

ADDENDA

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

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

Approved by ASHRAE and the American National Standards Institute on July 31, 2025; and by the Illuminating Engineering Society on July 2, 2025.

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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ISSN 1041-2336



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FOREWORD

Addendum ck modifies Section 9.1.4 to align with current technology in the lighting industry and the prevalence of LED light sources and drivers. The addendum modifies how the wattage of lighting equipment is determined in three of the subparagraphs. Additionally, an exception that prohibits field changeable ballast factors is deleted and replaced with new language addressing factory-set or field-adjustable wattage. This addendum does not change the stringency of the standard or the cost effectiveness.

Informative 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 ck to Standard 90.1-2022

9.1.4 Interior and Exterior Luminaire Wattage. The wattage of lighting equipment, when used to calculate either *installed interior lighting power* or *installed exterior lighting power*, shall be determined in accordance with the following criteria:

- a. ~~For The wattage of lighting equipment connected to line voltage with replaceable lamps, the wattage shall be the manufacturers' labeled maximum wattage of the specified and installed lamps.~~
- b. ~~The wattage of line voltage lighting equipment with remote ballasts/drivers or similar devices shall be the total input wattage of all line voltage components in the system. For lighting equipment with integral ballasts/drivers, remote ballasts/drivers, or similar devices, with~~
 1. factory-set wattage for lumen output settings, the wattage shall be the labeled wattage of the luminaire.
 2. field-adjustable wattage for lumen output settings, the wattage shall be the maximum field-adjustable wattage of the luminaire.
- ~~**Exception to (b):** Lighting power calculations for ballasts with adjustable ballast factors shall be based on the ballast factor that will be used in the space, provided that the ballast factor is not user field-changeable.~~
- c. ~~The wattage of line voltage lighting track, and plug-in busway, and other flexible systems designed to allow the addition and/or relocation of luminaires lighting equipment without altering the wiring of the system shall be the lesser of~~
 1. the specified wattage of the luminaires lighting equipment included in the system but not less than with a minimum of 10 W/lin ft of the track/busway or
 2. the labeled wattage limit of the permanent current-limiting devices on the system, remote driver, or transformer supplying the system.
- d. ~~The wattage of low-voltage lighting track, cable conductor, rail conductor, and other flexible lighting systems that allow the addition and/or relocation of lighting equipment without altering the wiring of the system shall be the specified wattage of the ballast/driver or transformer supplying the system.~~
- e. ~~The wattage of a DC low-voltage lighting system that employs flexible cabling for plug-in connection of the lighting equipment and a remote power supply shall be labeled maximum wattage of the system power supply. For systems that also provide power to equipment other than lighting, the wattage shall be labeled maximum wattage of the system power supply reduced by the wattage of the non-lighting equipment connected to the system.~~
- f. ~~The wattage of a retrofitted luminaire shall be the manufacturer's labeled input wattage power of the new light source plus driver.~~
- g. ~~The wattage of all other miscellaneous lighting equipment shall be the specified wattage of the lighting equipment.~~

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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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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