

AGI Flash Tool User Guide Indoor applications

June 2018

Overview

- The AGI Flash Indoor tool allows you to quickly estimate the light level (illuminance), number of luminaires, and lighting layout, for a simple room or building
- It can be accessed by going to the layout menu on an applicable product page and clicking calculator



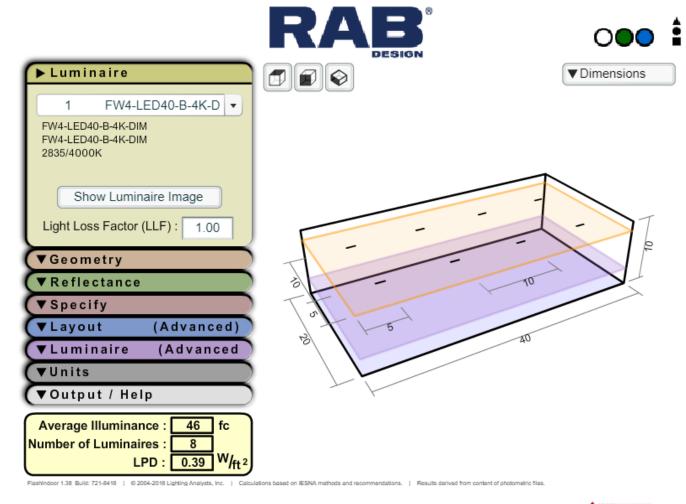
- Die-cast aluminum nousing with durable powder coat finish.
- Aluminum reflector combined with the prismatic borosilicate lens, provides precise and efficient optical performance.
- Die-cast aluminum lens frame with continuous neoprene gasket.
- Rated IP65.
- 2089 Lumens
- 120-277 Volt Driver.

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LAYOUT	_
INDOOR LAYOUT	■ CALCULATOR

Overview

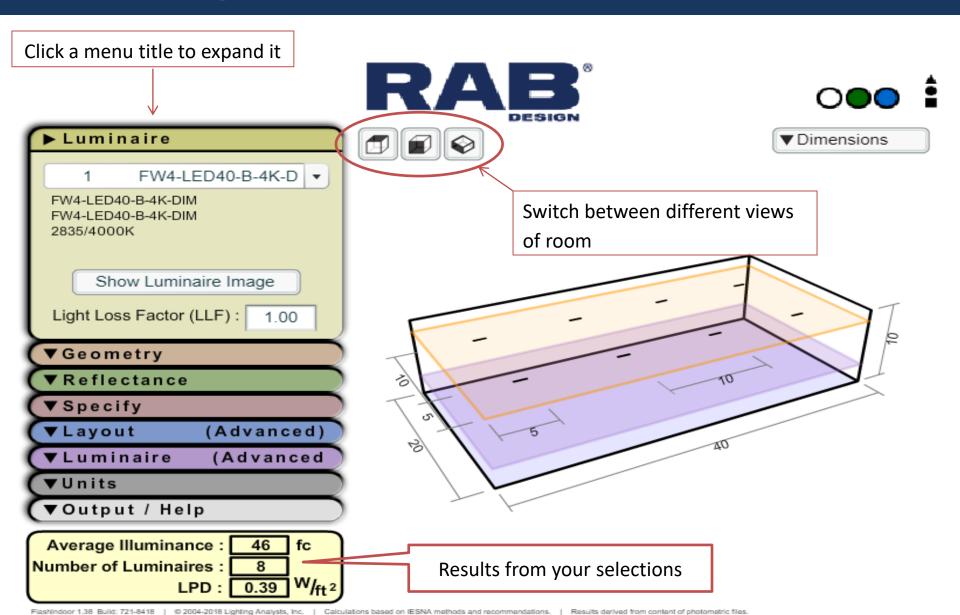
How to use:

- Go through all of the menus on the left and fill in applicable information
- Your results are shown at the bottom and are calculated automatically





Navigation



Overview of each menu's features and options:

1. Luminaire

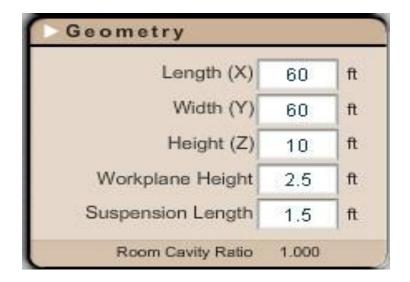
- Select the fixture
 you wish to use from
 the drop down menu
 (all fixtures from
 specific product
 family page will be
 listed)
- Light loss factor: resulting from dirt on fixture, lumen depreciation (0.9 recommended)





2. Geometry

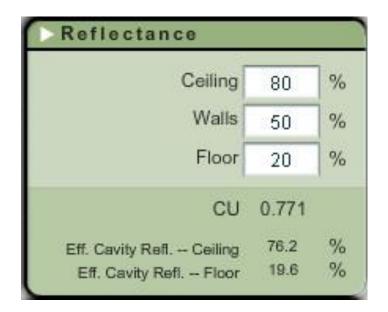
- Input the dimensions of the room you wish to illuminate (x,y,z)
- Workplane height refers to how high off the ground workstations (desks or other equipment) are in the room
- Suspension length refers to height the fixtures will be suspended from the ceiling





3. Reflectance

- Refers to the colouring of the room. Lighter surfaces have a higher reflectance.
- The Coefficient of Utilization (CU) and effective cavity reflectances are calculated and displayed below





4. Specify

- The Specify menu is used to set the target Illuminance level for the calculation (in foot candles)
- Options also include the ability to compute based on a set number of luminaires, or for a target power density
- The calculation can be further constrained by using the buttons below to control your tolerance for the desired illuminance level (minimum, target, or maximum

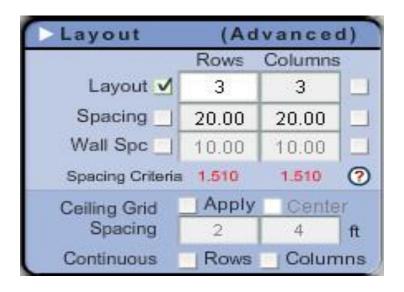




5. Layout (Advanced)

- Using this section, you can control the positioning of the luminaires by:
 - Layout (rows and columns)
 - Spacing between
 - Spacing from wall
 - Ceiling grid
 - Continuous rows or columns

Select the box next to an option to activate the specific constraint and be able to change numbers



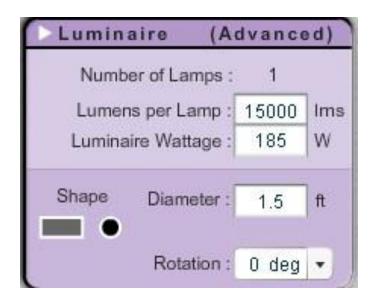


6. Luminaire (Advanced)

 The Advanced Luminaire section allows some simple prorating for the calculations based on Lamp Lumens and Luminaire Wattage.

7. Units

 Set the preferred units for the calculations





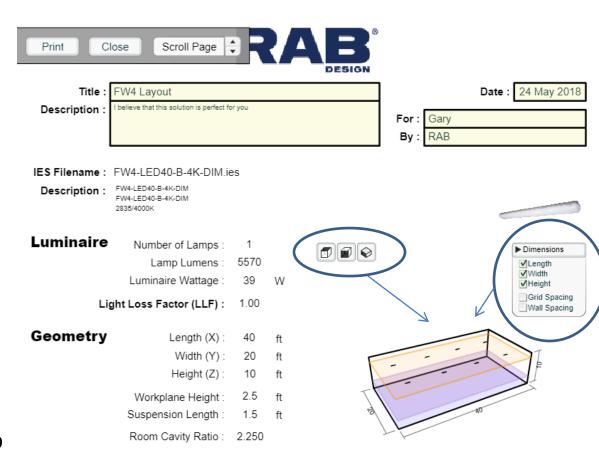


8. Output/Help

- Select print preview to create a customizable printout of your calculations
- Customize the yellow sections at the top of the page with text
- Use the dimensions menu on the right side and the layout buttons beside it to modify the appearance of the model below it
- Click the print button at the top to proceed

Reflectance

Ceiling Walls





Limitations of the tool

- Doesn't take into account windows, pillars, or any other obstructions when you give room dimensions
- Can only do a single level, no sloped floors or ceilings
- Only accounts for one bounce of light

