

Lighting Uniformity Calculator

Estimate illuminance uniformity ratios from minimum, average, and maximum readings on the same measurement basis.

Generated October 10, 2026

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

Inputs

Input	Value	Unit
Minimum illuminance	20	entered unit
Average illuminance	32	entered unit
Maximum illuminance	50	entered unit

Results

Result	Value	Unit
Min-to-average ratio	0.625	x
Average-to-min ratio	1.6	x
Max-to-min ratio	2.5	x
Uniformity	62.5	%

Calculation details

Detail	Value	Unit
Calculation basis	Uniformity ratios compare the entered minimum, average, and maximum illuminance readings from the same measurement boundary.	
Screening boundary	Lighting uniformity arithmetic only; no target illuminance, measurement-grid approval, glare, photometric layout, code, workplace, or design acceptance result is made.	

Formulas

min-to-average ratio = minimum illuminance / average illuminance

average-to-min ratio = average illuminance / minimum illuminance

max-to-min ratio = maximum illuminance / minimum illuminance

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$$\text{uniformity percent} = \text{minimum illuminance} / \text{average illuminance} \times 100$$

Warnings and limitations

This calculator reports measurement ratios only. It does not judge target illuminance, point-grid adequacy, glare, photometric layout, workplace requirements, code compliance, or design acceptance.