



# BLE Lighting Control System Integration Manual



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#### Leading through light innovation. **SAMIN**

#### 1. BLE Product Family AP Assignment and Deployment Guide

Lights assigned to the AP (Access Point) communicate directly with the smartphone / tablet and control the lights within a 32ft radius from the AP-designated lights.

- To use a Bluetooth fixture, you need one or more AP-specified fixtures.
- All Bluetooth fixtures can be designated as APs, and APs can be extended beyond other APs.
- A maximum of 10 APs is recommended.

#### 1. How to Assign a Fixture as an AP (Access Point)

AP ON / OFF: Press the button once to set AP designation (will light up with daylight 2700K).

- Press again to release AP designation (will light up with white 5000K).
- AP designation is cleared when the fixture is shipped from the factory.

AP Reset: Press and hold the button for 3 seconds (lights up to white 5000K and blinks 3 times).

- Note: Resetting will clear the settings of all lights when the control password is lost and it is no longer possible to control the lighting.
- You must reset to initialize all the relevant lights.
- The AP-designated light will maintain its AP designation unless reset.



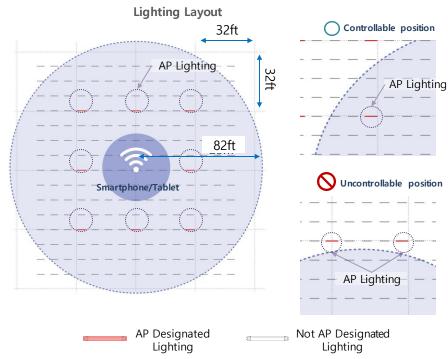
#### 2. Lighting Layout and Communication Range

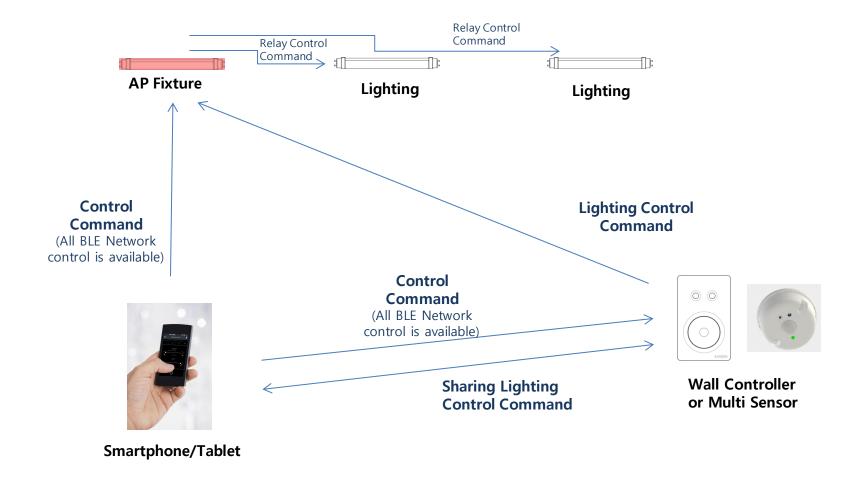
- The effective communication range between fixtures is within 32ft.
- Walls and similar obstructions may interfere and lower the effective communication range.
- Be aware of this when installing fixtures as to avoid communication errors.



#### 3. AP Control Layout and Communication Range

- The effective range of smartphone / tablet wireless control is within 82ft of th e designated AP.
- Walls and similar obstructions may interfere and lower the effective communic ation range.
- Be aware of this when installing fixtures as to avoid communication errors.





A BLE network is a communications master: a tablet or smartphone that controls the network and registered nodes (lights, wall controllers and multi sensors).

- When the wall controller is registered by the tablet / smartphone, it can control all lights included in the same group.
- The AP light receives the control command through BLE wireless communication, then transmits it to the other nodes.



BREEZE is a Bluetooth-enabled smart lighting control app designed by SAMJIN LED.

Color Tuning and Dimming

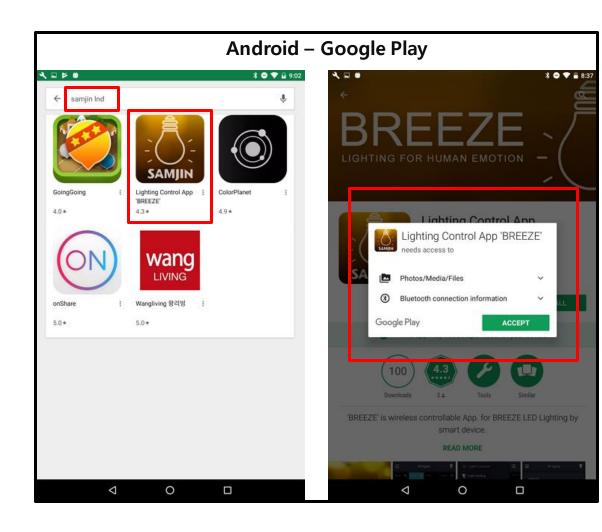
Easy Automation

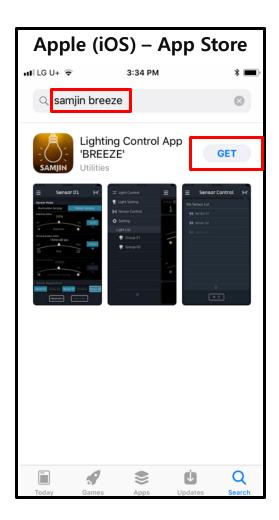
Available for Android and Apple Devices

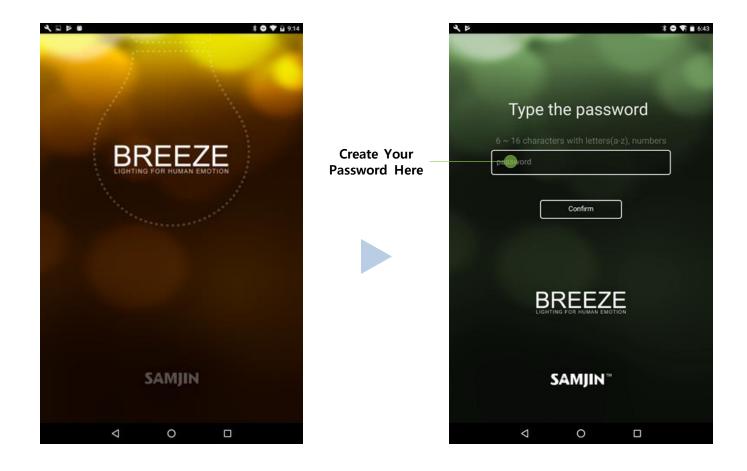


Download the BREEZE app from the App Store (Apple devices) or Google Play (Android devices). Search for "Samjin BREEZE".

- Apple: iPhone 5 or higher / iOS 7 or higher.
- Android: OS 4.4.4 KitKat or higher. The recommended device for Android is Samsung Galaxy Tab A 7.0 (2016).
- If prompted, please allow photo / video / file access and Bluetooth usage authorization during installation (required privil eges for proper app function).

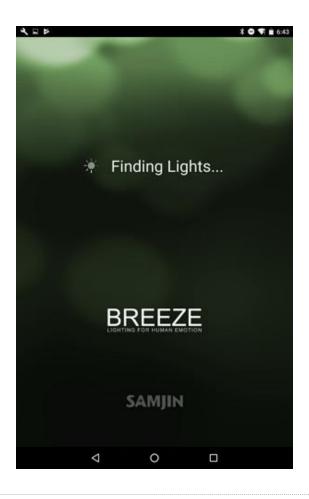


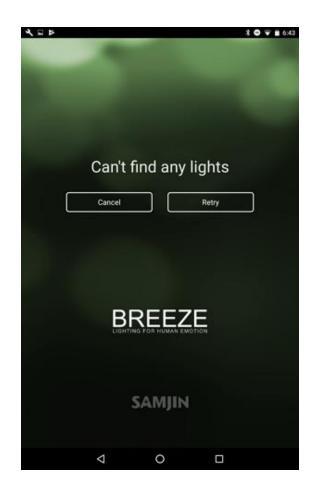




Password Registration: Create your 6 ~ 16 character alphanumeric password when you first open the Breeze app.

- Your password is the **unique identification number** of the Bluetooth network between your Breeze app and lighting fixtures.
- If you forget your password, enter your e-mail address in the "Settings -> Send Password" menu to have it sent to you.

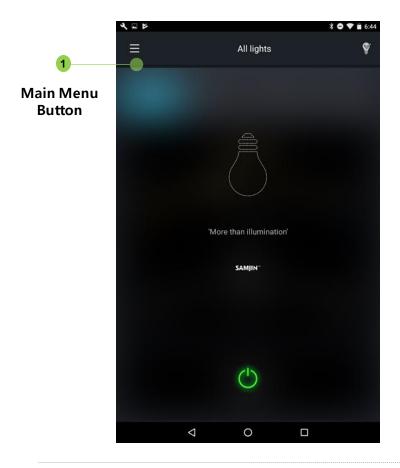


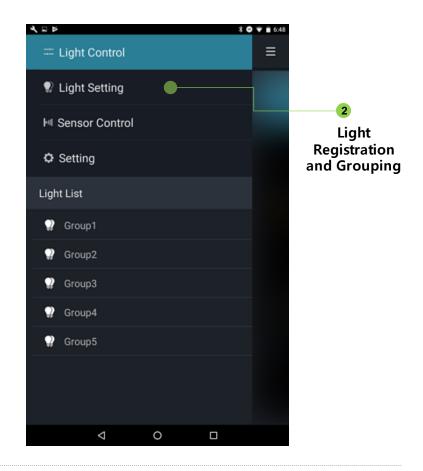


- Search for designated AP (Access Point) lights to establish communication.
- If the search fails, check the power of the lights and press "Retry".



# 8. 1. Light Setting





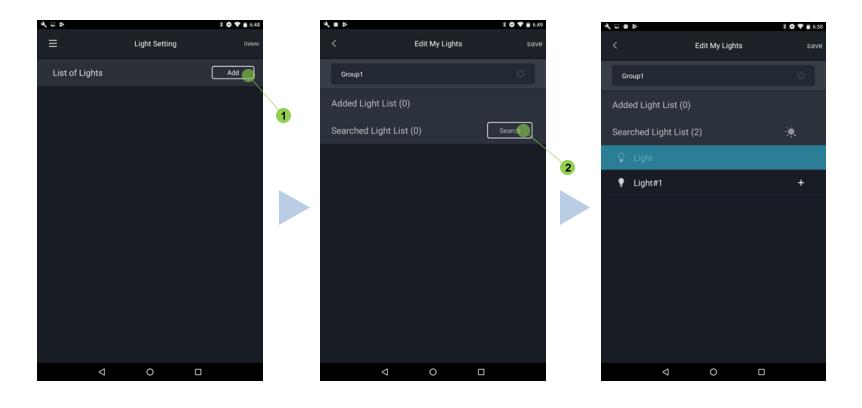
- To begin registering your lights, press the Main Menu button 1
- Then press "Light Setting" 2 to search for and register your lights.



## 8. 1. Light Setting – Add and Search for Lights

**X** Limit the number of lights registered at one time to 50 or less.

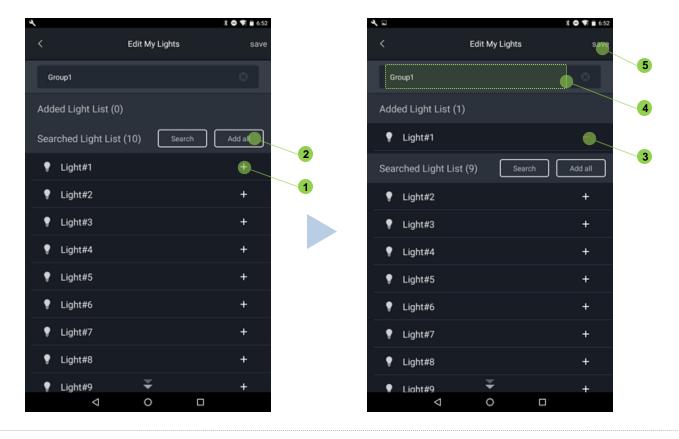
Ex: When registering 1000 units, register 50 units 20 times.



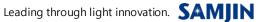
- Click "Add" 1.
- On the next menu, click "Search" 2 to start searching for your lights.
- Lights enrolled into the Bluetooth network will blink to let you know the light has been found.



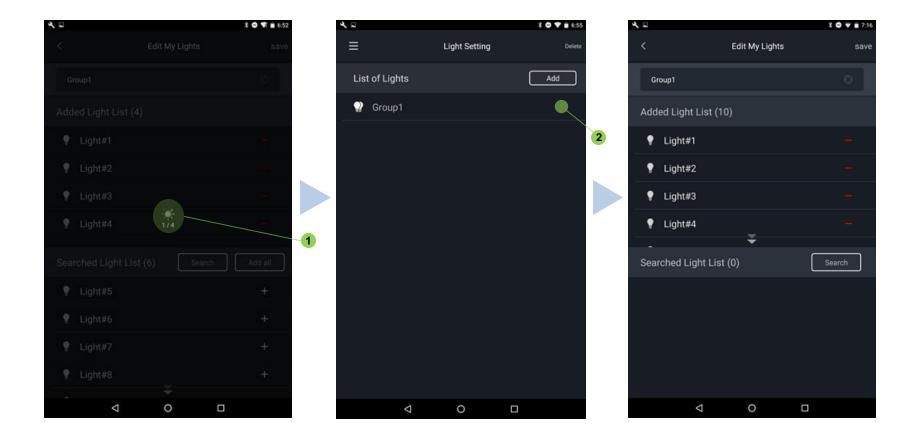
# 8. 1. Light Setting – Register Lights and Grouping



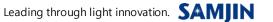
- When the search is complete, you will see a "+" button 1 that allows you to register the light to the group.
- Pressing the "Add All" 2 button allows you to include all the searched lights in the group.
- If you want to exclude a light from the group list, press the "-" button 3
- You can customize the group name by pressing 4
- Press "Save" **5** to save the current group.



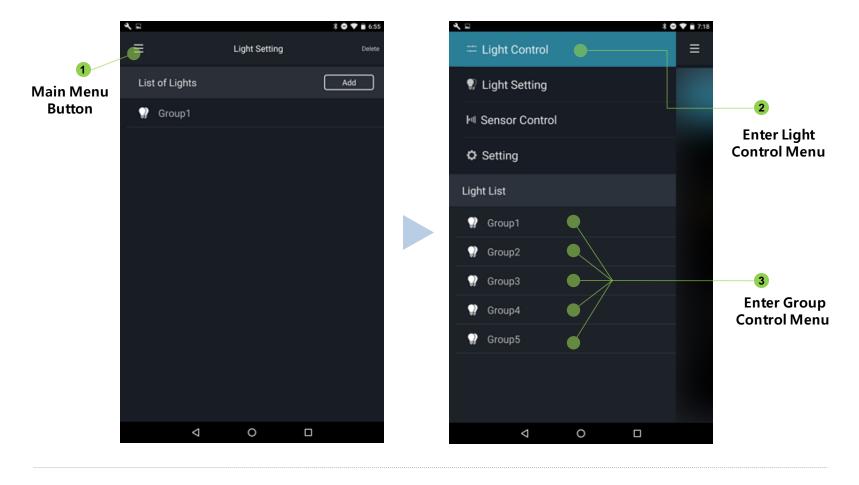
# 8. 1. Light Setting – Grouping



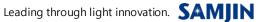
- After saving, see that your lights have been added to the group 1
- When the group setup is complete, press 2 to confirm that your lights are registered in the group.
- If the Breeze app did not receive a response from the light fixture, it will not be included in the group. If the light is not included the group, open the group and press "Search" again, following the same process.



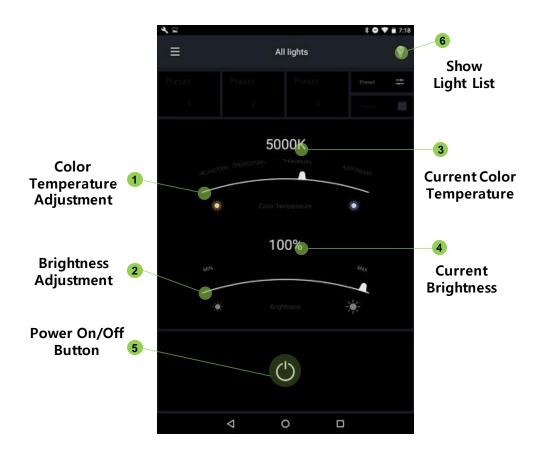
## 8. 2. Light Control – How to Enter Light Control Menu



- You can adjust the color temperature and brightness of the light by pressing the Menu button 1, then pressing "Light Control" 2 at the top left corner of the app.
- Group-specific light control **3** can also be accessed from the Main Menu.



## 8. 2. Light Control – All Light Control and Group Control

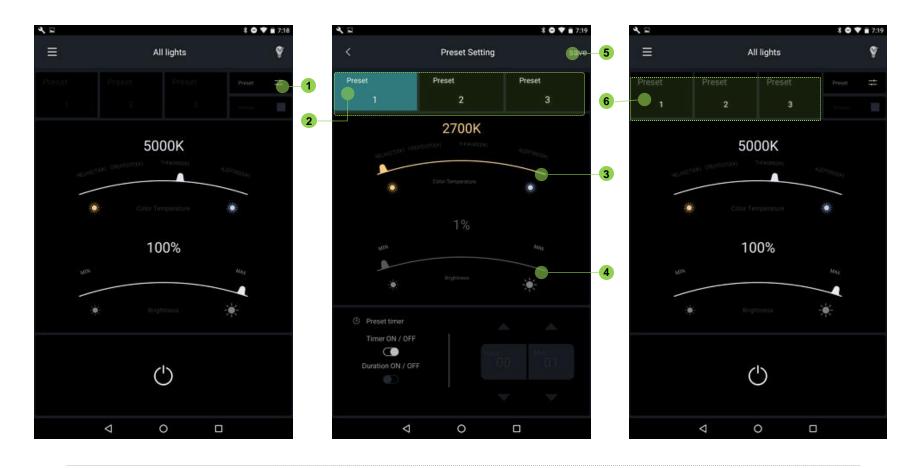




- "All Lights" control mode controls all currently registered lights of all groups.
- If you adjust the 1 or 2 sliders, the current color temperature and brightness will change as indicated in 3 and 4
- The Power button **5** is for turning your lights on or off.
- If you press the top-right button 6, you will see the list of all your light groups as shown on the right.



## 8. 2. Light Control – Preset Settings



- Press the "Preset" button 1 in the Light Control menu to enter the Preset Setting menu where you can customize and save settings for color temperature and brightness, as well as timers and duration.
- If you touch the preset you want to set 2, a keyboard input window will allow you to input your desired preset name.
- After adjusting, press "Save" 5 to save the value and return to the Light Control menu.
- Now you may access, enable, and disable your presets on the Light Control Menu 6

The distance between the wall controller and nearest Access Point (AP) light must be < 32ft.

Fixtures designated as APs communicate directly with smartphone / tablet / wall controller and also communicate with other non-AP light fixtures within a 32ft radius.

Any BTCT model light can be designated as an AP, and the communication a rea can be expanded by designating more than one AP.

Maximum number of APs within a single zone is 10.





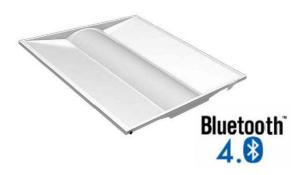
No	Controller	Mode	Function	Instructions
1 2	Preset 1 Preset 2	Preset	Memory Preset	<ul> <li>Press Button: Revert to preset CCT &amp; dimming level</li> <li>Factory defaults are (1) 3000K, (2) 5000K with 100% brightness.</li> <li>Press Button for 2 Seconds: Memorize current setting</li> </ul>
3	On/Off	On/Off	Lighting	Press Dial for 3 Seconds: Turn off lights.
		Mode Switch (Dim / CCT)		<b>Press Dial:</b> Switch between CCT and dimming adjustment modes
4	Dial	Dimming 0~100% CCT 2700K~6500K		<ul> <li>Turn Dial Clockwise:</li> <li>Dimming Mode: Increase Brightness (1% →100%)</li> <li>CCT Mode: → Cool (toward 6500K)</li> <li>Turn Dial Counterclockwise:</li> <li>Dimming Mode: Decrease Brightness (100% →1%)</li> <li>CCT Mode: → Warm (toward 2700K)</li> </ul>
1+3	Preset 1	Initialize	Initialization	Press 1 + 3 Together for 2 Seconds: Reset CCT to 3000K
2+3	Preset 2			Press 2 + 3 Together for 2 Seconds: Reset CCT to 5000K
1+2	Reset	Factory Reset	Reset	Press 1 + 2 Together for 2 Seconds: Reset to factory defaults.



**BT22-025BTCTSUS-56** 2x2 | 24W



**BT24-034BTCTSUS-56** 2x4 | 34W



BRK22-025BTCTSUS-56 2x2 | 25W | Retrofit Kit



BRK24-034BTCTSUS-56 2x4 | 34W | Retrofit Kit

Spec Sheets and IES Files at www.ControlledLighting.net

# **SAMJIN**

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For any assistance in the commissioning of the product, contact Controlled Lighting Corp.

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