



J2 Light® - BLU PROJECT™ APP 2018 User's Manual

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*Simple, Affordable, and Effective
Bluetooth Lighting Control*
iOS and Android Compatible APP

BLU PROJECT™ is the building manager's companion APP to the **SMART BLU™** wireless lighting control system APP.

BLU PROJECT™ provides two main functions:

1. **“Max Brightness Setting”** also known as “High Trim” allows the building manager to set an artificial 100% brightness level for any light or group of lights controlled by the **SMART BLU™** wireless lighting control system. For example, suppose that new **SMART BLU™** compatible LED lights have been installed in an office building. As building manager, you may determine if the “FULL ON” or “100%” light level for any space is too bright and adjust it to your desired level. After adjustment, the new level will appear as top end brightness to the occupant.

This function provides greater flexibility for varying space usage and less constraints on designing perfectly lit spaces limited only to immediate needs. Tailoring top end light output to each unique application can save power and maintenance costs while improving occupant comfort. It also allows for low cost future changes to suit demographic or space usage shifts.

2. **“Over The Air (OTA) Update”** is a feature that allows **SMART BLU™** firmware to be updated in the future should the need arise.

Firmware updates are used to improve capabilities or fix issues.

These functions and more will be discussed in the following pages.

*** Before beginning with the **BLU PROJECT™** APP you must first “Add” lights with the **SMART BLU™** APP. After adding lights, “QR Codes” are saved by **SMART BLU™** for each zone of your building. The **BLU PROJECT™** APP can then access each “QR Code” for programming.

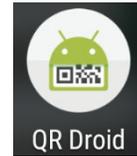
How to download **BLU PROJECT™ APP** for **APPLE (iOS)**

You may download the **BLU PROJECT™ APP** by using a scanning APP to scan the following QR Code. When scan is complete you will be provided a link to the **BLU PROJECT™ APP** in the Apple Store. Alternatively, you may visit the Apple Store and search “BLU PROJECT” to arrive at the same APP download area.



How to download **BLU PROJECT™** APP for ANDROID

You may download the **BLU PROJECT™** APP by scanning the QR Code shown below. Many free QR Code readers or Scanner APPs are available at the Google Play Store. For example, we have used the “QR Droid” APP (icon seen right). This APP allows you to scan from a picture or screenshot, or It can scan from paper or any type of screen.



Note that we do not endorse any specific APP. The choice is yours.

After scanning the **BLU PROJECT™** QR Code (bottom of page) you will either be presented with a link to touch (right), OR download will begin automatically.

QR Details

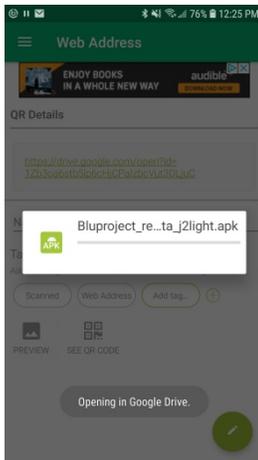
<https://drive.google.com/open?id=1Zb3oa6stb5lp6cHjCPaIzbcVut3DLjUC>

Alternatively you may add www.smartblu.com/bluproject to your smartphone browser which will automatically download the APP



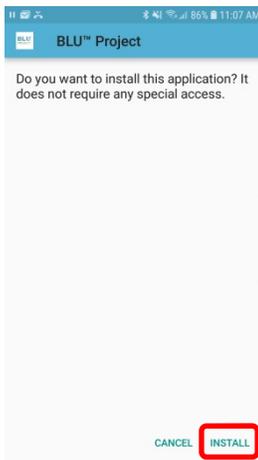
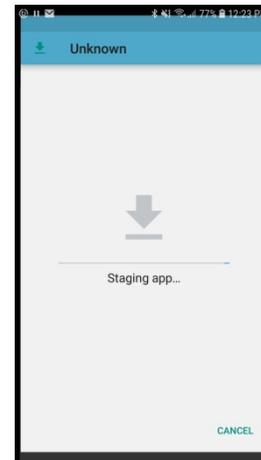
How to download **BLU PROJECT™ APP** for **ANDROID** (Continued)

Once the APP download begins you will follow a number of steps to completion.



The QR Code reader APP should show you a progress bar (left) for the opening of the **BLU PROJECT™ APP** file.

This may be followed by a staging screen (right).

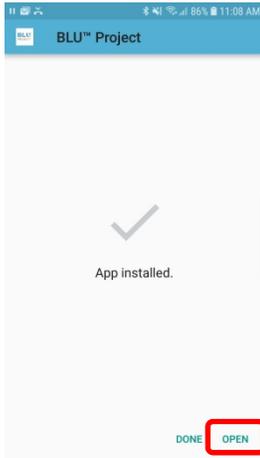


After staging is complete you see a **BLU™ Project** page that asks “Do you want to install this application” It does not require any special access” (left). To continue, touch **INSTALL**.

The APP will then begin the install process (right).



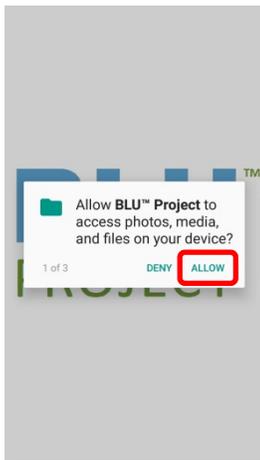
How to download **BLU PROJECT™** APP for **ANDROID** (Continued)



When install is complete you will see the “App installed.” page with a checkmark (left).

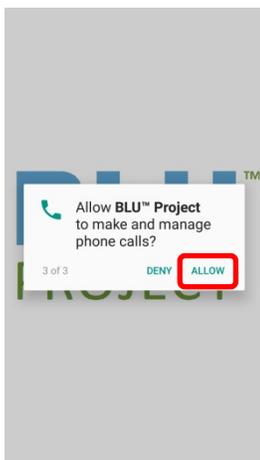
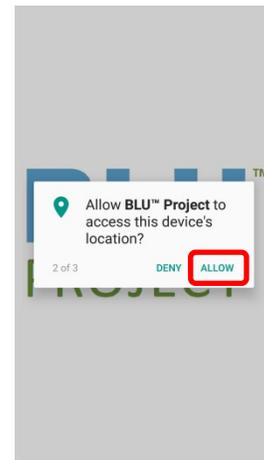
At this point you may touch “open” to start the APP.

The introductory page will show the **BLU PROJECT™** icon (right).

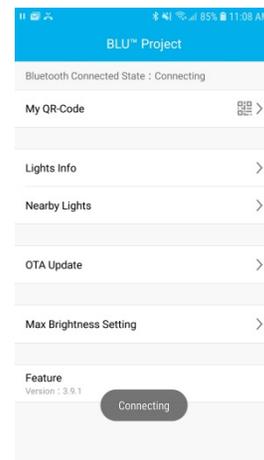


This will be followed by 3 pages of requests for access. In order to use the APP you need to touch “**ALLOW**” for all 3 pages.

NOTE: J2 Light does not collect user data for the purposes of sale or distribution, nor does it share user data.

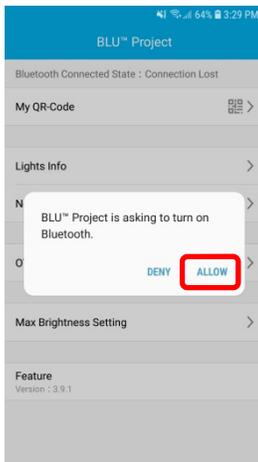


The last step is the opening page of the BLU PROJECT™ home page (right). At this point the APP will try to connect to the lights.

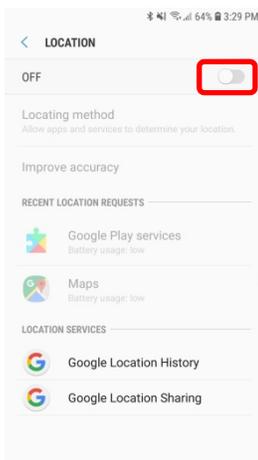
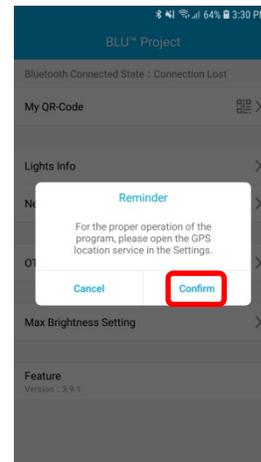


Communication

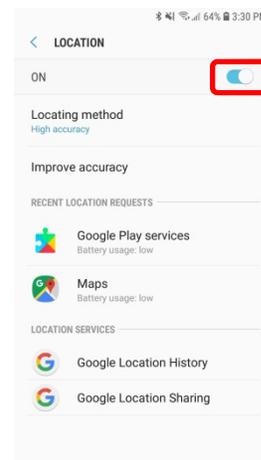
The **BLU PROJECT™** APP communicates with Lights and Switches through the smartphone's Bluetooth® signals and for the APP to work properly it requires that GPS be turned ON. If either of these functions are OFF the APP will alert you to enable.



If after opening **BLU PROJECT™** you see a popup that asks you to turn on Bluetooth (left), touch **“ALLOW”** and the APP will turn Bluetooth ON. If your GPS is OFF, you may also see a popup **“Reminder”** (right) to turn it ON for proper operation of the APP. Touch **“Confirm”** and you will be taken to the **“LOCATION”** page (below left).

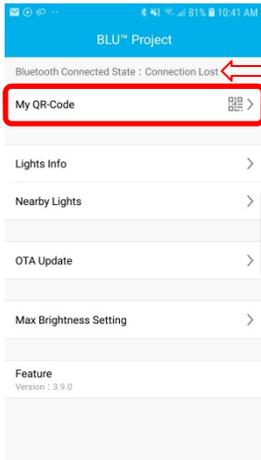


Touch the enable toggle to turn the GPS ON. After the GPS is enabled you may touch your smartphone's **“Back”** button to return to the **BLU PROJECT™** home page.



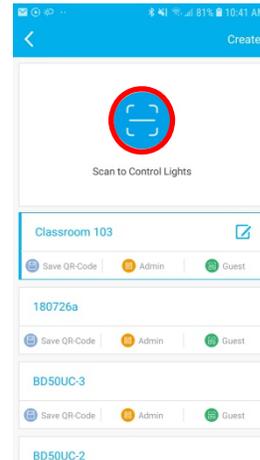
Navigating **BLU PROJECT™** > My QR-Code

The **BLU PROJECT™** menu is divided into six functions as seen in the home page graphic (below left).



My QR-Code is the first function bar on the home page (left). The **red arrow** (left) shows that **BLU PROJECT™** is not connected to any lights. To connect, touch the “My QR-Code” bar and the QR-Code page (right) will appear. You can connect in two ways:

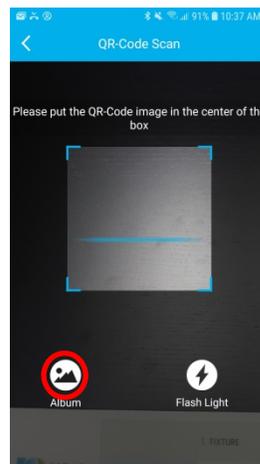
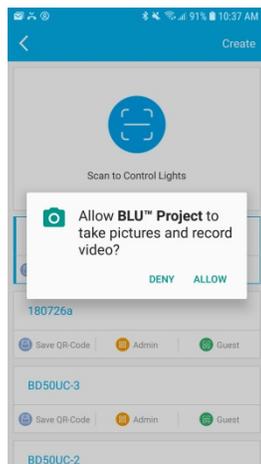
1. Touch the round “Scan to Control Lights” button (right).



A popup may appear (left) that asks you to allow the APP to take pictures and record video. You must touch “**ALLOW**” to proceed.

You will then see the “QR-Code Scan” page which uses your smartphone camera as a QR-Code Reader (right). At this point you will have a choice to either scan a “QR-Code” that appears on a screen (ie. Smartphone or computer monitor) or from printed paper.

2. Touch the “Album” button (right) to access your QR-Code folder. This is the same folder where SMART BLU™ stores your QR-Codes.

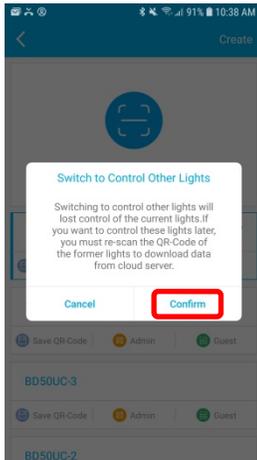


Your folder will provide all of the **orange** “Admin” and **green** “Guest” QR-Codes saved per Zone. You will notice a small checkbox on the top right corner of each QR-Code. Touch the checkbox of the **orange** “Admin” QR-Code you wish to program (ie. See Classroom 103 at left). You will see the checkbox turn green after touching (right).

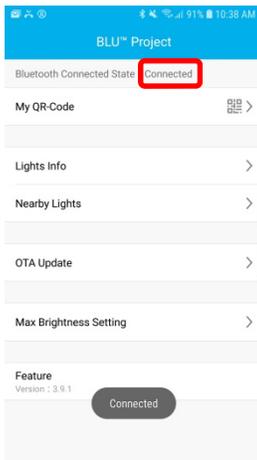
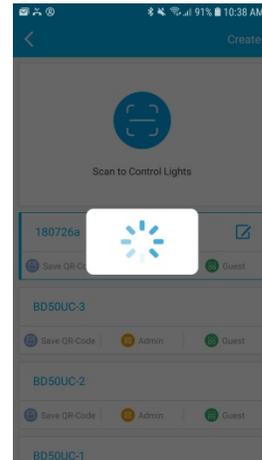
Touch “Confirm” (right) to continue.



Navigating **BLU PROJECT™** > My QR-Code Continued



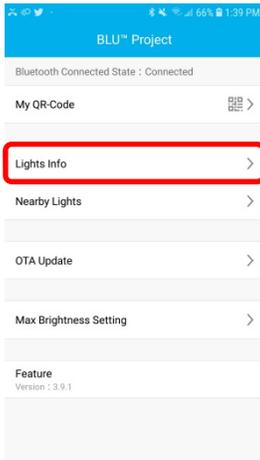
After scanning the zone QR-Code or choosing from a library, you will be presented with a popup (left) which asks you to confirm that you wish to take control of the Zone (QR-Code) you have chosen. Touch “**Confirm**” to continue (left) and you will see the processing wheel (right).



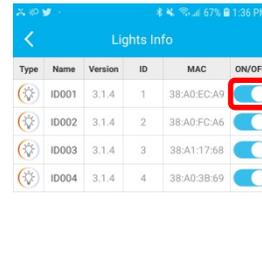
After processing is complete you will be brought back to the **BLU Project™** home page and you should notice that you are now “**Connected**” (left) to the Zone (QR-Code) you have chosen.

You may now move to the other functions within **BLU Project™**.

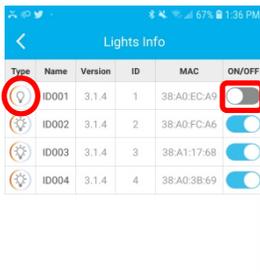
Navigating **BLU PROJECT™** > Lights Info



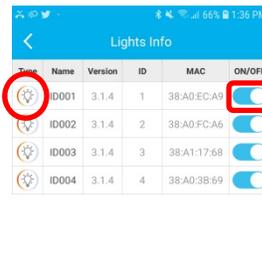
Lights Info is the second function bar on the home page (left). Touch the “Lights Info” bar and the “Lights Info” page (right) will appear. You will see a listing of all of the Lights that are within the Zone you have chosen. The “Type”, “Name”, “Version”, “ID”, & “MAC Address” (right) are displayed only for information purposes.



Touching the “ON/OFF” toggle (right) will turn the associated Light ON & OFF physically within the Zone so that you may see where it is.

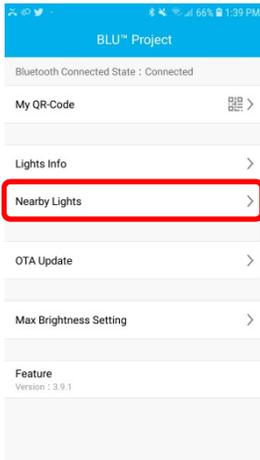


(Left) you can see that the “ON/OFF” toggle has changed state as well as the associated lightbulb icon representing the OFF state. In the physical space, this light will be OFF. Touching the “ON/OFF” toggle again will turn the light ON (right).

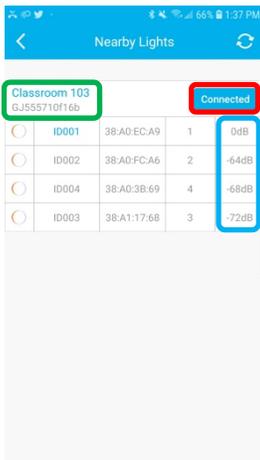
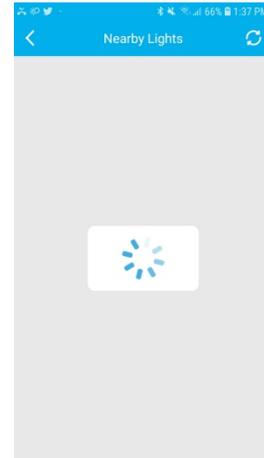


***** The information provided on the “Lights Info” page may be required to assist in commissioning or troubleshooting.**

Navigating **BLU PROJECT™** > Nearby Lights



Nearby Lights is the third function bar on the home page (left). Touch the “Nearby Lights” bar and the processing wheel (right) will appear.

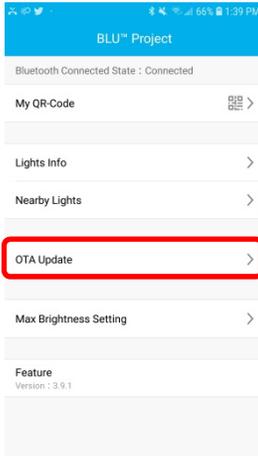


After the search is complete you will see the “Nearby Lights” page which is similar to the “Lights Info” page except that it also displays the name of the Zone you are in with associated ID (left **green** rectangle), your “Connection” status (left **red** rectangle), and RSSI “received signal strength indicator” in decibels per light (left **blue** rectangle).

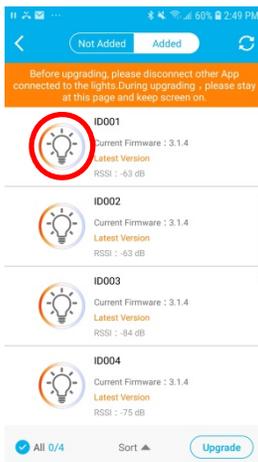
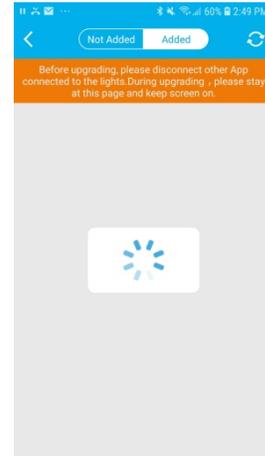
***** The information provided on the “Lights Info” page may be required to assist in commissioning or troubleshooting.**

Navigating **BLU PROJECT™** > **OTA Update**

OTA means “Over The Air”. This is a “future-proof” function that allows you to update the firmware of your light controllers via Bluetooth. This may be necessary if a feature is added or a change is made in the future that will improve your system. You may be contacted by J2 Light for this purpose or you may check the website for updates and whether they apply.



OTA Update is the fourth function bar on the home page (left). Touch the “OTA Update” bar and the processing wheel (right) will appear.

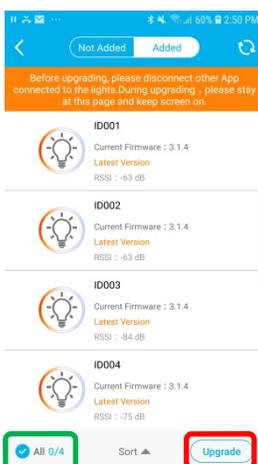


After processing is complete you will see the firmware status page which lists all of the lights in the Zone you have connected to. Each light will have a status icon that looks like a lightbulb (left red circle). “ID”, “Current Firmware”, “Version” status, and “RSSI” (Received Signal Strength Indicator) are provided per light.



You can touch the lightbulb icon to toggle lights OFF and ON to help identify them in the physical space.

In the **dark orange** bar you will notice a warning that says *“Before upgrading, please disconnect other App connected to the lights. During upgrading, please stay at this page and keep screen on.”*

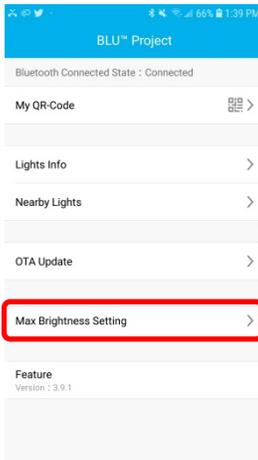


Plug your smartphone into a power source prior to performing an “OTA Update”. To execute an “OTA Update” takes up to a minute per fixture. Schedule time accordingly as the process takes time.

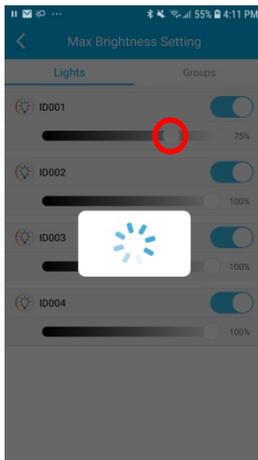
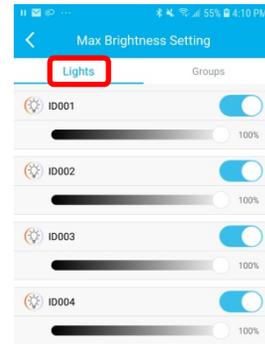
Touch the “All” checkbox (left green rectangle) found at the bottom left corner of the page and then touch “Upgrade” (left red rectangle) to initiate. The APP will then update each light in sequence. It is important that you do not interrupt the APP while it is in the process of updating.

Navigating **BLU PROJECT™** > **Max Brightness Setting**

“Max Brightness Setting” is also known as “Top Trim”. This function allows the owner to set an artificial top brightness. During commissioning it may be found that the lights in any given area may be providing more brightness than is necessary. “Max Brightness Setting” may be used to dim the lights down from their 100% capacity to any level below. For example, the 75% level may be found to be satisfactory. After adjusting to 75% with the “Max Brightness Setting”, this becomes the new artificial 100% level that is opaque to users within the space.

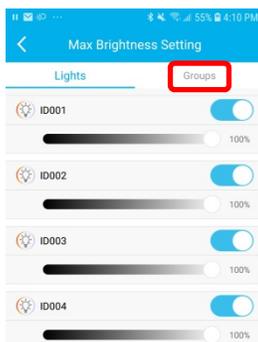
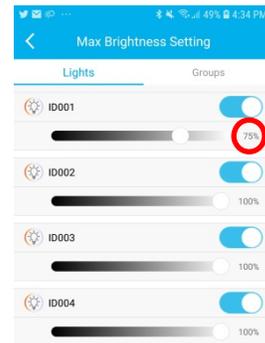


Max Brightness Setting is the fifth function bar on the home page (left). Touching the “Max Brightness Setting” bar will take you to the “Max Brightness Setting” page (right). On this page you will see two tabs, “Lights” and “Groups”. Also you will see a listing of all the lights in the Zone with an “ID”. The current “Brightness” is displayed by a horizontal slider with percentage display. An ON/OFF toggle is provided per light.



On the “Lights” tab you may choose to set a “Max Brightness Setting” per individual light by touching and dragging the horizontal slider button. As you slide to the left, the light will dim and the percentage will tell you by how much.

As an example (left), light “ID001” has been adjusted to 75%. This initiates the processing wheel. After completion the artificial top brightness level is adjusted to 75% (right). This will now appear in **SMART BLU™** as 100%.

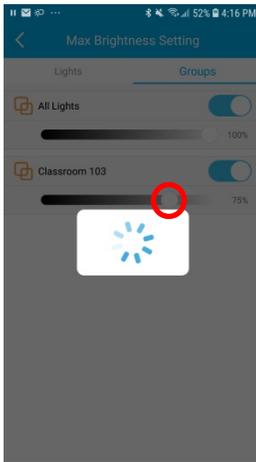


By touching the “Groups” tab (left) you may adjust a complete Zone or Group of lights at the same time. The “Groups” tab (right) displays the “All Lights” (Zone) and the “Classroom 103” (Group).

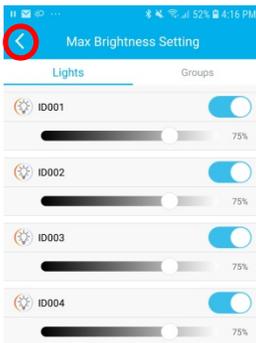
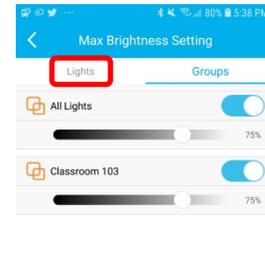


Navigating **BLU PROJECT™** > Max Brightness Setting

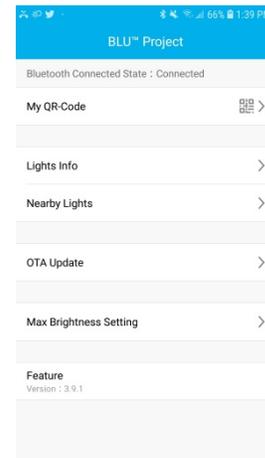
Continued



Adjusting the “Brightness” slider button (left) for a “Group” is similar to adjusting for an individual light as discussed on the previous page. The processing wheel appears while data is sent to the physical light controllers. Once data has successfully transferred, the “Max Brightness Setting” page displays the new level (75% at right) for the Group. If you then choose the “Lights” tab, you will see the settings applied to each individual light (below left).



After you are done, touch the “<” at top left of the page (left) to return to the **BLU Project™** home page (right). When you exit **BLU Project™** the “Max Brightness Setting” will be viewed as 100% in the **SMART BLU™ APP**.



Navigating **BLU PROJECT™** > Feature

The “Feature” information bar provides the Version of the **BLU Project™** APP that you have downloaded.

