparable interior <i>space</i> type from Tables 9.5.2.1-1 and 9.5.2.1-2 as modified by factors in this row.	—	<u>10</u> 22% of the interior lighting power density value	<u>25</u> 39% of the interior lighting power density value	<u>40</u> 55% of the interior lighting power density value	<u>50</u> 77% of the interior lighting power density value	(b) and either (d) or (e)
Roadway/parking entry, trail head, and toilet facility, or other locations approved by the authority having jurisdiction.	A single luminaire of 10 W or less	—	—	—	—	(b) and either (d) or (e)

**Table 9.5.3-2 Individual Lighting Power Densities for Building Exteriors Applications** SI VERSION

	<b>Zone 0 (Agriculture/ Rural)</b>	<b>Zone 1 (Moderate density)</b>	<b>Zone 2 (Moderate Commercial)</b>	<b>Zone 3 (High-Activity Urban Corridor)</b>	<b>Zone 4 (Very-high activity urban)</b>	<b>Section 9.4.1.4 Required Controls</b>
<b>Base Site Allowance</b> (Base allowance may be used in tradable or non-tradable surfaces.)						
	— 40 W	<u>135</u> 160 W	<u>240</u> 280 W	<u>340</u> 400 W	<u>475</u> 560 W	
<b>Tradable Surfaces</b> (LPD for uncovered parking areas, building grounds, building entrances, exits and loading docks, canopies and overhangs, and outdoor sales areas may be traded.)						
<b>Uncovered Exterior Parking Areas (Including areas under canopies)</b>						
Parking areas and drives	— 0.046 W/m <sup>2</sup>	<u>0.140</u> 0.161 W/m <sup>2</sup>	<u>0.237</u> 0.280 W/m <sup>2</sup>	<u>0.334</u> 0.398 W/m <sup>2</sup>	<u>0.473</u> 0.560 W/m <sup>2</sup>	(b) and either (d) or (e)
Parking areas and drives with <i>luminaires</i> >78W and mounting height <24 ft	— 0.046 W/m <sup>2</sup>	<u>0.140</u> 0.161 W/m <sup>2</sup>	<u>0.237</u> 0.280 W/m <sup>2</sup>	<u>0.334</u> 0.398 W/m <sup>2</sup>	<u>0.473</u> 0.560 W/m <sup>2</sup>	(b) and (e)
<b>Grounds</b>						
Walkways/ramps	— 0.5 W/linear m	<u>1.4</u> 1.6 W/linear m	<u>1.4</u> 1.6 W/linear m	<u>1.8</u> 1.8 W/linear m	<u>2.0</u> 2.0 W/linear m	(b) and either (d) or (e)
Plaza areas	— 0.085 W/m <sup>2</sup>	<u>0.256</u> 0.301 W/m <sup>2</sup>	<u>0.448</u> 0.527 W/m <sup>2</sup>	<u>0.640</u> 0.753 W/m <sup>2</sup>	<u>0.896</u> 1.054 W/m <sup>2</sup>	(b) and either (d) or (e)
Roof terraces and special features	— 0.121 W/ W/m <sup>2</sup>	<u>0.336</u> 0.430 W/m <sup>2</sup>	<u>0.640</u> 0.753 W/ W/m <sup>2</sup>	<u>0.915</u> 1.08 W/ W/m <sup>2</sup>	<u>1.28</u> 1.51 W/ W/m <sup>2</sup>	(b) and either (d) or (e)
Dining areas	— 0.245 W/m <sup>2</sup>	<u>0.742</u> 1.68 W/m <sup>2</sup>	<u>1.47</u> 2.94 W/m <sup>2</sup>	<u>2.97</u> 4.20 W/m <sup>2</sup>	<u>3.77</u> 5.88 W/m <sup>2</sup>	(b) and either (d) or (e)
Pedestrian tunnels	—	<u>0.576</u> 0.678 W/m <sup>2</sup>	<u>1.01</u> 1.18 W/m <sup>2</sup>	<u>1.43</u> 1.69 W/m <sup>2</sup>	<u>2.01</u> 2.37 W/m <sup>2</sup>	(d) or (e)
Landscaping	—	<u>0.128</u> 0.151 W/m <sup>2</sup>	<u>0.229</u> 0.269 W/m <sup>2</sup>	<u>0.329</u> 0.387 W/m <sup>2</sup>	<u>0.457</u> 0.538 W/m <sup>2</sup>	(b) and (c)
<b>Building Entrances, Exits, and Loading Docks</b>						
Pedestrian and vehicular entrances and exits	— 5.2 W/linear m of opening	<u>15.6</u> 18.4 W/linear m of opening	<u>27.3</u> 32.1 W/linear m of opening	<u>39.0</u> 45.9 W/linear m of opening	<u>54.6</u> 64.3 W/linear m of opening	(b) and either (d) or (e)
Entry canopies	— 0.020 W/m <sup>2</sup>	<u>0.061</u> 0.78 W/ m <sup>2</sup>	<u>0.107</u> 1.36 W/ m <sup>2</sup>	<u>0.153</u> 1.94 W/ m <sup>2</sup>	<u>0.214</u> 2.71 W/ m <sup>2</sup>	(b) and either (d) or (e)
Loading docks	—	<u>0.951</u> 1.12 W/m <sup>2</sup>	<u>1.67</u> 1.96 W/m <sup>2</sup>	<u>2.38</u> 2.80 W/m <sup>2</sup>	<u>3.32</u> 3.92 W/m <sup>2</sup>	(b) and either (d) or (e)
<b>Sales Canopies</b>						
<del>Sales Canopies</del> Free standing and attached	—	<u>1.08</u> 2.15 W/m <sup>2</sup>	<u>1.88</u> 3.77 W/m <sup>2</sup>	<u>2.69</u> 5.38 W/m <sup>2</sup>	<u>3.77</u> 7.53 W/m <sup>2</sup>	(b) and either (d) or (e)
<b>Outdoor Sales</b>						
Open areas (including vehicle sales lots)	—	<u>0.659</u> 0.775 W/m <sup>2</sup>	<u>1.15</u> 1.36 W/m <sup>2</sup>	<u>1.64</u> 1.94 W/m <sup>2</sup>	<u>2.31</u> 2.71 W/m <sup>2</sup>	(b) and either (d) or (e)
Street frontage for vehicle sales lots in addition to “open area” allowance	—	—	<u>7.2</u> 23.6 W/linear m	<u>10.3</u> 33.8 W/linear m	<u>14.4</u> 47.2 W/linear m	(b) and either (d) or (e)
<b>Informative Note:</b> a parking garage/ramp/structure is an <i>enclosed space</i> . See the interior table for parking garages/ramp/structure. Top floor of a parking garage/ramp/structure is not an <i>enclosed space</i> .						

**Nontradable Surfaces**

(LPD for the following applications can be used only for the specific application and cannot be traded between surfaces or with other exterior lighting. The following allowances are in addition to any allowance otherwise permitted in the “Tradable Surfaces” section of this table.)

Stairways	Exempt	Exempt	Exempt	Exempt	Exempt	(b)
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**Table 9.5.3-2 Individual Lighting Power Densities for Building Exteriors Applications (Continued)**

	<b>Zone 0 (Agriculture/ Rural)</b>	<b>Zone 1 (Moderate density)</b>	<b>Zone 2 (Moderate Commercial)</b>	<b>Zone 3 (High-Activity Urban Corridor)</b>	<b>Zone 4 (Very-high activity urban)</b>	<b>Section 9.4.1.4 Required Controls</b>
<i>Building facades</i> (The allowance for each illuminated facade <i>orientation</i> shall be calculated by multiplying the allowable value by the entire <i>facade area</i> or facades length for that <i>orientation</i> .)	—	<u>0.512</u> 0.603 /m <sup>2</sup> of <i>facade area</i> or <u>3.9</u> 4.6 W/linear m of facade length	<u>0.896</u> 1.05 W/ m <sup>2</sup> of <i>facade area</i> or <u>6.7</u> 7.9 W/linear m of facade length	<u>1.28</u> 1.51 W/ m <sup>2</sup> of <i>facade area</i> or <u>9.5</u> 11.2 W/ linear m of facade length	<u>1.79</u> 2.11 W/ m <sup>2</sup> of <i>facade area</i> or <u>13.4</u> 15.7 W/linear m of facade length	(b) and (c)
Automated teller machines and night depositories	—	<u>80</u> 90 W per location plus 35 W per additional ATM per location	<u>80</u> 90 W per location plus 35 W per additional ATM per location	<u>80</u> 90 W per location plus 35 W per additional ATM per location	<u>80</u> 90 W per location plus 35 W per additional ATM per location	(b)
Uncovered entrances and gatehouse inspection stations at guarded facilities	—	<u>1.24</u> 1.54 W/m <sup>2</sup>	<u>2.17</u> 2.71 W/m <sup>2</sup>	<u>3.10</u> 3.87 W/m <sup>2</sup>	<u>4.39</u> 5.42 W/m <sup>2</sup>	(b) and either (d) or (e)
Uncovered loading areas for law enforcement, fire, ambulance, and other emergency service vehicles	—	<u>0.951</u> 1.20 W/m <sup>2</sup>	<u>1.67</u> 1.96 W/m <sup>2</sup>	<u>2.38</u> 2.80 W/m <sup>2</sup>	<u>3.33</u> 3.92 W/m <sup>2</sup>	(b) and either (d) or (e)
Drive-through windows/doors	—	<u>42</u> 53 W per drive- through	<u>74</u> 92 W per drive- through	<u>106</u> 132 W per drive- through	<u>148</u> 185 W per drive- through	(b) and either (d) or (e)
Parking near 24-hour retail entrances	—	<u>64</u> 80 W per main entry	<u>112</u> 140 W per main entry	<u>160</u> 200 W per main entry	<u>224</u> 280 W per main entry	(b) and either (d) or (e)
For areas that are not listed in this table or are not comparable to areas listed in this table, use the comparable interior <i>space</i> type from Tables 9.5.2.1-1 and 9.5.2.1-2 as modified by factors in this row.	—	<u>10</u> 22% of the <i>interior lighting power density</i> value	<u>25</u> 39% of the <i>interior lighting power density</i> value	<u>40</u> 55% of the <i>interior lighting power density</i> value	<u>50</u> 77% of the <i>interior lighting power density</i> value	(b) and either (d) or (e)
Roadway/parking entry, trail head, and toilet facility, or other locations approved by the <i>authority having jurisdiction</i> .	A single <i>luminaire</i> of 10 W or less	—	—	—	—	(b) and either (d) or (e)