

# CECD1-24-22

IECC: C405.3.1

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## 2024 International Energy Conservation Code [CE Project]

Revise as follows:

**C405.3.1 Total connected interior lighting power.** The total connected interior lighting power shall be determined in accordance with Equation 4-12.

$$TCLP = [LVL + BLL + LED + TRK + Other]$$

(Equation 4-12)

where:

*TCLP* = Total connected lighting power (watts).

*LVL* = For luminaires with lamps connected directly to building power, such as line voltage lamps, the rated wattage of the lamp.

*BLL* = For luminaires incorporating a ballast or transformer, the rated input wattage of the ballast or transformer when operating that lamp.

*LED* = For light-emitting diode luminaires with either integral or remote drivers, the rated wattage of the luminaire.

*TRK* = For lighting track, cable conductor, rail conductor, and plug-in busway systems that allow the addition and relocation of luminaires without rewiring, the wattage shall be one of the following:

1. The specified wattage of the luminaires, but not less than 8 W per linear foot (25 W/lin m).
2. The wattage limit of the permanent current-limiting devices protecting the system.
3. The wattage limit of the transformer supplying the system.

Other = The wattage of all other luminaires and lighting sources not covered previously and associated with interior lighting verified by data supplied by the manufacturer or other *approved* sources.

The connected power associated with the following lighting equipment and applications is not included in calculating total connected lighting power.

1. Emergency lighting that is automatically off during normal operations.
2. Lighting in spaces specifically designed for use by occupants with special lighting needs, including those with visual impairment and other medical and age-related issues.
- ~~3.~~ ~~Casino gaming areas.~~
- ~~4.~~3. Mirror lighting in makeup or dressing areas used for video broadcasting, video or film recording, or live theatrical and music performance.
- ~~5.~~4. Task lighting for medical and dental purposes that is in addition to general lighting.
- ~~6.~~5. Display lighting for exhibits in galleries, museums and monuments that is in addition to general lighting.
- ~~7.~~6. Lighting in any location that is specifically used for video broadcasting, video or film recording, or live theatrical and music performance.
- ~~8.~~7. Lighting for photographic processes.
- ~~9.~~8. Lighting integral to equipment or instrumentation and installed by the manufacturer.
- ~~10.~~9. Task lighting for plant growth or maintenance.
- ~~11.~~10. Advertising signage or directional signage.
- ~~12.~~11. Lighting for food warming.
- ~~13.~~12. Lighting equipment that is for sale.
- ~~14.~~13. Lighting demonstration equipment in lighting education facilities.
- ~~15.~~14. Lighting approved because of safety considerations.
- ~~16.~~15. Lighting in retail display windows, provided that the display area is enclosed by ceiling-height partitions.
- ~~17.~~16. Furniture-mounted supplemental task lighting that is controlled by automatic shutoff.

~~18-17.~~ Exit signs.

~~19-18.~~ Antimicrobial lighting used for the sole purpose of disinfecting a space.

~~20-19.~~ Lighting in sleeping units and dwelling units.

**Reason:** In PCD#1 the space-by-space lighting power allowance table C405.3.2(2) now includes space types and allowances for 4 types of casino gaming areas. When these were added, the existing exemption in IECC 2021 for "casino gaming areas" should have been removed because these are areas now have power allowances and are no longer exempt from the lighting power requirements. The proposal deletes that exemption.

**Cost Impact:** The code change proposal will neither increase nor decrease the cost of construction.

No increase