# ADDENDA

ANSI/ASHRAE/IES Addendum ba to ANSI/ASHRAE/IES Standard 90.1-2019

# Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on July 20, 2022; by the ASHRAE Board of Directors on August 15, 2022; by the Illuminating Engineering Society on September 8, 2022; and by the American National Standards Institute on September 9, 2022

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ISSN 1041-2336







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# FOREWORD

Addendum ba updates space-by-space lighting power density (LPD) values and interior control requirements in Section 9.4.1.1 and Table 9.5.2.1. Previously published Addendum ad renumbered Table 9.6.1 as Table 9.5.2.1. Addendum ba splits this table in two parts, Table 9.5.2.1-1 and Table 9.5.2.1-2, for common space types and building-specific space types, respectively, to simplify future updates.

Table G3.7 was modified to reflect changes to the space types and LPD values in Table 9.5.2.1. Addendum ba also splits this table in two parts, Table G3.7-1 and Table G3.7-2, for common space types and building-specific space types, respectively, to simplify future updates.

# **Control Changes**

- Some common space types have been moved and are now listed under building -specific space types, simplifying how they are organized in the table.
- Several new space types have been added to the table.
- Footnotes have been revised. Some are now incorporated into their related space types, and others are deleted where they no longer apply.
- Some space control requirements in Table 9.5.2 have been revised.
- Multilevel control with continuous dimming replaces the bilevel lighting control requirement (Section 9.4.1.1[d])). Similar provision for dimming has also been removed from Table 9.5.2.3, as it is no longer applicable.
- Office spaces larger than 300 ft<sup>2</sup> are now required to follow new restricted to automatic partial-ON requirements (Section 9.4.1.1[c]), new automatic reduction control requirements (renamed Section 9.4.1.1[g]), and "automatic full-OFF control requirements (Section 9.4.1.1[h]) within control zones limited to 600 ft<sup>2</sup>.

New requirements for multilevel control and for offices larger than 300 ft<sup>2</sup> have been determined to be cost effective in accordance with the ASHRAE SSPC 90.1 cost-effective scaler ratio methodology.

# LPD Changes

- Space-by-space LPD values have been updated based on improvements in efficacy (lumens per watt).
- The luminaire data set within the Standard 90.1 lighting model has been updated to account for changes in product specs and availability.
- On average, LPD values have been reduced by 4% to account for changes in technology.

More than 150 data sheets from more than 10 lighting manufacturers data sheets were compiled. The 2021 data sheets indicate increased efficacy as compared to products from 2018 and 2019. At least 2/3 of the data sheets compared were the same fixture from 2019 and 2021. For most of the directly tracked products, the efficacy of these fixtures increased in this time. Lighting conditions were modeled for each of the spaces using these 2021 efficacy values, and the resultant lighting power density values were these proposed values. There is no cost increase associated with these changes. The reduced lighting power density values are based on manufacturer data sheets. Manufacturers have improved the performance of their products and these values are based on their improvements.

# Other

Additional changes were made to the normative and informative references in Section 12 and Appendix E, respectively.

*Note:* In this addendum, changes to the current standard are indicated in the text by <u>underlining</u> (for additions) and <del>strikethrough</del> (for deletions) unless the instructions specifically mention some other means of indicating the changes.

# Addendum ba to Standard 90.1-2019

# Modify Section 9.4.1 as shown (I-P and SI).

**9.4.1 Lighting Control.** *Building* lighting *controls* shall be installed to meet the provisions of Sections 9.4.1.1, 9.4.1.2, 9.4.1.3, and 9.4.1.4.

**9.4.1.1 Interior Lighting Controls.** For each *space* in the *building*, all of the lighting *control* functions indicated in Table 9.5.2.1, for the appropriate *space* type in the first column, and as described below, shall be implemented. All *control* functions indicated as "REQ" are mandatory and shall be implemented. If a *space* type has *control* functions indicated as "ADD1," then at least one of those functions shall be implemented. If a *space* type has *control* functions indicated as "ADD2," then at least one of those functions shall be implemented. If a *space* type has *control* functions indicated as "ADD2," then at least one of those functions shall be implemented. If a *space* type has *control* functions indicated as "ADD2," then at least one of those functions shall be implemented. If a *space* type has *control* functions indicated as "ADD2," then at least one of those functions shall be implemented. For space types not listed, select a reasonably equivalent type.

If using the Space-by-Space Method, the *space* type used for determining *control* requirements shall be the same *space* type that is used for determining the *LPD* allowance.

- a. Local control: There shall be one or more *manual* lighting *controls* <u>device that provides ON and OFF control of all lighting</u> in the space that <u>controls</u> all of the lighting in the space. Each <u>control device</u> shall <u>control</u> an area (1) no larger than 2500 ft<sup>2</sup> (232 m<sup>2</sup>) if the space is ≤10,000 ft<sup>2</sup> (929 m<sup>2</sup>) and (2) no larger than 10,000 ft<sup>2</sup> (929 m<sup>2</sup>) otherwise. The device installed to comply with this provision shall be *readily* accessible and located so that the occupants can see the controlled lighting when using the *control* device.
  - **Exception to 9.4.1.1(a):** Remote location of this local *control device* or devices shall be permitted for reasons of safety or security when each remote *control device* has an indicator pilot light as part of or next to the *control device* and the *control device* light is clearly *labeled* to identify the controlled lighting.
- b. Restricted to *manual* ON: None of the lighting shall be automatically turned on.

**Exception to 9.4.1.1(b):** *Manual* ON is not required where *manual* ON operation of the *general lighting* would endanger the safety or security of the room or *building* occupants.

- c. Restricted to partial *automatic* ON: No more than 50% of the lighting power for the *general lighting* shall be allowed to be *automatically* turned on, and none of the remaining lighting shall be *automatically* turned on.
  - Offices greater than 300 ft<sup>2</sup> (28m<sup>2</sup>), shall have the following requirements:
  - <u>1.</u> <u>Control zones for general lighting shall be limited to 600 ft<sup>2</sup> (56 m<sup>2</sup>).</u>
  - 2. <u>Control zones for general lighting shall be permitted to automatically turn on, up to full power upon occupancy.</u>
  - 3. General lighting in other unoccupied *control* zones shall be permitted to *automatically* turn on to no more than 20 percent of full power.

**Exception to 9.4.1.1(c):** Lighting in open-plan office *spaces* shall be allowed to turn on *automatically* to more than 50%, provided the *control* zone is no larger than 600 ft<sup>2</sup> (56 m<sup>2</sup>).

- d. <u>Multilevel Bilevel lighting</u> control: The general lighting in the space shall be <u>manually</u> controlled so as to provide with continuous dimming to 10% or less of full lighting power in addition to full ON and full <u>OFF</u>, at least one intermediate step in lighting power or continuous dimming in addition to full ON and full OFF. At least one intermediate step shall be between 30% and 70% (inclusive) of full lighting power.
- e. Automatic daylight responsive controls for sidelighting: In any space where the combined input power of all *general lighting* completely or partially within the primary sidelighted areas is 75 W or greater, the *general lighting* in the primary sidelighted areas shall be controlled by photocontrols.

In any space where the combined input power of all *general lighting* completely or partially within the primary sidelighted area and secondary sidelighted area is 150 W or greater, the *general lighting* in the primary sidelighted area and secondary sidelighted area shall be controlled by photocontrols. *General lighting* in the secondary sidelighted area shall be controlled independently of the *general lighting* in the primary sidelighted area.

The *control system* shall have the following characteristics:

- 1. The calibration adjustment control shall be located no higher than 11 ft (3.4 m) above the finished *floor*. Calibration shall not require the physical presence of a person at the sensor while it is processing.
- 2. The photocontrol shall reduce electric lighting power in response to available daylight using continuous daylight dimming to 20% or less and OFF.

3. When an automatic <u>reduction partial OFF</u> control has reduced the lighting power to the unoccupied set point in accordance with Section 9.4.1(g), the daylight responsive control shall adjust the electric light in response to available daylight, but it shall not allow the lighting power to be above the unoccupied set point.

Exception to 9.4.1.1(e): The following areas are exempted from Section 9.4.1.1(e):

- 1. *Primary sidelighted areas* where the top of any existing adjacent structure or natural object is at least twice as high above the windows as its horizontal distance away from the windows.
- 2. Sidelighted areas where the total glazing area is less than 20 ft<sup>2</sup>  $(1.9 \text{ m}^2)$ .
- 3. Retail spaces.
- 43. Primary sidelighted areas adjacent to vertical fenestration that have external projections and no vertical fenestration above the external projection, where the external projection has a projection factor greater than 1.0 for north-oriented projections or where the external projection has a projection factor greater than 1.5 for all other orientations (see Figure 3.2-6).
- f. Automatic daylight responsive controls for toplighting: In any space where the combined input power for all *general lighting* completely or partially within daylight area under skylights and daylight area under roof monitors is 75 W or greater, *general lighting* in the daylight area shall be controlled by photocontrols. The control system shall have the following characteristics:
  - 1. The calibration adjustment control shall be located no higher than 11 ft (3.4 m) above the finished floor. Calibration shall not require the physical presence of a person at the sensor while it is processing.
  - 2. The photocontrol shall reduce electric lighting power in response to available daylight using continuous daylight dimming to 20% or less and OFF.
  - 3. When an *automatic* <u>reduction</u> <u>partial OFF</u> *control* has reduced the lighting power to the unoccupied set point in accordance with Section 9.4.1(g), the daylight responsive control shall adjust the electric light in response to available daylight, but it shall not allow the lighting power to be above the unoccupied set point.
  - 4. General lighting in overlapping toplighted and sidelighted daylight areas shall be controlled together with general lighting in the daylight area *under skylights* or *daylight area under roof monitors*.

Exception to 9.4.1.1(f): The following areas are exempted from Section 9.4.1.1(f):

- 1. *Daylight area under skylights* where it is documented that existing adjacent structures or natural objects block direct sunlight for more than 1500 daytime hours per year between 8 a.m. and 4 p.m.
- 2. *Daylight area under skylights* where the overall *skylight effective aperture* for the *enclosed space* is less than 0.006.
- 3. In each *space* within *buildings* in Climate Zone 8 where the input power of the *general lighting* within *daylight areas* is less than 200 W.
- g. Automatic partial OFF reduction control (full OFF complies): The general lighting power in the space shall be *automatically* reduced by at least 50% within 20 minutes of all occupants leaving the *space*.
  - In offices greater than 300 ft<sup>2</sup> (28m<sup>2</sup>), control zones for general lighting shall:
  - <u>1. be limited to  $600 \text{ ft}^2 (56 \text{ m}^2)$ .</u>
  - 2. *automatically* reduce *general lighting* by at least 80% of full power within 20 minutes of all occupants leaving a *control* zone
  - **Exception to 9.4.1.1(g):** This requirement does not have to be complied with in *spaces* that meet all four of the following requirements:
    - 1. The space has an installed LPD of no more than 0.80 W/ft<sup>2</sup> (8.6 W/m<sup>2</sup>).
    - 2. The space is lighted by HID lamp.
    - 3. The general lighting power in the space is automatically reduced by at least 30% within 20 minutes of all occupants leaving the space.
    - 4. Lighting load does not exceed 0.02 W/ft<sup>2</sup> (0.22 W/m<sup>2</sup>) multiplied by the gross lighted floor area of the building.
- h. Automatic full OFF <u>control</u>: All lighting in the <u>space</u>, including lighting connected to emergency circuits, shall be *automatically* shut off within 20 minutes of all occupants leaving the <u>space</u>. A <u>control</u> device meeting this requirement shall <u>control</u> no more than 5000 ft<sup>2</sup> (465 m<sup>2</sup>).

Exception to 9.4.1.1(h): The following lighting is not required to be *automatically* shut off:

1. General lighting and task lighting in shop and laboratory classrooms.

- 1. Lighting required for 24/7 continuous operation.
- 2. Lighting in spaces where patient care is rendered.

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- 23. General lighting and task lighting in spaces where automatic shutoff would endanger the safety or security of the room or building occupants.
- 3. Lighting required for 24/7 operation.
- 4. Lighting load not exceeding 0.02 W/ft<sup>2</sup> (0.22 W/m<sup>2</sup>) multiplied by the *gross lighted <u>floor</u> area* of the *building*.
- i. Scheduled shutoff: All lighting in the *space*, including lighting connected to emergency circuits, shall be *automatically* shut off during periods when the *space* is scheduled to be unoccupied using either (1) a time-of-day operated *control device* that *automatically* turns the lighting off at specific programmed times or (2) a signal from another *automatic control device* or alarm/security *system*. The *control device* or *system* shall provide independent *control* sequences that (1) *control* the lighting for an area of no more than 25,000 ft<sup>2</sup> (2323 m<sup>2</sup>), (2) include no more than one *floor*, and (3) shall be programmed to account for weekends and holidays. Any *manual control* installed to provide override of the scheduled shutoff *control* shall not turn the lighting on for more than two hours per activation during scheduled off periods and shall not *control* more than 5000 ft<sup>2</sup> (465 m<sup>2</sup>).

Exception to 9.4.1.1(i): The following lighting is not required to be on scheduled shutoff:

- 1. Lighting in spaces where lighting is required for 24/7 continuous operation.
- 2. Lighting in *spaces* where patient care is rendered.
- 3. <u>General lighting and task lighting Lighting</u> in spaces where automatic shutoff would endanger the safety or security of the room or building occupants.
- 4. Lighting load not exceeding 0.02 W/ft<sup>2</sup> (0.22 W/m<sup>2</sup>) multiplied by the *gross lighted floor area* of the *building*.
- j. Scheduled OFF during nonbusiness hours: Lighting shall be scheduled to provide automatic OFF control so that lights are turned off at the end of business hours, using either (1) a time-of-day operated *control device* that *automatically* turns the lighting off at specific programmed times or (2) a signal from another *automatic control device* or alarm/security system. Any manual control installed to provide override of the scheduled control shall not turn the lighting on for more than two hours per activation during scheduled off periods.

# Modify Table 9.5.2.1 as shown (I-P and SI).

Informative Note: This table <del>is divided into two sections; this</del> - <del> ärst section</del> covers <u>common</u> space types <del>that can be commonly</del> <u>vpically</u> found in multiple <i>building</i> types. <del>The second</del> <u>Table</u> <u>0.5.2.1-2 part of this table</u> covers <u>building-specific space</u> types <del>pace types that are</del> typically found in a single <i>building</i> type.			The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.											
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	<del>Restricted to</del> Manual ON <del>(See Section[b])</del>	Restricted to Partial Auto <i>matic</i> ON (See Section[e])	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	<del>. <i>Automatic</i></del> Daylight Respons <u>e<del>ive</del> <i>Controls for</i> Toplight<del>ing</del> (See Section[f]<sup>6</sup>)</u>	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{Full OFF</del> complies <del>]</del> )	Auto <del><i>matie</i> Full OFF <del>(See-</del> <del>Section[h])</del></del>	Scheduled Shutoff <del>(See Section[i])</del>			
Common <i>Space</i> Types <sup>4</sup> a	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> *	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e) <sup>be</sup></u>	<u>9.4.1.1(f) <sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)</u> <sup>h</sup>	<u>9.4.1.1(i)</u> *			
Atrium														
<20 ft in height	0.39 0.32	NA	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2			
≥20 ft and ≤40 ft in height	<del>0.48</del> <u>0.41</u>	NA	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
>40 ft in height	<del>0.60</del> <u>0.51</u>	11	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Audience Seating Area														
Auditorium	<del>0.61</del> <u>0.57</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Gymnasium	0.23	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Motion picture theater	0.27	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Penitentiary	<del>0.67</del>	4	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2			
Performing arts theater	<del>1.16</del> <u>1.10</u>	8	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Religious facility	<del>0.72</del>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Sports arena	0.33 0.27	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
All other audience seating areas	0.23	4	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2			

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2. In idth of the dor is less than & ft and

3. A "Facility for the Visually Impaired" is a with the light levels in ANSI/IES RP-28 a

e Section 9.6.2(b).

s referred to as a "Picking Are

onal 0.52 W/ft<sup>2</sup> shall be allow alv from the has ce of 0.43 W/ft2. The additional 0.52 W/ft2 allow shall not be used for any 7 An addit

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).
 b. Automatic daylight responsive controls are mandatory only if the space meets the requirements of the specified sections.

Informative Note: This table is divided into- first section covers <u>common</u> space types that <u>typically</u> found in multiple <i>building</i> types. I <u>9.5.2.1-2 part of this table</u> covers <u>building</u> s space types that are typically found in a single	<del>two sections t can be cor The second <u>]</u> pecific <i>space</i> gle <i>building</i></del>	<del>s; this nmonly</del> [ <u>able_</u> <u>2 types</u> type.	The control functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each space type:         (1) All REQs shall be implemented.         (2) At least one ADD1 (when present) shall be implemented.         (3) At least one ADD2 (when present) shall be implemented.         Automatic    Automatic											
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	<del>Restricted to</del> <i>Manual</i> ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel Multilevel Lighting Control (See Section[d])	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Sidelight <del>ing</del> (See Section[el <sup>6</sup> )	<i>Automatic</i> Daylight Respons <u>e<sup>ive</sup> <i>Controls for</i> Toplight<del>ing</del> (See Section[f]<sup>6</sup>)</u>	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Scetion[i])</del>			
Common Space Types <sup>1</sup> <sup>2</sup>	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>			
Banking Activity Area	0.61 0.56	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Classroom/Lecture Hall/Training Room														
Penitentiary	<del>0.89</del>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Shop classroom	<u>1.17</u>	<u>6</u>	REQ	ADD1	ADD1		<u>REQ</u>	<u>REQ</u>			<u>REQ</u>			
All other classrooms/lecture halls/training rooms	<del>0.71</del> <u>0.72</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Computer Room	<del>0.94</del> <u>0.75</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Conference/Meeting/Multipurpose Rooms	<del>0.97</del> <u>0.88</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Confinement Cells	<del>0.70</del>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Control/Editing Room or Booth	<u>0.73</u>	<u>6</u>	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Copy/Print Room	<del>0.31</del> <u>0.56</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Corridor <sup>2</sup>	<u>0.44</u>	width <8 ft	REQ				REQ	REQ	REQ	ADD2	ADD2			
Facility for the visually impaired (and not- used primarily by the staff) <sup>3</sup>	<del>0.71</del>	<del>width</del> -≪8 ft	REQ				REQ	REQ	REQ	ADD2	ADD2			

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 8 ft and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 0.52 W/h<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/h<sup>2</sup>. The additional 0.52 W/h<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).
 b. Automatic daylight responsive controls are mandatory only if the space meets the requirements of the specified sections.

<i>informative Note:</i> This table is divided into two sections; this irst section covers <u>common</u> space types that can be commonly <u>ypically</u> found in multiple <i>building</i> types. The second <u>Table</u> <u>2.5.2.1-2 part of this table</u> covers <i>building</i> -specific space types pace types that are typically found in a single <i>building</i> type.		<del>;; this nmonly</del> <u>[able_</u> <u>? types</u> type.	The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.											
	LPD.		Local <i>Control</i> <del>(See Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e<sup>ive</sup> Controls for</u> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>			
Common Space Types <sup>1<u>a</u></sup>	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>			
Hospital	<del>0.71</del>	<del>width</del> -≪8-ft	REQ				REQ	REQ	ADD2	ADD2	ADD2			
All other corridors	<del>0.41</del>	<del>width</del> ≪8 ft	REQ				REQ	REQ	REQ	ADD2	ADD2			
Courtroom	1.20 1.08	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Dining Areas								•						
Penitentiary	0.42	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Facility for the visually impaired (and not- used primarily by staff) <sup>3</sup>	<del>1.27</del>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Bar/lounge or leisure dining	0.86 0.76	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Cafeteria or fast-food dining	0.40 0.36	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Family dining	0.60 0.52	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
All other dining areas	0.43 0.42	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Electrical/Mechanical Room <sup>7</sup>	0.43 0.71	6	REQ				REQ	REQ						

In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply
 In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 8 ft and is not based on the RCR.

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4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 0.52 W/ft<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/ft2. The additional 0.52 W/ft2 allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

Informative Note: This table is divided inter- first section covers <u>common</u> space types the <u>typically</u> found in multiple <i>building</i> types. <u>9.5.2.1-2 part of this table</u> covers <u>building-types</u> space types that are typically found in a sin	two sections at can be cor The second <u>]</u> specific <i>space</i> ngle <i>building</i>	<del>s; this nmonly</del> <u>[able_</u> <u>e types</u> type.	The <i>control</i> func (1) All REQs s (2) At least on (3) At least on	tions below shall t hall be implement e ADD1 (when pre e ADD2 (when pre	oe implemented in ted. esent) shall be imp esent) shall be imp	n accordance with olemented. olemented.	n the descriptions f	ound within Section	on 9.4.1.1. For ea	ch <i>space</i> type:					
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	<del>Restricted to</del> <i>Manual</i> ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel Multilevel Lighting Control (See Section[d])	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Sidelight <del>ing</del> (See Section[el <sup>6</sup> )	Automatic Daylight Respons <u>e<sup>ive</sup> Controls for</u> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Section[i])</del>				
Common Space Types <sup>4</sup> 8	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>				
Emergency Vehicle Garage	0.52 0.51	4	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2				
Equipment Room	<u>0.73</u>	<u>6</u>	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2				
Food Preparation Area	<del>1.09</del> <u>1.19</u>	6	REQ	REQ     ADD1     REQ     REQ     REQ     ADD2     ADD2											
Guest Room	0.41	6		See Section 9.4.1.3(b).											
Laboratory															
In or as a classroom	<del>1.11</del> <u>1.05</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2				
All other laboratories	<del>1.33</del> <u>1.21</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2				
Laundry/Washing Area	0.53 0.51	4	REQ	ADD1	ADD1	REQ	REQ	REQ		<del>ADD2</del> <u>REQ</u>	ADD2				
Loading Dock, Interior	0.88 0.87	6	REQ ADD1 ADD1 REQ REQ ADD2 ADD2												
Lobby	•		•								·				
Facility for the visually impaired (and not- used primarily by the staff) <sup>3</sup>	<del>1.69</del>	4	REQ REQ REQ ADD2 ADD2								ADD2				
Elevator	0.65 0.64	6	REQ				REQ	REQ		ADD2	ADD2				

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4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 0.52 W/h<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/h<sup>2</sup>. The additional 0.52 W/h<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

<i>informative Note:</i> This table is divided into two sections; this- irst section covers <u>common</u> space types that can be commonly <u>ypically</u> found in multiple <i>building</i> types. The second <u>Table</u> 2.5.2.1-2 part of this table covers <u>building</u> -specific space types pace types that are typically found in a single building type.		<del>;; this nmonly</del> <u>[able_</u> <u>? types</u> type.	The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.											
	LPD,		Local <i>Control</i> (See Section[a])	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	<del>Automatic</del> Daylight Respons <u>e</u> ive <i>Controls for</i> Toplight <del>ing</del> <del>(See Section[f]<sup>6</sup>)</del>	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{F</del> ull OFF complies <del>}</del> )	Auto <del>matie</del> Full OFF <del>(See</del> - <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Section[i])</del>			
Common <i>Space</i> Types <sup>1<u>a</u></sup>	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> <sup>e</sup>	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>			
Hotel	<del>0.51</del> <u>0.48</u>	4	REQ				REQ	REQ		ADD2	ADD2			
Motion picture theater	<del>0.23</del> <u>0.20</u>	4	REQ				REQ	REQ		ADD2	ADD2			
Performing arts theater	<del>1.25</del> <u>1.21</u>	6	REQ				REQ	REQ	REQ	ADD2	ADD2			
All other lobbies	0.84 0.80	4	REQ				REQ	REQ	REQ	ADD2	ADD2			
Locker Room	0.52 0.43	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Lounge/Breakroom														
Healthcare facility	0.42	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Mother's/wellness room	0.68	<u>6</u>	REQ	ADD1	ADD1	REQ				REQ				
All other lounges/breakrooms	0.59 0.55	4	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Office		•												
Enclosed and ≤250 Office ≤150 ft <sup>2</sup>	0.74 0.73	8	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Enclosed and $\underline{Office} > 150$ and $\leq \underline{300 \cdot 250 \text{ ft}^2}$	0.66	8	REQ	ADD1	ADD1	REQ				ADD2 <u>REQ</u>	ADD2			

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4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

7. An additional 0.52 W/h<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/h<sup>2</sup>. The additional 0.52 W/h<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

<sup>6.</sup> Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

Informative Note: This table is divided into two sections; this First section covers <u>common</u> space types that can be commonly <u>typically</u> found in multiple building types. The second <u>Table</u> <u>9.5.2.1-2 part of this table</u> covers <u>building-specific space</u> types <del>space types that are</del> typically found in a single building type.		<del>s; this nmonly</del> F <u>able</u> types type.	The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.											
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	Restricted to Manual ON (See Section[b])	Restricted to Partial Auto <i>matic</i> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic- Daylight Respons <u>e</u> ive- <i>Controls for</i> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic- Daylight Respons <u>e<sup>ive</sup> Controls for-</u> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Scetion[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>			
Common Space Types <sup>1</sup> <sup>a</sup>	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> <sup>e</sup>	<u>9.4.1.1(d)</u> <sup>4</sup>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)</u> <sup>g</sup>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>			
<del>Open plan</del> <u>Offices &gt;300 ft<sup>2</sup></u>	0.61 0.56	4	REQ	ADD1	ADD1	REQ	REQ	REQ	<u>REQ</u>	<del>ADD2</del> <u>REQ</u>	ADD2			
Parking Garage														
Daylight transition zone	1.06	4				S	See Section 9.4.1.2							
All other parking and drive areas Parking Area, Interior	0.11	4	See Section 9.4.1.2											
Pharmacy Area	<del>1.66</del> <u>1.59</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Restroom	<u>0.74</u>	<u>8</u>								REQ				
Facility for the visually impaired (and not- used primarily by the staff) <sup>3</sup>	<del>1.26</del>	8					REQ	REQ		REQ				
All other restrooms	<del>0.63</del>	8					REQ	REQ		REQ				
Sales Area <sup>4</sup> (For accent lighting, see Section 9.6.2[b].)	<del>1.05</del> <u>0.85</u>	6	REQ     ADD1     ADD1     REQ     REQ     ADD2     ADD2											
Seating Area, General	0.23 0.21	4	REQ     ADD1     REQ     REQ     ADD2     ADD2											
Security Screening	-	•												
Airport/bus/ship/train/transportation screening	<u>0.93</u>	<u>6</u>	REQ     REQ     REQ     ADD2     ADD2											
<ol> <li>In cases where both a common space type and a b</li> <li>In corridors, the extra lighting power density allow</li> </ol>	<i>uilding</i> area sp vance is permi	becific space tted when th	the width of the corridor is less than 8 ft and is not based on the <i>RCR</i> .											

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6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 0.52 W/ft<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/ft2. The additional 0.52 W/ft2 allowance shall not be used for any other purpose.

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	LPD,		Local <i>Control</i> (See Section[a])	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{F</del> ull OFF complies <del>}</del> )	Auto <del>matie</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>
Common Space Types <sup>4</sup> a	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> *	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>
Airport/bus/ship/train/transportation screening queue	<u>0.56</u>	<u>6</u>	REQ				REQ	<u>REQ</u>		ADD2	ADD2
General security screening	<u>0.64</u>	<u>6</u>	REQ				REQ	REQ		ADD2	ADD2
Stairway		•		The space contai	ning the stairway s	shall determine the	e LPD and control re	equirements for the	stairway.		
Stairwell	0.49 0.47	10				REQ	REQ	REQ	REQ	ADD2	ADD2
Storage Room		•									
<50 ft <sup>2</sup>	0.51 <u>0.49</u>	9	REQ	<u>REQ</u>						ADD2 <u>REQ</u>	ADD2
$\geq$ 50 ft <sup>2</sup>	<del>0.38</del> <u>0.35</u>	6	REQ	ADD1	ADD1		REQ	REQ		REQ	
Vehicular Maintenance Area	0.60 0.59	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Workshop_ (including workshop classrooms)	<del>1.26</del> <u>1.17</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2

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 7. An additional 0.52 W/ft<sup>2</sup>-shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/ft2. The additional 0.52 W/ft2 allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

Image: constraint of the section of the secting the section of the section of th	nformative Note: This table is divided into two sections; this irst section covers <u>building-specific space</u> types typically foun <u>1 a single building type</u> . The second part of this table <u>Table</u> <u>5.2.1-1</u> covers <u>common space</u> types <del>that are</del> <u>typically found i</u> <u>nultiple building types</u> . <del>typically found in a single building type</del>		<del>s; this</del> l <u>y found</u> <u>[able_</u> found in_ ling type.	The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.										
Building Type-Specific/_Space Types <sup>4</sup> aW/ft²RCR9.4.1.1(a) <sup>a</sup> 9.4.1.1(c) <sup>b</sup> 9.4.1.1(c) <sup>b</sup> 9.4.1.1(c) <sup>be</sup> 9.4.1.1(c) <sup>bf</sup> 9.4		LPD,		Local <i>Control</i> <del>(See Section[a])</del>	<del>Restricted to</del> <i>Manual</i> ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel Multilevel Lighting Control (See Section[d])	Automatic Daylight Respons <u>e</u> ive Controls for Sidelight <del>ing</del> (See Section[el <sup>6</sup> )	Automatic Daylight Respons <u>e</u> ive Controls for Toplighti <del>ng</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Scetion[i])</del>		
Casino—Gaming Area         Betting/sportsbook/keno/bingo area       0.82       5       Image: Sportsbook/keno/bingo area       0.82       5       Image: ADD       ADD2       ADD	Building Type_Specific <u>/</u> Space Types <sup>1</sup> <sup>a</sup>	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>a</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> <sup>e</sup>	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)</u> <sup>bf</sup>	<u>9.4.1.1(g)</u> <sup>g</sup>	<u>9.4.1.1(h)</u> <sup>h</sup>	<u>9.4.1.1(i)<sup>i</sup></u>		
Betting/sportsbook/keno/bingo area0.825REQREQADD2ADD	Casino—Gaming Area								1					
High-limit game area1.684REQREQADD2	Betting/sportsbook/keno/bingo area	0.82	5				REQ				ADD2	ADD2		
Slot machine/digital gaming area       0.54       5       REQ       ADD2       ADD2       ADD2         Table games area       1.09       5       REQ       REQ       ADD2       ADD2       ADD2         Convention Center—Exhibit Space       0.61       4       REQ       ADD1       ADD1       REQ       REQ       REQ       ADD2       AD         Correctional Facilities       ADD2       ADD1       ADD1       ADD1       REQ       REQ       ADD2       AD	High-limit game area	1.68	4				REQ				ADD2	ADD2		
Table games area     1.09     5     REQ     REQ     ADD2     ADD2       Convention Center—Exhibit Space     0.64     4     REQ     ADD1     ADD1     REQ     REQ     REQ     ADD2     ADP2       Correctional Facilities     A     DEQ     ADD1     ADD1     ADD1     DEQ     DEQ     ADD2     ADD2	Slot machine/digital gaming area	0.54	5				REQ				ADD2	ADD2		
Convention Center—Exhibit Space       0.61 0.50       4       REQ       ADD1       ADD1       REQ       REQ       REQ       ADD2       ADD2         Correctional Facilities       A       D       ADD1       ADD1       D       D       D       ADD2       ADD2 <td>Table games area</td> <td>1.09</td> <td>5</td> <td></td> <td></td> <td></td> <td>REQ</td> <td></td> <td></td> <td></td> <td>ADD2</td> <td>ADD2</td>	Table games area	1.09	5				REQ				ADD2	ADD2		
Correctional Facilities	Convention Center—Exhibit Space	<del>0.61</del> <u>0.50</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2 REQ		
	Correctional Facilities													
$\frac{\text{Audience seating area}}{\text{Audience seating area}} \qquad \frac{0.36}{4}  \frac{4}{\text{KEQ}}  \frac{\text{ADD1}}{\text{ADD1}}  \frac{\text{ADD1}}{\text{ADD1}}  \frac{\text{KEQ}}{\text{KEQ}}  \frac{\text{KEQ}}{\text{ADD2}}  \frac{\text{ADD2}}{\text{AD2}}  \frac{\text{ADD2}}{\text{AD2}}$	Audience seating area	0.56	<u>4</u>	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2		
Classroom/lecture hall/training room     0.74     4     REQ     ADD1     ADD1     REQ     REQ     REQ	Classroom/lecture hall/training room	0.74	<u>4</u>	REQ	ADD1	ADD1	REQ	REQ	REQ					
Confinement cells         0.60         6         REQ         Image: REQ	Confinement cells	0.60	<u>6</u>	REQ								REQ		
Dining area     0.35     6     REQ     ADD1     ADD1     REQ     REQ     REQ     ADD2     ADD2	Dining area	0.35	<u>6</u>	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2		
Dormitory—living quarters         0.50 0.48         8         REQ         Image: Constraint of the second secon	Dormitory—living quarters	<u>0.50</u> <u>0.48</u>	8	REQ										
Facility for the Visually Impaired (A facility for the visually impaired is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and that is or will be licensed by local/state authorities for senior long-term care, adult d senior support, and/or people with special visual needs.)	Facility for the Visually Impaired (A facility for the visually impaired is a facility senior support, and/or people with special visu													
Chapel (used primarily by residents)0.70 0.584REQADD1ADD1REQREQREQREQADD2ADD2	Chapel (used primarily by residents)	0.70 0.58	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2		

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 8 ft and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/ES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 0.52 W/h<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/h<sup>2</sup>. The additional 0.52 W/h<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-1 for common space types).
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	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	<del>Restricted to</del> <i>Manual</i> ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel Multilevel Lighting Control (See Section[d])	Automatic Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	<del>Automatic</del> Daylight Respons <u>e</u> ive <i>Controls for</i> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full Off <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Section[i])</del>		
Building Type_Specific/_Space Types <sup>1</sup>	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)</u> <sup>i</sup>		
Corridor (used primarily by residents)	<u>0.71</u>	<u>width</u> <u>&lt;8 ft</u>	REQ				<u>REQ</u>	<u>REQ</u>	<u>REQ</u>	ADD2	ADD2		
Dining (used primarily by residents)	<u>1.22</u>	<u>4</u>	REQ	ADD1	ADD1	REQ	<u>REQ</u>	REQ		ADD2	ADD2		
Lobby	<u>1.44</u>	<u>4</u>	REQ				<u>REQ</u>	REQ	REQ	ADD2	ADD2		
Recreation room/common living room (used primarily by residents)	<del>1.77</del> <u>1.20</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2		
Restroom (used primarily by residents)	<u>0.96</u>	<u>8</u>					<u>REQ</u>	REQ		REQ			
Fire Station—Sleeping Quarters	<del>0.23</del> <u>0.22</u>	6	REQ										
Gymnasium/Fitness Center			•										
Exercise area	0.90 0.82	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2		
Playing area	0.85 0.82	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2		
Health Care Facility													
Control room (MRI/CT/radiology/PET)	<u>0.78</u>	<u>8</u>	REQ	REQ		REQ				REQ			
Exam/treatment room	1.40 1.33	8	REQ			REQ	REQ	REQ		ADD2	ADD2		
Hospital corridor	<u>0.61</u>	<u>width</u> <u>&lt;8 ft</u>	REQ				REQ	REQ	ADD2	ADD2	ADD2		

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4. For accent lighting, see Section 9.6.2(b).

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	LPD,		Local <i>Control</i> ( <del>See Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{F</del> ull OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>	
Building Type_Specific/_Space Types <sup>4a</sup>	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)</u> <sup>≜</sup>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> <sup>e</sup>	<u>9.4.1.1(d)</u> <sup>d</sup>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>	
Imaging room	0.94	6	REQ			REQ				ADD2	ADD2	
Lounge	<u>0.77</u>	<u>6</u>	REQ	ADD1	ADD1	REQ	<u>REQ</u>	<u>REQ</u>		REQ		
Medical supply room	<del>0.62</del>	6			(See "Storag	e Room" under "C	ommon <i>Space</i> Type	es" for <i>control</i> requ	irements.)			
Medical supply room	<u>0.56</u>	6	<u>REQ</u>	ADD1	ADD1		REQ	REQ		REQ		
Nursery	<del>0.92</del> <u>0.87</u>	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Nurse's station	<del>1.17</del> <u>1.07</u>	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Operating room	2.26 2.31	6	REQ			REQ				ADD2	ADD2	
Patient room	<del>0.68</del> <u>0.78</u>	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Physical therapy room	0.91 0.82	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Recovery room	<del>1.25</del> <u>1.18</u>	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Telemedicine	<u>1.44</u>	<u>8</u>	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ		
Library		•									·	
Reading area	<del>0.96</del> <u>0.86</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	

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	LPD.		Local <i>Control</i> <del>(See Section[a])</del>	Restricted to Manual ON (See Section[b])	Restricted to Partial Auto <i>matic</i> ON <del>(See Section[c])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>cive <i>Controls for</i> Toplighti<del>ng</del> (See Section[f]<sup>6</sup>)</u>	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <i>matic</i> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>
Building <del>Type_</del> Specific <u></u> ₄ <i>Space</i> Types <sup>4</sup> ª	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)</u> <sup>bf</sup>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>
Stacks	1.18	4	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2
Manufacturing Facility											
Detailed manufacturing area	<del>0.80</del> <u>0.75</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Equipment room	<del>0.76</del>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Low bay area (<25 ft <i>floor</i> -to-ceiling height)	<del>0.86</del> <u>0.85</u>	3	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
High bay area (25 to 50 ft <i>floor-</i> to-ceiling height)	1.24	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Extra-high bay area (>50 ft <i>floor</i> -to-ceiling height)	<del>1.42</del> <u>1.36</u>	8	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Museum								•			•
General exhibition area	0.31	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Restoration area	<del>1.10</del> <u>1.24</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Performing Arts Theater—Dressing Room	0.41 0.39	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ	
Post Office—Sorting Area	<del>0.76</del> <u>0.71</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2
Religious Facility											
Audience seating area	0.72	4	REO			REO	REO	REO		ADD2	ADD2

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	LPD,		Local <i>Control</i> (See Section[a])	Restricted to Manual ON (See Section[b])	Restricted to Partial Auto <del>matic</del> ON (See Section[e])	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>e</u> ive Controls for Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	<del>Automatic</del> Daylight Respons <u>cive <i>Controls for</i> Toplight<del>ing</del> (See Section[f]<sup>6</sup>)</u>	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{Full OFF</del> complies <del>}</del> )	Auto <i>matic</i> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>	
Building <del>Type_</del> Specific <u></u> ∕_Space Types <sup>4</sup> ª	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>	
Fellowship hall	<del>0.54</del> <u>0.50</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Worship/pulpit/choir area	0.85 0.75	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Retail Facilities												
Dressing/fitting room	0.51 0.45	8	REQ	ADD1	ADD1	REQ		REQ		REQ ADD2	ADD2	
Hair care	<u>0.65</u>	<u>6</u>	REQ	ADD1	ADD1					ADD2	ADD2	
Nail care	<u>0.75</u>	<u>6</u>	REQ	ADD1	ADD1					ADD2	ADD2	
Mall concourse	0.82 0.57	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Massage	<u>0.81</u>	<u>8</u>	REQ	ADD1	ADD1	REQ				ADD2	ADD2	
Sports Arena—Playing Area <sup>8</sup> -(Class of play	y as defined	by ANSI/	IES RP-6)									
Class I facility	<del>2.94</del> <u>2.86</u>	4	REQ	ADD1 <u>REQ</u>	ADD1	REQ	REQ	REQ		ADD2	ADD2 REQ	
Class II facility	2.01 <u>1.98</u>	4	REQ	ADD1 <u>REQ</u>	ADD1	REQ	REQ	REQ		ADD2	ADD2 REQ	
Class III facility	<del>1.30</del> <u>1.29</u>	4	REQ	ADD1 <u>REQ</u>	ADD1	REQ	REQ	REQ		ADD2	ADD2 <u>REQ</u>	
Class IV facility	0.86 0.85	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 8 ft and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present. 7. An additional 0.52 W/ft<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/ft2. The additional 0.52 W/ft2 allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-1 for common space types).

Informative Note: This table is divided into- first section covers <u>building-specific space</u> ty in a single <u>building type</u> . The second part of <u>9.5.2.1-1</u> covers <u>common</u> space types that an multiple <u>building types</u> -typically found in a	two sections vpes_typicall this table_1 e typically f single <i>buila</i>	<del>s; this</del> l <u>y found</u> [ <u>able</u> found in ling type.	d       The control functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each space type:         (1) All REQs shall be implemented.         (2) At least one ADD1 (when present) shall be implemented.         (3) At least one ADD2 (when present) shall be implemented.         Automatie       Automatie								
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON (See Scetion[e])	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>cive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	<del>Automatic</del> Daylight Respons <u>e</u> <del>ive <i>Controls for</i> Toplight<del>ing</del> <del>(See Section[f]<sup>6</sup>)</del></del>	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> (See Section[g] <sup>[</sup> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Scetion[h])</del>	Scheduled Shutoff <del>(See Scetion[i])</del>
Building Type_Specific/_Space Types <sup>4a</sup>	W/ft <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> <sup>e</sup>	<u>9.4.1.1(d)</u> <sup>d</sup>	<u>9.4.1.1(e)</u> <sup>be</sup>	<u>9.4.1.1(f)</u> <sup>bf</sup>	<u>9.4.1.1(g)</u> <sup>g</sup>	<u>9.4.1.1(h)</u> <sup>h</sup>	<u>9.4.1.1(i)</u> <sup>i</sup>
Natatorium (Class of play as defined by IES	<u>5 RP-6)</u>	1	I	[							
<u>Class I facility</u>	<u>2.20</u>	<u>4</u>	REQ	REQ			REQ	REQ			REQ
<u>Class II facility</u>	<u>1.47</u>	4	REQ	REQ			REQ	REQ			REQ
Class III facility	<u>0.99</u>	<u>4</u>	<u>REQ</u>	<u>REQ</u>			REQ	<u>REQ</u>			REQ
Class IV facility	<u>0.59</u>	<u>4</u>	REQ	ADD1	ADD1		<u>REQ</u>	<u>REQ</u>		ADD2	ADD2
Transportation Facility											
Airport hanger	<u>1.36</u>	<u>4</u>	REQ	REQ			REQ	REQ			REQ
Baggage/carousel area	0.39 0.28	4	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2
Airport cConcourse	0.25 0.49	4	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2
Passenger loading area	0.71	<u>6</u>	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2
Ticket counter	0.51 0.40	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Warehouse—Storage Area	-	•	•	•	-	-		-			·
Medium-to-bulky, palletized items	0.33	4	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2
Smaller, hand-carried items, picking areas <sup>5</sup>	0.69	6	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2
1 In cases where both a common snace type and a h	uilding area sr	pecific space	tune are listed the h	ulding area specific s	naca tuna shall annlu						

In cases where ooth a common space type and a outlaing area specific space type are listed, the building area specific space type shall apply
 In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 8 ft and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 0.52 W/h<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 0.43 W/h<sup>2</sup>. The additional 0.52 W/h<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-1 for common space types).
 b. Automatic daylight responsive controls are mandatory only if the space meets the requirements of the specified sections.

Informative Note: This table is divided into two section covers common space types that can be typically found in multiple building types. The 9.5.2.1-2 part of this table covers building-spec space types that are typically found in a single	o sections; commonl second <u>Ta</u> cific space t building ty	<del>this first y</del> <u>ble_</u> <u>ypes</u> /pe.	rst       The control functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each space type:         (1) All REQs shall be implemented.       (2) At least one ADD1 (when present) shall be implemented.         (3) At least one ADD2 (when present) shall be implemented.       Automatic								
	LPD.		Local <i>Control</i> <del>(See</del> <del>Section[a])</del>	<del>Restricted to</del> <i>Manual</i> ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e<sup>ive</sup> Controls for</u> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Section[i])</del>
Common Space Types <sup>1</sup> <sup>a</sup>	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)</u> <sup>be</sup>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)</u> <sup>g</sup>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>
Atrium											
<6.1 m in height	4.6 <u>3.5</u>	NA	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2
$\geq$ 6.1 m and $\leq$ 12.2 m in height	5.2 <u>4.4</u>	NA	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
>12.2 m in height	<del>6.5</del> <u>5.5</u>	11	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Audience Seating Area	•										
Auditorium	<u>6.5</u> <u>6.1</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Gymnasium	2.5	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Motion picture theater	2.9	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Penitentiary	<del>7.2</del>	4	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2
Performing arts theater	12.5 11.8	8	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Religious building	<del>7.8</del>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Sports arena	3.5 2.9	4	REQ	ADD1	ADD1	<u>REQ</u>	REQ	REQ		ADD2	ADD2
All other audience seating areas	2.5	4	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

 A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup>-shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

<i>Informative Note:</i> This table is divided into two section covers <u>common</u> space types that can be <u>typically</u> found in multiple <i>building</i> types. The <u>9.5.2.1-2 part of this table</u> covers <i>building</i> -spec space types that are typically found in a single	<del>) sections; commonl second <u>Ta</u> ific <i>space</i> t building ty</del>	<del>this first y</del> <u>ble</u> <u>ypes</u> ype.	The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.											
	LPD.		Local <i>Control</i> <del>(See</del> <del>Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Sidelight <del>ing</del> (See Scetion[e] <sup>6</sup> )	Automatic Daylight Respons <u>eive Controls for</u> Toplight <del>ing</del> (See Scction[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Section[i])</del>			
Common <i>Space</i> Types <sup>4<u>a</u></sup>	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)<sup>b</sup></u>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)</u> <sup>be</sup>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>			
Banking Activity Area	<del>6.5</del> <u>6.0</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Classroom/Lecture Hall/Training Room		•									<u>.                                    </u>			
Penitentiary	<del>9.5</del>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Shop classroom	12.6	<u>6</u>	REQ	ADD1	ADD1		REQ	REQ			REQ			
All other classrooms/lecture halls/training rooms	<del>7.6</del> <u>7.7</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Computer Room	<del>10.1</del> <u>8.0</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Conference/Meeting/Multipurpose Rooms	<del>10.5</del> <u>9.5</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Confinement Cells	<del>7.5</del>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Control/Editing Room or Booth	<u>7.9</u>	<u>6</u>	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Copy/Print Room	<del>3.3</del> <u>6.0</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ				
Corridor <sup>2</sup>	<u>4.8</u>	<u>width</u> <2.4 m	REQ				<u>REQ</u>	<u>REQ</u>	<u>REQ</u>	ADD2	ADD2			
Facility for the visually impaired (and not used primarily by the staff) <sup>3</sup>	<del>7.7</del>	<del>width</del> <del>&lt;2.4 m</del>	REQ				REQ	REQ	REQ	ADD2	ADD2			

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

# Balances and Minimum Control Requirements Using Either Method (SI) (Continued)

<i>Informative Note:</i> This table is divided into two section covers <u>common</u> space types that can be typically found in multiple <i>building</i> types. The 9.5.2.1-2 part of this table covers <i>building</i> -spec <i>space</i> types that are typically found in a single	) sections; common second <u>Ta</u> ific space building t	<del>this first <del>y</del> <u>ble</u> t<u>ypes</u> ype.</del>	The control functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each space type:         (1) All REQs shall be implemented.         (2) At least one ADD1 (when present) shall be implemented.         (3) At least one ADD2 (when present) shall be implemented.         Due       Automatic         Automatic         Due       Automatic         Automatic         Due to the present											
	LPD.		Local <i>Control</i> <del>(Sec</del> <del>Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[c])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Toplighti <del>ng</del> (See Section[f1 <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{</del> Full OFF complies <del>}</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Scetion[i])</del>			
Common Space Types <sup>4</sup> <sup>a</sup>	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>a</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)</u> <sup>d</sup>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)</u> <sup>g</sup>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>			
Hospital	<del>7.7</del>	<del>width</del> ≪2.4 m	REQ				REQ	REQ	ADD2	ADD2	ADD2			
All other corridors	4.4	<del>width</del> ≪2.4 m	REQ				REQ	REQ	REQ	ADD2	ADD2			
Courtroom	<del>12.9</del> <u>11.6</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Dining Areas								•						
Penitentiary	4 <del>.5</del>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Facility for the visually impaired (and not used primarily by staff) <sup>3</sup>	<del>13.7</del>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Bar/lounge or leisure dining	<del>9.3</del> <u>8.2</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Cafeteria or fast-food dining	4.3 <u>3.9</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Family dining	<del>6.5</del> <u>5.6</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
All other dining areas	4.7 4.5	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Electrical/Mechanical Room <sup>7</sup>	<del>4.6</del> <u>7.6</u>	6	REQ				REQ	REQ						

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

Informative Note: This table is divided into two section covers common space types that can be typically found in multiple building types. The 9.5.2.1-2 part of this table covers building-spec space types that are typically found in a single	o sections; commonl second <u>Ta</u> ific space t building ty	<del>this first y</del> <u>ble</u> types ype.	<ul> <li>The control functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each space type:         <ul> <li>(1) All REQs shall be implemented.</li> <li>(2) At least one ADD1 (when present) shall be implemented.</li> <li>(3) At least one ADD2 (when present) shall be implemented.</li> </ul> </li> </ul>											
	LPD		Local <i>Control</i> <del>(See-</del> <del>Section[a])</del>	<del>Restricted to</del> <i>Manual</i> ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[c])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>eive <i>Controls for</i> Sidelight<del>ing</del> (See Section[e]<sup>6</sup>)</u>	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Toplight <del>ing</del> (See Section[f1 <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>			
Common Space Types <sup>1</sup> a	$W/m^2$	RCR	<u>9.4.1.1(a)<sup>a</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> <sup>e</sup>	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)</u> <sup>be</sup>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>			
Emergency Vehicle Garage	<del>5.6</del> <u>5.5</u>	4	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2			
Equipment Room	<u>7.9</u>	<u>6</u>	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2			
Food Preparation Area	<del>11.7</del> <u>10.4</u>	6	REQ	REQ ADD1 ADD1 REQ REQ REQ ADD2 ADD2										
Guest Room	4.4	6		See Section 9.4.1.3(b).										
Laboratory														
In or as a classroom	<del>11.9</del> <u>11.3</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2			
All other laboratories	14.3 13.0	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2			
Laundry/Washing Area	<del>5.7</del> <u>5.5</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2 <u>REQ</u>	ADD2			
Loading Dock, Interior	<del>9.5</del> <u>9.4</u>	6	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2			
Lobby	•	•									·			
Facility for the visually impaired (and not used- primarily by the staff)3	<del>18.2</del>	4	REQ				REQ	REQ	REQ	ADD2	ADD2			
Elevator	<del>7.0</del> <u>6.3</u>	6	REQ	REQ     REQ     ADD2     ADD2										

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatie daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

<i>Informative Note:</i> This table is divided into two section covers <u>common</u> space types that can be typically found in multiple building types. The 9.5.2.1-2 part of this table covers <u>building-spec</u> space types that are typically found in a single	) sections; commonl second <u>Ta</u> ific space t building ty	<del>this first <del>y</del> <u>ble</u> t<u>ypes</u> ype.</del>	The <i>control</i> fund (1) All REQs (2) At least on (3) At least on	ctions below shall shall be implemen ie ADD1 (when pr ie ADD2 (when pr	be implemented i ited. esent) shall be im esent) shall be im	n accordance wit plemented. plemented.	h the descriptions	found within Sect	ion 9.4.1.1. For e	each <i>space</i> type:	
	LPD.		Local <i>Control</i> <del>(See</del> <del>Section[a])</del>	<del>Restricted to</del> <i>Manual</i> ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e<sup>ive</sup> Controls for</u> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>
Common Space Types <sup>4</sup> a	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)</u> <sup>be</sup>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>
Hotel	<del>5.4</del> <u>5.2</u>	4	REQ				REQ	REQ		ADD2	ADD2
Motion picture theater	2.5 2.1	4	REQ				REQ	REQ		ADD2	ADD2
Performing arts theater	<del>13.5</del> <u>13.0</u>	6	REQ				REQ	REQ	REQ	ADD2	ADD2
All other lobbies	<del>9.0</del> <u>8.6</u>	4	REQ				REQ	REQ	REQ	ADD2	ADD2
Locker Room	<del>5.6</del> <u>4.6</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ	
Lounge/Breakroom		•									
Healthcare facility	4 <del>.5</del>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ	
Mother's/wellness room	<u>7.3</u>	<u>6</u>	REQ	ADD1	ADD1	REQ				REQ	
All other lounges/breakrooms	<del>6.3</del> <u>5.4</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ	
Office											
Enclosed and $\leq 23.2$ Office $\leq 13.9$ m <sup>2</sup>	<del>8.0</del> <u>7.9</u>	8	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ	
Enclosed and $\geq$ 23.2 Office $\geq$ 13.9 and $\leq$ 27.9 m <sup>2</sup>	7.1	8	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2 <u>REQ</u>	ADD2

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2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building-specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-2 for building-specific space types).

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	LPD.		Local <i>Control</i> <del>(See-</del> <del>Section[a])</del>	<del>Restricted to</del> Manual ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel Multilevel Lighting Control (See Section[d])	- <del>Automatic</del> Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e</u> ive Controls for Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Section[i])</del>	
Common Space Types <sup>4<u>a</u></sup>	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)</u> <sup>be</sup>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)</u> <sup>g</sup>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>	
<del>Open plan</del> <u>Offices &gt;27.9 m<sup>2</sup></u>	<del>6.6</del> <u>6.0</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ	<u>REQ</u>	ADD2 <u>REQ</u>	ADD2	
Parking Garage				L	L	L		I	I	L		
Daylight transition zone	11.4	4	See Section 9.4.1.2									
All other parking and drive areas Parking Area, Interior	<del>1.6</del> <u>1.2</u>	4	See Section 9.4.1.2									
Pharmacy Area	<del>17.1</del> <u>17.9</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Restroom	<u>8.0</u>	<u>8</u>								REQ		
Facility for the visually impaired (and not used- primarily by the staff) <sup>3</sup>	<del>13.5</del>	8					REQ	REQ		REQ		
All other restrooms	<del>6.8</del>	8					REQ	REQ		REQ		
Sales Area <sup>4</sup> (For accent lighting, see Section 9.6.2(b).	<del>11.3</del> <u>9.1</u>	6	REQ	ADD1	ADD1	REQ		REQ		ADD2	ADD2	
Seating Area, General	2.5 2.2	4	REQ     ADD1     ADD1     REQ     REQ     ADD2     ADD2									
Security Screening			•	•			•	•	•	•	·	
Airport/bus/ship/train/transportation screening	<u>10.0</u>	<u>6</u>	REQ				REQ	REQ		ADD2	ADD2	
Airport/bus/ship/train/transportation screening_ queue	<u>6.0</u>	<u>6</u>	REQ	REQ     REQ     REQ     ADD2     ADD2       REQ     REQ     REQ     REQ     ADD2     ADD2								

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	LPD,		Local <i>Control</i> <del>(See</del> <del>Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic- Daylight Respons <u>e</u> ive- <del>Controls for-</del> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e</u> ive Controls for Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> +Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>	
Common Space Types <sup>4</sup> <sup>a</sup>	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>a</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>	
General security screening	<u>6.9</u>	<u>6</u>	REQ				<u>REQ</u>	REQ		ADD2	ADD2	
Stairway		The space containing the stairway shall determine the LPD and control requirements for the stairway.										
Stairwell	<del>5.3</del> <u>5.0</u>	10				REQ	REQ	REQ	REQ	ADD2	ADD2	
Storage Room						•						
<4.6 m <sup>2</sup>	<del>5.5</del> <u>5.2</u>	9	REQ	REQ						ADD2 <u>REQ</u>	ADD2	
≥4.6 m <sup>2</sup>	4.1 <u>3.8</u>	6	REQ	ADD1	ADD1		REQ	REQ		REQ		
Vehicular Maintenance Area	<del>6.5</del> <u>6.4</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Workshop (including workshop classrooms)	<del>13.5</del> <u>12.6</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	

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	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	Restricted to Manual ON <del>(See Section[b])</del>	Restricted to Partial Auto <del>matic</del> ON (See Section[e])	Bilevel <u>Multilevel</u> Lighting <i>Control</i> ( <del>See Section[d])</del>	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>eive Controls for</u> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{</del> Full OFF complies <del>}</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Scetion[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>	
<i>Building</i> Type_Specific/_Space Types <sup>1</sup> a	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)</u> ≜	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> <sup>e</sup>	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)</u> <sup>be</sup>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)</u> <sup>i</sup>	
Casino—Gaming Area												
Betting/sportsbook/keno/bingo area	8.8	5				REQ				ADD2	ADD2	
High-limit game area	18.0	4				REQ				ADD2	ADD2	
Slot machine/digital gaming area	5.9	5				REQ				ADD2	ADD2	
Table games area	11.7	5				REQ				ADD2	ADD2	
Convention Center—Exhibit Space	<del>6.6</del> <u>5.4</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2 <u>REQ</u>	
Correctional Facilities												
Audience seating area	<u>6.1</u>	<u>4</u>	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2	
Classroom/lecture hall/training room	<u>8.0</u>	<u>4</u>	REQ	ADD1	ADD1	REQ	REQ	REQ				
Confinement cells	<u>6.5</u>	<u>6</u>	REQ								REQ	
Dining area	<u>3.8</u>	<u>6</u>	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Dormitory—living quarters	<del>5.4</del> <u>5.2</u>	8	REQ									

### Facility for the Visually Impaired

(A facility for the visually impaired is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is or will be licensed by local/state authorities for senior long-term care, adult daycare, senior support, and/or people with special visual needs.)

Chapel (used primarily by residents)	<del>7.5</del> <u>7.1</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
--------------------------------------	------------------------------	---	-----	------	------	-----	-----	-----	--	------	------

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4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup>-shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-1 for common space types).

Informative Note: This table is divided into a first section covers building-specific space ty in a single building type. The second part of 9.5.2.1-1 covers common space types that ar multiple building types, typically found in a	wo section pes_typical this table_] e typically single <i>buil</i> e	<del>s; this</del> l <u>ly found [able found in ding type.</u>	Image: Determinant of the control functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each space type:         (1) All REQs shall be implemented.         (2) At least one ADD1 (when present) shall be implemented.         (3) At least one ADD2 (when present) shall be implemented.         (4) All commutice         (5) At least one ADD2 (when present) shall be implemented.         (6) All commutice									
	LPD.		Local <i>Control</i> <del>(See Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic- Daylight Respons <u>e</u> ive- <i>Controls for</i> Sidelight <del>ing</del> (See Section[e1 <sup>6</sup> )	Automatic Daylight Respons <u>e<del>ive</del> Controls for</u> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Section[i])</del>	
Building Type_Specific/_Space Types <sup>4a</sup>	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)</u> <sup>±</sup>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)</u> <sup>d</sup>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)</u> <sup>h</sup>	<u>9.4.1.1(i)<sup>i</sup></u>	
Corridor (used primarily by residents)	<u>6.5</u>	<u>width</u> <u>≤8 ft</u>	REQ				REQ	<u>REQ</u>	<u>REQ</u>	ADD2	ADD2	
Dining (used primarily by residents)	<u>13.1</u>	<u>4</u>	REQ	ADD1	ADD1	REQ	<u>REQ</u>	<u>REQ</u>		ADD2	ADD2	
Lobby	<u>15.5</u>	<u>4</u>	REQ				REQ	REQ	REQ	ADD2	ADD2	
Recreation room/common living room (used primarily by residents)	<del>19.0</del> <u>12.9</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Restroom (used primarily by residents)	<u>10.3</u>	<u>8</u>					<u>REQ</u>	<u>REQ</u>		<u>REQ</u>		
Fire Station—Sleeping Quarters	2.5 2.4	6	REQ									
Gymnasium/Fitness Center												
Exercise area	<del>9.6</del> <u>8.8</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Playing area	<del>9.2</del> <u>8.8</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Health Care Facility												
Control room (MRI/CT/radiology/PET)	<u>8.4</u>	<u>10</u>	REQ	REQ		REQ				REQ		
Exam/treatment room	<del>15.1</del> <u>14.3</u>	8	REQ			REQ	REQ	REQ		ADD2	ADD2	
Hospital corridor	<u>6.5</u>	<u>width</u> ≤8 ft	REQ				<u>REQ</u>	<u>REQ</u>	ADD2	ADD2	ADD2	
1. In cases where both a common space type and a but	uilding area s	pecific space	type are listed, the b	uilding area specific s	pace type shall apply							

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

 A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/ES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup>-shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-1 for common space types).

Informative Note: This table is divided into the first section covers building-specific space types in a single building type. The second part of 9.5.2.1-1 covers common space types that are multiple building types, typically found in a single building types.	two sections <u>pes_typical</u> this table <u>1</u> e <u>typically</u> single <i>build</i>	<del>s; this</del> <u>ly found</u> <u>[able</u> found in ling type.	The <i>control</i> func (1) All REQs s (2) At least on (3) At least on	tions below shall l shall be implement e ADD1 (when pro e ADD2 (when pro	be implemented in ted. esent) shall be imp esent) shall be imp	n accordance witl plemented. plemented.	n the descriptions f	ound within Section	on 9.4.1.1. For ea	ach <i>space</i> type:		
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	<del>Restricted to</del> Manual ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>eive</u> <del>Controls for</del> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>{</del> Full OFF complies <del>]</del> )	Auto <del>m<i>atic</i></del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>	
Building Type_Specific/_Space Types <sup>4a</sup>	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>	
Imaging room	10.1	6	REQ			REQ				ADD2	ADD2	
Lounge	<u>8.3</u>	<u>6</u>	REQ	ADD1	ADD1	<u>REQ</u>	<u>REQ</u>	<u>REQ</u>		REQ		
Medical supply room	<del>6.7</del>	6	(See "Storage Room" under "Common Space Types" for control requirements.)									
Medical supply room	<u>6.0</u>	<u>6</u>	REQ	REQ         ADD1         REQ         REQ         REQ								
Nursery	<del>9.9</del> <u>9.4</u>	6	REQ	REQ REQ REQ REQ ADD2								
Nurse's station	<del>12.6</del> <u>11.5</u>	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Operating room	24.3 24.9	6	REQ			REQ				ADD2	ADD2	
Patient room	<del>7.3</del> <u>8.4</u>	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Physical therapy room	<del>9.8</del> <u>8.8</u>	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Recovery room	<del>13.5</del> <u>12.7</u>	6	REQ			REQ	REQ	REQ		ADD2	ADD2	
Telemedicine	<u>15.4</u>	<u>8</u>	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ		
Library	-	•										
Reading area	<del>10.3</del> <u>9.3</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2	
Stacks	12.7	4	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2	

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

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4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-1 for common space types).

Informative Note: This table is divided into two sections; this first section covers <u>building-specific space</u> types typically found in a single <u>building type</u> . The second part of this table <u>Table</u> <u>9.5.2.1-1</u> covers <u>common space</u> types that are typically found in multiple <u>building</u> types. typically found in a single <u>building</u> type.		The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.									
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	<del>Restricted to</del> <i>Manual</i> ON <del>(See Section[b])</del>	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel Multilevel Lighting Control (See Section[d])	Automatic Daylight Respons <u>e</u> ive Controls for Sidelight <del>ing</del> (See Section[e] <sup>6</sup> )	Automatic Daylight Respons <u>e<del>ive</del> Controls for</u> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matic</del> Full OFF <del>(See-</del> <del>Section[h])</del>	Scheduled Shutoff <del>(Sce Section[i])</del>
Building Type_Specific/_Space Types <sup>4a</sup>	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>
Manufacturing Facility											
Detailed manufacturing area	<del>8.6</del> <u>8.1</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Equipment room	<del>8.2</del>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Low bay area (<7.6 m <i>floor</i> -to-ceiling height)	9.3 9.2	3	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
High bay area (7.6 to 15.2 m <i>floor</i> -to-ceiling height)	<del>13.4</del> <u>13.3</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Extra-high bay area (>15.2 m <i>floor</i> -to-ceiling height)	<del>15.3</del> <u>14.6</u>	8	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Museum											
General exhibition area	3.3	6	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Restoration area	<del>11.9</del> <u>13.4</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Performing Arts Theater—Dressing Room	4.4 <u>4.2</u>	6	REQ	ADD1	ADD1	REQ	REQ	REQ		REQ	
Post Office—Sorting Area	8.1 <u>7.6</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2
Religious Facility		•	•						-		·
Audience seating area	<u>7.8</u>	<u>4</u>	REQ			REQ	<u>REQ</u>	REQ		ADD2	ADD2

In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply
 In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

3. A "Facility for the Visually Impaired" is a facility that can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and is licensed or will be licensed by local/state authorities for either senior long-term care, adult daycare, senior support and/ or people with special visual needs.

4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup>-shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-1 for common space types).

Informative Note: This table is divided into two sections; this first section covers <u>building-specific space types typically found</u> in a single <u>building type</u> . The second part of this table <u>Table</u> <u>9.5.2.1-1</u> covers <u>common space</u> types <del>that are</del> typically found in multiple <u>building types</u> . typically found in a single <u>building type</u> .			The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.								
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	Automatic Daylight Respons <u>eive Controls for</u> Sidelight <del>ing</del> (See Scetion[e] <sup>6</sup> )	Automatic Daylight Respons <u>e</u> ive <i>Controls for</i> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>m<i>atic</i></del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>
Building Type_Specific/_Space Types	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)</u> <sup>±</sup>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e) be</u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)<sup>i</sup></u>
Fellowship hall	5.8 5.4	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Worship/pulpit/choir area	<del>9.2</del> <u>8.1</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Retail Facilities			•								
Dressing/fitting room	<del>5.4</del> <u>4.9</u>	8	REQ	ADD1	ADD1	REQ		REQ		REQ ADD2	ADD2
Hair care	<u>7.0</u>	<u>6</u>	REQ	ADD1	ADD1					ADD2	ADD2
Nail care	<u>8.1</u>	<u>6</u>	REQ	ADD1	ADD1					ADD2	ADD2
Mall concourse	<del>8.8</del> <u>6.1</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Massage	<u>8.7</u>	<u>8</u>	REQ	ADD1	ADD1	REQ				ADD2	ADD2
Sports Arena—Playing Area <sup>8</sup> -( <u>Class of play</u>	as defined	by ANSI/	<u>IES RP-6)</u>								
Class I facility	<del>31.6</del> <u>30.8</u>	4	REQ	ADD1 REQ	ADD1	REQ	REQ	REQ		ADD2	ADD2 REQ
Class II facility	21.6 21.3	4	REQ	ADD1 <u>REQ</u>	ADD1	REQ	REQ	REQ		ADD2	ADD2 <u>REQ</u>
Class III facility	<del>13.9</del> <u>13.8</u>	4	REQ	<del>ADD1</del> <u>REQ</u>	ADD1	REQ	REQ	REQ		ADD2	<del>ADD2</del> <u>REQ</u>
Class IV facility	<del>9.3</del> <u>9.2</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2

1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply

2. In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

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4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

7. An additional 5.6 W/m<sup>2</sup>-shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

a. Where both a common space type and a building specific space type are listed, the building specific space type shall apply (see Table 9.5.2.1-1 for common space types).
 b. Automatic daylight responsive controls are mandatory only if the space meets the requirements of the specified sections.

<sup>6.</sup> Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

Informative Note: This table is divided into two sections; this first section covers <u>building-specific space</u> types typically found in a single <u>building type</u> . The second part of this table <u>Table</u> <u>9.5.2.1-1</u> covers <u>common space</u> types that are typically found in multiple <u>building</u> types. typically found in a single <u>building</u> type.			The <i>control</i> functions below shall be implemented in accordance with the descriptions found within Section 9.4.1.1. For each <i>space</i> type: (1) All REQs shall be implemented. (2) At least one ADD1 (when present) shall be implemented. (3) At least one ADD2 (when present) shall be implemented.								
	LPD,		Local <i>Control</i> <del>(See Section[a])</del>	Restricted to Manual ON (See Section[b])	<del>Restricted to</del> Partial Auto <del>matic</del> ON <del>(See Section[e])</del>	Bilevel <u>Multilevel</u> Lighting <i>Control</i> (See Section[d])	<del>Automatic</del> Daylight Respons <u>e<del>ive</del> <del>Controls for</del> Sidelight<del>ing</del> (See Section[e]<sup>6</sup>)</u>	Automatic Daylight Respons <u>eive</u> <i>Controls for</i> Toplight <del>ing</del> (See Section[f] <sup>6</sup> )	Auto <del>matic</del> <u>Reduction</u> <del>Partial OFF</del> ( <del>See Section[g]</del> <del>[</del> Full OFF complies <del>]</del> )	Auto <del>matie</del> Full OFF <del>(See</del> <del>Section[h])</del>	Scheduled Shutoff <del>(See Section[i])</del>
Building Type_Specific <u>/</u> Space Types <sup>4</sup> ª	W/m <sup>2</sup>	RCR	<u>9.4.1.1(a)<sup>±</sup></u>	<u>9.4.1.1(b)</u> <sup>b</sup>	<u>9.4.1.1(c)</u> e	<u>9.4.1.1(d)<sup>d</sup></u>	<u>9.4.1.1(e)<sup>be</sup></u>	<u>9.4.1.1(f)<sup>bf</sup></u>	<u>9.4.1.1(g)<sup>g</sup></u>	<u>9.4.1.1(h)<sup>h</sup></u>	<u>9.4.1.1(i)</u> <sup>i</sup>
Natatorium (Class of play as defined by IES	<u>5 RP-6)</u>		-			-					
Class I facility	<u>23.7</u>	<u>4</u>	REQ	<u>REQ</u>			REQ	<u>REQ</u>			<u>REQ</u>
Class II facility	<u>15.8</u>	<u>4</u>	REQ	<u>REQ</u>			REQ	<u>REQ</u>			REQ
Class III facility	<u>10.7</u>	<u>4</u>	REQ	REQ			<u>REQ</u>	REQ			REQ
Class IV facility	<u>6.4</u>	<u>4</u>	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2
Transportation Facility			•								•
Airport hanger	<u>14.6</u>	<u>4</u>	REQ	REQ			REQ	REQ			REQ
Baggage/carousel area	4.2 <u>3.0</u>	4	REQ	ADD2	ADD2		REQ	REQ		ADD2	ADD2
Airport eConcourse	2.7 5.3	4	REQ	ADD2	ADD2		REQ	REQ		ADD2	ADD2
Passenger loading area	<u>7.7</u>	<u>6</u>	REQ	ADD1	ADD1		REQ	REQ		ADD2	ADD2
Ticket counter	<del>5.5</del> <u>4.3</u>	4	REQ	ADD1	ADD1	REQ	REQ	REQ		ADD2	ADD2
Warehouse—Storage Area											
Medium-to-bulky, palletized items	3.6	4	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2
Smaller, hand-carried items, picking areas5	7.4	6	REQ	ADD1	ADD1	REQ	REQ	REQ	REQ	ADD2	ADD2
1. In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply											

In cases where both a common space type and a building area specific space type are listed, the building area specific space type shall apply
 In corridors, the extra lighting power density allowance is permitted when the width of the corridor is less than 2.4 m and is not based on the RCR.

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4. For accent lighting, see Section 9.6.2(b).

5. Sometimes referred to as a "Picking Area."

6. Automatic daylight responsive controls are mandatory only if the requirements of the specified sections are present.

7. An additional 5.6 W/m<sup>2</sup> shall be allowed, provided that the additional lighting is controlled separately from the base allowance of 4.6 W/m<sup>2</sup>. The additional 5.6 W/m<sup>2</sup> allowance shall not be used for any other purpose.

8. Class of play as defined by IES RP-6.

Where both a common space type and a *building* specific *space* type are listed, the *building* specific *space* type shall apply (see Table 9.5.2.1-1 for common *space* types).
 Automatic daylight responsive controls are mandatory only if the space meets the requirements of the specified sections.

# Modify Table 9.5.2.3 as shown (I-P and SI).

# Table 9.5.2.3 Control Factors Used in Calculating Additional Interior Lighting Power Allowance

	<i>Space</i> Type						
Additional <i>Control</i> Method (in Addition to Mandatory Requirements)	Open Office	Private Office	Conference Room, Meeting Room, Classroom (Lecture/ Training)	Retail Sales Area	Lobby, Atrium, Dining Area, Corridors/ Stairways, Gym/ <i>Pool</i> , Mall Concourse, Parking Garage		
<i>Manual</i> , continuous dimming <i>control</i> or programmable- multilevel dimming <i>control</i>	<del>0.05</del>	<del>0.05</del>	0.10	<del>0.10</del>	θ		
Programmable multilevel dimming <i>control</i> using programmable time scheduling	0.05	0.05	0.10	0.10	0.10		
Occupancy sensors controlling the downlight component of workstation specific <i>luminaires</i> with continuous dimming to off capabilities	0.25 <sup>a</sup>	0	0	0	0		
Occupancy sensors controlling the downlight component of workstation specific <i>luminaires</i> with continuous dimming to off operation, in combination with personal continuous dimming <i>control</i> of downlight illumination by workstation occupant	0.30 <sup>a,b</sup>	0	0	0	0		

a. Control factor is limited to workstation-specific luminaires in partitioned single occupant work spaces contained within an open office environment (i.e. direct- indirect luminaires with separately controlled downlight and uplight components, with the downward component providing illumination to a single occupant in an open plan workstation). Within 30 minutes of the occupant leaving the space, the downward component shall continuously dim to off over a minimum of two minutes. Upon the occupant entering the space, the downward component shall continuously raise the illumination to a preset level over a minimum of 30 seconds. The uplight component of workstation specific luminaire shall comply with Section 9.4.1.1(h) (automatic full off).

b. In addition to the requirements described in footnote (a), the control shall allow the occupant to select their preferred light level via a personal computer, handheld device, or similarly accessible device located within the workstation.

[...]

# Relocate the following reference from Section 12 to Appendix E (I-P and SI).

# Reference

Title

# [...]

Illuminating Engineering Society (IES) 120 Wall street, Floor 17, New York, NY 10005-4001

ANSI/IES RP-28-2016

Lighting and the Visual Environment for Senior Living

 $[\ldots]$ 

[...]

<u>Illuminating Engineering Society (IES)</u> <u>120 Wall Street, Floor 17</u> <u>New York, NY 10005-4001</u>

Subsection No.	Reference	Title/Source
[]		
<del>9.6.1</del> 9.5.2	IES RP-6- <del>15</del> 20	Recommended Practice for Sports and Recreational Area Lighting
<u>9.5.2</u>	ANSI/IES RP-28-16	Lighting and the Visual Environment for Senior Living
<u>9.5.2</u>	ANSI/IES RP-38-17	Recommended Practice: Lighting Performance for Small to Medium Sized Videoconferencing Rooms
[]		

[...]

# Modify Normative Appendix G as shown (I-P).

# Table G3.7-1 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (I-P)

Common Sugar Tunos <sup>a</sup>	Lighting Power Density, W/4+ <sup>2</sup>	Occupancy Sensor Boduction <sup>b</sup>
	w/n	Reduction
Atrium	0.0275 per feat in total	100/
	height	<u>1070</u>
20 ft and 40 ft in height		
>40 ft in height	$\frac{0.50 + 0.025 \text{ per foot in}}{\text{total height}}$	<u>10%</u>
Audience Seating Area		
Auditorium	0.90	10%
Convention center	0.70	10%
Exercise center	<del>0.30</del>	<del>10%</del>
Gymnasium	0.40	10%
Motion picture theater	1.20	10%
Penitentiary	<del>0.70</del>	<del>10%</del>
Performing arts theater	2.60	10%
Religious facility	<del>1.70</del>	<del>10%</del>
In a sports arena	0.40	10%
Transportation facility	<del>0.50</del>	<del>10%</del>
All other audience seating area	0.90	10%
Atrium		
<40 ft in height	0.0375 per foot in total height	<del>10%</del>
>40 ft in height	0.50 + 0.025 per foot in- total height	<del>10%</del>
Banking Activity Area	1.50	10%
Classroom/Lecture Hall/Training Room		
Penitentiary	<del>1.30</del>	None
Preschool through 12th grade, laboratory, and shop classrooms	1.40	30%
All other classroom/lecture hall/training room	1.40	None
Computer Room	<u>2.14</u>	<u>35%</u>
Conference/Meeting/Multipurpose Room	1.30	None
Confinement Cells	<del>0.90</del>	10%
Copy/Print Room	0.90	10%
Corridor	0.50	<u>25%</u>
Facility for the visually impaired (and used primarily by residents)	<del>1.15</del>	<del>25%</del>

a. In cases where both a common space type and a building-specific space type (see Table G3.7-2) are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-1 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (I-P) (Continued)

Common <i>Space</i> Types <sup>a</sup>	Lighting Power Density, W/ft <sup>2</sup>	<i>Occupancy Sensor</i> Reduction <sup>b</sup>
Hospital	<del>1.00</del>	25%
Manufacturing facility	<del>0.50</del>	<del>25%</del>
All other corridor	<del>0.50</del>	<del>25%</del>
Courtroom	1.90	10%
Computer Room	<del>2.14</del>	<del>35%</del>
Dining Area		
Penitentiary	<del>1.30</del>	<del>35%</del>
Facility for the visually impaired (and used primarily by residents)	<del>3.32</del>	<del>35%</del>
Bar/lounge or leisure dining	1.40	35%
Cafeteria or fast food dining	0.90	35%
Family dining	2.10	35%
All other dining area	0.90	35%
Electrical/Mechanical Room	1.50	30%
Emergency Vehicle Garage	0.80	10%
<u>Equipment Room</u>	<u>1.20</u>	<u>10%</u>
Food Preparation Area	1.20	30%
Guest Room	1.14	45%
Judges Chambers	<del>1.30</del>	<del>30%</del>
Dwelling Unit	<del>1.07</del>	None
Laboratory		
In or as a classroom Preschool through 12th grade, laboratory, and shop classrooms	1.40	30%
All other laboratory except in or as a classroom	1.40	10%
Laundry/Washing Area	0.60	10%
Loading Dock, Interior	0.59	10%
Lobby		
Facility for the visually impaired (and used primarily by residents)	<del>2.26</del>	<del>25%</del>
Elevator	0.80	25%
Hotel	1.10	25%
Motion picture theater	1.10	25%
Performing arts theater	3.30	25%
All other lobby	1.30	25%
Locker Room	0.60	25%
Lounge/Breakroom		
Healthcare facility	0.80	None

a. In cases where both a common space type and a building-specific space type (see Table G3.7-2) are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-1 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (I-P) (Continued)

Common <i>Space</i> Types <sup>a</sup>	Lighting Power Density, W/ft <sup>2</sup>	<i>Occupancy Sensor</i> Reduction <sup>b</sup>
Mother's/wellness room	<u>1.13</u>	<u>24%</u>
All other lounge/breakroom	1.20	None
Office		
Enclosed and $\leq 250 \text{ ft}^2$	1.10	30%
Enclosed and $>250 \text{ ft}^2$	1.10	30%
Open plan	1.10	15% <sup>c</sup>
Parking Area, Interior		
Parking Area, Interior	0.20	<del>15%</del>
Daylight transition zone	<u>1.75</u>	30%
All other parking areas and drive	<u>0.18</u>	<u>30%</u>
Pharmacy Area	1.20	10%
Restroom	0.90	45%
Facility for the visually impaired (and used primarily by residents)	<del>1.52</del>	4 <del>5%</del>
All other restroom	<del>0.90</del>	<del>45%</del>
Sales Area	1.70	15%
Seating Area, General	0.68	10%
Security Screening		
Airport/bus/ship/train/transportation screening	<u>1.53</u>	0%
Airport/bus/ship/train/transportation screening queue	0.92	0%
General security screening	<u>1.06</u>	0%
Stairwell	0.60	75%
Storage Room		
Hospital	0.90	45%
≥50 ft <sup>2</sup>	0.80	45%
<50 ft <sup>2</sup>	0.80	45%
Vehicular Maintenance Area	0.70	10%
Workshop		
Workshop	<del>1.90</del>	<del>10%</del>
Preschool through 12th grade, laboratory, and shop classrooms	<u>1.40</u>	<u>30%</u>
All other workshops	<u>1.90</u>	<u>10%</u>
		· ·

a. In cases where both a common space type and a building-specific space type (see Table G3.7-2) are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-2 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (I-P)

<i>Building-</i> Specific <i>Space</i> Types <sup>a</sup>	Lighting Power Density, W/ft <sup>2</sup>	<i>Occupancy Sensor</i> Reduction <sup>b</sup>
Assisted Living Facility		
Chapel (used primarily by residents)	2.77	<del>10%</del>
Recreation room (used primarily by residents)	<del>3.02</del>	10%
Casino—Gaming Area		I
Betting/sportsbook/keno bingo area	<u>1.34</u>	0%
High-limit game area	<u>2.78</u>	0%
Slot machine/digital gaming area	<u>0.90</u>	0%
Table games area	<u>1.80</u>	0%
Convention Center—Exhibit Space	1.30	35%
Correctional Facilities		
Audience seating area	0.70	<u>10%</u>
Classroom	<u>1.30</u>	None
Confinement cells	<u>0.90</u>	<u>10%</u>
Dining	<u>1.30</u>	35%
Dormitory—Living Quarters	1.11	10%
Facility for the Visually Impaired		
Chapel (used primarily by residents)	2.77	<u>10%</u>
Corridor (and used primarily by residents)	<u>1.15</u>	25%
Dining (and used primarily by residents)	<u>3.32</u>	35%
Lobby (and used primarily by residents)	<u>2.26</u>	25%
Recreation room (used primarily by residents)	<u>3.02</u>	<u>10%</u>
Restroom (and used primarily by residents)	<u>1.52</u>	<u>45%</u>
Fire Station—Sleeping Quarters	0.30	10%
Gymnasium/Fitness Center		
Exercise area	0.90	35%
Playing area	1.40	35%
Health Care Facility		
Control room (MRI/CT/Radiology/PET)	2.14	<u>10%</u>
Emergency room	<del>2.70</del>	<del>10%</del>
Exam/treatment room	1.50	10%
Hospital corridor	<u>1.00</u>	<u>25%</u>
Lounge	0.80	None
Medical supply room	1.40	45%
Nursery	0.60	10%

a. In cases where both a common space type (see Table G3.7-1) and a building-specific space type are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-2 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (I-P) (Continued)

Nurse's station1.00Operating room2.20Patient room0.70Physical therapy room0.90Recovery room0.80Telemedicine2.21Library2.21Reading area1.20Stacks1.70Manufacturing Facility2.10Detailed manufacturing area2.10Equipment room1.20Low bay area (<25 ft floor-to-ceiling height)1.20	<i>ancy Sensor</i> duction <sup>b</sup>
Operating room2.20Patient room0.70Physical therapy room0.90Recovery room0.80Telemedicine2.21Library2.21Reading area1.20Stacks1.70Manufacturing Facility2.10Detailed manufacturing area2.10Equipment room1.20Low bay area (<25 ft floor-to-ceiling height)	10%
Patient room0.70Physical therapy room0.90Recovery room0.80Telemedicine2.21Library2.21Reading area1.20Stacks1.70Manufacturing Facility2.10Detailed manufacturing area2.10Equipment room1.20Low bay area (<25 ft floor-to-ceiling height)	10%
Physical therapy room0.90Recovery room0.80Telemedicine2.21Library2.21Reading area1.20Stacks1.70Manufacturing Facility2.10Detailed manufacturing area2.10Equipment room1.20Low bay area (<25 ft floor-to-ceiling height)	10%
Recovery room       0.80 <u>Telemedicine</u> 2.21         Library       1.20         Reading area       1.20         Stacks       1.70         Manufacturing Facility       2.10         Detailed manufacturing area       2.10         Equipment room       1.20         Low bay area (<25 ft floor-to-ceiling height)	10%
Telemedicine       2.21         Library       Ibrary         Reading area       1.20         Stacks       1.70         Manufacturing Facility       2.10         Detailed manufacturing area       2.10         Equipment room       1.20         Low bay area (<25 ft floor-to-ceiling height)	10%
Library         Reading area         1.20         Stacks         1.70         Manufacturing Facility         Detailed manufacturing area         2.10         Equipment room         Low bay area (<25 ft floor-to-ceiling height)	10%
Reading area       1.20         Stacks       1.70         Manufacturing Facility       2.10         Detailed manufacturing area       2.10         Equipment room       1.20         Low bay area (<25 ft floor-to-ceiling height)	
Stacks     1.70       Manufacturing Facility       Detailed manufacturing area     2.10 <i>Equipment</i> room     1.20       Low bay area (<25 ft floor-to-ceiling height)	15%
Manufacturing Facility         Detailed manufacturing area       2.10 <i>Equipment</i> room       1.20         Low bay area (<25 ft floor-to-ceiling height)	15%
Detailed manufacturing area     2.10       Equipment room     1.20       Low bay area (<25 ft floor-to-ceiling height)	
Equipment room1.20Low bay area (<25 ft floor-to-ceiling height)	10%
Low bay area (<25 ft <i>floor</i> -to-ceiling height) <u>1.20</u>	10%
	<u>10%</u>
Extra high bay area (>50 ft <i>floor</i> -to-ceiling height) 1.32	10%
High bay area (25 to 50 ft <i>floor</i> -to-ceiling height)1.70	10%
Low bay area (<25 ft floor- to-ceiling height)	10%
Extra-high bay area (>50 ft floor-to-ceiling height)1.32	10%
Museum	
General exhibition area 1.00	10%
Restoration room 1.70	10%
Performing Arts Theater—Dressing Room         0.64	<u>0%</u>
Post Office—Sorting Area 1.20	10%
Religious Facility	
Audience seating area <u>1.70</u>	10%
Fellowship hall 0.90	10%
Worship/pulpit/choir area 2.40	10%
Retail Facilities	
Dressing/fitting room 0.89	10%
<u>Hair care</u> <u>1.04</u>	<u>10%</u>
Manicure/pedicure 0.70	<u>10%</u>
Mall concourse 1.70	10%
<u>Massage</u> <u>0.81</u>	10%
Sports Arena—Playing Area	
Class I facility 4.61	1.00/

a. In cases where both a common space type (see Table G3.7-1) and a building-specific space type are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-2 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (I-P) (Continued)

<i>Building</i> -Specific <i>Space</i> Types <sup>a</sup>	Lighting Power Density, W/ft <sup>2</sup>	<i>Occupancy Sensor</i> Reduction <sup>b</sup>
Class II facility	3.01	10%
Class III facility	2.26	10%
Class IV facility	1.50	10%
Natatorium		
Class I facility	<u>3.57</u>	0%
Class II facility	2.38	0%
Class III facility	<u>1.42</u>	0%
Class IV facility	<u>0.48</u>	0%
Transportation Facility		
Airport hanger	<u>2.25</u>	0%
Baggage/carousel area	1.00	10%
Airport concourse	0.60	10%
Passenger loading area	<u>1.11</u>	<u>10%</u>
Ticket counter	1.50	10%
Warehouse—Storage Area		
Medium-to-bulky, palletized items	0.90	45%
Smaller, hand-carried items	1.40	45%

a. In cases where both a common space type (see Table G3.7-1) and a building-specific space type are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

Modify Normative Appendix G as shown (SI).

# Table G3.7-1 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (SI)

Common <i>Space</i> Types <sup>a</sup>	Lighting Power Density, W/m <sup>2</sup>	<i>Occupancy Sensor</i> Reduction <sup>b</sup>
Atrium		
<6.1 m in height	0.404 per metre in total height	<u>10%</u>
6.1 and 12.2 m in height		<u>10%</u>
>12.2 m in height	$\frac{5.382 + 0.269 \text{ per metre}}{\text{in total height}}$	<u>10%</u>
Audience Seating Area		
Auditorium	9.69	10%
Convention center	7.53	10%
Exercise center	<del>3.23</del>	<del>10%</del>
Gymnasium	4.41	10%
Motion picture theater	12.92	10%
Penitentiary	<del>7.53</del>	<del>10%</del>
Performing arts theater	27.99	10%
Religious facility	<del>18.30</del>	<del>10%</del>
In a sports arena	4.31	10%
Transportation facility	<del>5.38</del>	<del>10%</del>
All other audience seating area	9.69	10%
Atrium		
<12.2 m in height	0.404 per meter in total- height	<del>10%</del>
>12.2 m in height	5.382 + 0.269 per foot- in total height	<del>10%</del>
Banking Activity Area	16.15	10%
Classroom/Lecture Hall/Training Room		
Penitentiary	<del>13.99</del>	None
Preschool through 12th grade, laboratory, and shop classrooms	15.07	30%
All other classroom/lecture hall/training room	15.07	None
Computer Room	<u>23.03</u>	<u>35%</u>
Conference/Meeting/Multipurpose Room	13.99	None
Confinement Cells	<del>9.69</del>	<del>10%</del>
Copy/Print Room	9.69	10%
Corridor	<u>5.38</u>	<u>25%</u>
Facility for the visually impaired (and used primarily by residents)	<del>12.38</del>	<del>25%</del>

a. In cases where both a common space type and a building-specific space type (see Table G3.7-2) are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-1 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (SI) (Continued)

Common <i>Space</i> Types <sup>a</sup>	Lighting Power Density, W/m <sup>2</sup>	<i>Occupancy Sensor</i> Reduction <sup>b</sup>	
Hospital	<del>10.76</del>	<del>25%</del>	
Manufacturing facility	<del>5.38</del>	<del>25%</del>	
All other corridor	<del>5.38</del>	<del>25%</del>	
Courtroom	20.45	10%	
Computer Room	<del>23.03</del>	<del>35%</del>	
Dining Area			
Penitentiary	<del>13.99</del>	<del>35%</del>	
Facility for the visually impaired (and used primarily by residents)	<del>35.74</del>	<del>35%</del>	
Bar/lounge or leisure dining	15.07	35%	
Cafeteria or fast food dining	9.69	35%	
Family dining	22.60	35%	
All other dining area	9.69	35%	
Electrical/Mechanical Room	16.15	30%	
Emergency Vehicle Garage	8.61	10%	
<u>Equipment Room</u>	<u>12.92</u>	<u>10%</u>	
Food Preparation Area	12.92	30%	
Guest Room	11.84	45%	
Judges Chambers	<del>13.99</del>	<del>30%</del>	
Dwelling Unit	<del>11.5</del>	None	
Laboratory			
In or as a classroom Preschool through 12th grade, laboratory, and shop classrooms	15.06	30%	
All other laboratory except in or as a classroom	15.07	10%	
Laundry/Washing Area	6.46	10%	
Loading Dock, Interior	6.35	10%	
Lobby			
Facility for the visually impaired (and used primarily by residents)	<del>24.33</del>	<del>25%</del>	
Elevator	8.61	25%	
Hotel	11.84	25%	
Motion picture theater	11.84	25%	
Performing arts theater	35.52	25%	
All other lobby	13.99	25%	
Locker Room	6.46	25%	
Lounge/Breakroom			
Healtheare facility	<del>8.61</del>	None	

a. In cases where both a common space type and a building-specific space type (see Table G3.7-2) are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-1 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (SI) (Continued)

Common <i>Space</i> Types <sup>a</sup>	Lighting Power Density, W/m <sup>2</sup>	<i>Occupancy Sensor</i> Reduction <sup>b</sup>
Mother's/wellness room	<u>12.15</u>	<u>24%</u>
All other lounge/breakroom	12.92	None
Office		
Enclosed and $\leq 23 \text{ m}^2$	11.84	30%
Enclosed and $>23 \text{ m}^2$	11.84	30%
Open plan	11.84	15% <sup>c</sup>
Parking Area, Interior		•
Parking Area, Interior	<del>2.15</del>	<del>15%</del>
Daylight transition zone	<u>18.83</u>	<u>30%</u>
All other parking areas and drive	<u>1.94</u>	<u>30%</u>
Pharmacy Area	12.92	10%
Restroom	<u>9.69</u>	<u>45%</u>
Facility for the visually impaired (and used primarily by residents)	<del>16.36</del>	4 <del>5%</del>
All other restroom	<del>9.69</del>	4 <del>5%</del>
Sales Area	18.30	15%
Seating Area, General	7.32	10%
Security Screening		·
Airport/bus/ship/train/transportation screening	<u>16.46</u>	<u>0%</u>
Airport/bus/ship/train/transportation screening queue	<u>9.89</u>	<u>0%</u>
General security screening	<u>11.41</u>	<u>0%</u>
Stairwell	<u>6.46</u>	<u>75%</u>
Storage Room		
Hospital	<del>9.69</del>	4 <del>5%</del>
≥50 ft <sup>2</sup>	8.61	45%
<50 ft <sup>2</sup>	8.61	45%
Vehicular Maintenance Area	7.53	10%
Workshop		•
Workshop	<del>20.45</del>	10%
Preschool through 12th grade, laboratory, and shop classrooms	<u>15.06</u>	<u>10%</u>
All other workshops	20.44	10%

a. In cases where both a common space type and a building-specific space type (see Table G3.7-2) are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-2 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (SI)

<i>Building-</i> Specific <i>Space</i> Types <sup>a</sup>	<i>Lighting Power</i> <i>Density</i> , W/m <sup>2</sup>	Occupancy sensor Reduction <sup>b</sup>	
Assisted Living Facility			
Chapel (used primarily by residents)	<del>29.80</del>	<del>10%</del>	
Recreation room (used primarily by residents)	<del>32.49</del>	10%	
Casino—Gaming Area		1	
Betting/sportsbook/keno bingo area	<u>14.41</u>	<u>0%</u>	
High-limit game area	<u>29.91</u>	0%	
Slot machine/digital gaming area	<u>9.68</u>	0%	
Table games area	<u>19.37</u>	0%	
Convention Center—Exhibit Space	13.98	35%	
Correctional Facilities			
Audience seating area	<u>7.53</u>	<u>10%</u>	
Classroom	<u>13.98</u>	None	
Confinement cells	<u>9.68</u>	<u>10%</u>	
Dining	<u>13.98</u>	<u>35%</u>	
Dormitory—Living Quarters	11.94	10%	
Facility for the Visually Impaired		1	
Chapel (used primarily by residents)	<u>29.81</u>	<u>10%</u>	
Corridor (and used primarily by residents)	<u>12.37</u>	<u>25%</u>	
Dining (and used primarily by residents)	<u>35.72</u>	<u>35%</u>	
Lobby (and used primarily by residents)	<u>24.32</u>	<u>25%</u>	
Recreation room (used primarily by residents)	<u>32.49</u>	<u>10%</u>	
Restroom (and used primarily by residents)	<u>16.36</u>	<u>45%</u>	
Fire Station—Sleeping Quarters	3.23	10%	
Gymnasium/Fitness Center			
Exercise area	9.68	35%	
Playing area	15.06	35%	
Health Care Facility			
Control room (MRI/CT/radiology/PET)	23.02	<u>10%</u>	
Emergency room	<del>29.05</del>	<del>10%</del>	
Exam/treatment room	16.14	10%	
Hospital corridor	<u>10.76</u>	<u>25%</u>	
Lounge	<u>8.61</u>	None	
Medical supply room	15.06	45%	
Nursery	6.47	10%	

a. In cases where both a common space type (see Table G3.7-1) and a building-specific space type are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-2 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (SI) (Continued)

Building-Specific Space Types <sup>a</sup>	Lighting Power Density, W/m <sup>2</sup>	<i>Occupancy sensor</i> Reduction <sup>b</sup>
Nurse's station	10.76	10%
Operating room	23.67	10%
Patient room	7.53	10%
Physical therapy room	9.68	10%
Recovery room	8.61	10%
Telemedicine	<u>23.78</u>	<u>10%</u>
Library		
Reading area	12.91	15%
Stacks	18.29	15%
Manufacturing Facility		
Detailed manufacturing area	22.60	10%
Equipment room	<del>12.91</del>	<del>10%</del>
Low bay area (<25 ft floor-to-ceiling height)	<u>12.91</u>	<u>10%</u>
Extra-high bay area (>50 ft <i>floor</i> -to-ceiling height)	<del>14.20</del>	<del>10%</del>
High bay area (25 to 50 ft <i>floor</i> -to-ceiling height)	18.29	10%
Low bay area (<25 ft floor to ceiling height)	<del>12.91</del>	<del>10%</del>
Extra-high bay area (>50 ft floor-to-ceiling height)	<u>14.20</u>	<u>10%</u>
Museum		
General exhibition area	10.76	10%
Restoration room	18.29	10%
Performing Arts Theater—Dressing Room	<u>6.89</u>	<u>0%</u>
Post Office—Sorting Area	12.91	10%
Religious Facility		
Audience seating area	<u>18.29</u>	<u>10%</u>
Fellowship hall	9.68	10%
Worship/pulpit/choir area	25.82	10%
Retail Facilities		
Dressing/fitting room	9.58	10%
Hair care	<u>11.19</u>	<u>10%</u>
Manicure/pedicure	7.53	<u>10%</u>
Mall concourse	18.29	10%
Massage	<u>8.72</u>	<u>10%</u>
Sports Arena—Playing Area		
Class I facility	49.60	10%

a. In cases where both a common space type (see Table G3.7-1) and a building-specific space type are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# Table G3.7-2 Performance Rating Method Lighting Power Density Allowances and Occupancy Sensor Reductions Using the Space-by-Space Method (SI) (Continued)

Building-Specific Space Types <sup>a</sup>	<i>Lighting Power</i> <i>Density</i> , W/m <sup>2</sup>	Occupancy sensor Reduction <sup>b</sup>
Class II facility	32.38	10%
Class III facility	24.32	10%
Class IV facility	16.14	10%
<u>Natatorium</u>		
Class I facility	<u>38.41</u>	<u>0%</u>
Class II facility	25.61	<u>0%</u>
Class III facility	<u>15.28</u>	<u>0%</u>
Class IV facility	<u>5.16</u>	<u>0%</u>
Transportation Facility		
Airport hanger	24.21	<u>0%</u>
Baggage/carousel area	10.76	10%
Airport concourse	6.46	10%
Passenger loading area	<u>11.94</u>	<u>10%</u>
Ticket counter	16.14	10%
Warehouse—Storage Area		
Medium-to-bulky, palletized items	9.68	45%
Smaller, hand-carried items	15.06	45%

a. In cases where both a common space type (see Table G3.7-1) and a building-specific space type are listed, the building-specific space type shall apply.

b. For manual-ON or partial-auto-ON occupancy sensors, the occupancy sensor reduction factor shall be multiplied by 1.25.

# POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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Founded in 1894, ASHRAE is a global professional society committed to serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration, and their allied fields.

As an industry leader in research, standards writing, publishing, certification, and continuing education, ASHRAE and its members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with organizations in the HVAC&R community and across related industries.

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