

# STANDARD

**ANSI/ASHRAE/IES Addendum w to  
ANSI/ASHRAE/IES Standard 90.1-2022**

# Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on October 11, 2024; by the Illuminating Engineering Society on October 15, 2024; and by the American National Standards Institute on November 5, 2024.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (<https://www.ashrae.org/continuous-maintenance>).

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**FOREWORD**

*Addendum w reduces the decorative lighting allowance to reflect current LED technology and practices. More efficient lighting sources allow for a lower allowance. The decorative lighting allowance was first included in the 1999 edition of the standard and was 1.0 W/ft<sup>2</sup>. The value was reduced in 2016 to 0.75 W/ft<sup>2</sup> and again in 2022 to 0.7 W/ft<sup>2</sup>. This addendum provides a fixed value of 0.50 W/ft<sup>2</sup> for all spaces.*

*Because this is an optional allowance in the Standard, a cost effectiveness analysis was not required for this addendum.*

**Note:** In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strike through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

**Addendum w to Standard 90.1-2022**

**Modify Table 9.5.2.2 as shown (I-P). The remainder of Table 9.5.2.2 is unchanged.**

**9.5.2.2 Additional Interior Lighting Power.** When using the Space-by-Space Method, an increase in the *interior lighting power allowance* is allowed for specific lighting functions. Additional power shall be allowed only if the specified lighting is installed and controlled independently of the *general lighting* in accordance with Table 9.5.2.2. This additional power shall be used only for the specified *luminaires* and shall not be used for any other purpose unless otherwise indicated. Lighting control requirements referenced in Section 9.5.2.2 are the only required controls for these applications.

[ . . . ]

**Table 9.5.2.2 Additional Lighting Power**

Section	Description	Additional Lighting Power	Required Controls
9.5.2.2(a)	Decorative	<del>0.70</del> <u>0.50</u> W/ft <sup>2</sup>	Section 9.4.1.1(j)
9.5.2.2(b)	Retail sales	750 W + (Retail Area 1 × 0.40 W/ft <sup>2</sup> ) + (Retail Area 2 × 0.40 W/ft <sup>2</sup> ) + (Retail Area 3 × 0.70 W/ft <sup>2</sup> ) + (Retail Area 4 × 1.00 W/ft <sup>2</sup> )	Section 9.4.1.1(j)
9.5.2.2(c)	Video conferencing	0.50 W/ft <sup>2</sup>	See Tables 9.5.2.1-1 and 9.5.2.1-2 space types for required controls.

**Notes:**

- Retail Area 1 = the *floor* area for all products not listed in Retail Areas 2, 3, or 4
- Retail Area 2 = the *floor* area used for the sale of vehicles, sporting goods, and small electronics
- Retail Area 3 = the *floor* area used for the sale of furniture, clothing, cosmetics, and artwork
- Retail Area 4 = the *floor* area used for the sale of jewelry, crystal, and china

**Modify Table 9.5.2.2 as shown (SI). The remainder of Table 9.5.2.2 is unchanged.**

**9.5.2.2 Additional Interior Lighting Power.** When using the Space-by-Space Method, an increase in the *interior lighting power allowance* is allowed for specific lighting functions. Additional power shall be allowed only if the specified lighting is installed and controlled independently of the *general lighting* in accordance with Table 9.5.2.2. This additional power shall be used only for the specified *luminaires* and shall not be used for any other purpose unless otherwise indicated. Lighting control requirements referenced in Section 9.5.2.2 are the only required controls for these applications.

[ . . . ]

**Table 9.5.2.2 Additional Lighting Power**

Section	Description	Additional Lighting Power	Required Controls
9.5.2.2(a)	Decorative	<del>7.53</del> <u>5.4</u> W/m <sup>2</sup>	Section 9.4.1.1(j)
9.5.2.2(b)	Retail sales	750 W + (Retail Area 1 × 4.30 W/m <sup>2</sup> ) + (Retail Area 2 × 4.30 W/m <sup>2</sup> ) + (Retail Area 3 × 7.53 W/m <sup>2</sup> ) + (Retail Area 4 × 10.76 W/m <sup>2</sup> )	Section 9.4.1.1(j)
9.5.2.2(c)	Video conferencing	5.38 W/m <sup>2</sup>	See Tables 9.5.2.1-1 and 9.5.2.1-2 <i>space</i> types for required controls.

**Notes:**

- Retail Area 1 = the *floor* area for all products not listed in Retail Areas 2, 3, or 4
- Retail Area 2 = the *floor* area used for the sale of vehicles, sporting goods, and small electronics
- Retail Area 3 = the *floor* area used for the sale of furniture, clothing, cosmetics, and artwork
- Retail Area 4 = the *floor* area used for the sale of jewelry, crystal, and china

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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.

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