

Fixture Spacing Calculator

Plan fixture spacing and count for a rectangular room as a lighting-layout mode, not a photometric design.

Generated October 10, 2026

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

Inputs

Input	Value	Unit
Room length	40	ft
Room width	24	ft
Mounting height	10	ft
Spacing criterion	1.25	x mounting height

Results

Result	Value	Unit
Room area	960	sq ft
Maximum spacing	12.5	ft
Recommended columns	4	
Recommended rows	2	
Recommended fixture count	8	fixtures

Calculation details

Detail	Value	Unit
Calculation basis	Maximum spacing equals mounting height times the entered spacing criterion; rows and columns round up.	
Planning boundary	Merge estimate only; verify photometry, fixture layout, controls, obstructions, and project criteria separately.	

Formulas

room area = room length x room width

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$\text{maximum spacing} = \text{mounting height} \times \text{spacing criterion}$

$\text{columns} = \text{ceiling}(\text{room length} / \text{maximum spacing})$

$\text{rows} = \text{ceiling}(\text{room width} / \text{maximum spacing})$

$\text{fixture count} = \text{columns} \times \text{rows}$

Warnings and limitations

This spacing arithmetic is for preliminary layout review. It does not create a photometric layout or determine project requirements.