



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

**Public Review Draft**

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

**First Public Review (March 2025)  
(Draft Shows Proposed Changes to Current Standard)**

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## **FOREWORD**

*This addendum modifies the language of 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 sub-paragraphs. Additionally, an exception that prohibited field changeable ballast factors was 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.*

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

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## Addendum ck to 90.1-2022

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**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. ~~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 9.1.4(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. ~~d.~~ 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. ~~e.~~ The wattage of a retrofitted luminaire shall be the manufacturer's labeled input wattage power of the new light source plus driver.
- g. ~~f.~~ The wattage of all other miscellaneous lighting equipment shall be the specified wattage of the lighting equipment.