

Dwelling General Lighting Load Calculator

Calculate a dwelling general-lighting load from floor area and an entered VA-per-square-foot basis, with an optional documented override.

Generated October 10, 2026

<https://www.elecatrix.com/residential-load-service/dwelling-general-lighting-load-calculator/>

Inputs

Input	Value	Unit
Dwelling floor area	2000	sq ft
Entered lighting basis	3	VA/sq ft
Known load override	N/A	VA
Load basis	Area x entered basis	

Results

Result	Value	Unit
Area-based load	6000	VA
Selected lighting load line item	6000	VA

Calculation details

Detail	Value	Unit
Selected basis	floor area x entered VA/sq ft basis	
Calculation basis	Area-based dwelling lighting load equals floor area multiplied by the user-entered VA-per-square-foot basis. An override can carry a verified project worksheet value.	
Planning boundary	Preliminary dwelling load line item only; no universal NEC/CEC allowance, demand factor, service rating, feeder, OCPD, or AHJ approval is made.	

Formulas

$L_{\text{area}} = A_{\text{floor}} \times B_{\text{lighting}}$

$L_{\text{selected}} = \text{begin cases } L_{\text{area}}, \& \text{ area basis } L_{\text{override}}, \& \text{ override basis end cases}$

Warnings and limitations

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Residential lighting allowances and demand treatment depend on the adopted NEC/CEC edition, AHJ worksheet, jurisdiction, and project method. Verify the entered basis before using this line item in a service or feeder review.