

Dimlux Light Calculator

The screenshot shows the 'Light calculator v0.2 alpha3' window. It has a menu bar with 'File' and 'Help'. Below is a header with the 'dimlux' logo. The interface is divided into several sections:

- Lightsource:** Includes a dropdown for 'Reflector model' (DE EI UHF DE 1000W), a dropdown for 'Power' (1000 W), and a small image of a reflector. Below these are fields for 'PPFD of lightsource' (2058 $\mu\text{mol/m}^2/\text{s}$), 'Dimensions of lightsource' (0.68 x 0.28 m), 'Manufacturer' (Dimlux), and 'Ordercode' (2-333).
- Illumination:** Features a 'Desired PPFD' input (1000 $\mu\text{mol/m}^2/\text{s}$) and a horizontal color gradient slider. Below is a 'Surface units' dropdown (m²) and a 'Target result' dropdown (Best overall).
- Room dimensions:** Includes input fields for 'Width' (4 m) and 'Length' (5 m), and a 'Dimensions units' dropdown (m).

Annotations on the left side point to specific elements:

- 'Choose Fixture model' points to the Reflector model dropdown.
- 'Choose dim or boostlevel' points to the Power dropdown.
- 'Choose desired lightlevel for your crop' points to the Desired PPFD input.
- 'Choose imperial or metric' points to the Surface units dropdown.
- 'Dimension of grow space' points to the Width and Length input fields.

Buttons for 'Calculate' and 'Exit' are at the bottom.

- 1) Choose the model Dimlux reflector/Fixture
- 2) Choose the dim or boost level
- 3) Choose the correct light level for your crop/plants



Shade loving plants

Move the dot over the bar

Sun loving plants

- 4) Fill in the dimensions of the grow area
- 5) Klik "Calculate"

The 'Result window' displays a table of configurations. Annotations highlight key columns: 'Ranking 1 comes closest to the pre selected ppfd.', 'Amount of fixtures wide side', 'Amount of reflectors long side', 'Total amount of reflectors in the room', 'Calculated ppfd', and 'Differents from pre selected ppfd'.

Ranking	Reflectors width	Reflectors length	Reflectors total	Calculated PPFD ($\mu\text{mol/m}^2/\text{s}$)	Difference (%)	Difference width (%)	Difference length (%)	Orientation (%)
1	4	3	12	98.7	-1.2	2.6	-3.8	Vertical
2	3	4	12	98.7	-1.2	-3.8	2.6	Horizontal
3	3	4	12	98.7	-1.2	-23.0	28.3	Vertical
4	4	3	12	98.7	-1.2	28.3	-23.0	Horizontal
5	4	4	16	131.7	31.7	2.6	28.3	Vertical
6	4	4	16	131.7	31.7	2.6	28.3	Horizontal
7	4	5	20	164.6	64.6	2.6	60.4	Vertical
8	4	4	20	164.6	64.6	28.3	28.3	Horizontal
9	5	4	20	164.6	64.6	28.3	28.3	Vertical
10	5	4	20	164.6	64.6	60.4	2.6	Horizontal

Below the table, the 'Reflector model' is set to 'DE EI UHF DE 1000W', 'Power' to '1000 W', 'Area' to '25.00 m²', 'Desired PPFD' to '1000 $\mu\text{mol/m}^2/\text{s}$ ', and 'Total needed PPF' to '25000 $\mu\text{mol/s}$ '.

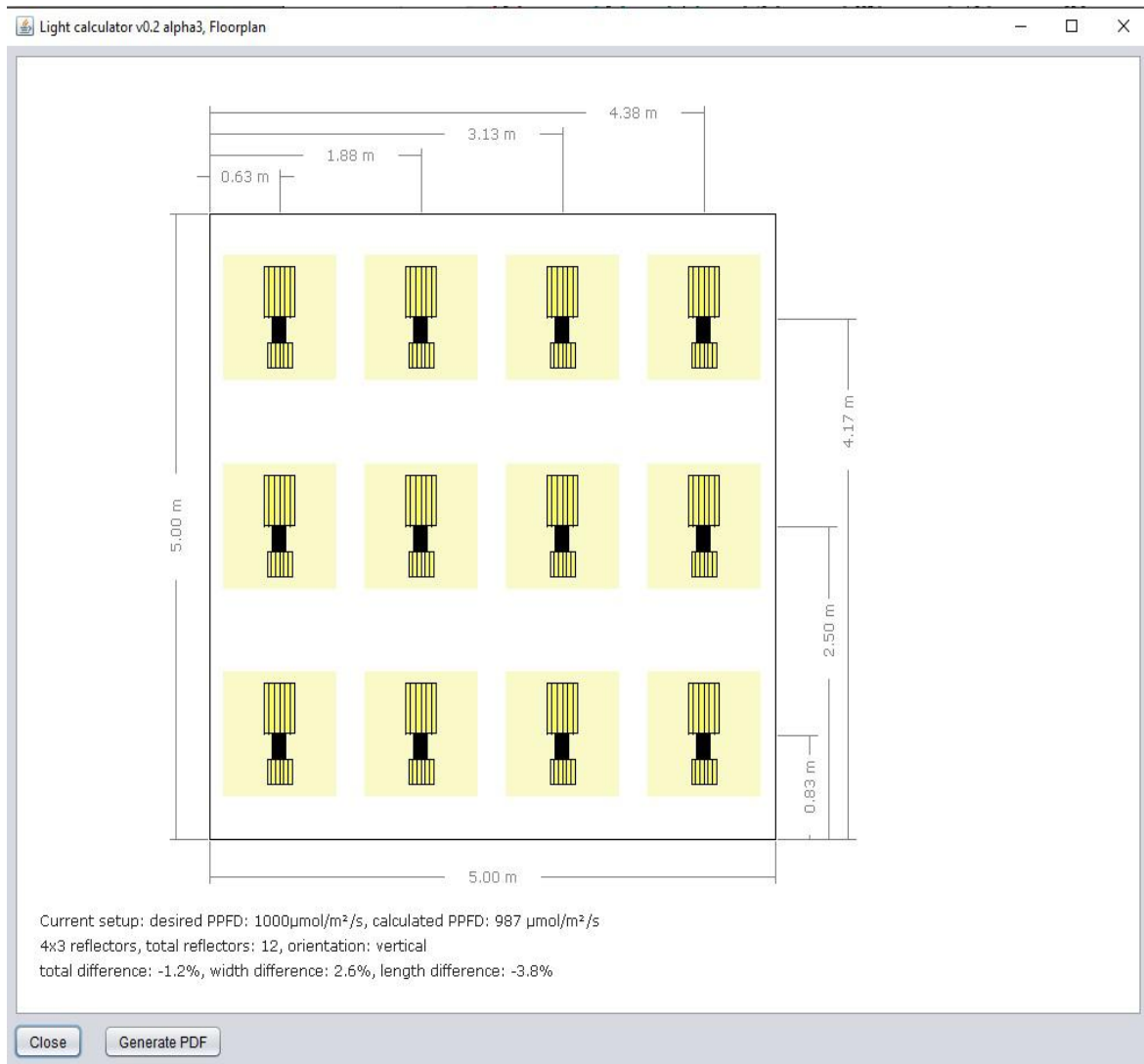
Advise

Preferred setup: 4x3 reflectors, total reflectors: 12, orientation: Vertical, total difference: -1.2%, width difference: 2.6%, length difference: -3.8%

Alternative setup could be: 3x4 reflectors, total reflectors: 12, orientation: Horizontal, total difference: -1.2%, width difference: -3.8%, length difference: 2.6%

By selecting a row, a light floorplan will open

6) Klik on a row to create a floor plan. Row 1 (ranking 1) suits your pre selected light level best.



7) The floor plan appears

8) Klik “generate PDF” to create a pdf file for printing or email.