




# Outdoor Layout Tool User Guide

# Overview





- The AGI Flash Outdoor tool allows you to quickly create layouts of simple outdoor areas and basic applications such as wall and pole mounts or flood lighting
- It can be accessed by going to the layout menu on an applicable outdoor product page and clicking calculator (make sure flash and popups are enabled)



**AL-LED Series**

Ideal for parking lots, roadways and perimeter lighting applications, The AL-LED fixtures are high efficiency area lights with multiple beam patterns to suit a variety of applications. Intelligently designed, this series of fixtures provides superior lighting performance and significant energy savings over traditional fixtures.

- Models available: AL1-LED60, AL1-LED90, AL1-LED120, AL2-LED150, AL2-LED200, AL2-LED250. **Newly Released:** AL3-LED320, AL3-LED400
- Standard finish is bronze, custom colours available
- Available in T2, T3, T4 and T5 beam patterns
- Can be arm mounted for round or square poles, and can also be ordered with slip fitter (additional wall mount also required) or yoke installed
- 5K colour temperature standard, 3K and 4K also available
- Certifications: DLC, cULus

 <a href="#">SPEC SHEETS</a>	▼
 <a href="#">IES FILES</a>	▼
 <a href="#">LAYOUT</a>	▲
OUTDOOR LAYOUT	
 <b>CALCULATOR</b>	

# Overview

## How to make layouts:

- Go through all of the menus on the left and fill in applicable information to create your desired layout
- Your Results are calculated in real time and can be easily downloaded or printed for sharing

**LUMINAIRE**

1 AL1-LED120-B-4K-T3-DI ▾

AL1-LED120-B-4K-T3-DIM  
AL1-LED120-B-4K-T3-DIM

Show Luminaire Image

Light Loss Factor : 1.00

Number of Lamps : 1

Lamp Lumens : -1 lms

Luminaire Wattage : 116.8 W

▼ ARRANGEMENT / LAYOUT

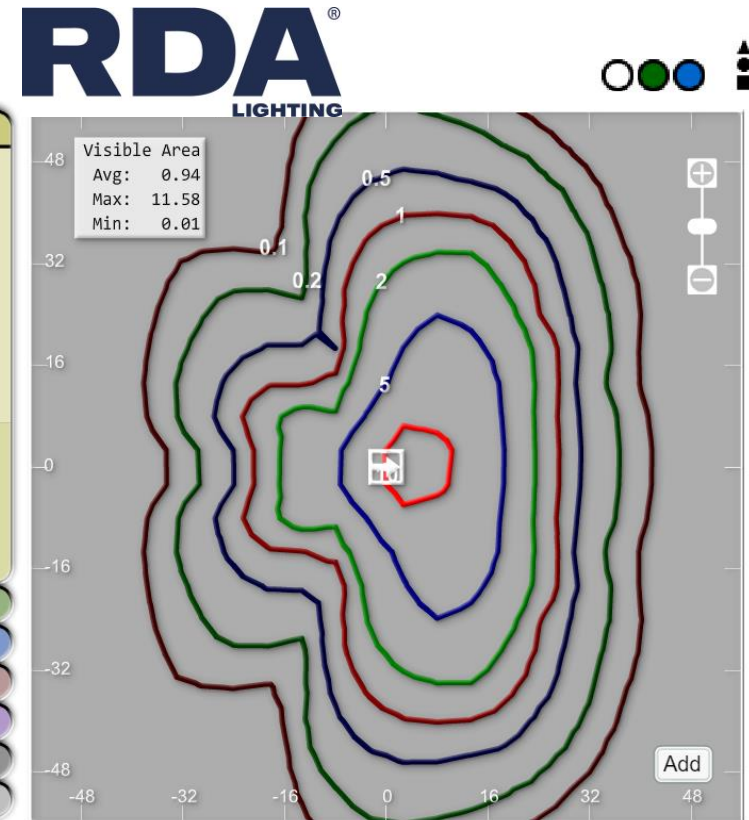
▼ ISOLINES

▼ DISPLAY

▼ ANALYSIS

▼ UNITS

▼ OUTPUT / HELP



# Navigation Overview

Click a menu title to expand it

**LUMINAIRE**

1 AL1-LED120-B-4K-T3-DI ▾

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▼ DISPLAY

▼ ANALYSIS

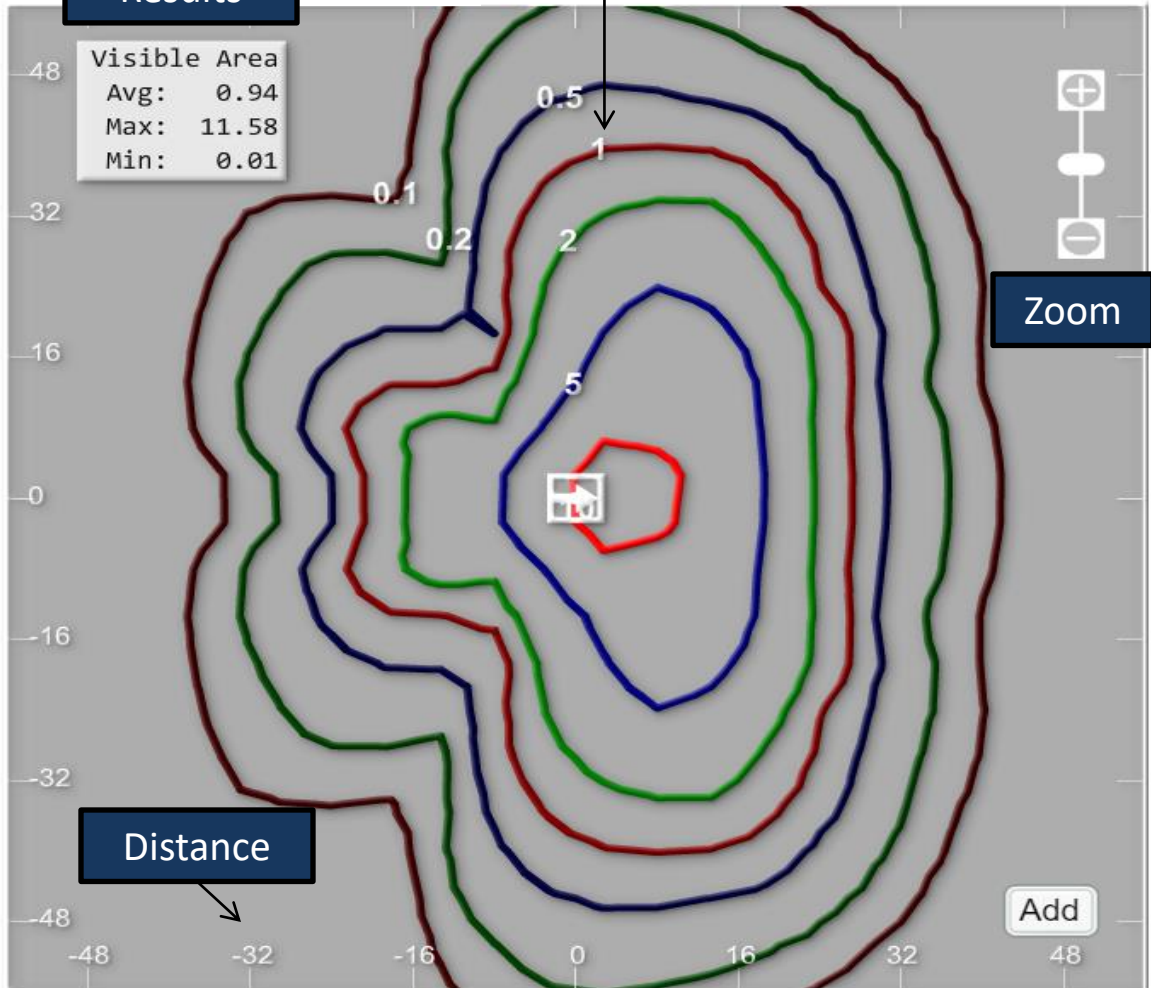
▼ UNITS

▼ OUTPUT / HELP

## Results

Visible Area  
Avg: 0.94  
Max: 11.58  
Min: 0.01

Illumination for area between the circle and the next inward circle (in foot-candles)



# Menu Features

Now an overview of each menu's features and options:

## 1. Luminaire

- Select the fixture you wish to use for calculations (only one SKU can be used at a time, i.e. one wattage, voltage, CCT, beam, etc)
- Light loss factor: resulting from dirt on fixture, lumen depreciation (we recommend using 0.9)

The screenshot shows a software interface for the 'LUMINAIRE' menu. At the top, there is a dropdown menu with '1 AL1-LED120-B-4K-T3-DI' selected. Below this, the text 'AL1-LED120-B-4K-T3-DIM' is displayed twice. A button labeled 'Show Luminaire Image' is present. The 'Light Loss Factor' is set to '1.00'. The 'Number of Lamps' is set to '1'. The 'Lamp Lumens' is set to '-1' with the unit 'lms'. The 'Luminaire Wattage' is set to '116.8' with the unit 'W'.

Parameter	Value	Unit
Light Loss Factor	1.00	
Number of Lamps	1	
Lamp Lumens	-1	lms
Luminaire Wattage	116.8	W

# Menu Features

## 2. Arrangement/Layout

A: Choose from a variety of fixture arrangement options (see next page)

B: Layout and spacing settings

C: Adds an additional fixture to the layout

D: Print a summary of your layout

▼ LUMINAIRE

► ARRANGEMENT / LAYOUT

Single **A**

☒ Radial    Arm : 0 ft  
Offset :    ft

**B**

	Cols (X)	Rows (Y)	
Layout :	1	1	
Spacing :	20	30	ft
Mounting Height :	10		ft
Orient :	0		deg
Tilt :	0		deg

**D** Luminaire Location Summary

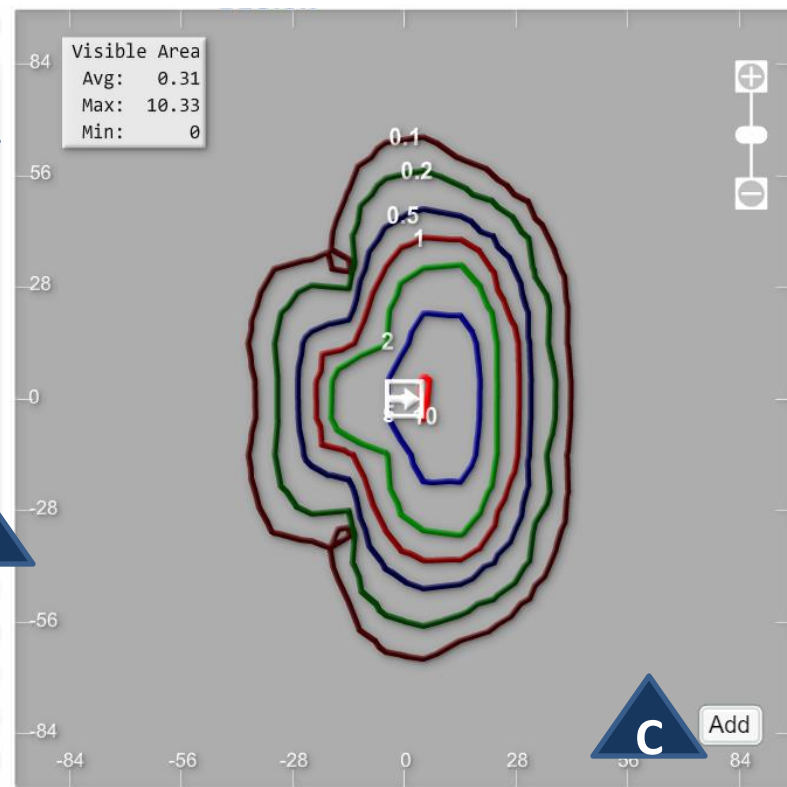
▼ ISOLINES

▼ DISPLAY

▼ ANALYSIS

▼ UNITS

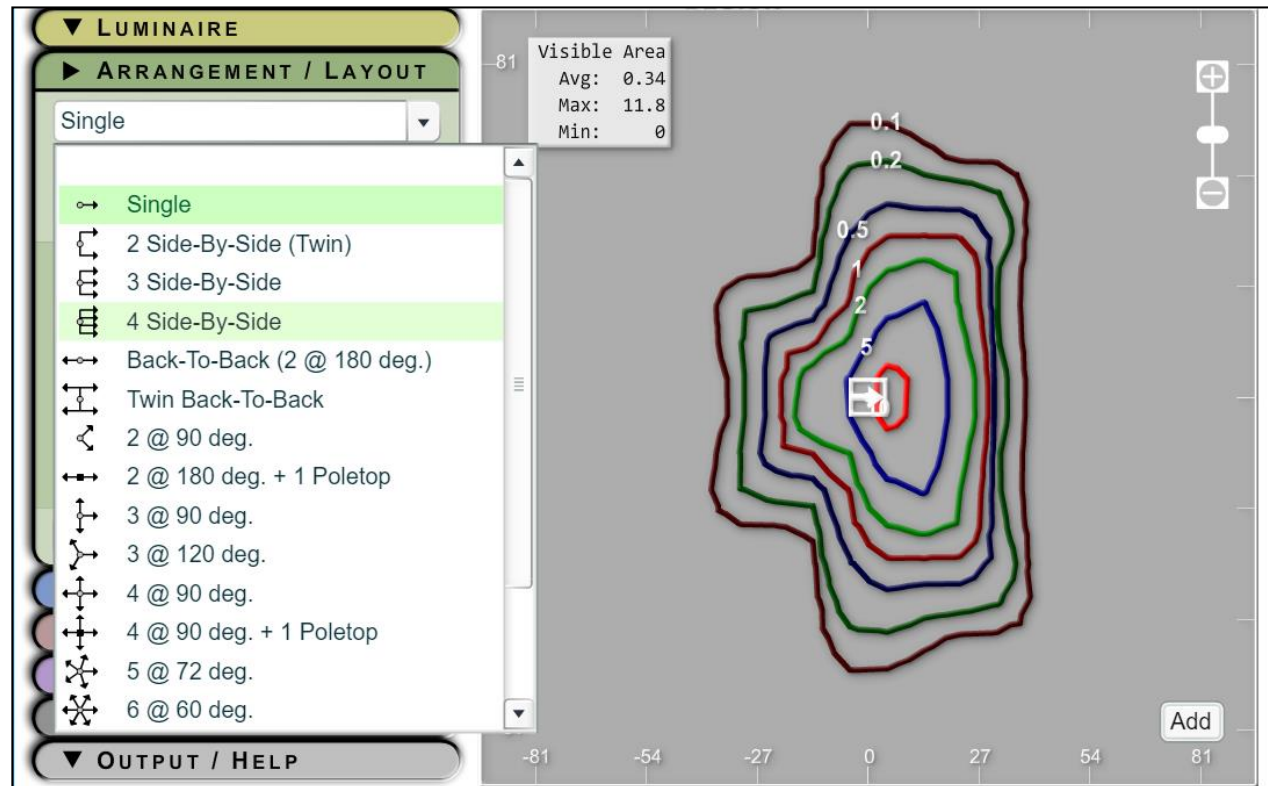
▼ OUTPUT / HELP



# Menu Features

## 2. Arrangement/Layout (continued)

- Within the dropdown menu, you can choose from different assembly options
- Directly under this menu the length of each fixture's arm can be set as well





# Menu Features

## 2. Arrangement/Layout (continued)

- Click “Add” (bottom right corner) to add a new arrangement (fixture group) in your layout. It will flash orange in the center and be a duplicate of your current settings
- Drag the fixture from its center (orange/white box with arrow) to move it around the layout. Other fixtures/assemblies can also be moved in the same manner

▼ LUMINAIRE

► ARRANGEMENT / LAYOUT

3 Side-By-Side ▼

☐ Radial      Arm :  ft  
Offset :  ft

	Cols (X)	Rows (Y)
Layout :	<input type="text"/>	<input type="text"/>
Spacing :	<input type="text"/>	<input type="text"/> ft
Mounting Height :	10 ft	
Orient :	0 deg	
Tilt :	0 deg	

Luminaire Location Summary

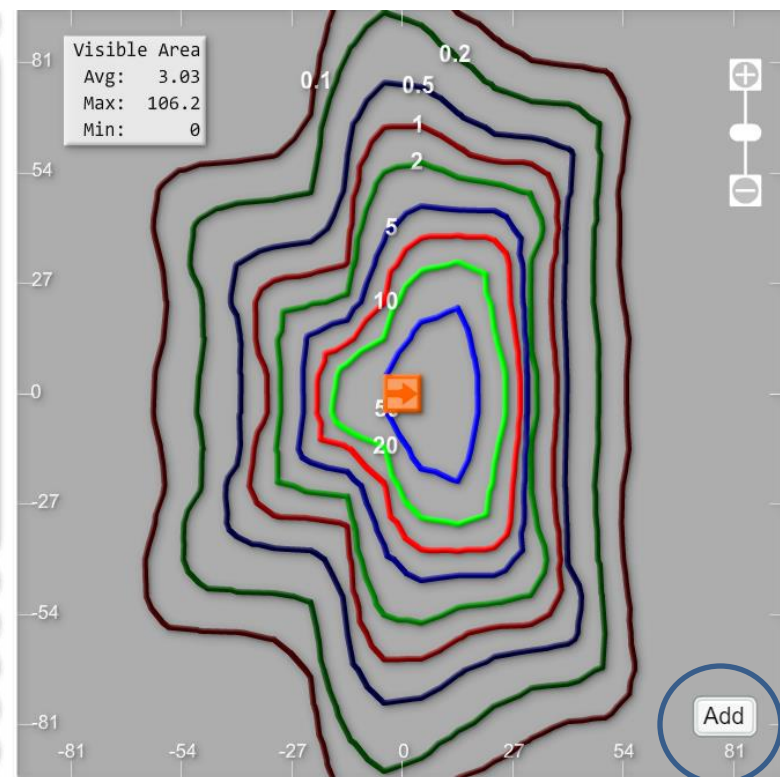
▼ ISOLINES

▼ DISPLAY

▼ ANALYSIS

▼ UNITS

▼ OUTPUT / HELP





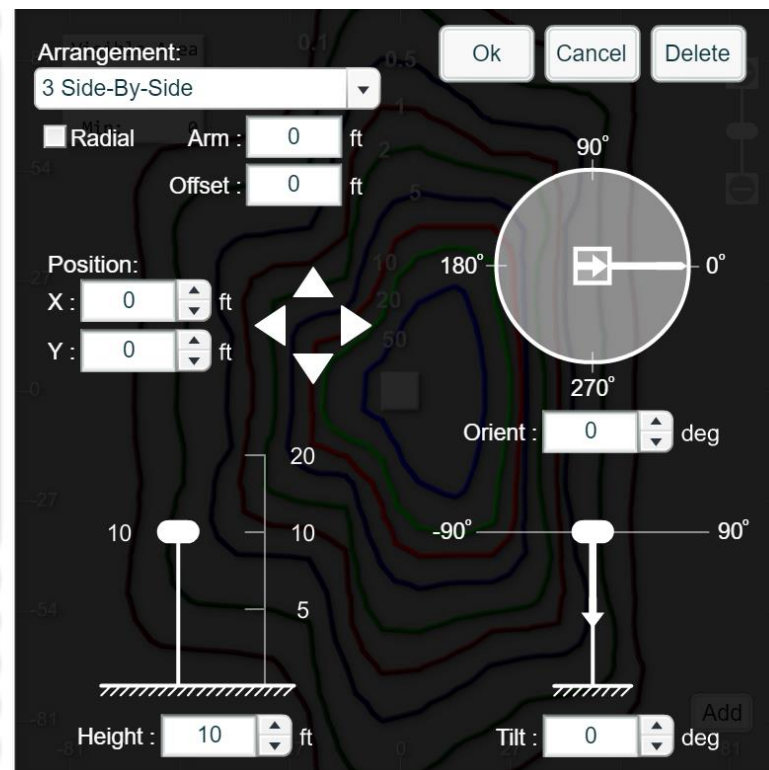
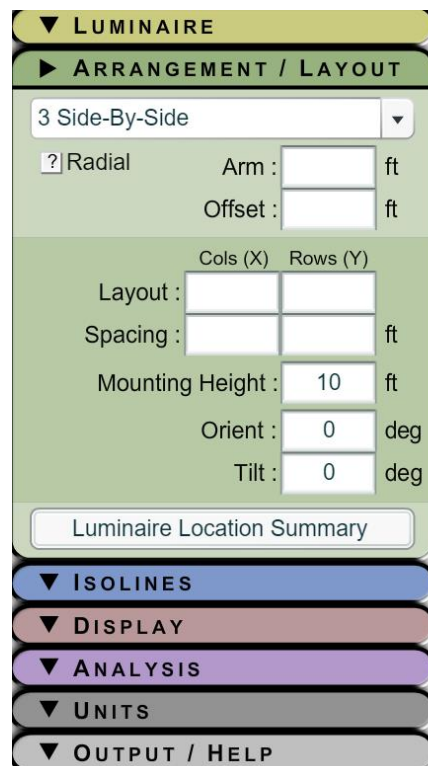
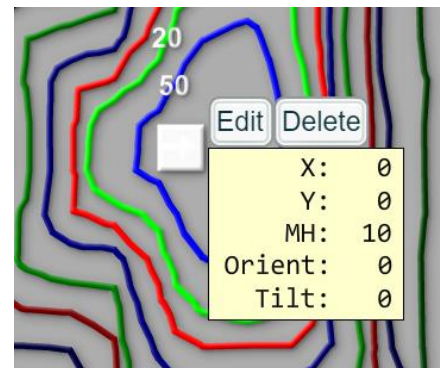
# Menu Features

## 2. Arrangement/Layout (continued)

Hover your cursor over the white box in the center of the fixture to make the “Edit” and “Delete” buttons visible.

Click “Edit” to go to a panel where a variety of settings can be adjusted for the specific fixture/assembly.

The settings in the main menu when changed will overwrite changes made to individual fixtures



# Menu Features

Example: adding multiple arrangements and modifying their individual settings and positioning's

LUMINAIRE

ARRANGEMENT / LAYOUT

Radial

Arm :  ft

Offset :  ft

Cols (X) Rows (Y)

Layout :

Spacing :   ft

Mounting Height :  ft

Orient :  deg

Tilt :  0 deg

Luminaire Location Summary

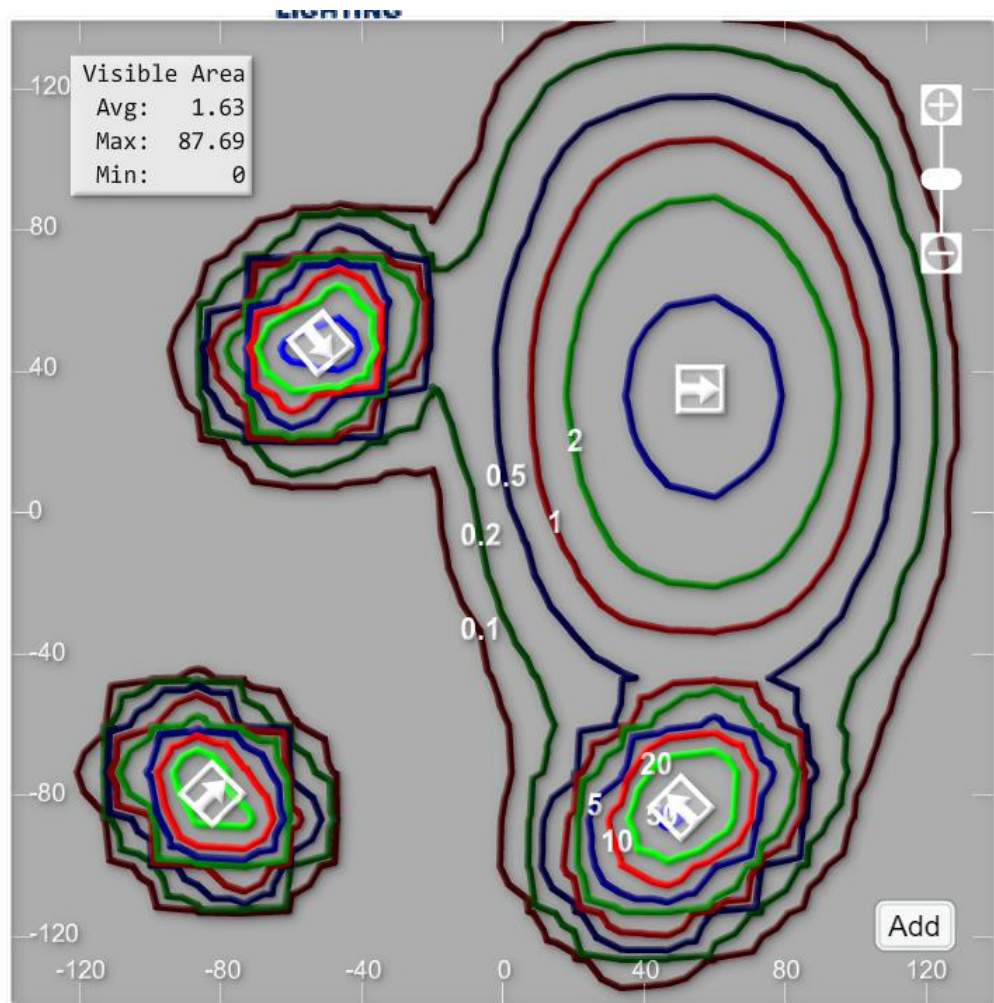
ISOLINES

DISPLAY

ANALYSIS

UNITS

OUTPUT / HELP



# Menu Features

## 3. Isolines

In this section, you can customize the number of foot-candle indicator lines shown, add or remove isolines, change the colour of the lines, and choose foot-candle values for them

▼ LUMINAIRE

▼ ARRANGEMENT / LAYOUT

► ISOLINES

Choose Isoline Values :

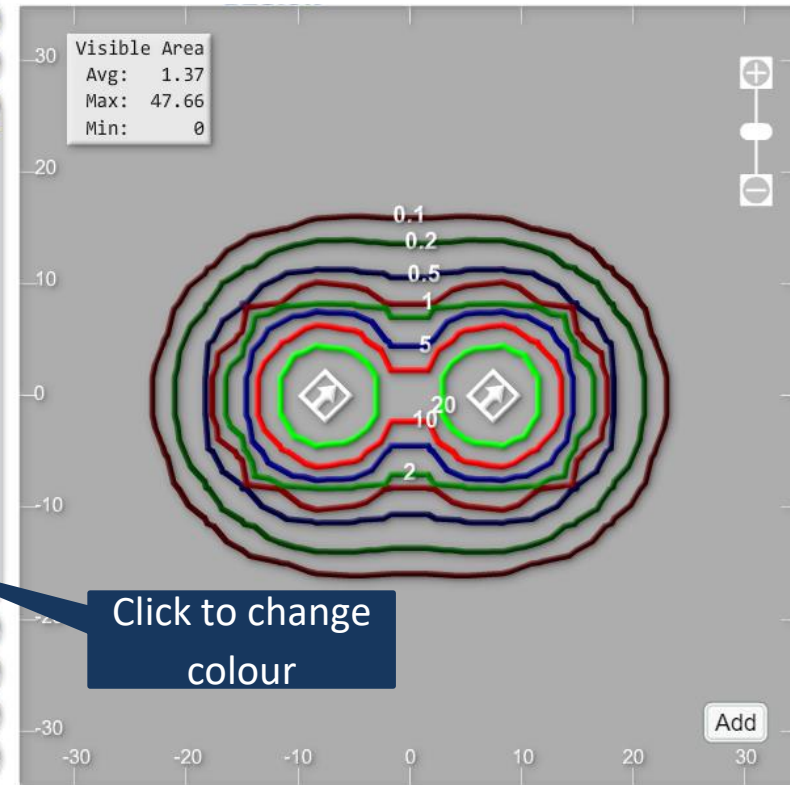
<input checked="" type="checkbox"/>	0.1	▲▼	fc	
<input checked="" type="checkbox"/>	0.2	▲▼	fc	
<input checked="" type="checkbox"/>	0.5	▲▼	fc	
<input checked="" type="checkbox"/>	1	▲▼	fc	
<input checked="" type="checkbox"/>	2	▲▼	fc	
<input checked="" type="checkbox"/>	5	▲▼	fc	
<input checked="" type="checkbox"/>	10	▲▼	fc	
<input checked="" type="checkbox"/>	20	▲▼	fc	
<input checked="" type="checkbox"/>	50	▲▼	fc	

▼ DISPLAY

▼ ANALYSIS

▼ UNITS

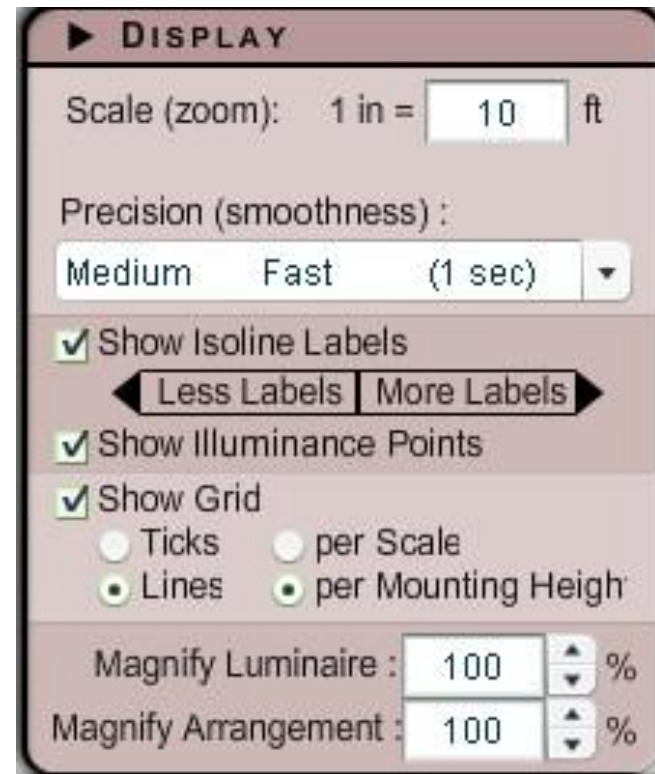
▼ OUTPUT / HELP



# Menu Features

## 4. Display

- In this section you can change the scale on the grid and other settings
- You can use the scale or make the scale the mounting height





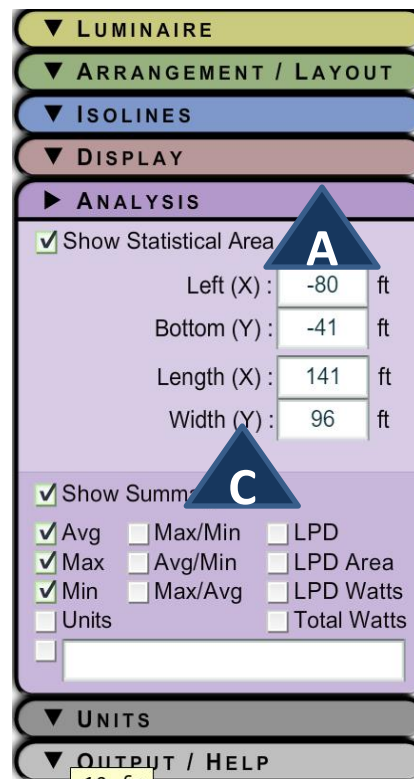
# Menu Features

## 5. Analysis

A: Click “Show Statistical Area” to get readings for a specific area of your layout (orange box) and use the options under it to change the size of the area

B: You can also drag and move the box to also change its position and size manually

C: Choose which calculations are shown for the area



▼ LUMINAIRE

▼ ARRANGEMENT / LAYOUT

▼ ISOLINES

▼ DISPLAY

► ANALYSIS

☒ Show Statistical Area

Left (X) : -80 ft

Bottom (Y) : -41 ft

Length (X) : 141 ft

Width (Y) : 96 ft

☒ Show Summary

☒ Avg ☐ Max/Min ☐ LPD

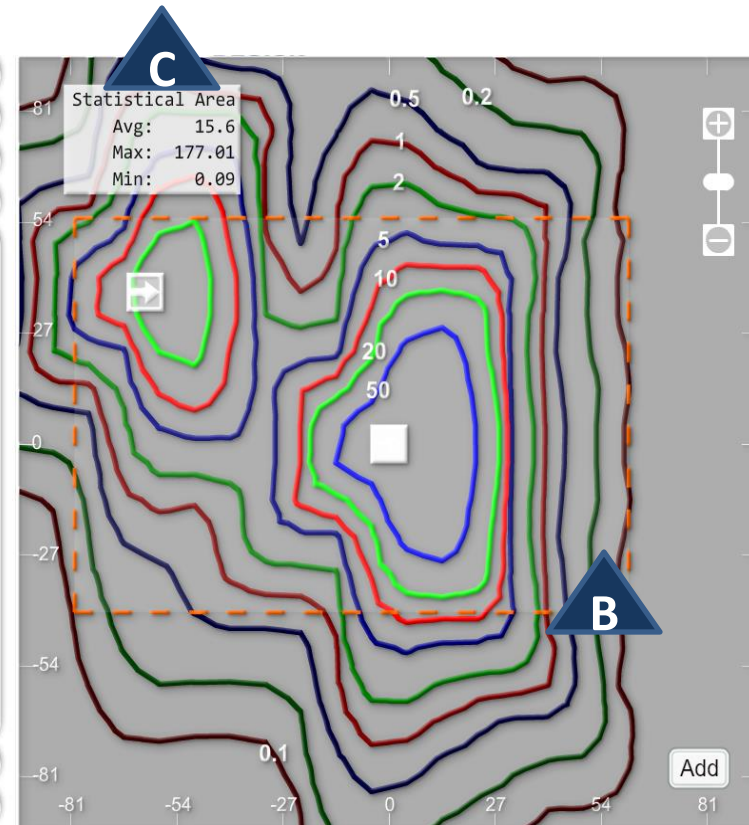
☒ Max ☐ Avg/Min ☐ LPD Area

☒ Min ☐ Max/Avg ☐ LPD Watts

☐ Units ☐ Total Watts

▼ UNITS

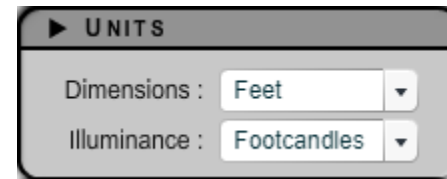
▼ OUTPUT / HELP



# Menu Features

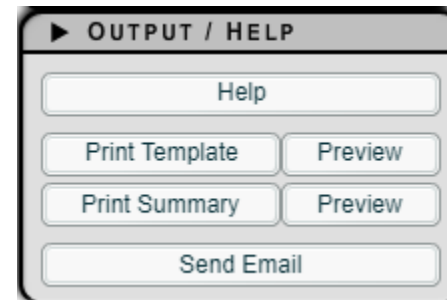
## 6. Units

- Set the preferred units for the calculations



## 7. Output/Help

- Use this section to print your template or the summary from the layout section (can also be saved as PDF from print menu)
- Select preview to create a customizable printout of either document





# Menu Features


Flash Outdoor - Google Chrome  
rabdesign.ca/tools/FlashOutdoor.htm?InputOutputMode=XML&InputURL=FlashOutdoor\_Input.php&OutputURL=SaveXML.php&PhotometricURL=PhotometricDB.php&InstanceKey=LightingAnalysts

Print Close Scroll Page

**RDA<sup>®</sup>**  
LIGHTING

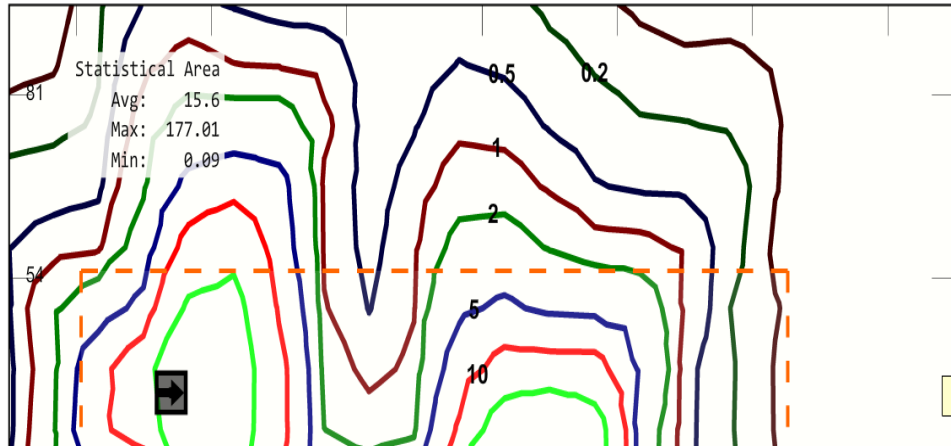
**Date :** 27 Jun 2018  
**Title :** Parking Lot  
**Desc :** With AI-LED  
**For :** Client's name or company...  
**By :** Company Name

**Luminaire**  
IES Filename : AL1-LED120-B-4K-T4-DIM.ies  
Description : AL1-LED120W-B-4K-T4-DIM  
AL1-LED120W-B-4K-T4-DIM  
Light Loss Factor : 1.00  
Number of Lamps : 1  
Lamp Lumens : -1 lms  
Luminaire Watts : 117 W



Scale: 0 27 54 feet  
Arrangement Magnification: 100 %

Statistical Area  
Avg: 15.6  
Max: 177.01  
Min: 0.09



1

## 7. Output/Help

- Select either preview button to create a customizable printout of your calculations (edit yellow boxes)
- The second button (not shown) shows you your fixture positioning and other information
- Click the print button at the top to proceed to print or save as a PDF (depends on browser)

# Limitations of the tool

- Multiple Beams can not be combined in a single layout (only one IES file per layout)
- The tilt feature in the layout menu tilts whole fixture, not just the head
- The tool considers the entire environment to be made up of the same surface. There is no way to customize your layouts to account for sidewalks, grass, etc.
- See specific guidelines for wall applications in the next page

# Wall Lighting

- The tool does not account for walls (fixtures are technically floating in the air)
- To get around this, use the analysis settings to create a statistical area that only covers the area above 0 on the y axis as the negative values on that axis are technically behind the wall. This will ensure the most accurate readings possible in the tool.

