

Footcandle Calculator

Estimates average illuminance in footcandles and lux from fixture lumens, area, coefficient of utilization, and light loss factor.

Generated October 10, 2026

<https://www.elecatrix.com/lighting/footcandle-calculator/>

Inputs

Input	Value	Unit
Lumens	16000	lm
Area	300	sq ft
Coefficient of utilization	0.7	CU
Light loss factor	0.8	LLF

Results

Result	Value	Unit
Footcandles	29.8667	fc
Lux	321.482	lux
Effective lumens	8960	lm
CU x LLF factor	0.56	x

Calculation details

Detail	Value	Unit
Calculation basis	Footcandles equal effective lumens divided by area. Effective lumens apply coefficient of utilization and light loss factor.	
Design boundary	Lighting estimate only; no photometric file, fixture distribution, mounting height, glare, controls, emergency lighting, energy code, or final design result is verified.	

Formulas

Effective lumens = Lumens x CU x LLF

Footcandles = (Effective lumens/Area)

Lux = Footcandles x 10.76390625

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Warnings and limitations

This footcandle estimate is for early lighting planning. It does not replace fixture photometrics, spacing checks, glare review, energy-code review, or project lighting design.