

**INTERPRETATION IC 90.1-2016-8 OF  
ANSI/ASHRAE/IES STANDARD 90.1-2016  
Energy Standard for Buildings Except Low-Rise Residential Buildings**

**Date Approved:** January 13, 2019

**Request from:** Scott Ziegenfus, Hubbell Lighting Inc., 701 Millennium Blvd., Greenville, SC 29607.

**Reference:** This request for interpretation refers to the requirements presented in ANSI/ASHRAE/IES Standard 90.1-2016, Section 9.2.2.3, regarding non-human light usage exemption for LPD count.

**Background:** It has been a precedent in the 90.1 lighting section to exempt non-human applications and applications for specific special needs such as medical procedures for lighting power allowance calculations. A permanently installed anti-microbial Violet light to provide continuous disinfection when an area becomes unoccupied and is programmed to disinfect the space for a specified period of time is not specifically mentioned as an exemption for LPA. However, this application can be linked to exemption (3) Lighting specifically designed for use only during medical or dental procedures and lighting integral to medical equipment and exemption (6) Lighting specifically designed for the life support of nonhuman life forms. This application is arguably a medical procedure whose purpose is to have an intended effect on nonhuman life forms and not to enable visibility for people.

**Interpretation:** The use of anti-microbial lighting application for disinfection of a space follows the spirit and meaning of specific exemptions within the exemption list of 9.2.2.3 for Interior Lighting Power Allowance and should be included as an exemption as long as it is in addition to general lighting and is controlled by an independent control device.

**Question:** Is this interpretation correct?

**Answer:** Yes, the committee agrees with this interpretation. In a dual-function luminaire, only the wattage for the anti-microbial function is exempt.

**Comments:** Exemption 6 in the background would not apply as the purpose of an anti-microbial luminaire would be to kill the nonhuman life forms not support them.