

Lutron Design Files and AutoCAD®

Overview

AutoCAD design tools make specifying faster, easier and more accurate. Manual efforts are eliminated in the specification process, quick bills of materials are created, and integration becomes seamless into myProjects and the Lutron Designer software.

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Software Requirements and Download of Design Files

Software Requirements

- AutoCAD 2018 and newer (30-day free trial available for download on Autodesk.com)
- Lutron myProjects
- Lutron Designer software
- Windows compatible PC/Laptop

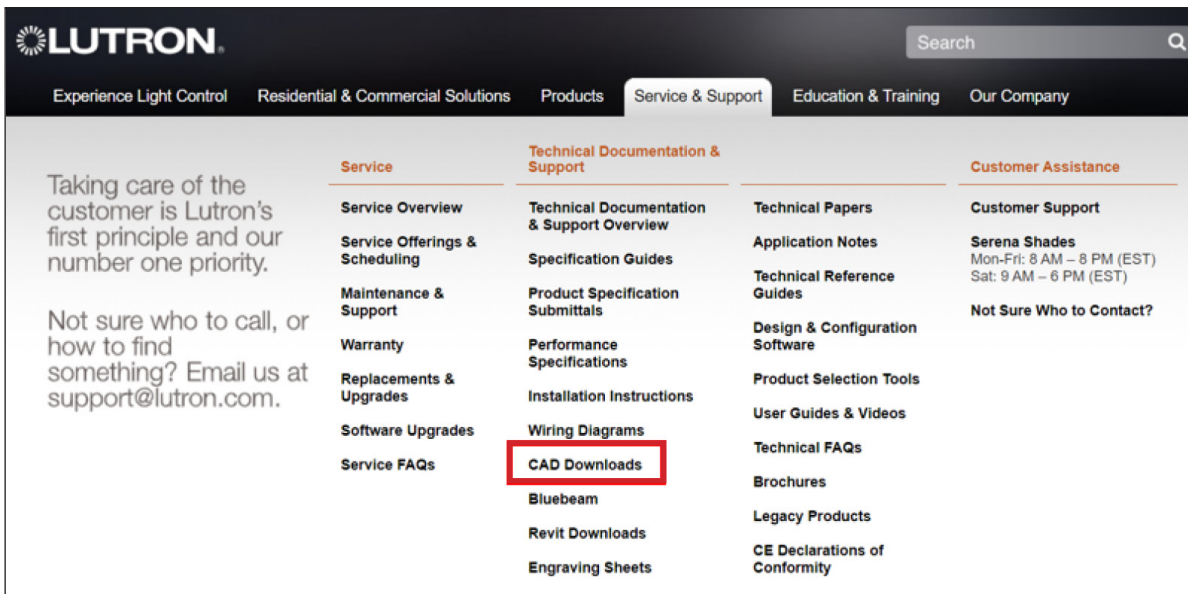
Download of Design Files

Below is a list of step-by-step instructions on how to download Lutron AutoCAD Design Files.

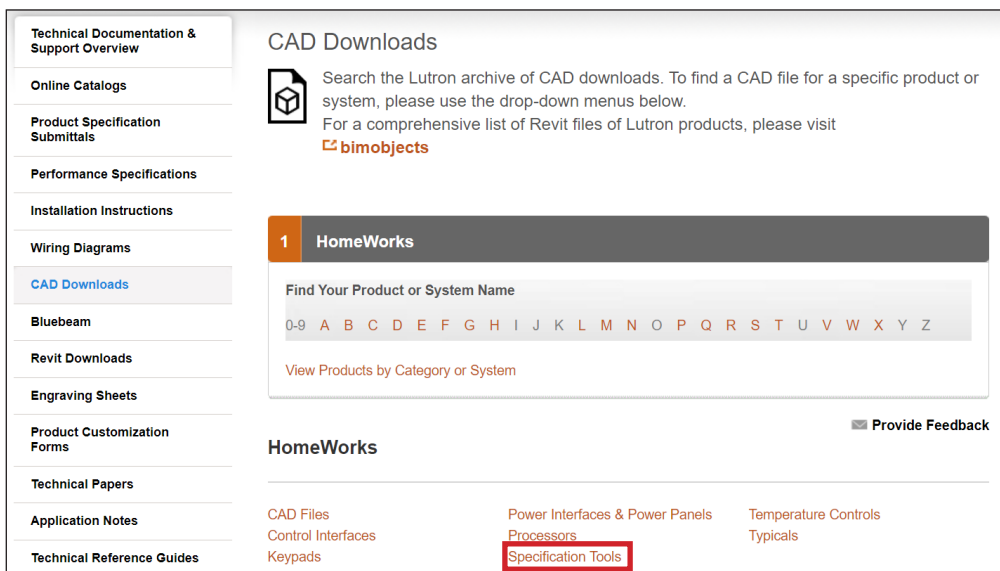
Available for download on:

- Lutron.com/CADDownloads
- Ketra.com/resources

1. On Lutron.com, click on the Service & Support tab, then select CAD Downloads under Technical Documentation & Support.



2. Click on a product or system. In this case, HomeWorks has been selected. Then click **Specification Tools**.





Software Requirements and Download of Design Files *(continued)*

Download of Design Files *(continued)*

3. Once **Specification Tools** is selected, click **Lutron Design Files Download**. You will be asked to provide some information before proceeding to the tools download. When complete, click **Proceed to download**.

Note: Providing your information will allow us to send updates and new symbols when available.

Product Description	Model	Document Title	Model Number	Voltage	Download(s)
How to Utilize AutoCAD with Lutron Design Files	All Models	How to Utilize AutoCAD with Lutron Design Files			English 
Lutron Design Files and AutoCAD® Application Note	All Models	Lutron Design Files and AutoCAD® Application Note			English (pdf)
Lutron Design Files Download	All Models	Lutron Design Files Download			English 

Bluebeam and AutoCAD

Lutron designed these symbols to help you quickly take-off your job with Lutron products. Lutron is always updating these symbols, and we want to provide you with updates and new symbols as available. Please provide your **email address** and agree to the checkboxes below: *

☐ I agree to the [Lutron privacy notice](#)

☐ I understand that Lutron may contact me for feedback for continuous improvements of these tools.

Proceed to download

4. An email will be received with the links to download the latest symbols.

Thank you for downloading our Bluebeam and AutoCAD symbols!

Please feel free to download our symbols:

- [BlueBeam](#)

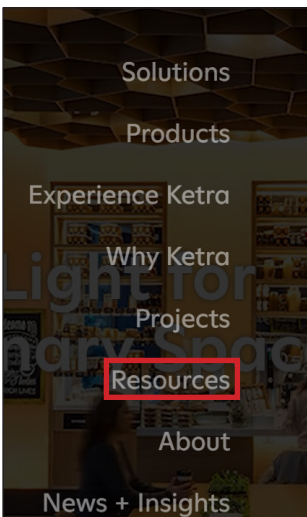
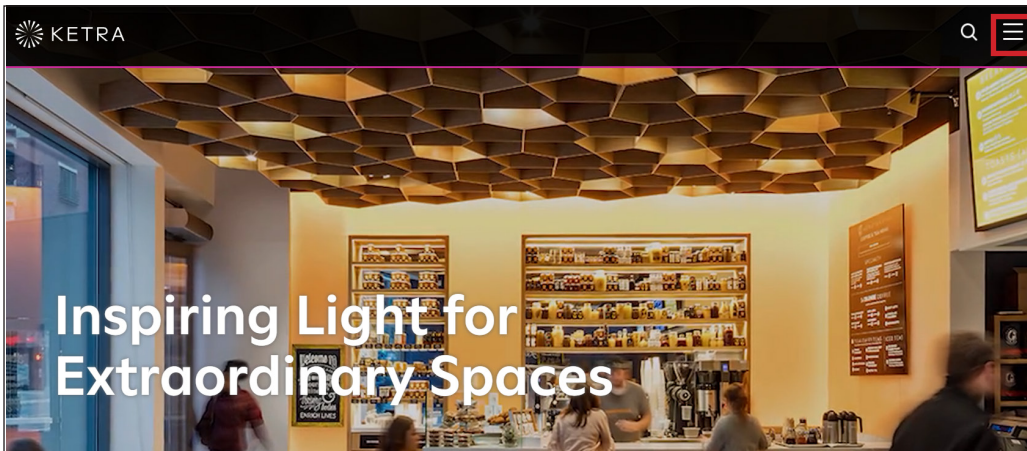
- [AutoCAD](#)

Please send all feedback to ResiSys_Apps_Team@lutron.com

Software Requirements and Download of Design Files *(continued)*

Download of Design Files *(continued)*

5. On Ketra.com, click on the drop down in the top left corner of the page, then click **Resources**.



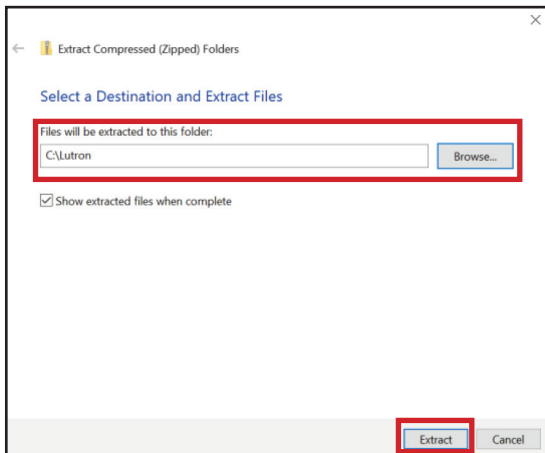
6. Under **Technical Documents**, select **Bluebeam/CAD Files** to download. Then please follow steps 3 and 4 on the previous pages.

Technical Documents	
Specifications	▼
Photometrics	▼
Installation Guides	▼
Wiring Diagrams	▼
One Line Diagrams	▼
Design Studio	▼
App Notes	▼
Revit Drawings	▼
Bluebeam/ CAD Files	▼
Bluebeam/CAD Tool Kit	

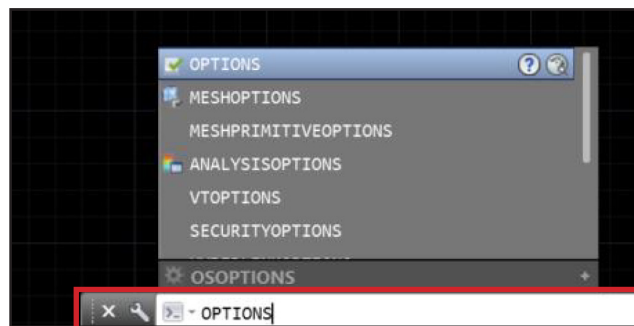
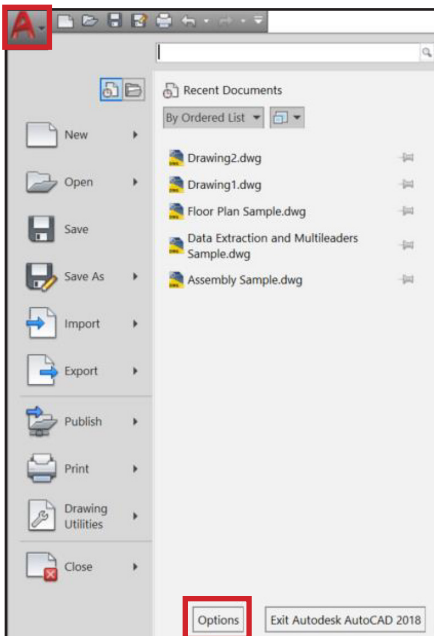
Installation of Design Files

Below is a list of step-by-step instructions on how to manually install AutoCAD profiles, tool palettes and all included tools.

1. Ensure AutoCAD is installed and closed to successfully install the **Tool Chests**.
2. Open Windows Explorer and create the folder **C:\Lutron** on your local drive.
3. Download the **LutronCAD.zip** file
4. Extract the file to the **C:\Lutron** folder as shown below:

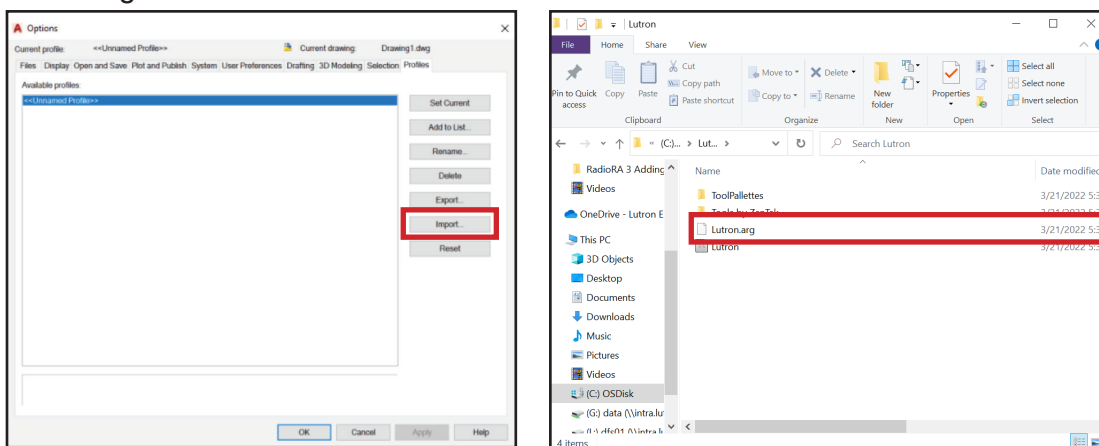


5. Open AutoCAD, go to “A” in the top left corner, select **Options** or type **Options** in the command line.

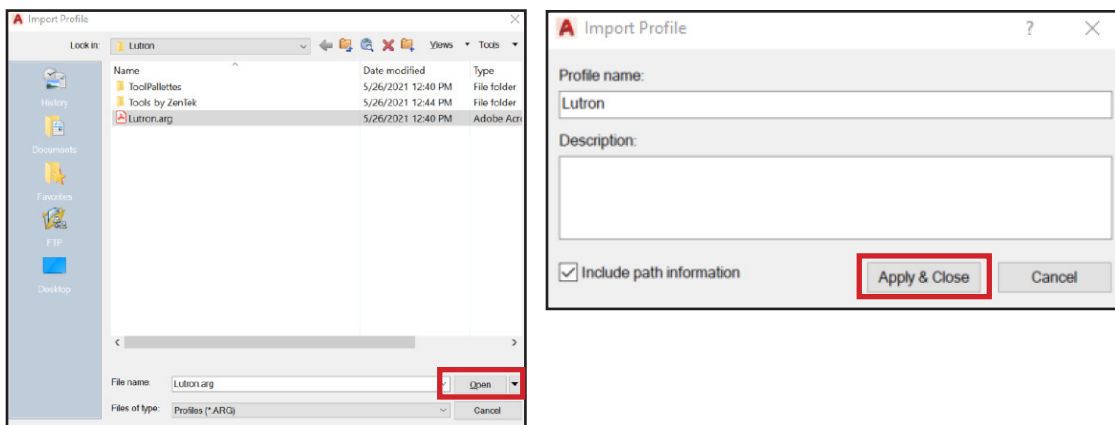


Installation of Design Files *(continued)*

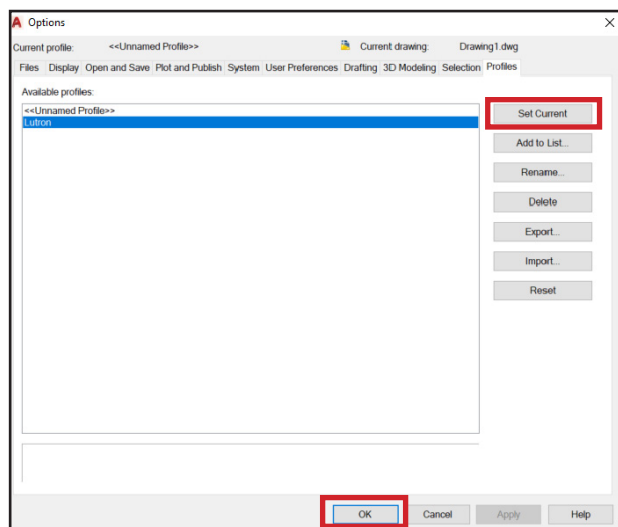
6. Select the **Profiles** tab, then click **Import**, navigate to your local drive where you created the folder **Lutron**, then select the **Lutron.arg** file as shown below:



7. Click **Open** to load the default **Lutron** profile, then select **Apply & Close**.

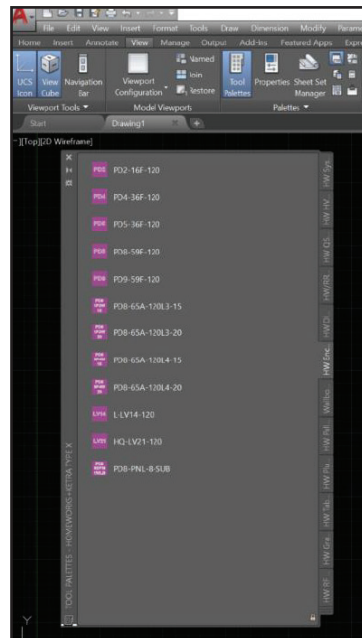


8. On the **Profiles** tab, click **Lutron** and select **Set Current**, click **OK** as shown below:



Installation of Design Files *(continued)*

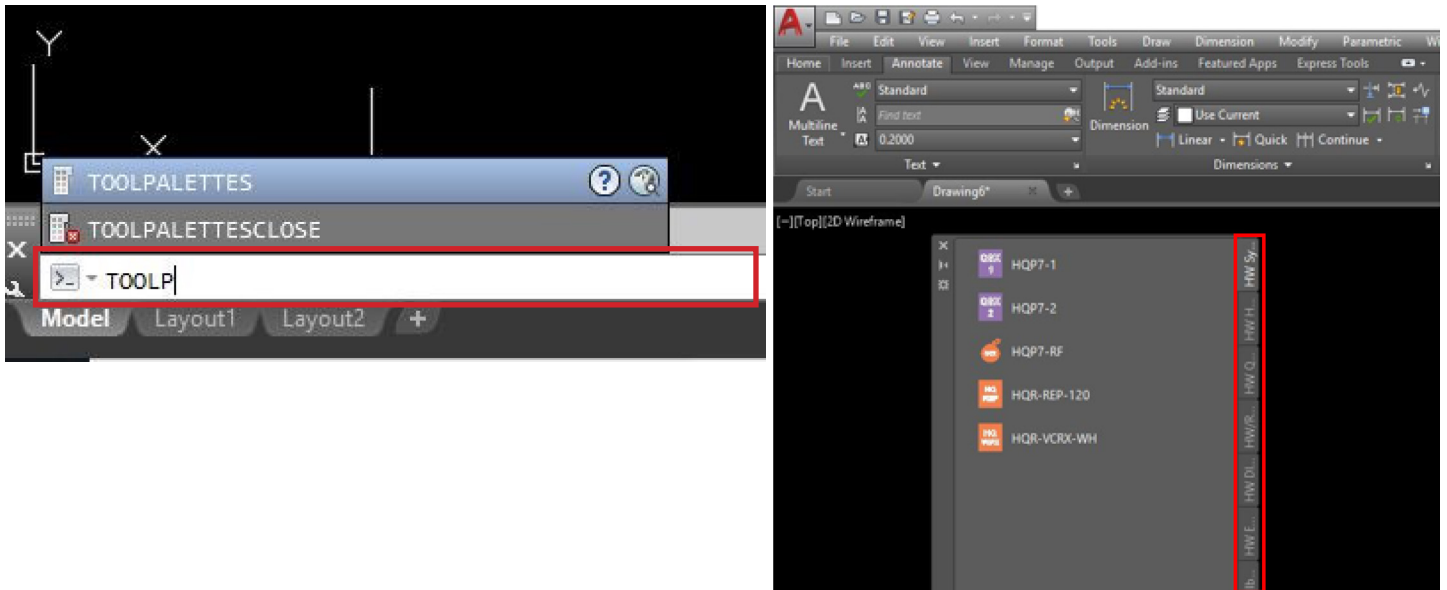
9. To verify the Lutron profiles have been successfully installed, in the command line type **Tool Palettes**.



Lutron Design Files and AutoCAD Tool Palettes

Tool Palettes

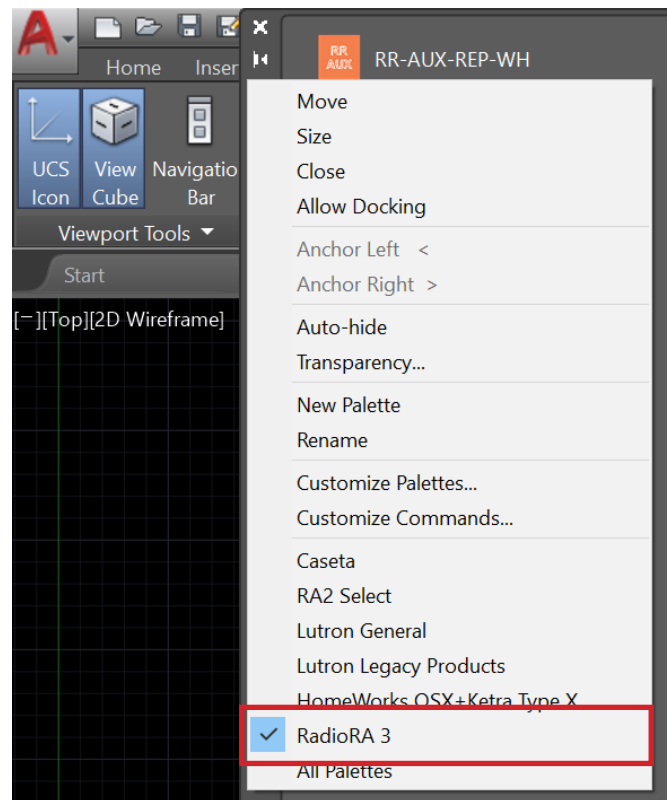
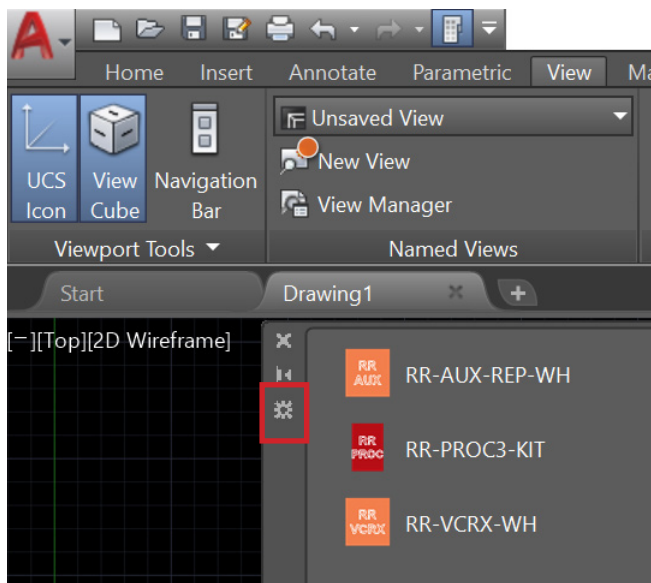
In the command line, type **Tool Palettes**, then choose the desired palette from the tabs on the right-hand side.



Lutron Design Files and AutoCAD Tool Palettes (continued)

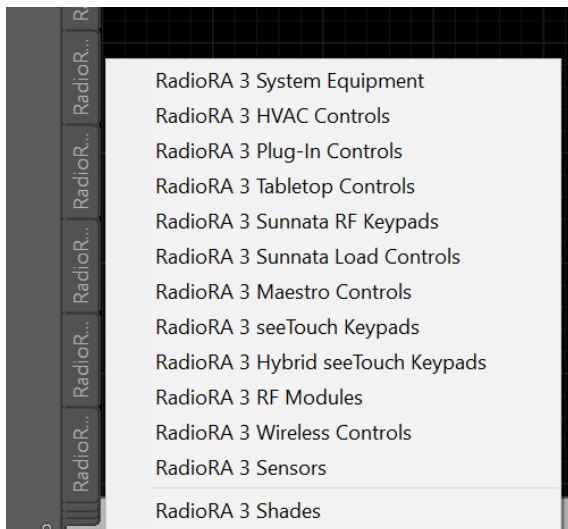
Switching Profiles

Click the gear icon on the left-hand side, then select the desired profile. In this case, **RadioRA 3** is selected.



Switching Tool Sets

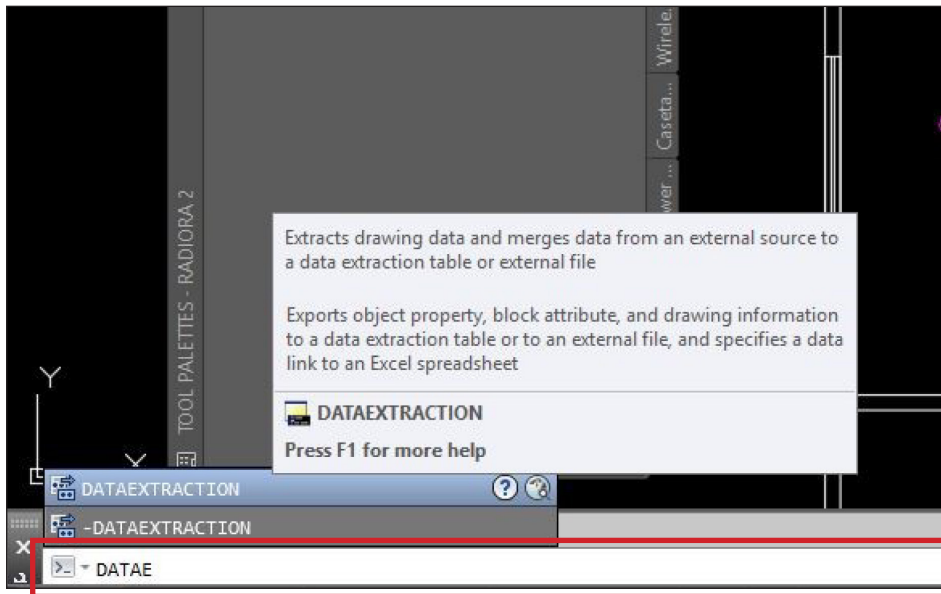
Click on the bottom tab on the right-hand side to extend the list of product categories.



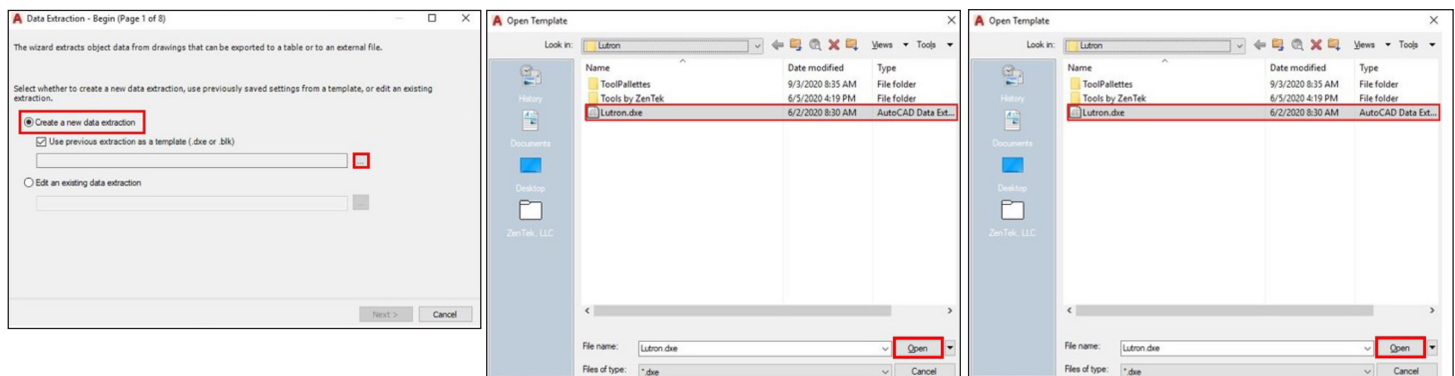
Data Extraction to .CSV File

Below is a list of step-by-step instructions on how to successfully complete a data extraction from AutoCAD to a .CSV file.

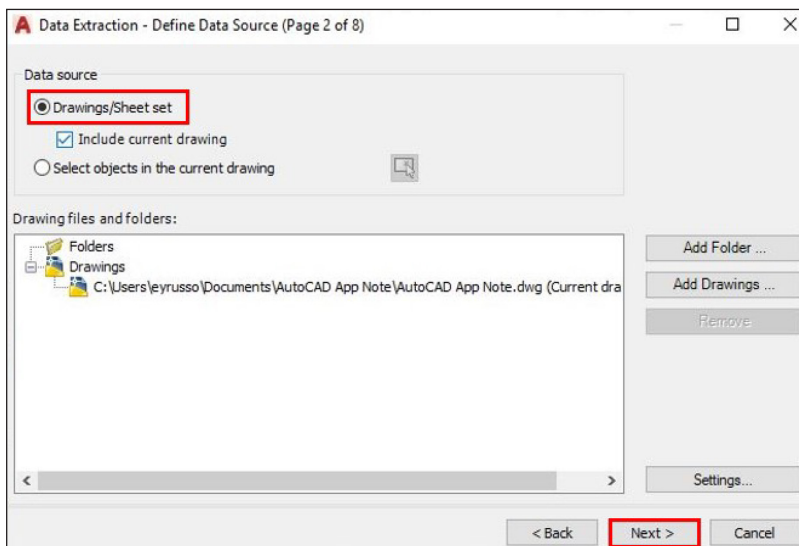
1. Type in the command line, **Data Extraction**.



2. Select **Create a new data extraction**, click the “...” and choose the desired template. Next, select the **Lutron.dxe** file in the C:/drive and click **Open**. Then click **Save** to save the data extraction file.



3. Select **Drawings/Sheet set**, then click **Next**.



Data Extraction to .CSV File (continued)

4. Make sure all the **Objects** are selected, then click **Display blocks only**, then select the objects to extra data from. Click **Next**.

Data Extraction - Select Objects (Page 3 of 8)

Select the objects to extract data from:

Object	Display Name	Type
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential Fixed Round D3 Downlight	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential Fixed Square D3 Downlight	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential Wall Wash Square D3 Downlight	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential Wall Wash Round D3 Downlight	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential D4R Retrofit Downlight	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential PAR30 Lamp	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential PAR38 Lamp	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential PAR30 Track Fixture	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential PAR38 Track Fixture	Block
<input checked="" type="checkbox"/> Ketra Residential ...	Ketra Residential G2 Linear Luminaire	Block

Display options

☐ Display all object types ☒ Display blocks with attributes only
☒ **Display blocks only** ☐ Display objects currently in-use only
☐ Display non-blocks only

< Back **Next >** Cancel

5. Make sure the following properties are selected to extract.

NOTE: If you are using the LS0 Lightbar Slim you will need to check Section 11 and Lumens. For HomeWorks Sunnata keypads, make sure **Components** is selected.

Data Extraction - Select Properties (Page 4 of 8)

The following properties were found based on the objects you selected.

Select the properties you want to extract.
(Explore the right-click menu for additional options.)

Property	Display Name	Category
<input checked="" type="checkbox"/> AREA	Area	Attribute
<input checked="" type="checkbox"/> COMPONENTS	COMPONENTS	Attribute
<input checked="" type="checkbox"/> HEIGHT	HEIGHT	Attribute
<input checked="" type="checkbox"/> LTRNCADSYM	LTRNCADSYM	Attribute
<input checked="" type="checkbox"/> LUMENS	LUMENS	Attribute
<input checked="" type="checkbox"/> NAME	Name	Attribute
<input checked="" type="checkbox"/> PRODUCT	Product	Attribute
<input checked="" type="checkbox"/> PRODUCT_TYPE	Product Type	Attribute
<input checked="" type="checkbox"/> SECTION1	SECTION1	Attribute
<input checked="" type="checkbox"/> WIDTH1	WIDTH1	Attribute

Category filter

- ☐ 3D Visualization
- ☒ **Attribute**
- ☐ Drawing
- ☐ Dynamic Block
- ☐ General
- ☐ Geometry
- ☐ Misc

< Back **Next >** Cancel

6. Refine data, if needed, click **Next**.

Data Extraction - Refine Data (Page 5 of 8)

In this view you can reorder and sort columns, filter results, add formula columns, and create external data links.

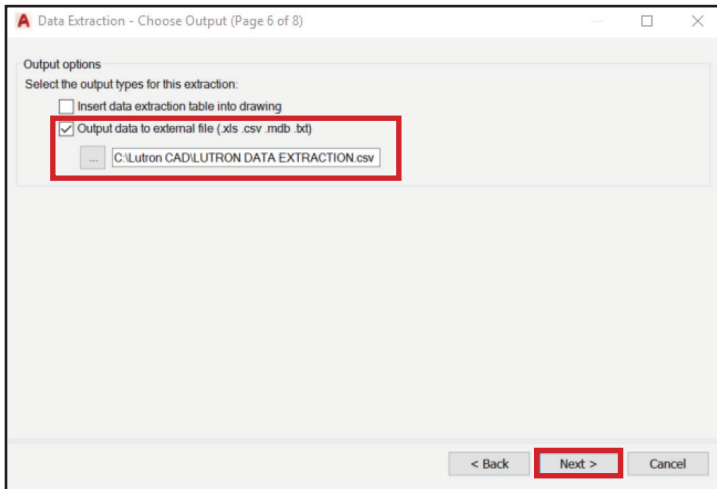
Quantity	Name	Area	Product	Product Type	Height
1	Type X		D3 Downlight Fa...	Downlights	
1	Type X		D3 Downlight Fa...	Downlights	
1	Type X		D3 Downlight Fa...	Downlights	
1	Type X		D3 Downlight Fa...	Downlights	
1	Type X		D3 Downlight Fa...	Downlights	
1	Type X		D3 Downlight Fa...	Downlights	
1	Type X		D3 Downlight Fa...	Downlights	
1	+ Ketra		D3 Downlight Fa...	Downlights	
1	+ Ketra		D3 Downlight Fa...	Downlights	

☒ Combine identical rows
☒ Show count column
☐ Show name column

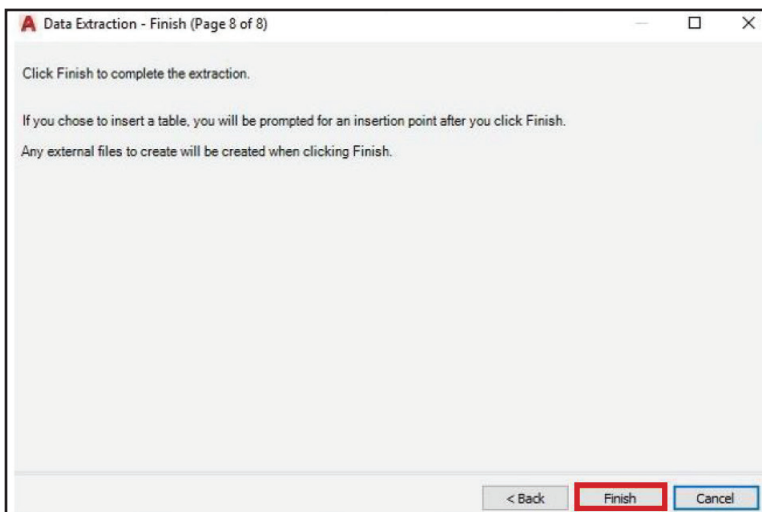
< Back **Next >** Cancel

Data Extraction to .CSV File (*continued*)

7. Select **Output data to external file**, click the “...” and choose Lutron Data Extraction template located in the C:/Lutron on your local drive. Click **Next**.



8. Click **Finish** to complete the data extraction.



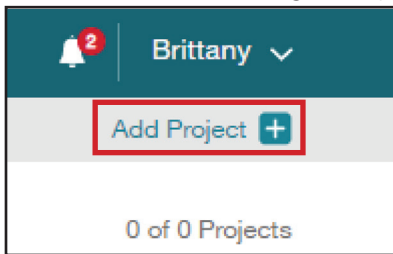
Import to myProjects

Below is a list of step-by-step instructions on how to import a .CSV file to myProjects.

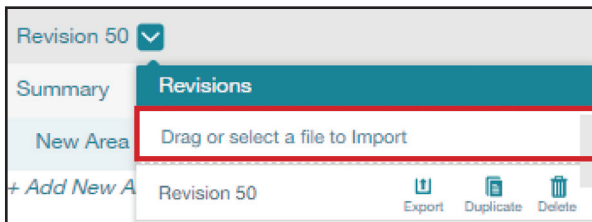
1. An Excel document will populate the following information.

A	B	C	D	E	F	G	H
Quantity	Name	Area	Product	Product Type	LTRNCADSYM	HEIGHT	WIDTH1
1			RRST-W2B-WH	Sunnata Keypad	1		
1			RRST-W3RL-WH	Sunnata Keypad	1		
1			RRST-W4B-WH	Sunnata Keypad	1		
2			RRST-8ANS-WH	Sunnata	1		
2			RRST-PRO-N-WH	Sunnata	1		
2			Sivoia QS Wireless; Roller 64	Roller	1	108	96

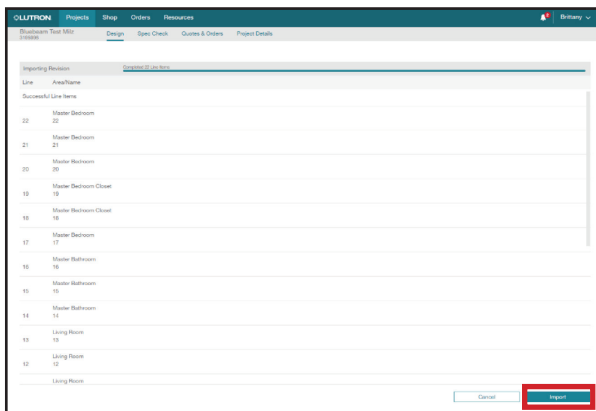
2. Save the .CSV file. Then go to myLutron.com to access my projects. In myProjects, click **Add Project** in the top right corner.



3. Once a new project has been created, on the right-hand side of myProjects, click the drop-down under **Revisions**. In the Revisions dialog box, drag or select the .CSV file to import.



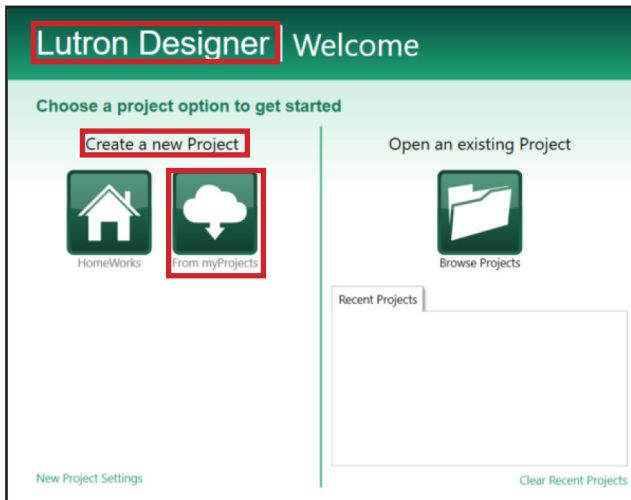
4. When the .CSV file is successfully imported, the items will appear under the **Successful Line Items**.
5. Click **Import**.



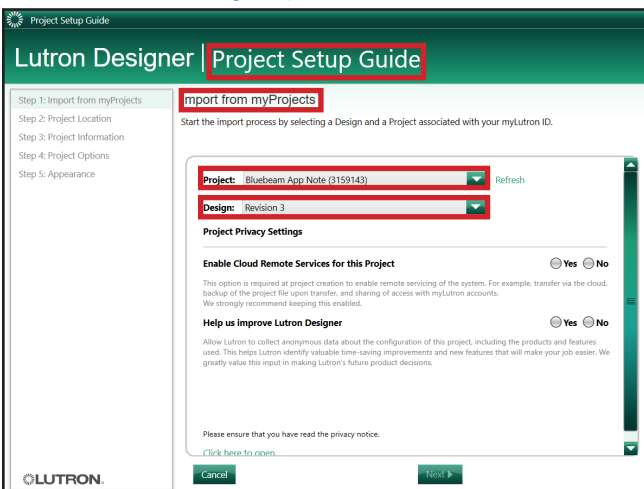
Lutron Designer Software

Below is a list of step-by-step instructions on how to export from myProjects to Lutron Designer.

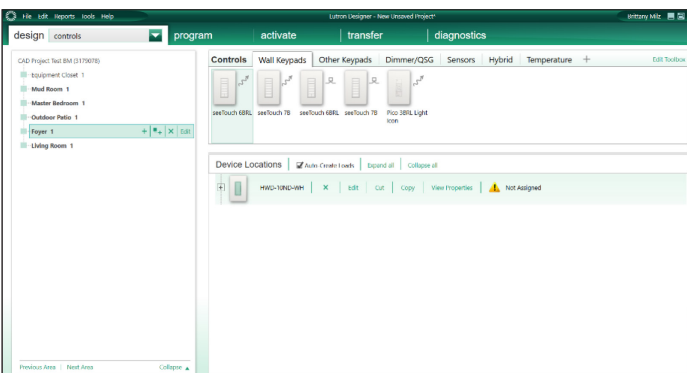
1. Open **Lutron Designer**. Under **Create a new Project**, select **From myProjects**.



2. In **Project Setup Guide – Import from myProjects**, under **Project**, click the drop down and import the designated project.
3. Once the project is selected, selected the **Design Revision**.
4. Follow the remaining steps on the left-hand side and click **Finish**.



5. Project has been successfully imported.

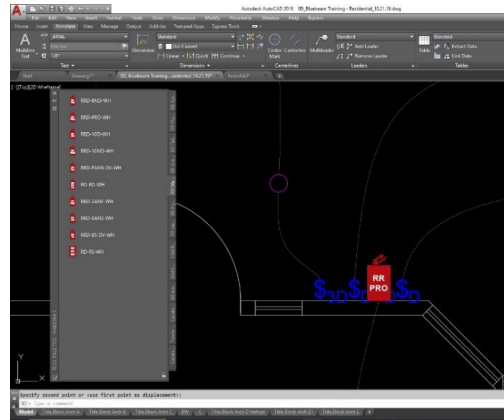
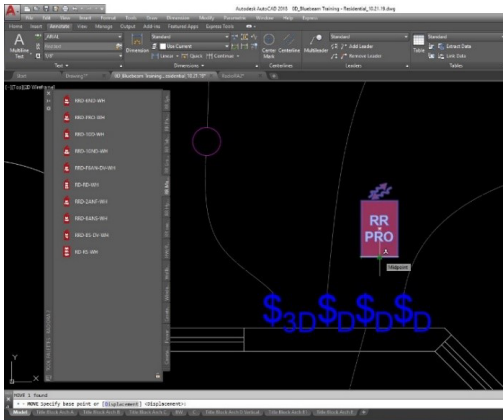


Best Practices

Snap Points

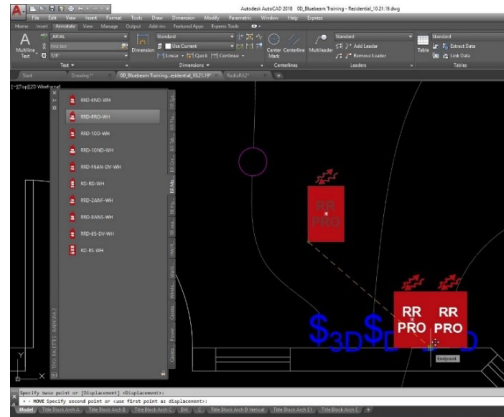
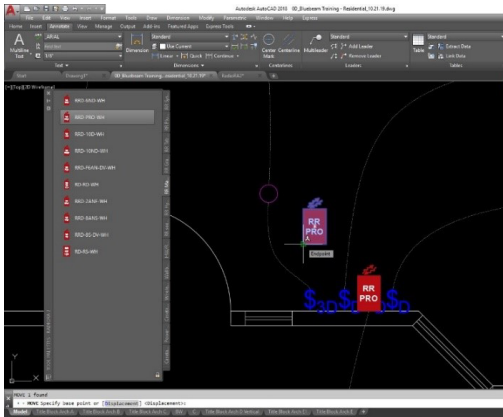
Midpoint

Midpoint allows for blocks to snap to the midpoint of any line on a drawing. The example below is a Midpoint Object-Snap.



Endpoint

Endpoint allows for blocks to snap to any endpoint on a drawing. This is used to specify precise locations and line up points. The example below is an Endpoint Object-Snap.

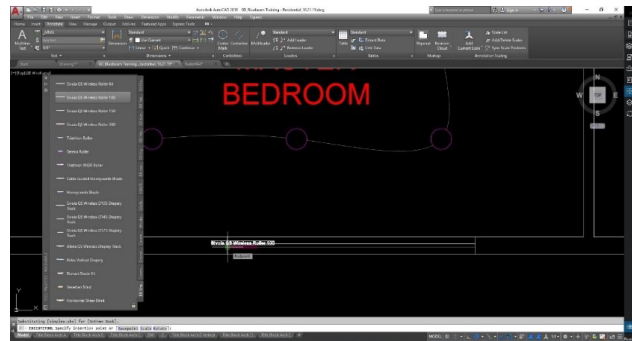
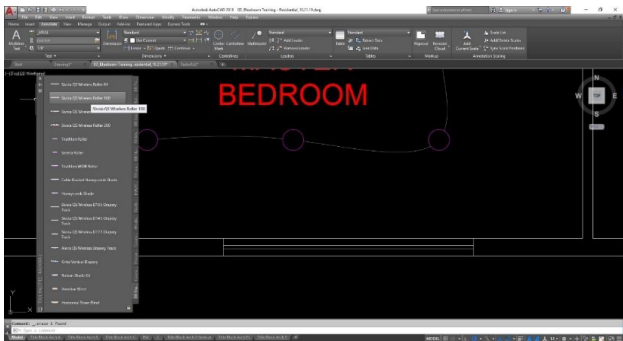


Best Practices *(continued)*

Shades

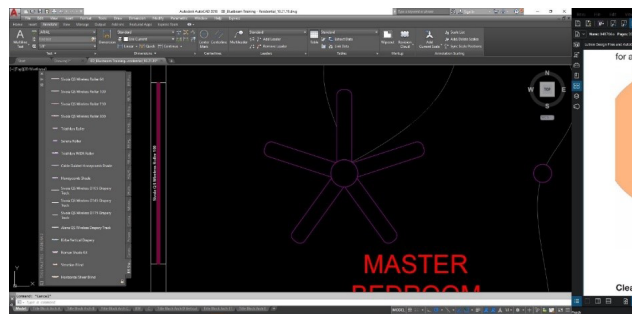
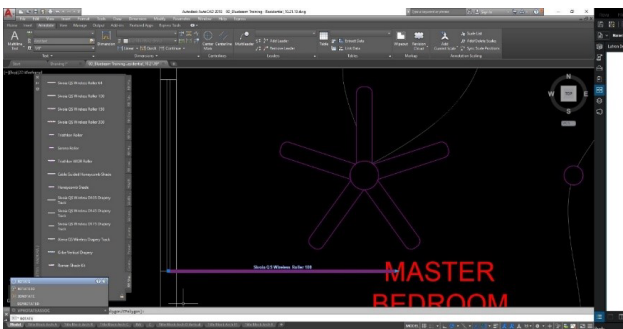
Selecting and Placing Shades

Select **Shades** within the Tool Palette(s) and insert into the drawing.



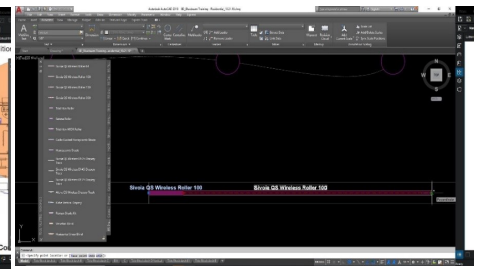
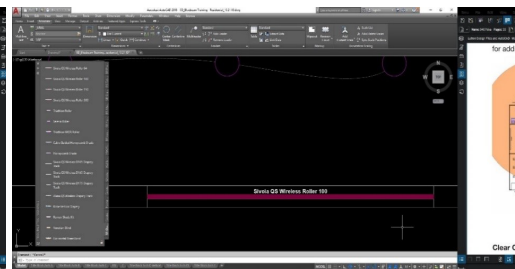
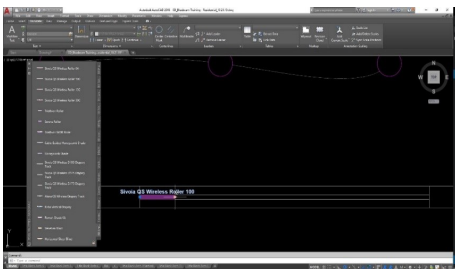
Rotating Shades

Place a shade on the drawing, then in the command line, type **Rotate** and click the arrow to rotate the shade to the desired location.



Adjusting Shade Length

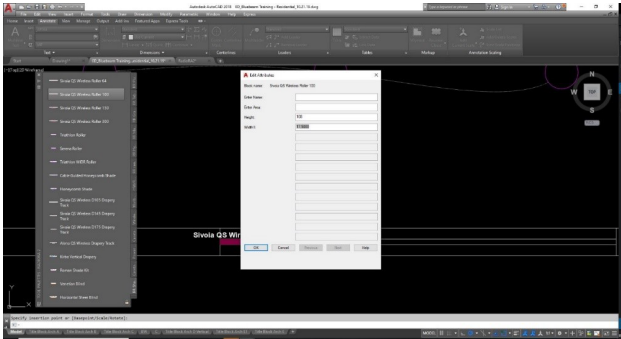
Linear dynamic blocks can be adjusted by clicking the arrow and stretching the block to the desired length. Below are examples of adjusting shade lengths.



Best Practices *(continued)*

Editing Attributes

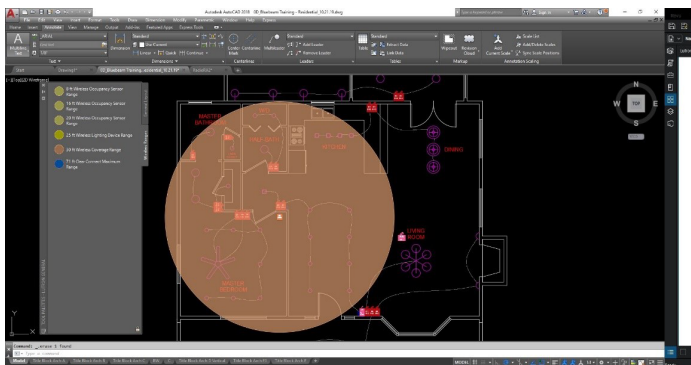
An **Edit Attributes** box will appear with each block placed on a drawing. **Edit Attributes** shows the block name and allows for a Name and Area of the block to be entered (optional). Click OK when complete.



Wireless Ranges

Clear Connect Wireless – Type A

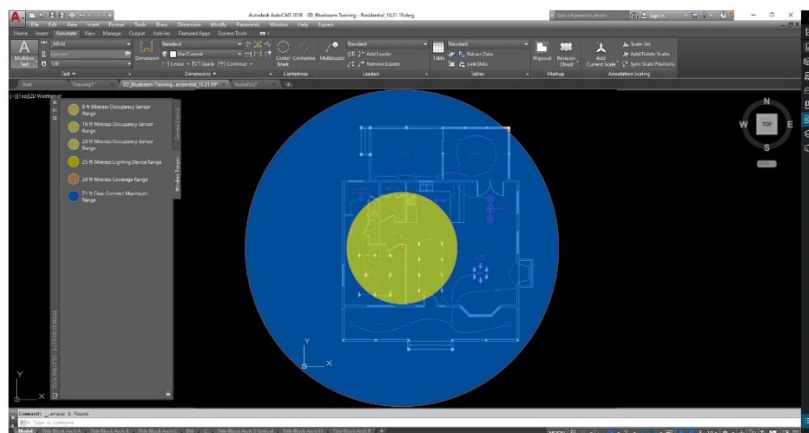
Below is a screenshot showing the usage of the 30 ft (9 m) Clear Connect Wireless - Type A radius which represents the recommended distance from the device to the repeater. This can be used to verify proper wireless coverage and the need for additional repeaters on the link.



Clear Connect Wireless – Type X

The following screenshot demonstrates the usage of the 75 ft (22.8 m) and 25 ft (7.6 m) radii which are used with Clear Connect Wireless – Type X applications. The 75 ft (22.8 m) radius represents the range that all devices assigned to a Clear Connect Gateway – Type X must be within and the 25 ft (7.6 m) radius is used for both of the following verifications:

1. At least two Clear Connect Wireless – Type X devices must be within 25 ft (7.6 m) of their gateway.
2. Each Clear Connect Wireless – Type X device must be within 25 ft (7.6 m) of 2 other devices on the subnet.



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