

Application Note #766

Revision C April 2022

Lutron Design Files and Bluebeam® Revu®

Bluebeam allows for easier specification and increased accuracy to specify Lutron on every job. In addition, Bluebeam empowers the specification community through digital drawing tools in popular formats. Bluebeam Revu helps create an efficient and effective workflow beyond Lutron Designer.

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Lutron Design Files and Bluebeam Revu Overview

Bluebeam helps to provide designers, architects, and engineers the opportunity to have the latest information to specify Lutron products accurately on projects. For some tools, like Bluebeam, Lutron has also worked to offer a way to incorporate the output from the tool into the normal Lutron workflows as part of our myLutron platform and the Lutron Designer software.

Software Requirements

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

Download and Installation of Design Files

Below is a list of step-by-step instructions on how to download Lutron Bluebeam Tool Chests.

Available to download on:

- Lutron.com/bluebeam
- Ketra.com/resources
- 1. On Lutron.com, click on the Service & Support tab, then select Bluebeam under Technical Documentation & Support.



Lutron Design Files and Bluebeam Revu Overview (continued) Download and Installation of Design Files (continued)

2. Specify the product or system desired. In this case, HomeWorks has been selected.



Once a product or system is selected, click Lutron Design Files Download. Provide the requested 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.
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Specification Tools							
Product Description	Model	Document Title	Model Number	Voltage	Download(s)		
Lutron Design Files and Bluebeam® Revu® Application Note	All Models	Lutron Design Files and Bluebeam® Revu® Application Note			English (pdf)		
How to Utilize Bluebeam with Lutron Design Files	All Models	How to Utilize Bluebeam with Lutron Design Files			English 🛃		
Lutron Design Files Download	All Models	Lutron Design Files Download			English 🛃		
Bluebeam and AutoCAD Lutron designed these symbols to help you Lutron is always updating these symbols, ar new symbols as available. Please provide yo below: * your@email.com I agree to the Lutron privacy notice I understand that Lutron may contact me these tools. Proceed to download	quickly take-off yo Id we want to prov ur email address : for feedback for co	ur job with Lutron products. ide you with updates and and agree to the checkboxes ontinuous improvements of					

Lutron Design Files and Bluebeam Revu Overview (continued)

Download and Installation of Design Files (continued)

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:

- <u>BlueBeam</u>
- <u>AutoCAD</u>

Please send all feedback to ResiSys_Apps_Team@lutron.com

On www.ketra.com, follow the step-by-step download instructions below.

5. Click the drop down in the top right corner of the page then click Resources.





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Lutron Design Files and Bluebeam Revu Overview (continued)

Download and Installation of Design Files (continued)

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	\bigtriangledown
Bluebeam/CAD Tool Kit	

Lutron Design Files and Bluebeam Revu Overview (continued)

Download and Installation of Design Files (continued)

- 7. Ensure Bluebeam Revu is installed and closed to successfully install the Tool Chests.
- 8. Open Windows Explorer and create the folder "C:\ Lutron" on your local drive.
- 9. Download the "Lutron Bluebeam.zip" file.
- 10. Extract the file to the "C:\ Lutron" folder as shown below:

Select a Destin	ation and Ext	tract Files			
Files will be extracted	to this folder:				
C:\Lutron				Browse	
✓ Show extracted f	les when complet	te			
Show extracted f	les when comple	te			
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11. In Bluebeam Revu, go to Revu in the top left corner, select Profiles then click Manage Profiles.



Lutron Design Files and Bluebeam Revu Overview (continued)

Download and Installation of Design Files (continued)

12. Under Location, select the "..." or Browse, navigate to your local drive where you created the folder "Lutron", then select the extracted ZIP file Bluebeam Revu as shown below:

Manage Profiles ×	Browse to Profile Location $ imes$
Profiles	$\leftarrow \rightarrow \ \ \ \ \ \rightarrow \ \ \ \ \ \ \ \ \ \ \ \ $
Active: Revu ~	Organize * New folder
Profile	🗊 (C:) OSDisk ^ Name ^ Date modified Type
Revu	SWINDOWS.~I Bluebeam Revu 5/26/2021 11:36 AM File fold
Quantity Takeoff	Lutron
Field Issues	OutlookArchive
	Perflogs
	Program Files
	ProgramData
	Users
Import Export Include Dependencies Add Modify Delete	Windows
Location: C:\Users\bmitz\AppData\Roaming\Bluebeam Software\Revul20\	n _X (L) dis01 (/unita → <
	Folder: Bluebeam Revu
OK Cancel	Select Folder Cancel

13. Once the profiles are loaded, select the Active profile you want to use and click OK as shown below:



14. To verify the Lutron profiles have been successfully installed, go to Revu in the top left corner, and select "Profiles".



Lutron Design Files and Bluebeam Revu Overview (continued) Download and Installation of Design Files (continued)

15. Once a drawing is loaded into Bluebeam, you may begin your project.

OPTIONAL: If HomeWorks Sunnata keypads or the LS0 Lightbar Slim are being used in projects, custom columns need to be imported into the **Markups List.** Please follow the below steps:

1. Click the drop down under Markups List, click Columns and select Manage Columns.



2. Navigate to the Custom Column tab and select Import. Open the Bluebeam Revu folder, select Lutron Custom Columns, click Import, select Yes and click OK.

	om Columns		Custom Columns	
	Name	Туре	Name	Туре
	Product	Text	Product Product Turne	Text
	Product Type	Text	Width1	Form
Ŧ	Width1	Formula	V	-
	Quantity	Formula	Import Custom Columns	
Х	Specification	Text	A Importing Custom C	al una calaca line anu aviati
	Import Export	Add Modify		Yes
Colur	Import Export	Add Modify	Column Template	Yes
Colur To a	Import Export mn Template apply above Custom Columns to new PDF	Add Modify	Column Template To apply above Custom Columns to documents click 'Save to Profile' T	new PDF S
Colur To: doc	Import Export mn Template apply above Custom Columns to new PDF suments click: Save to Profile: To revert back rever back	Add Modify Save to Profile	Column Template To apply above Custom Columns to documents dick' Save to Profile T to using only the Standard Column	P new PDF Si o revert back s click 'Delete Dele

3. The following custom columns will appear:

Markups Lis	st ~ % 🔍	Search		x	√ Filter Lis	st 🗅					
🗆 Label	Product	Product Type	Space	Area	Quantity	Width1	Section 1 1	Height	Lumens	Specification	Components

×

No

Cancel

existing Custom he active

Save to Profile

OK

Lutron Design Files and Bluebeam Tool Chests

Tool Chest

The Tool Chest is organized into different Lutron product categories based upon the Lutron profile chosen.



My Tools

A built-in tool chest for frequently used Lutron products or additional created symbols. The **My Tools** tool chest will remain between design sessions.



Tool Chest Toolbar

Expand / Collapse: Expands or collapses the product set within the Tool Chest.



Properties Menu

Symbol: Products in the Tool Chest are shown as their symbol only.



Detail: Products in the Tool Chest are shown in a more detailed format, including the product full name.

Тос	l Chest ∨			
>	My Tools		Ø	>
~	Ketra Type X		(A)	
	Subject	Comment	Label	
Tur	Ketra Type X Residential		Ketra Type X Residential Fixed Round D	
-	Ketra Type X Residential		Ketra Type X Residential Adjustable Rou.	
Î	Ketra Type X Residential		Ketra Type X Residential Wall Wash Rou	
-	Ketra Type X Residential		Ketra Type X Residential Fixed Square D	
-	Ketra Type X Residential		Ketra Type X Residential Adjustable Squ.	
	Ketra Type X Residential		Ketra Type X Residential Wall Wash Squ	•
Bitt	Ketra Type X Residential		Ketra Type X Residential D4R Retrofit D	
Gur	Ketra Type X Residential		Ketra Type X Residential PAR 30 Lamp	
Î	Ketra Type X Residential		Ketra Type X Residential A20 Lamp	
ÖH	Ketra Type X Residential		Ketra Type X Residential PAR 30 Track L	
-	Ketra Type X Residential		Ketra Type X Residential PAR 38 Lamp	
ÖHT	Ketra Type X Residential		Ketra Type X Residential PAR 38 Track L	•
1	Ketra Type X Residential		Ketra Type X Residential G2 Linear Lumi	
	Ketra Type X Residential		Ketra Type X Residential N3 Satellite	

Tool Chest Toolbar (continued)

Properties Menu (continued)

Hide: Product tool sets can be hidden from the **Tool Chest** if not needed on a project. To show the hidden product tool set, select it from the **Tool Chest** menu.

Re	vu	File	Edit		View	Docu	iment	Bat	tch	Tools
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	>	My Tools		нw HW	QS Inter RR Wire	rfaces eless Lo	ad Contr	ol Mo	dules	
	>	HW Syst	em 🗸	HW HW	DIN Loa	ires ad Conti	rol Modu	les		
0	>	HW DIN	Loa	Wa HW	Palladic	wer Moo om Keyp	dules & G bads	irafik E	yes	
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				HW HW Ket Rec HW Pov Eco Wir QS Wir	Square (Architra Signatu ra Type) Septacles Facepla ver Boos System eless Pic Power S ed Sense	seeTou ave Key re Serie X stes ttes Interfac co Contr upplies ors	ich Keypa pads es Keypa ces rols	ads ds		
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Setting the Scale

Sets the PDF drawing to scale to ensure accuracy of measurements, shading solutions, sensors, wireless and lighting ranges.

Preset and Custom

If the scale is known on the PDF drawing, use **Preset** for common scales or **Custom** for manual input. **Note: The scale must be set before any products are placed or measurements are taken on the drawing.**

- 1. Click Scale not Set on bottom right side of the screen.
- 2. When dialog box appears, click Input Apply a preset or custom scale.

Set Scale			\times
	Calibrate Set scale using a known dimensic	on on drawing (recommended)	
سليطيبي	Input Apply a preset or a custom scale		
		Cancel	

3. For **Preset**, select the drawing PDF scale from the drop-down menu.

Set Scale					×
Sele	ct a pre	set scale or	enter a cust	om scale below	
	Scale:	Preset	Custom		
D -	1-1				
Plo	Pengei	0::===== (1)			
Page	Range:	Current (1)			``
Calibrat	e			Apply Scale	Cancel

- 4. For Custom, enter the scale in the fields provided.
- 5. Click Apply Scale.

Setting the Scale (continued)

Calibrate

Allows accurate collaboration of the PDF by measuring the length between a known distance (doorway, ceiling tiles, etc.) on the drawing.

- 1. Click Scale not Set on bottom right side of screen.
- 2. When the dialog box appears, click Calibrate.

- 3. Select two known points. Click OK.
- 4. Find a known distance on the drawing. Click the first point, then click the second point to complete the distance.

5. The Calibration dialog box will appear, enter the known distance between the two points and select the correct units for the drawing.

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6. Click Apply Scale

Wireless Ranges

Clear Connect-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 device to the repeater. This can be used to verify proper wireless coverage and the need for additional repeaters on the link.

Clear Connect-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.

Tips and Tricks

Markups List

Splitting or Merging Counts

Products can be split into smaller groups by room or by space or merged into larger groups.

Split Counts

Product within rooms or spaces can be split in groups by selecting specific count measurements, or split into individual count measurements.

- 1. Right-click the selected product or symbol and select either:
 - a. Split Count: Splits only selected product or symbol on the PDF drawing.
 - b. Split All: Splits all the products or symbols into individual groups or line items.

Merging Counts

Products or count measurements can be combined into a singular group.

1. Right-click the selected product on the PDF drawing and select Merge Counts.

Tips and Tricks (continued)

Markups List (continued)

Resuming Counts

When a set of products is placed on the floorplan, beginning a new count will create a new line item. Resuming count will allow for the same product to be continually stamped within the original line item or count measurement.

1. Right-click on any of the products on the PDF drawing and select Resume Count.

Deleting a Group

Product or count measurements can be removed from a group.

- 1. Right-click on the product within the PDF drawing you would like to remove.
- 2. Select Delete "product name" from Group.

Tips and Tricks (continued)

Spaces

Designed to create a more efficient organized markups list. By setting up your PDF drawing with spaces, you will be able to find, filter, and report the stamped product more effectively. With spaces you can designate room within a drawing on an invisible layer.

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Add a Space

1. On the Spaces tab, click Add Space.

2. Click and drag a rectangle over the space.

3. In the dialog box, enter a name for the **Space** and click **OK**.

Tips and Tricks (continued) Spaces (continued)

Adding a Space with Curved Walls

- 1. On the Spaces tab, click Add Space.
- 2. Click and drag a rectangle over the space and click OK.
- 3. Select the space from the space tab and the space will enter Edit Space mode.
- 4. Right-click the point closest to the desired curve and click Convert Control Point to Curve.
- 5. Click and drag the highlighted points to change the shape of desired curve.

Adding an Irregularly Shaped Space

- 1. On the Spaces tab, click Add Space.
- 2. Click once on a corner of the space.
- 3. Click again on each corner until the outline is completed.
- 4. Press enter to finish defining the space.
- 5. In the dialog box, enter a name for the space and click **OK**.

Tips and Tricks (continued)

Count Measurements Properties

General

Shows the properties of the selected product or symbol on the PDF drawing. Each product or symbol, under the General section, includes a Subject and Label property.

Note: The Product and Label columns are needed to export into myProjects.

Subject: Defines the model number of the selected product or symbol on the PDF drawing. The Subject appears in the markups list under Product.

Label: Defines the full product name selected and appears on the Markups list as Label.

₩	Count Measurement Properties	_	٥
~	General	^	ر الم
	Author: bmilz		단
	Label: HomeWorks RF Designer Maestro PRO Dimmer		
	HomeWorks RF Designer Maestro PRO		\Box
	Dimmer 3		Q
	~		

Appearance

- 1. To change the appearance, click on the desired product or symbol.
- 2. Click on the Properties icon, \bigcirc , on the right side of the screen.
- 3. Under appearance:
 - a. **Opacity:** Sets the opacity of the product or symbol invisible or opaque (example: stamping a faceplate over a dimmer).

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b. Scale: Sets the size of the product or symbol.

Export to .CSV File

As you place Lutron products or symbols onto a PDF drawing, it begins to create a bill of materials within the Markups List, which can then be exported as a .CSV file.

Below is a list of step-by-step instructions on how to successfully export a bill of materials into a .CSV file.

- 1. Click the drop down under Markups List and click Columns make sure the following columns are selected to ensure a successful import into myProjects.
 - Product
 - Product Type
 - Quantity
 - Width 1
 - Height
 - Area
 - Section 11 (for Lightbar Slim projects)
 - Lumens (for Lightbar Slim projects)
 - Components (for HomeWorks Sunnata keypads)

2. Once the correct columns have been selected, navigate to the **Summary** tab on the **Markups List**, and select **CSV Summary**.

Import to myProjects

With some slight modifications, the .CSV file from Bluebeam can then be imported into myProjects where further edits, additional devices, and a bill of material can be made.

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

1. An Excel document will populate the following information.

А	В	С	D	E	F	G	Н	I .
Label	Product	Product Type	Space	Area	Quantity	Width1	Height	Specification
RadioRA 3 Processor	RR-PROC3-KIT	System Components			1	1	108	https://webapi
RadioRA Auxillary Repeater	RR-AUX-REP-WH	SystemComponents			1	1	108	http://www.lut
Sivoia QS Wireless Roller 64	Sivoia QS Wireless; Roller 64	Roller				108	108	http://www.lut
Sivoia QS Wireless Roller 64	Sivoia QS Wireless; Roller 64	Roller				120	108	http://www.lut
Sunnata	RRST-PRO-N-WH	Sunnata			1	1	108	
Sunnata	RRST-PRO-N-WH	Sunnata			1	1	108	
Sunnata RF Keypad	RRST-W4B-WH	Sunnata Keypad			1	1	108	https://webapi
Sunnata RF Keypad	RRST-W3RL-WH	Sunnata Keypad			1	1	108	https://webapi
Sunnata RF Keypad	RRST-W2B-WH	Sunnata Keypad			1	1	108	https://webapi
Sunnata RF Switch	RRST-8ANS-WH	Sunnata			1	1	108	https://webapi
Sunnata RF Switch	RRST-8ANS-WH	Sunnata			1	1	108	https://webapi

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

0 of 0 Projects

4. Once a new project has been created, on the right-hand side of myProjects, click the drop down under Revisions.

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5. In the Revisions dialog box, drag or select the .CSV file to import.

- 6. When the .CSV file is successfully imported, the items will appear under the Successful Line Items.
- 7. Click Import.

UTRON	Projects									.0	
Bluebearn T 1166005	ist Milz	Design	Spec Che	eck Quotes & Ord	lers Project Details						
Importing R	evision	9	longkeled 22 Line H	lone							
Line .	Area/Name										
Successful L	ine Items										
22	Master Bedroom 22										
21	Master Dedixorn 21										
20	Master Bedroom 20										
19	Master Bedroom 0 19	Closet									
15	Master Bedroom (18	Sloset									
17	Master Bedroom 17										
16	Master Bathroom 16										
15	Master Bathroom 15										
н	Master Bathroom 14										
13	Living Room 13										
12	Living Room 12										
	Living Room										
								Cano	1	kry	xort

Lutron Designer

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

- 1. Open Lutron Designer.
- 2. Under Create a new Project, click From myProjects.

Lutron Designer Welcome							
Choose a project option to get stat Create a new Project	rted Open an existing Project Forware Projects Recent Projects						
New Project Settings	Clear Recent Projects						

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

Network Setup Guide		
Lutron Design	er Project Setup Guide	
Step 1: Import from myProjects Step 2: Project Location Step 3: Project Information Step 4: Project Options	Import from myProjects Start the import process by selecting a Design and a Project associated with you	r myLutron ID.
Step 5: Appearance	Project: Bluebeam App Note (3159143) Design: Revision 3 Project Privacy Settings	Refresh
	Enable Cloud Remote Services for this Project This option is required at project creation to enable remote servicing of the system. Fo backup of the project file upon transfer, and sharing of access with myLutron accounts We strongly recommend keeping this enabled.	Yes No
	Help us improve Lutron Designer Allow Lutron to collect anonymous data about the configuration of this project, includ used. This helps Lutron identify valuable time-saving improvements and new features to greatly value this input in making Lutron's future product decisions.	Yes No No ing the products and features that will make your job easier. We
	Please ensure that you have read the privacy notice. Click here to open	
	Cancel Next Next Next	

Lutron Designer (continued)

6. A project has now been successfully imported into the Lutron Designer software.

ディーデー File Edit Reports Tools Help			Lutron Designer - Ne	w Unsaved Project*			
design controls	orogram	activate	transfer	dia	agnostics		
Bluebeam App Note (3159143) Surroom Master Bathroom Living Room Equipment Closet Kitchen Half Bath Dining	Edit Controls	Wall Keypads C La California Sector Sector 78 Sector Master Bedroom Fan Co Master Bedroom Fan Co MBR Dimmer 1 MBR Dimmer 3	Dther Keypads	Dimmer/QSG	Sensors Hybrid	Temperature	+
Previous Area Next Area Collap	se 🔺						

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