## WAC 51-11C-405052 Section C405.4.2—Interior lighting power requirements.

C405.4.2 Interior lighting power. The total interior lighting power allowance (watts) is determined according to Table c405.4.2(1) using the Building Area Method, or Table C405.4.2(2) using the Space-bySpace Method, for all areas of the building covered in this permit.

C405.4.2.1 Building area method. For the Building Area Method, the interior lighting power allowance is the floor area for each building area type listed in Table c405.4.2(1) times the value from Table C405.4.2(1) for that area. For the purposes of this method, an "area" shall be defined as all contiguous spaces that accommodate or are associated with a single building area type as listed in Table C405.4.2(1). Where this method is used to calculate the total interior lighting power for an entire building, each building area type shall be treated as a separate area.
C405.4.2.2 Space-by-Space Method. For the Space-by-Space Method, the interior lighting power allowance is determined by multiplying the floor area of each space times the value for the space type in Table C405.4.2(2) that most closely represents the proposed use of the space, and then summing the lighting power allowances for all spaces. Tradeoffs among spaces are permitted.

Each area enclosed by partitions that are 80 percent of the ceiling height or taller shall be considered a separate space and assigned the appropriate space type from Table C405.4.2(2). If a space has multiple functions where more than one space type is applicable, that space shall be broken up into smaller subspaces, each using their own space type. Any of these subspaces that are smaller in floor area than 20 percent of the enclosed space and less than 1,000 square feet need not be broken out separately.
C405.4.2.2.1 Additional interior lighting power. Where using the Space-by-Space Method, an increase in the interior lighting power allowance is permitted for specific lighting functions. Additional power shall be permitted only where the specified lighting is installed and automatically controlled separately from the general lighting, to be turned off during nonbusiness hours. This additional power shall be used only for the specified luminaires and shall not be used for any other purpose. An increase in the interior lighting power allowance is permitted for lighting equipment to be installed in sales areas specifically to highlight merchandise. The additional lighting power shall be determined in accordance with Equation 4-11.

## (Equation 4-11)

Additional Interior Lighting Power Allowance $=500$ watts + (Retail Area $1 \times 0.6 \mathrm{~W} / \mathrm{ft}^{2}$ ) + (Retail Area $2 \times 0.6 \mathrm{~W} / \mathrm{ft}^{2}$ ) + (Retail Area $\left.3 \times 1.4 \mathrm{~W} / \mathrm{ft}^{2}\right)+\left(\right.$ Retail Area $\left.4 \times 2.5 \mathrm{~W} / \mathrm{ft}^{2}\right)$.
Where:
Retail Area $1=$ The floor area for all products not listed in $\mathrm{Re}-$ tail Area 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.
EXCEPTION: Other merchandise categories are permitted to be included in Retail Areas 2 through 4, provided that justification documenting the need for additional lighting power based on visual inspection, contrast, or other critical display is approved by the code official.
[Statutory Authority: RCW 19.27A.025, 19.27A.160, and 19.27.074. WSR 16-03-072, § 51-11C-405052, filed 1/19/16, effective 7/1/16. Statutory Authority: RCW 19.27A.020, 19.27A.025 and chapters 19.27 and 34.05 RCW. WSR 13-04-056, § 51-11C-405052, filed 2/1/13, effective 7/1/13.]

## (Effective July 1, 2020)

## WAC 51-11C-405052 Section C405.4.2—Interior lighting power requirements.

C405.4.2 Interior lighting power allowance. The total interior lighting power allowance (watts) is determined according to Table C405.4.2(1) using the Building Area Method, or Table C405.4.2(2) using the Space-by-Space Method, for all areas of the building covered in this permit.

C405.4.2.1 Building area method. For the Building Area Method, the interior lighting power allowance is the floor area for each building area type listed in Table C405.4.2(1) times the value from Table C405.4.2(1) for that area. For the purposes of this method, an "area" shall be defined as all contiguous spaces that accommodate or are associated with a single building area type as listed in Table C405.4.2(1). Where this method is used to calculate the total interior lighting power for an entire building, each building area type shall be treated as a separate area.
C405.4.2.2 Space-by-Space Method. For the Space-by-Space Method, the interior lighting power allowance is determined by multiplying the floor area of each space times the value for the space type in Table C405.4.2(2) that most closely represents the proposed use of the space, and then summing the lighting power allowances for all spaces. Tradeoffs among spaces are permitted.

Each area enclosed by partitions that are 80 percent of the ceiling height or taller shall be considered a separate space and assigned the appropriate space type from Table C405.4.2(2). If a space has multiple functions where more than one space type is applicable, that space shall be broken up into smaller subspaces, each using their own space type. Any of these subspaces that are smaller in floor area than 20 percent of the enclosed space and less than 1,000 square feet need not be broken out separately.
C405.4.2.2.1 Additional interior lighting power. Where using the Space-by-Space Method, an increase in the interior lighting power allowance is permitted for specific lighting functions. Additional power shall be permitted only where the specified lighting is installed and automatically controlled separately from the general lighting, to be turned off during nonbusiness hours. This additional power shall be used only for the specified luminaires and shall not be used for any other purpose. An increase in the interior lighting power allowance is permitted for lighting equipment to be installed in sales areas specifically to highlight merchandise. The additional lighting power shall be determined in accordance with Equation 4-11.

## (Equation 4-11)

Additional Interior Lighting Power Allowance $=500$ watts + (Retail Area $\left.1 \times 0.45 \mathrm{~W} / \mathrm{ft}^{2}\right)+\left(\right.$ Retail Area $\left.2 \times 0.45 \mathrm{~W} / \mathrm{ft}^{2}\right)+($ Retail Area $\left.3 \times 1.05 \mathrm{~W} / \mathrm{ft}^{2}\right)+\left(\right.$ Retail Area $\left.4 \times 1.87 \mathrm{~W} / \mathrm{ft}^{2}\right)$.
Where:
Retail Area $1=$ The floor area for all products not listed in Retail Area 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.
EXCEPTION: Other merchandise categories are permitted to be included in Retail Areas 2 through 4, provided that justification documenting the need for additional lighting power based on visual inspection, contrast, or other critical display is approved by the code official.
[Statutory Authority: RCW 19.27A.020, 19.27A.025, 19.27A.160 and chapter 19.27 RCW. WSR 19-24-040, § 51-11C-405052, filed 11/26/19, effective 7/1/20. Statutory Authority: RCW 19.27A.025, 19.27A.160, and 19.27.074. WSR 16-03-072, § 51-11C-405052, filed 1/19/16, effective 7/1/16. Statutory Authority: RCW 19.27A.020, 19.27A.025 and chapters 19.27 and 34.05 RCW. WSR 13-04-056, § 51-11C-405052, filed 2/1/13, effective 7/1/13.]

