



# COMMISSIONING GUIDE

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## INTRODUCTION

SLG Sync is a commercial-grade, network lighting controls systems. Utilizing powerful bluetooth mesh technology to connect sensors, fixtures, controllers, wall switches, and our APP for the easiest wireless controls option on the market with the best support.

Luminaire level lighting control refers to a type of lighting control system where each individual light fixture is equipped with its own control device or integrated control system, allowing for independent control and management of each fixture. LLC luminaires can detect human movements, ambient light level, and automatically turn on/off or dim the lights to provide comfort, safety, and energy savings.



# SYSTEM CAPABILITIES

**1ST TIME DELAY (T1):** Lights will maintain WORKING LIGHT LEVEL during the T1 period (in minutes) each time they detect human motion.

**2ND TIME DELAY (T2):** After lights have not detected any movement during the time period set in T1, T2 (in minutes) will start.

The brightness of lights will be reduced to DIM LEVEL during the T2 period to remind users that the lights will soon turn off.

At the end of T2, lights will turn off

**DIM LEVEL:** Defines the brightness of lights during T2 period and set as a percentage (%) of WORKING LIGHT LEVEL

**LINKAGE LIGHT LEVEL:** If no movement is detected during T1, but other lights in the same group detect movement, and the linkage is turned on in this group, this light will dim to linkage light level. Linkage light level is calculated as a percentage of the WORKING LIGHT LEVEL. **Note: Linkage can override T2**

**WORKING LIGHT LEVEL:** Defines the light level when a light's sensor detects human movements. The WORKING LIGHT LEVEL of a light is automatically controlled by a photosensor (if it is equipped with one). The WORKING LIGHT LEVEL may change according to the level of ambient light.

**AUTO CALIBRATE:** It is suggested to use AUTO CALIBRATE to set the WORKING LIGHT LEVEL, which has a self-learning process to remove ambient light interference for more precise results.

**MANUAL SET:** A user may choose to manually set the WORKING LIGHT LEVEL. When making this setting, it is critical to exclude the ambient light by shielding the lights from sunlight or user can make this setting during nighttime.

## RECOMMENDED PARAMETER SETTINGS BY SPACE TYPE

| ZONES            | 1ST TIME DELAY (T1) | 2ND TIME DELAY (T2) | DIM LEVEL | LINKAGE LIGHT LEVEL | SCENES                         | WALL SWITCHES  |
|------------------|---------------------|---------------------|-----------|---------------------|--------------------------------|--|
| OPEN OFFICE AREA | 25 MIN              | 1 MIN               | 50%       | 50%                 | NO SCENE                       | BUTTON PROGRAMED TO ALL OFF FOR QUICKLY TURNING OFF LIGHTS WHEN LEAVING OFFICE |
| MEETING ROOM     | 25 MIN              | 1 MIN               | 80%       | 80%                 | CONFIGURE PPT / LECTURE SCENES | ASSOCIATE PPT / LECTURE SCENES TO SCENE BUTTON ON WALL SWITCH                  |
| CLASSROOM        | 30-40 MIN           | 5 MIN               | 80%       | 80%                 | CONFIGURE PPT / LECTURE SCENES | ASSOCIATE PPT / LECTURE SCENES TO SCENE BUTTON ON WALL SWITCH                  |
| STORAGE ROOM     | 10 MIN              | 1 MIN               | 80%       | 80%                 | NO SCENE                       | NO SWITCH  |
| CORRIDOR         | 10 MIN              | 1 MIN               | 50%       | 50%                 | NO SCENE                       | NO SWITCH  |

# CAPACITY LIMITS

|                        |   |
|------------------------|---|
| <b>LUMINAIRES</b>      | Up to 100 lights (nodes) per zone. Unlimited zones available with each zone having its own sharable QR code with commands and setting info assignable for administrative or user level. |
| <b>LUMINAIRE GROUP</b> | A light can be a member of up to 20 groups.   |
| <b>SCENE</b>           | Up to 32 scenes can be set to a light. Up to 127 scenes can be set to a zone.   |
| <b>SCHEDULE</b>        | Up to 32 schedules can be set to a zone.  |
| <b>SWITCH</b>          | Up to 32 switches can be set to a zone. Note: switches and lights are calculated separately. Adding switches to a zone does not affect the maximum number of lights.                    |

## RECOMMENDED PARAMETER SETTINGS BY SPACE TYPE

Control Intent Narrative and Sequences of Operations  
 Prior to purchasing and installing any NLC system, facility managers should define owner requirements and control system goals with a design document called the Control Intent Narrative (CIN) and Sequences of Operations (SOO). This will include facility and/or space purposes, operating schedules, applicable codes & standards, integration, project goals, and preferred vendors. The Control Intent Narrative and SOO may be somewhat vague at the beginning of the project and become fleshed out over time. Two industry standards that can assist in creating the Control Intent Narrative and SOO are:

- 1. ANSI/IES LP-6-20**, Lighting Control Systems: Properties, Selection, and Specification.
- 2. ANSI/IES LP-16-22**, Documenting Control Intent Narratives and Sequences of Operations

At a minimum, the Control Intent Narrative and SOO should contain:

- A floor plan and the functions of each zone
- Each light’s model number, quantity parameter, and position.
- Definition of Zones. It is recommended to divide a site into zones according to their lighting functions. Make sure each zone contains no more than 100 with no objects that may block the wireless signal transmission, such as concrete walls or large metal objects. The size of a zone should not outreach the limit of wireless coverage (ideally within a radius less than 150 feet and keeping zones to less than 9000 square feet)
- Group number, group name, scene number, scene name, and approximate scene design for each zone
- Switch type and number, as well as the function of the buttons for each zone.

# CAUTIONS

## 1. Do not use more than one mobile device during the commissioning process.

- Using multiple mobile devices may cause unexpected results such as data corruption, duplicate light addresses, etc.

## 2. Ensure commissioning data has been synchronized to the cloud before sharing QR code.

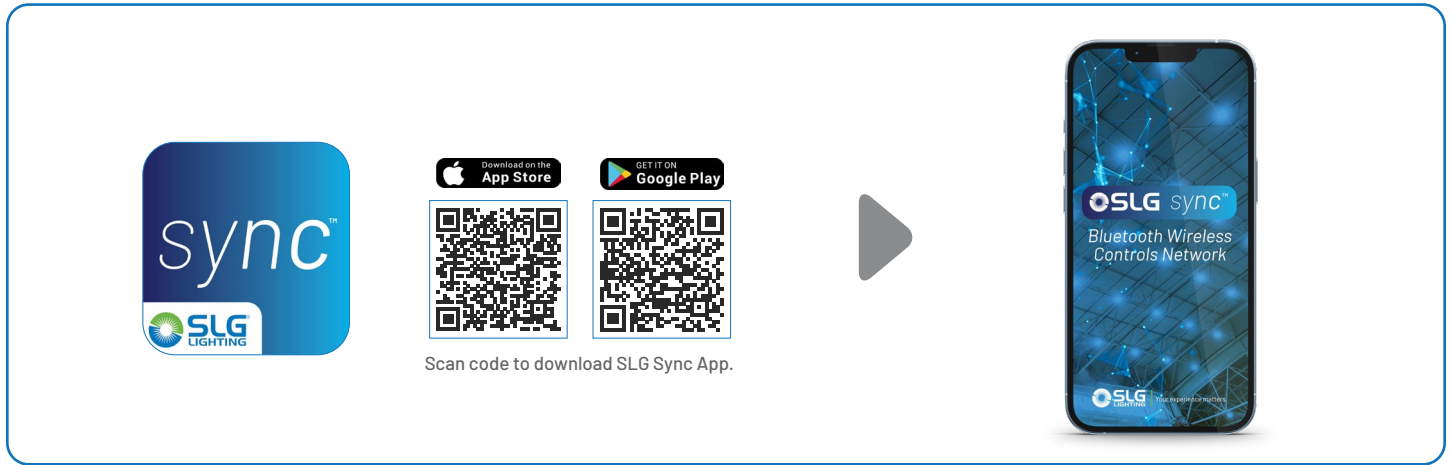
- Access rights to the zone can be shared to other users by sharing the QR code. Before sharing the QR code, please make sure the zone data has been uploaded to the cloud (requires internet connection). The APP will try to sync the data automatically in the background to the server (cloud) whenever an update has been made to the zone. You may also click 'Force Sync' on the 'More' page to sync manually.

**Note:** During the commissioning process, or whenever an update has been made to the zone, the APP will try to save and sync the commissioning data to the cloud. This requires an internet connection, either by WIFI or data connection.

- The mobile device must have a good internet connection during commissioning to save/update the commissioning data to the corresponding QR code. If the internet connection is functioning properly, the APP will sync the data to the cloud in the background. You may share the QR code to other users immediately after commissioning is completed.
- If the mobile device does not have a good internet connection during commissioning, the user will see an error prompt in the 'More' page but may continue the commissioning process. Please remember to 'Force Sync' the data to the cloud when the mobile device has a good internet connection. Do NOT share the QR code to others before you successfully sync the data.
- If the mobile device has a poor internet connection, the APP will attempt to sync commissioning data to the cloud, but each communication may take longer or may fail after a long delay due to the poor connection. In such conditions, it will be difficult to continue the commissioning process.

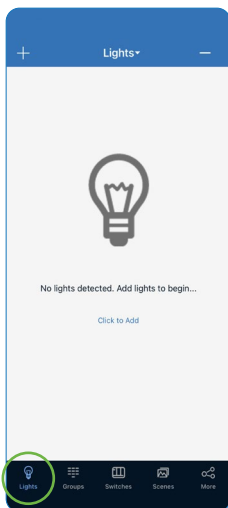
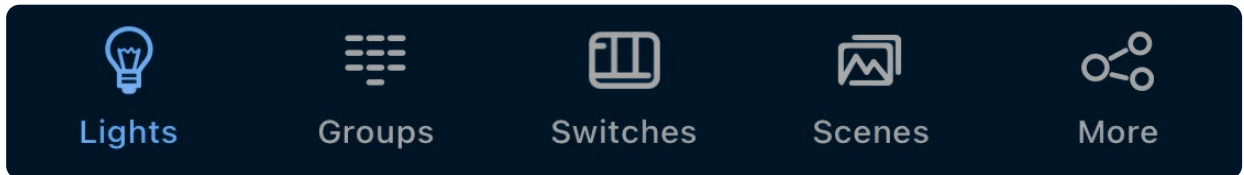
It is suggested to turn off WIFI (or put the phone in AIRPLANE MODE) and complete the commissioning process. At a time later when a good internet connection is available, the user can sync commissioning data to the cloud. DO NOT share the QR code to others before you successfully sync the data.

## DOWNLOAD THE APP

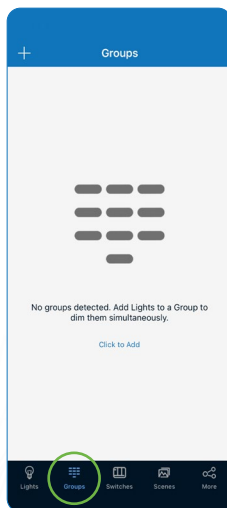


## APP NAVIGATION

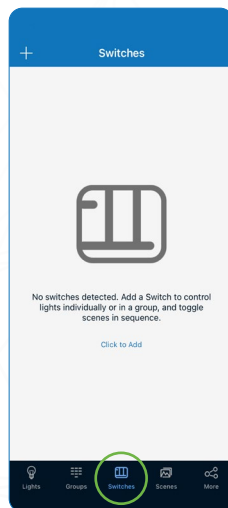
There are 5 tab pages at the bottom of the app that provide easy control of your lights:



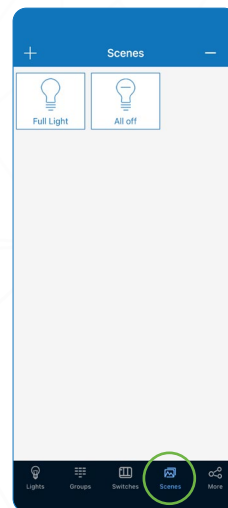
**Lights** shows all lights that are connected to the app. It allows the user to view and control individual lights.



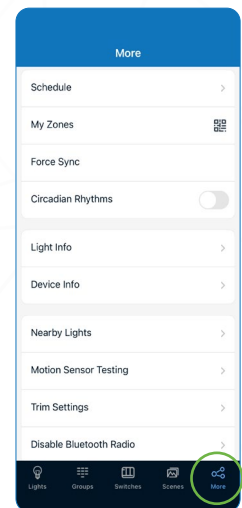
**Groups** allows user to create and manage groups.



**Switches** displays all switches that are connected to the app. It also allows the user to view/edit switch controls



**Scenes** create and manage scenes.















**More** allows the user to view Schedules, Zones, Light and Device Info, and other additional settings.

# APP NAVIGATION CONT.

## LIGHT ICONS

Lights added to the app will show on the Lights page. Reference icons below to check the status for each individual light.

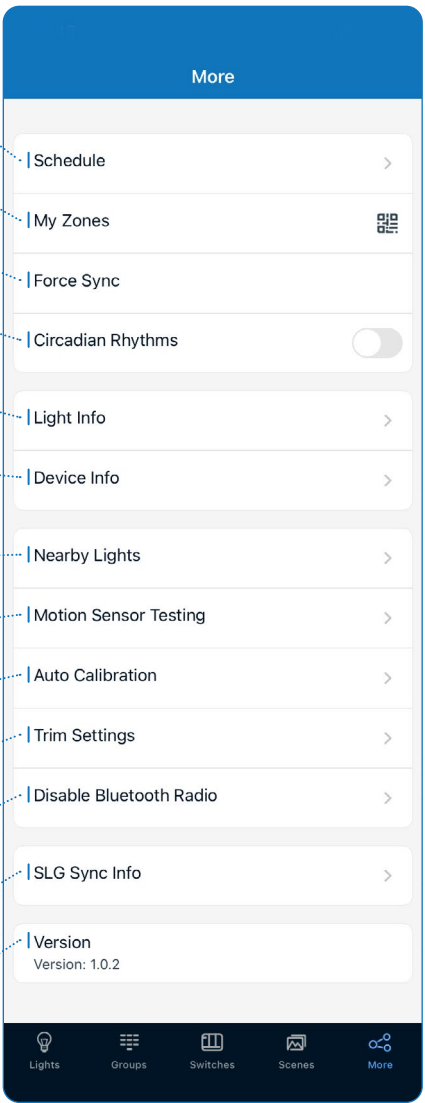
|                  |   |  |                 |
|------------------|---|--|-----------------|
| ALL LIGHTS ON    |    |    | ALL LIGHTS OFF  |
| DIMMABLE         |    |    | TUNABLE         |
| DIMMABLE AUTO    |  |  | TUNABLE AUTO    |
| DIMMABLE ON      |  |  | TUNABLE ON      |
| DIMMABLE OFF     |  |  | TUNABLE OFF     |
| DIMMABLE OFFLINE |  |  | TUNABLE OFFLINE |



# APP NAVIGATION CONT.

Refer to the complete [More Page](#) menu for additional settings and features of the app.

|   |   |  |  |  |   |  |  |   |   |   |   |   |
|---|---|--|--|--|---|--|--|---|---|---|---|---|
| <p><b>Schedule</b><br/>Set a schedule for individual lights, groups and/or scenes</p> | <p><b>My Zones</b><br/>Create, edit, and delete zones<br/>Generate and share QR codes</p> | <p><b>Force Sync</b><br/>Sync data and settings across devices</p> | <p><b>Circadian Rhythms</b><br/>Enable or disable circadian lighting</p> | <p><b>Light Info</b><br/>Check info on all connected lights, groups and scenes in a zone</p> | <p><b>Device Info</b><br/>Check info about external converters and sensors connected to app</p> | <p><b>Nearby Lights</b><br/>See a list of all online lights nearby</p> | <p><b>Motion Sensor Testing</b><br/>Test settings for motion sensors</p> | <p><b>Auto Calibration</b><br/>Auto calibrate brightness and temperature of lighting groups</p> | <p><b>Trim Settings</b><br/>Adjust trim settings of lighs or groups</p> | <p><b>Disable Bluetooth Radio</b><br/>Disable all bluetooth connections to the app for quick control transfer</p> | <p><b>SLG Sync Info</b><br/>SLG Sync products and update.</p> | <p><b>Version</b><br/>Current app version</p> |
|---|---|--|--|--|---|--|--|---|---|---|---|---|



(image is for illustration purpose only.)

# COMMISSIONING

Begin Here →

1

**Preparation Work:**

- a. Define the Control Intent Narrative and SOO
- b. Install lights and test power for each

2

**Setting Lights, Groups, and Scenes:**

- a. Create Zones and generate QR Codes
- b. Connect lights to the APP
- c. Group lights
- d. Create Scene settings
- e. Add switch controls
- f. Set switches, timers, and schedules

3

**Set Lights with Sensors:**

- a. Set sensor parameters
- b. Configure light linkage levels
- c. Set Auto Light levels

4

**Deliver Project:**

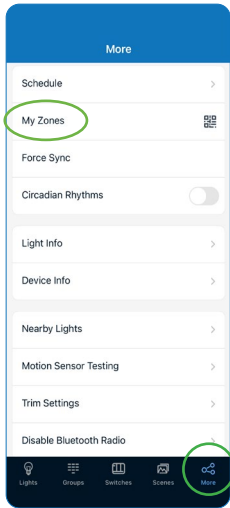
- a. Share QR codes

# ZONES

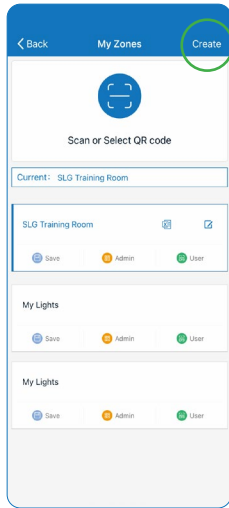
It is recommended to create QR codes for all zones and pre-define all groups, scenes, and their names prior to commissioning in order to reduce work on site. A QR code

represents a zone and all of the lights, switches, and other devices in that zone. For more information on scanning, creating, and sharing QR Codes, **see the QR Code chapter, on page 24.**

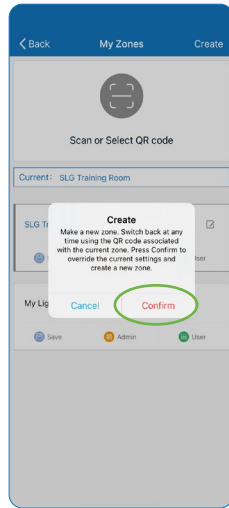
## CREATE ZONES



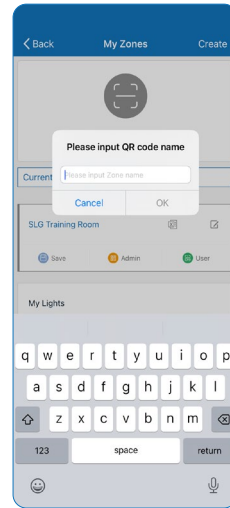
Select **My Zones** from the **More** page.



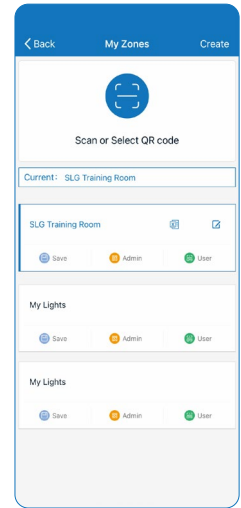
Click **Create** in the top right.



Click **Confirm** to continue.

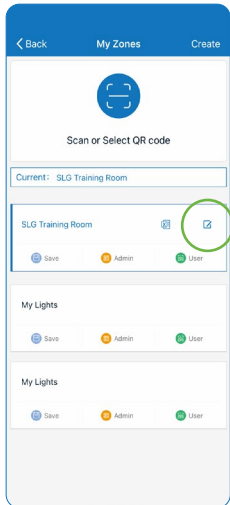


Input the name of the QR code and then click **OK**.

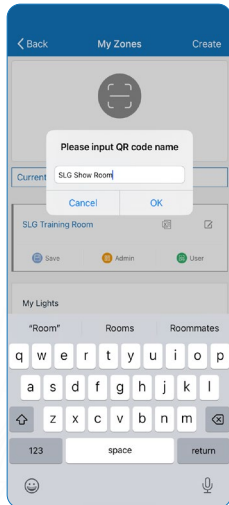


All zones can be found in the **My Zones** list.

## RENAME ZONES

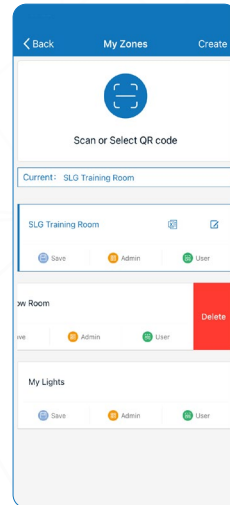


Press the **Edit Button** located to the right of the zone name from the **My Zone** screen.

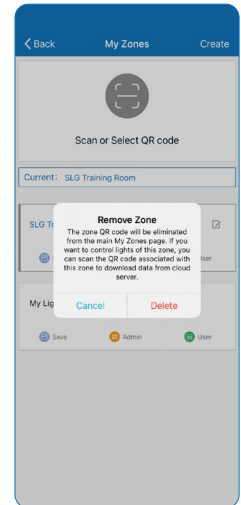


Enter preferred zone name as prompted. Press **OK** to save.

## DELETE ZONES



Select a zone and swipe finger from right to left to delete.



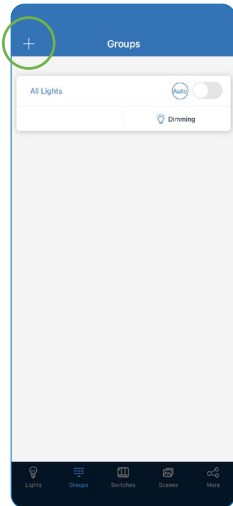
Press the **red delete button** that appears. Press **Delete** to confirm.

**Note:** User cannot delete the zone in which they are currently active

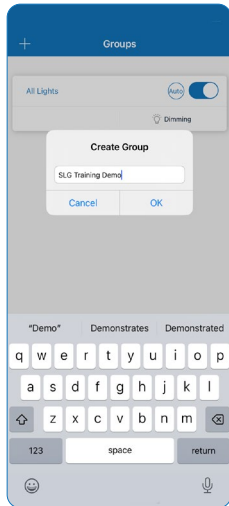
# GROUPS

Groups enable control of a defined set of lights, in a small area. The APP provides a default group named "All Lights" which gives the user control over all lights in the zone.

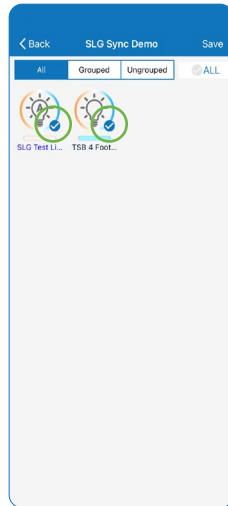
## CREATE A GROUP



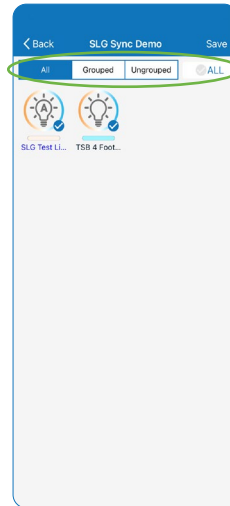
Click + in the top left corner from the Groups screen.



Type the group name and then press **OK**.



Select the lights that you want to add in the group by clicking the checkbox in the bottom right of the desired light icon.

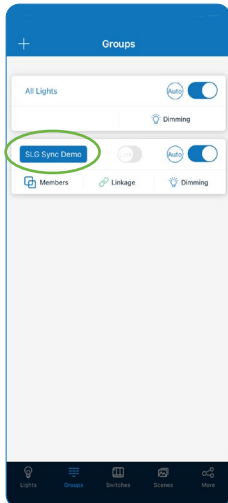


Use the **filter\*** at the top of the screen to help add proper lights to the group.

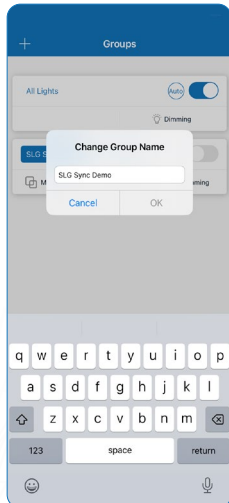
- \*All: All lights are shown
- \*Grouped: Only lights added to at least 1 group are shown
- \*Ungrouped: Only lights that have NOT been added to a group are shown

After all Lights have been selected, press **Save** to save the group.

## RENAME A GROUP

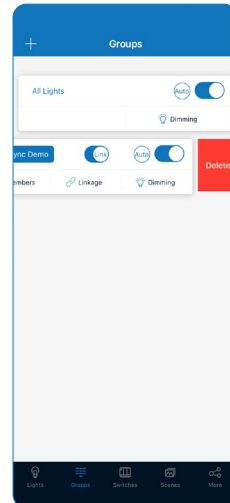


Select a group you wish to rename.

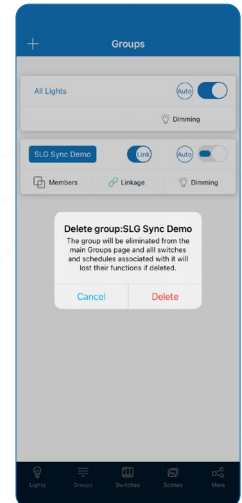


Enter new group name and click **OK**.

## DELETE A GROUP



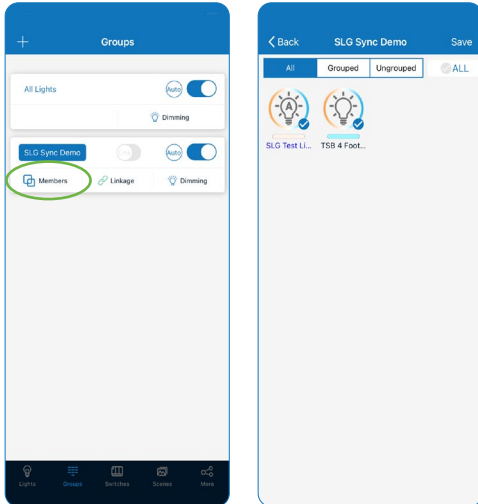
Select a group and swipe left from the right then click **Delete**.



Confirm by clicking **Delete**.

# GROUPS CONT.

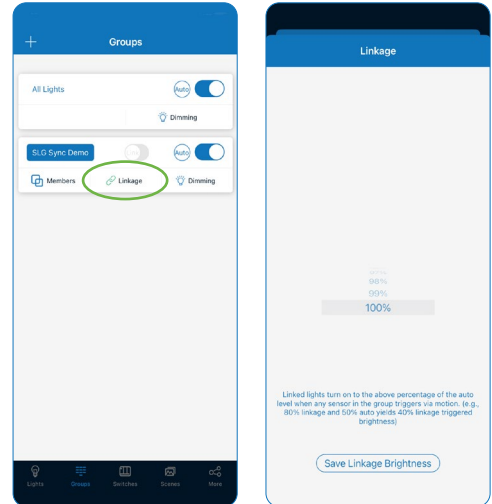
## ADD OR REMOVE LIGHTS IN A GROUP



Pick a group to add or remove light(s) from **Groups** screen. Then tap **Members** to see all current lights.

Select a light to add or remove. Then tap **Save** in the top right corner.

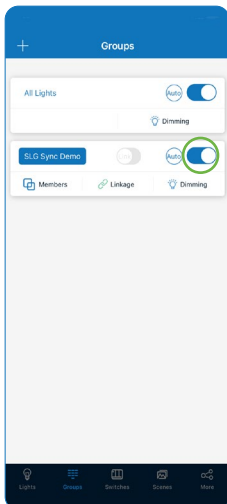
## ADJUST GROUP LINKAGE LEVEL



Pick a group to change linkage settings. Tap **Linkage** to access linkage controls.

Select a desired linkage level and press **Save Linkage Brightness**.

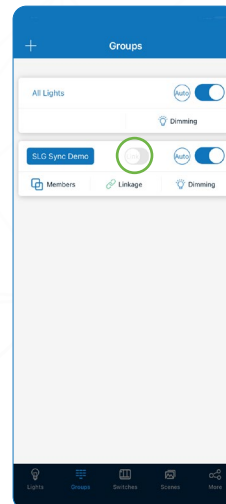
## TURN GROUP LIGHTS ON/OFF



Pick a group to turn on or off. Tap **ON/OFF Switch** in the upper right corner of the group.

**Note:** Clicking this toggle button will send ON/OFF commands to the group, however, it does not reflect the current ON/OFF status of the group.

## TURN ON/OFF GROUP LINKAGE

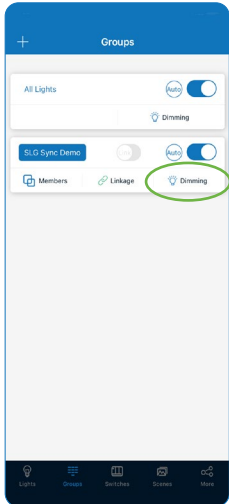


Pick a group to turn linkage on or off. Toggle the **Linkage Button** to turn linkage on or off.

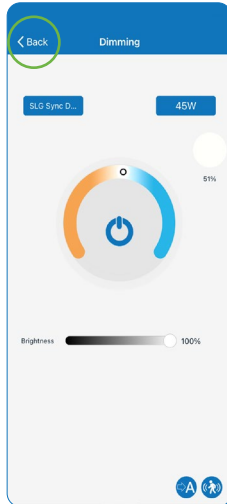
**Note:** For a light to respond to the 'Link' command from other lights in the same group, the 'Motion Sensor' function must be enabled for this light, even if the light does not have a motion sensor connected to it.

# GROUPS CONT.

## ADJUST GROUP DIMMING



Pick a group to change dimming settings. Tap **Dimming** to adjust.

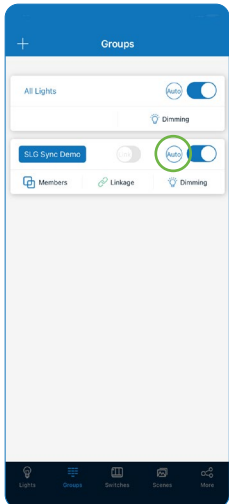


Adjust dimming settings as desired and press **Back** to save.

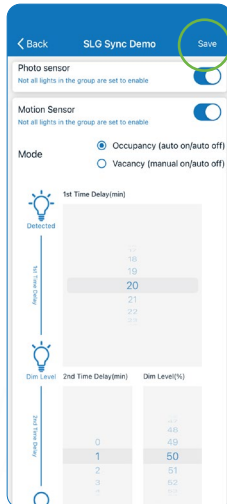
Note: The available dimming control on the dimming page depends on the light types in this group.

The light types in the group are shown on the bottom of the dimming page. The user can choose to dim certain type of lights in this group.

## ACTIVATE AUTO MODE



Pick a group to turn auto mode on or off the select **Auto Button**



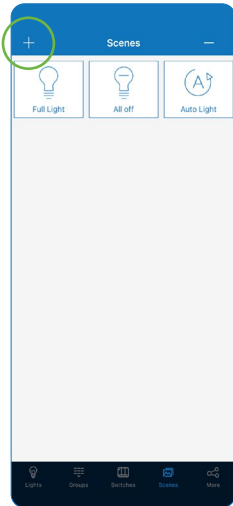
You may set sensor's parameter by clicking the sensor icon on the top right corner, if applicable, then click **Save**.

# SCENES

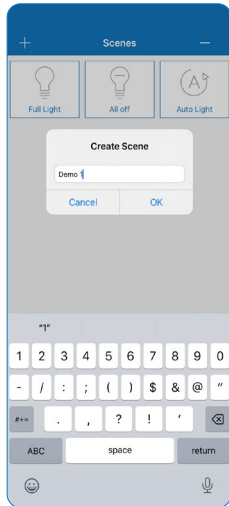
Scenes establish programmed settings for individual lights or groups of lights. The Scenes can be set manually by users. The APP also has three default Scenes defined:

All Off, Full Light, and Auto Light. Activating a scene will cause all members to adopt the settings to the selected scene. Users must add lights first, then the next step is sensor setting before creating groups and scenes.

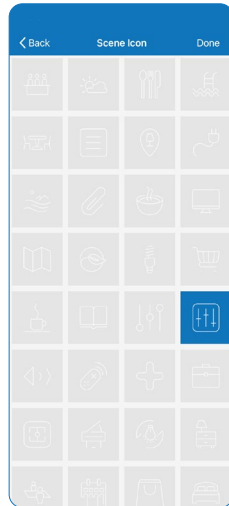
## CREATE A SCENE



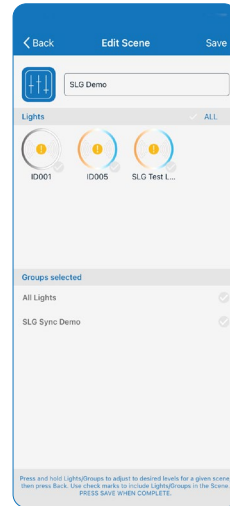
Select + button in the upper left corner from the **Scenes** screen.



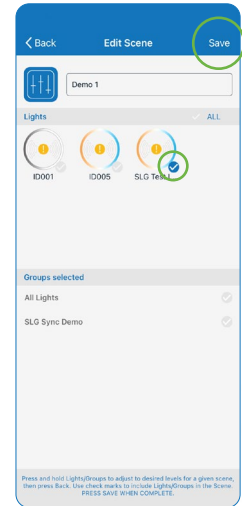
Give the scene a name and click **OK**.



Select a desired icon(s) setting.

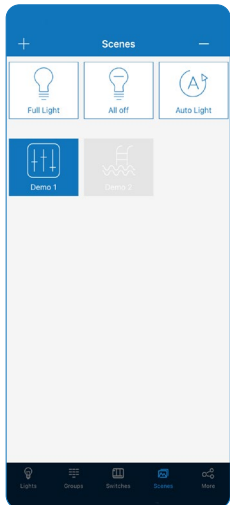


Select a light(s) or group(s) for the scene. **Press and hold** a light or group to dim them.

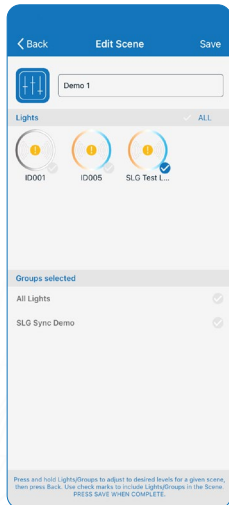


Click **Save** in the upper right corner.

## EDIT SCENE SETTINGS

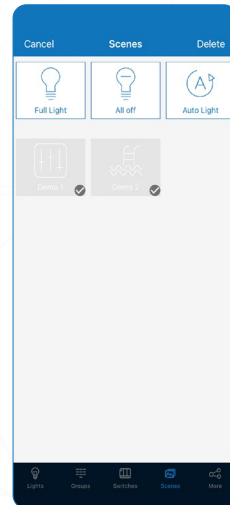


To edit or program the scene, **press and hold** a scene icon.

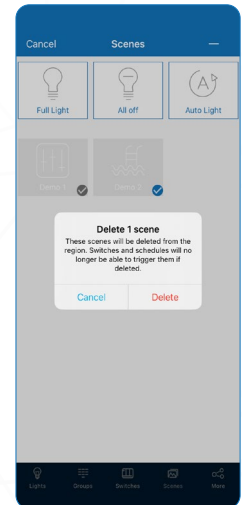


Press and hold light(s) or group(s) to edit settings then click **Save**.

## DELETE A SCENE



Select a scene to delete.



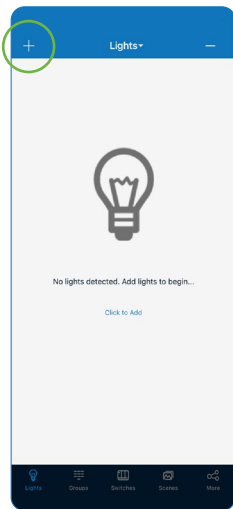
Press - button in the upper right corner then confirm by clicking **Delete**.

# LIGHTS

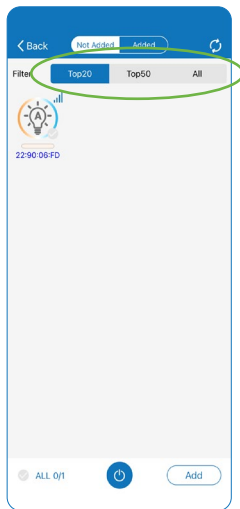
The Lights page is the first page you'll see upon opening the APP. It is the primary page for controlling individual lights. Add lights by zone, and do not turn on more than 100 lights

at the same time. To prevent wireless communication jamming, turn off lights that are not in the current zone.

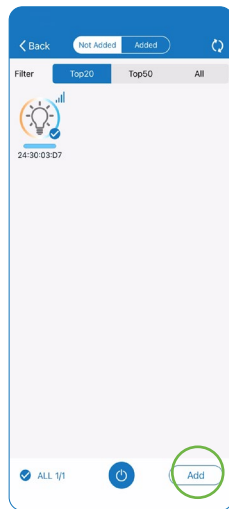
## ADD LIGHT(S)



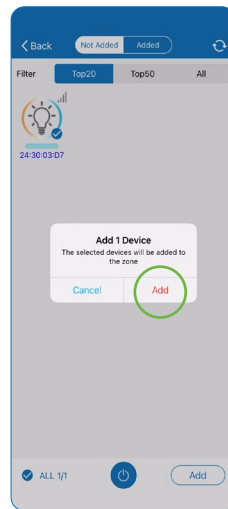
Click + button in the upper left corner from the Lights screen.



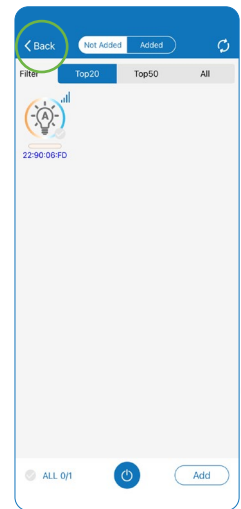
Select **Top20**, **Top50** or **All** from **Filter** at top of the screen for lights with strongest bluetooth signal.



Select the light(s) you want to add by pressing the **check mark** and click **Add**.



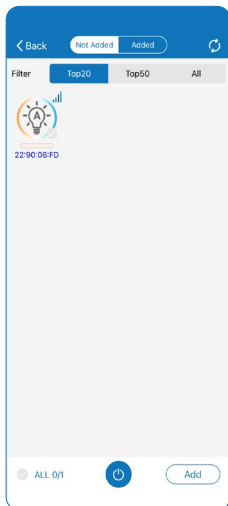
Confirm by clicking **Add** from pop up window.



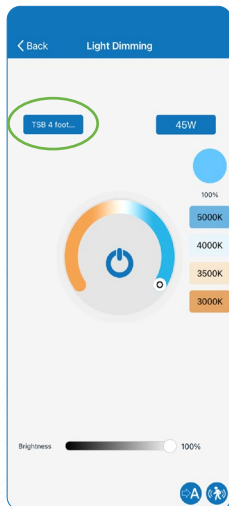
Click **Back** button to return.

Note: Commissioning performance may deteriorate if there are more than 150 factory-setting lights powered up at the same site. Please power off some factory-setting lights before continue.

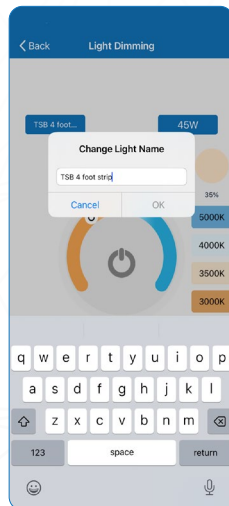
## NAME OR RENAME LIGHTS



Press and hold a light to access the **Dimming** page.



Click on current name in the upper left of the dimming slider.

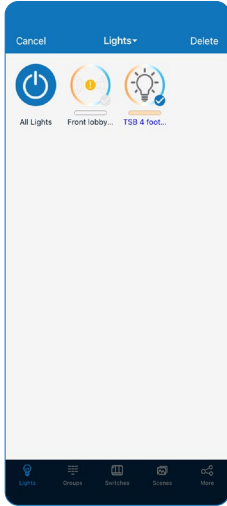


Enter new name and press **OK**.

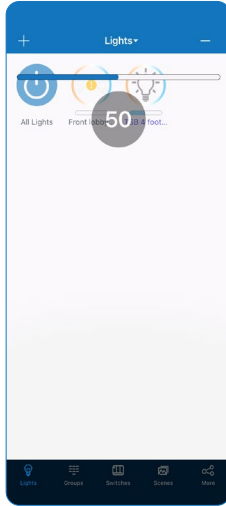


# LIGHTS CONT.

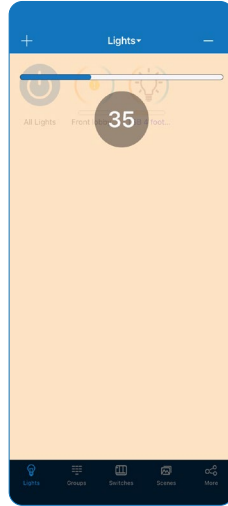
## QUICK DIMMING & COLOR TUNING



Tap a light's icon to turn on or off.

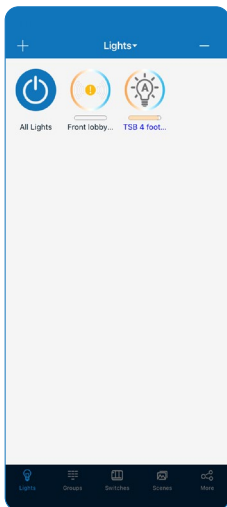


Lightly slide finger left or right on the icon to activate brightness slider.

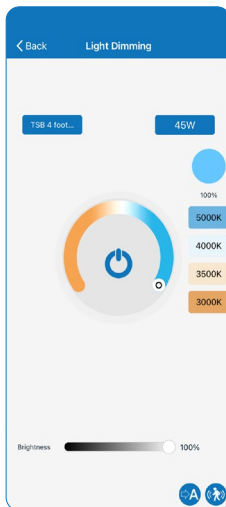


Lightly slide finger up or down on the icon to activate color temperature slider.

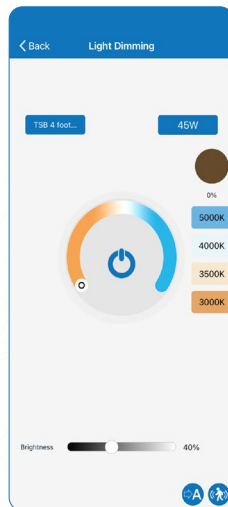
## DIMMING & TUNING SETTINGS



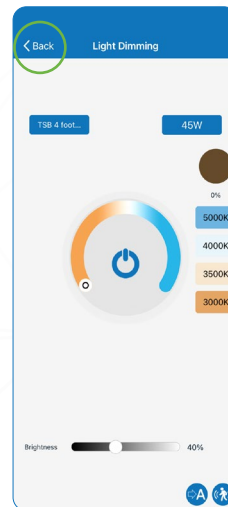
Press and hold on light icon to activate Dimming page.



Adjust a desired dimming setting.



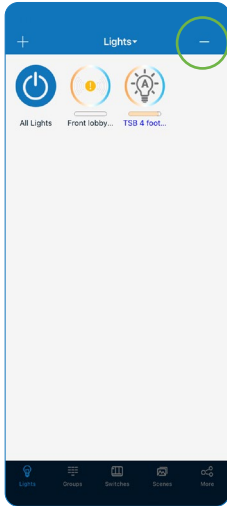
Adjust a desired tuning setting.



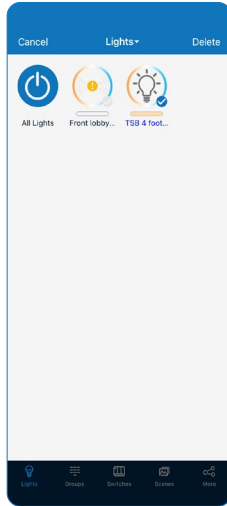
Click Back button to save.

# LIGHTS CONT.

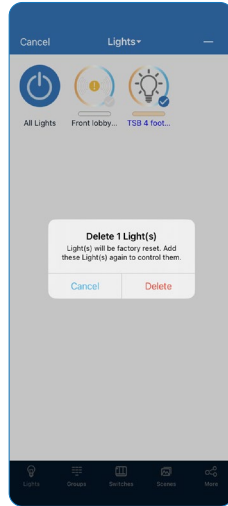
## DELETE LIGHT(S)



From the **Lights** page, click - button in the upper right corner

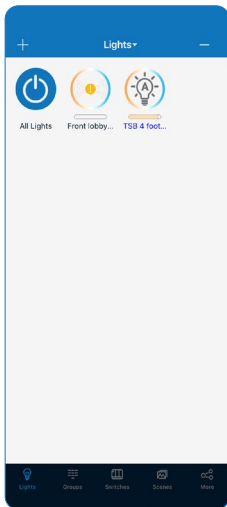


Select the light to delete to activate a check mark then click **Delete**.

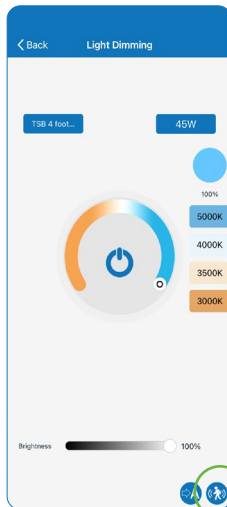


Confirm by clicking **Delete** again.

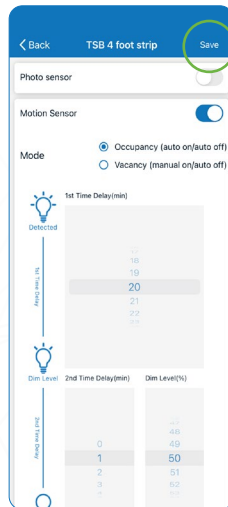
## SENSOR SETTINGS



Hold and press a light's icon from the **Lights** page.



Click **Sensor Settings** icon in the lower right corner.



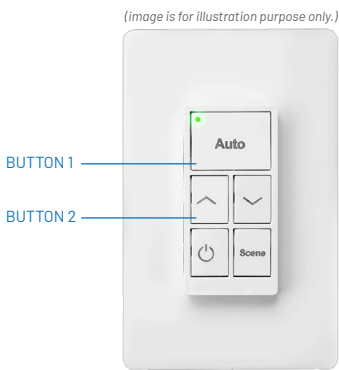
Enable or disable motion sensors and set desired levels then click **Save**.

# SWITCHES

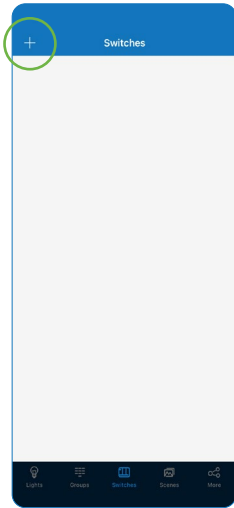
SLG SYNC smart switches can be added to the APP to control individual lights or groups. Depending on the type of switch, up to 3 scenes can be associated with a button. Switches will

automatically stop pairing after 30 seconds or when a button is pressed. Switches are added into the Zones in which they are located.

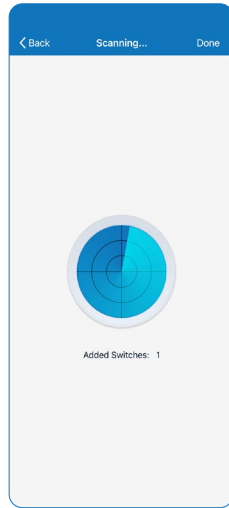
## ADD A SWITCH



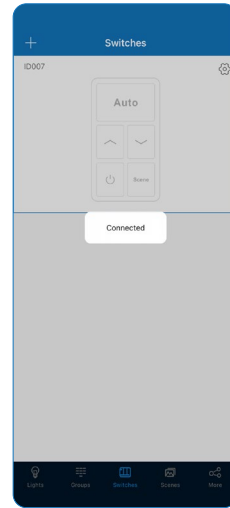
Before adding, activate switch's pairing mode by press and hold button 1 and 2 on switch for 2 seconds.



From **Switches** page, select + button in the upper left corner.

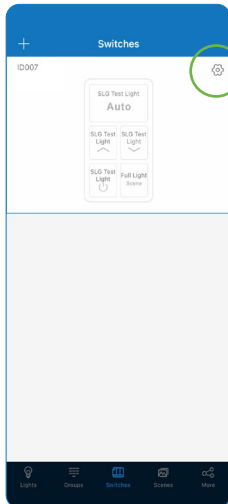


App will search for nearby switches.

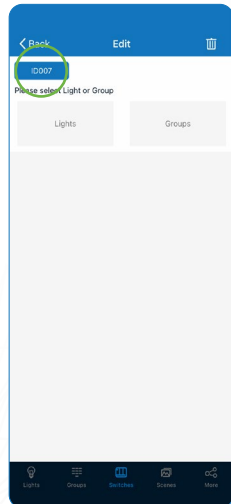


A confirmation will appear once the switch is connected.

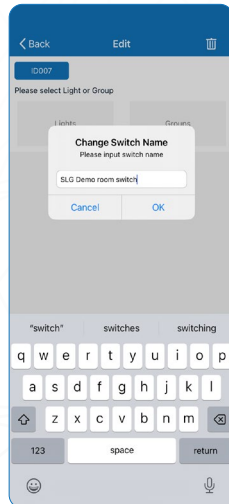
## RENAME A SWITCH



Select a switch from **Switches** page then press the **Settings Button** in the upper right corner.



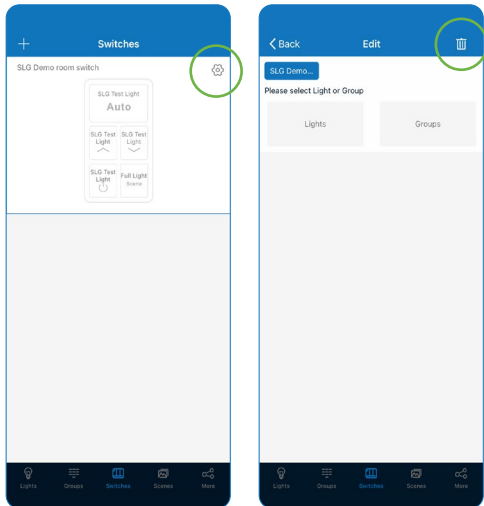
Click current switch name in the upper left.



Enter new name and click **OK**.

# SWITCHES CONT.

## DELETE A SWITCH

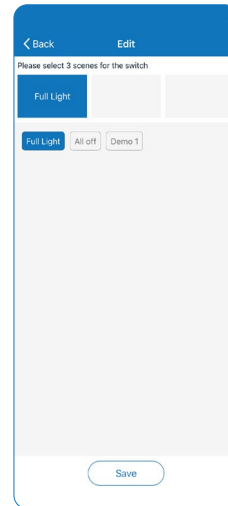


Pick a switch to delete from the **Switches** page then press the **Settings Button**.

Tap the **Trash** icon in the upper right corner then click **Delete** to confirm.

**Note:**  
**EDIT SWITCH SETTING -**  
 Button functions vary for different types of switches. For some switch models, buttons have pre-defined functions and can't be associated to scenes. Set the functions of the switches based on the type.

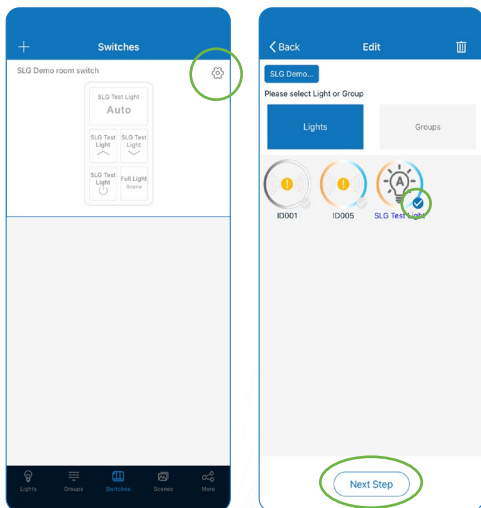
## ASSOCIATE SCENES TO SWITCHES



After associating one light or group to the switch, there will be a prompt to select scenes next. Select up to 3 scenes. Click **Save** to confirm.

**Note:** Whenever a group or scene has been updated, please edit and save the switch settings again to make sure all settings are synchronized so that the switch can work as expected.

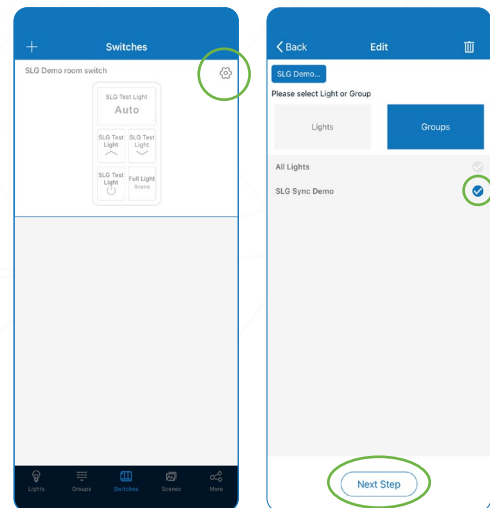
## ASSOCIATE LIGHTS TO SWITCHES



Select the switch to assign lights from the **Switches** page then press the **Settings Button**.

Click **Lights** for a list of lights. Select **ONE** light to assign to the switch and click **Next Step** to continue.

## ASSOCIATE GROUPS TO SWITCHES



Select the switch to assign a group from the **Switches** page then press the **Settings Button**.

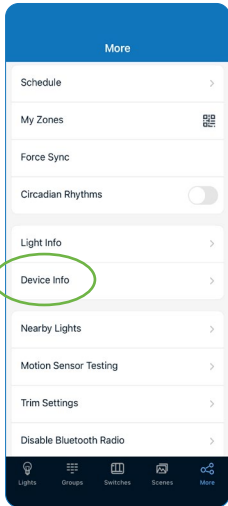
Click **Groups** for a list of groups. Select **ONE** group to assign to the switch and click **Next Step** to continue.

# ADDITIONAL DEVICES

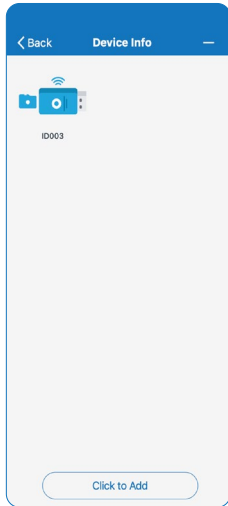
There are a variety of SLG SYNC advanced control products that do not directly control luminaires. These include plug load controllers, bridges, emergency lighting control devices,

energy monitoring dongles, and RTC dongles. In the APP, most of these are referred to as “Devices.”

## NCB-DC-01 ENERGY MONITORING DONGLE



Select **Device Info** button from the **More** page.



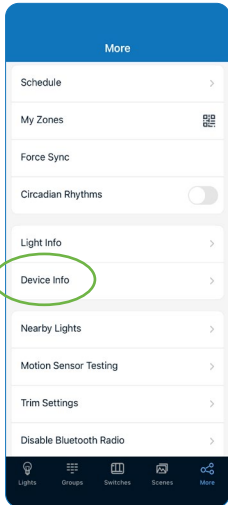
Select **Click to Add** to have the app search for new device.



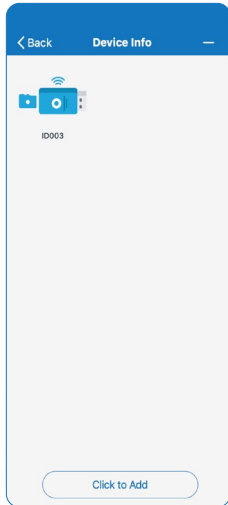
(image is for illustration purpose only.)

Note: Refer to SLG SYNC energy monitoring instruction for more details.

## ZCB-AC-09 EMERGENCY LIGHTING CONTROLLER



Select **Device Info** button from the **More** page.



Select **Click to Add** to have the app search for new device.



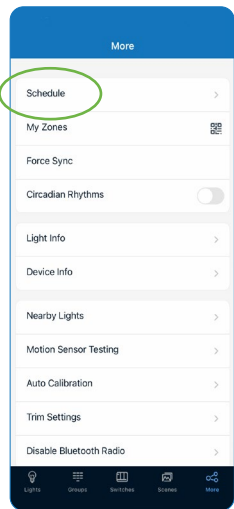
(image is for illustration purpose only.)

Note: Refer to SLG SYNC energy monitoring instruction for more details.

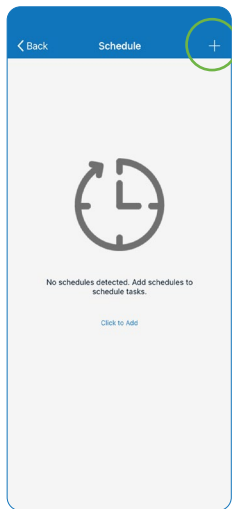
# SCHEDULES

Schedules allow the user to program lighting changes for specific dates and times. Schedules can be applied to an individual light, a group, or a scene.

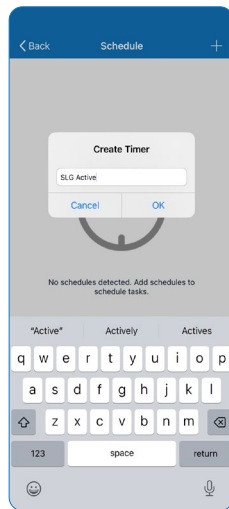
## CREATE A SCHEDULE



Select **Schedule** from the **More** page.



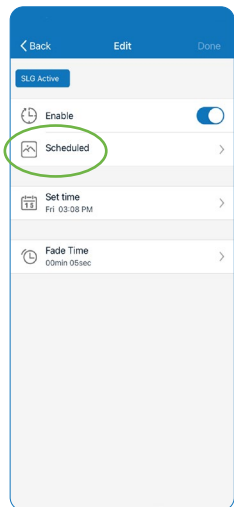
Click **+** in the upper right corner



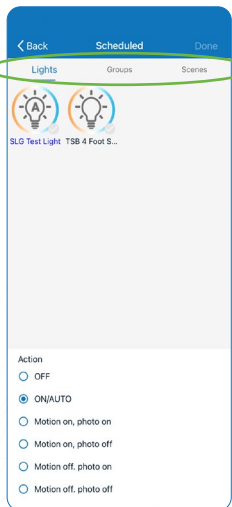
Name the schedule and click **OK**.

Note: The user will need to associate the schedule to lights, groups or scenes as well as set the schedule's time before saving the schedule.

## ASSOCIATE A SCHEDULE TO LIGHTS

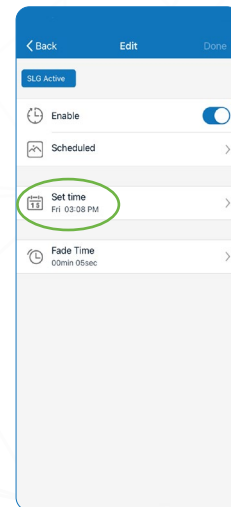


Select **Scheduled** from the **Edit** screen.

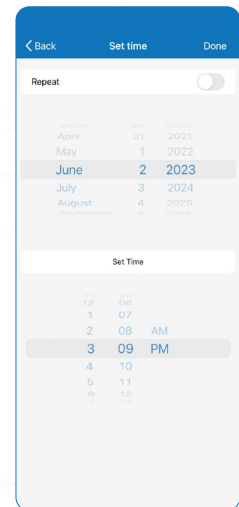


Pick **Lights, Groups or Scenes** to schedule and press **Done**.

## SET SCHEDULE'S DATE & TIME



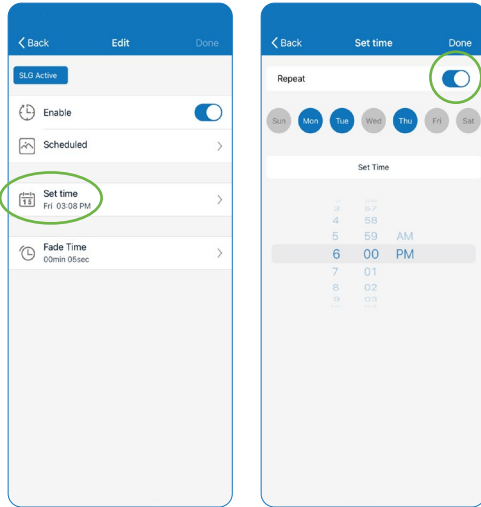
Select **Set Time** from the **Edit** screen.



Assign date and time to schedule and press **Done**.

# SCHEDULES CONT.

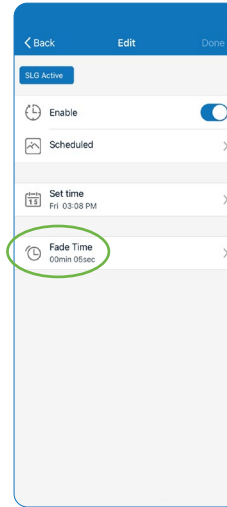
## SET REPEATING SCHEDULE



Select **Set Time** from the **Edit** screen.

Turn on **Repeat Switch** on top corner then assign a date and time to repeat and press **Done**.

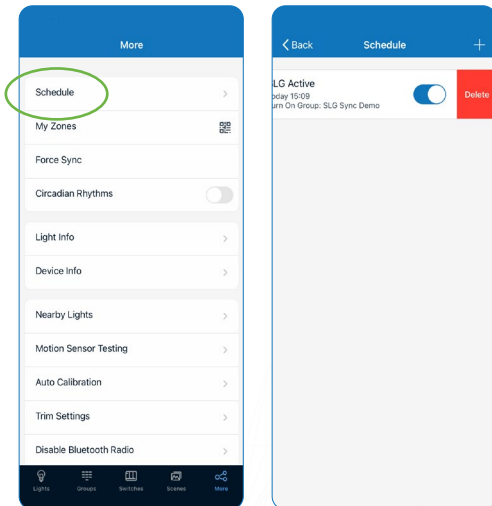
## SET SCHEDULE FADE TIME



Select **Fade Time** from the **Edit** screen.

Assign duration to **Fade Time** and press **Done**.

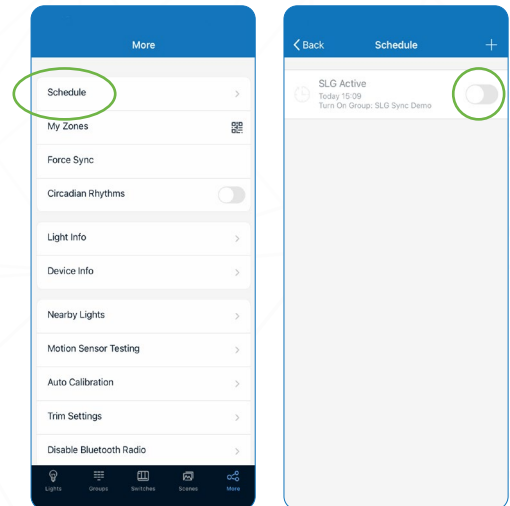
## DELETE A SCHEDULE



Select **Schedule** from the **More** screen.

Pick a schedule and swipe left then tap **Delete**.

## ENABLE/DISABLE A SCHEDULE



Select **Schedule** from the **More** screen.

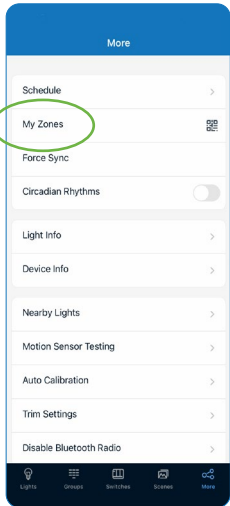
Select a schedule(s) to enable/disable.

# QR CODES

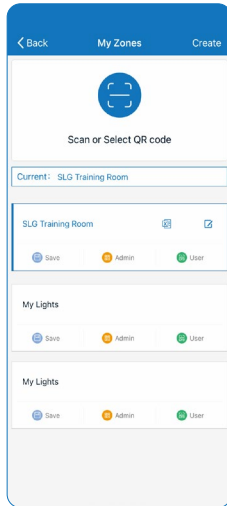
Whenever a zone is created, two QR codes are automatically generated, one for the Admin level and one for the User level. The QR codes represent the zone, as well as all of the lights, switches, and groups associated with that zone.

The User QR code allows the user to dim, activate a scene, or control lights on that zone, but it does not allow the user to add, delete, or change lights, groups, or scenes. The Admin QR code allows a user to control and edit all settings within the APP. *Note: Only users with the Admin QR codes can share Admin QR codes.*

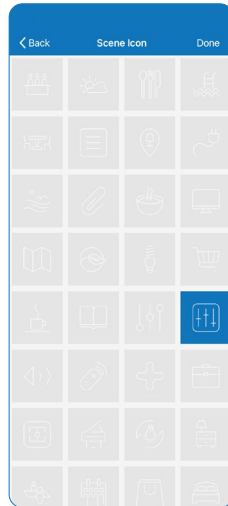
## SCAN QR CODE



Select **My Zones** from the **More** screen.



Select a zone in the list or click **Scan or Select QR Code** or select **Album** to load QR codes from your phone.

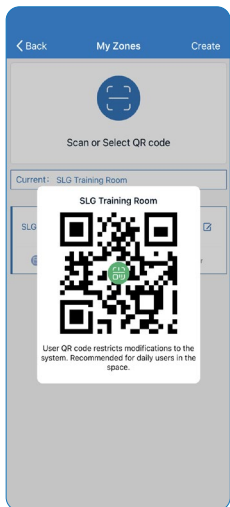


Select a desired icon(s) setting.



Align QR Code with camera to scan and add.

## SAVE QR CODES

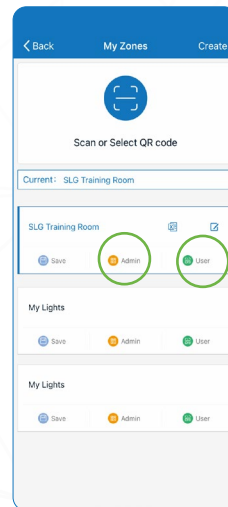


Enable app to access photo album. Press **Save** button under the zone name.

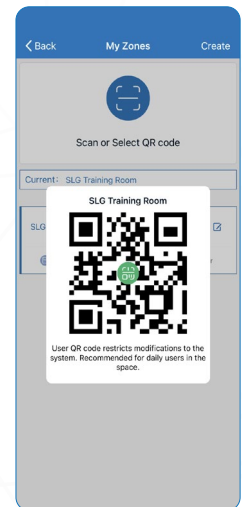


QR codes will be saved on an auto-generated album folder **MyQRCode**.

## SHARE QR CODES



Select a zone to share and click on either **Admin** or **User** from **My Zones** screen.



Screenshot a displayed QR Code then send to share.



# AUTO MODE

Lights with sensors can:

1. Detect human movements with a motion sensor, and automatically turn on or off the light.
2. Detect ambient light using a photo sensor to automatically dim up or down the light while providing sufficient and comfortable lighting, and energy savings. Such functionality is also referred to as "daylight harvesting."

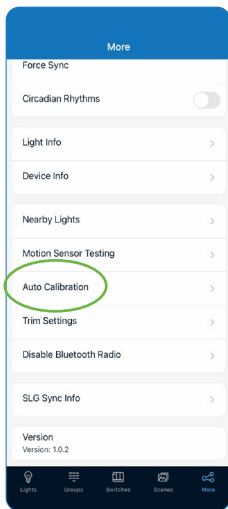
There will be an **A** in the center of a light's icon if the light is in Auto mode. Auto mode indicates that light's level is automatically controlled by sensors. A light with a sensor will store the data from the sensor in the APP. This enables a light to fully 'harvest' natural light to dim itself, while maintaining a comfortable, safe, and energy saving light level.

There are two ways to set the Auto light level in the APP: **Auto Calibration** and **Manual Setting**. To maximize energy savings, it is important to eliminate ambient light interference when setting the Auto mode light levels.

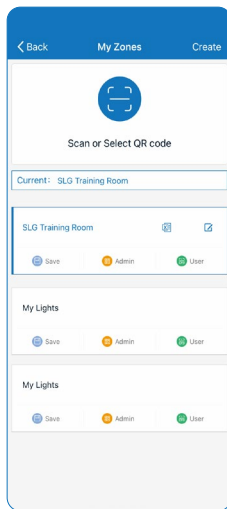
## SET AUTO MODE USING AUTO CALIBRATION

A user specifies parameters and the lights will automatically remove the ambient light interference by a self-learning process to determine the appropriate Auto mode light level. It is recommended to test with one light in a real or simulated

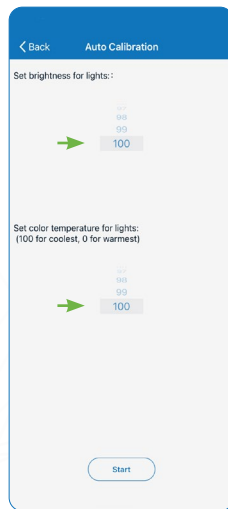
environment to find the appropriate parameters and then quickly batch set the lights using **Auto Calibration**. During the Auto Calibration process, the lights will turn on and off several times.



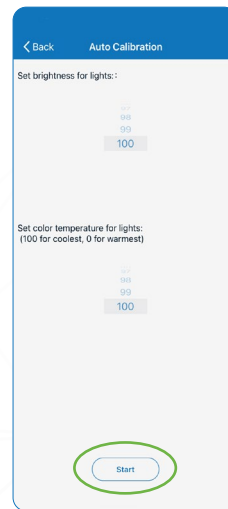
Select **Auto Calibration** from the **More** screen.



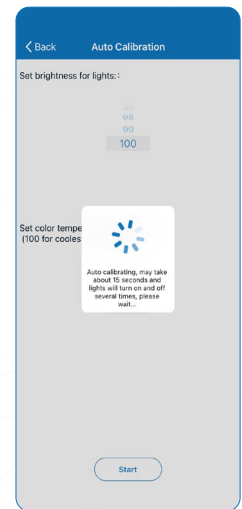
Select a group for Auto Calibration.



Adjust a desired auto calibration parameter.



Click **Start** to calibrate.



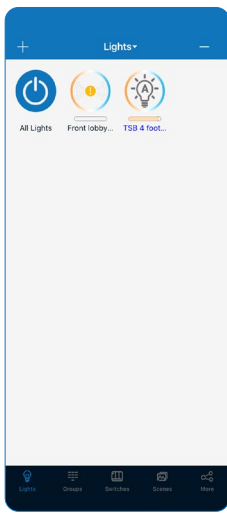
The screen will display **Auto Calibration Complete** once done.

# AUTO MODE CONT.

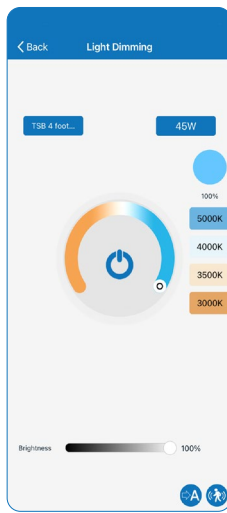
## SET AUTO MODE USING MANUAL SETTING

Manually setting allows users to customize the Auto mode light level. The light will remember the light reading from the sensor directly without considering the ambient light. It is the user's responsibility to make sure the light level is correct by

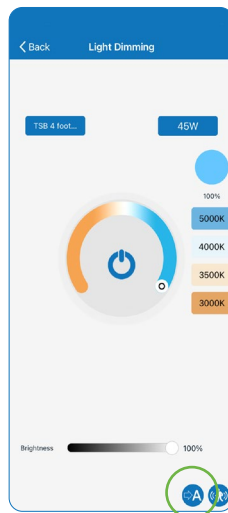
setting it at night or with the sunlight (or ambient light) shielded. By default, the Auto mode brightness starts at 100%.



From the **Lights** screen, tap and hold a light icon to access **Light Dimming** settings.

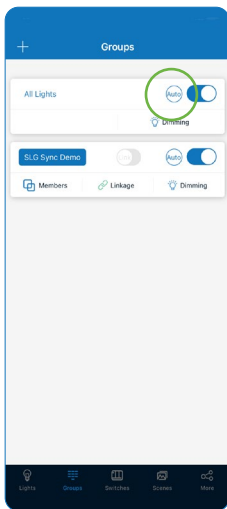


Adjust dimming and color temperature levels as desired.



Enable auto mode by pressing the **Auto Button** in the lower right.

Screen will show **Auto Brightness Level Updated**.



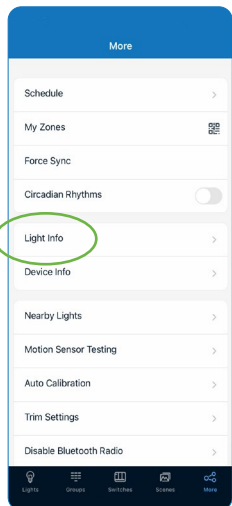
Set Auto Mode from the **Groups** screen by selecting the **Auto Button** to the right of the a group name.

**Note:** Auto mode only applies to lights with sensor functions enabled, either motion sensor and/or photo sensor. When Auto light level has been set, the lights will return to the brightness/color each time it is powered on, or turned on by the APP, switch, or schedule.

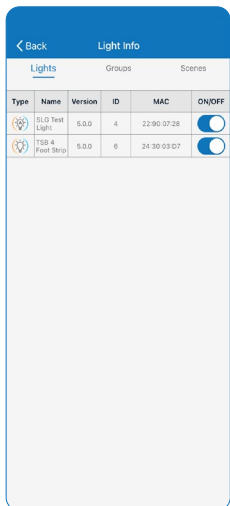
Auto light level does not apply to lights with sensor functions disabled, even when it has a sensor connected to it. Each time it is powered on, it will return to the last brightness/color.

# ADDITIONAL SETTINGS

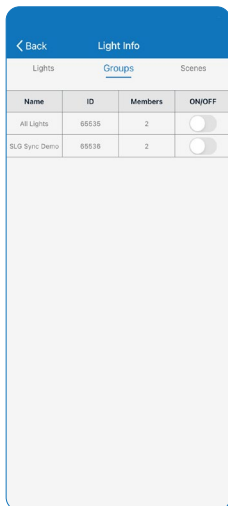
## CHECKING LIGHTS, GROUPS AND SCENES INFORMATION



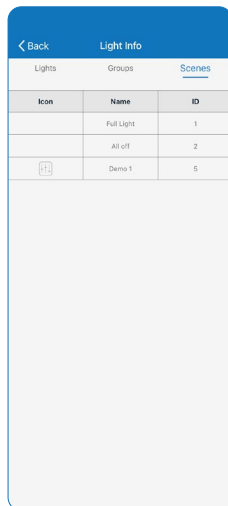
Select **Light Info** from the **More** screen to display a list of informations for lights, groups and scenes in a zone.



Lights informations.

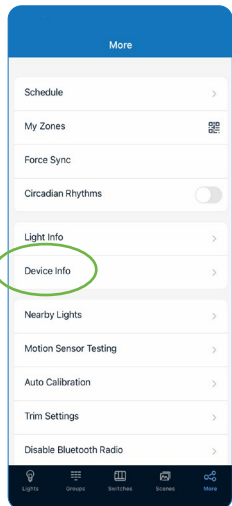


Groups informations.



Scenes informations.

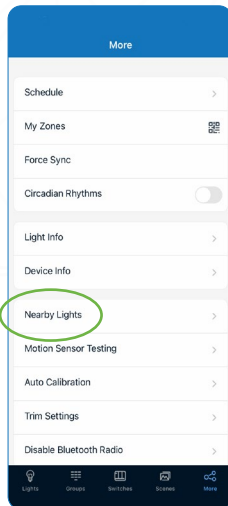
## CHECK DEVICE INFORMATION



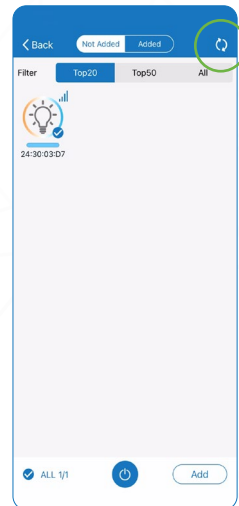
Select **Device Info** from the **More** screen.

Select a device for information.

## CHECK NEARBY LIGHTS



Select **Nearby Lights** from the **More** screen.

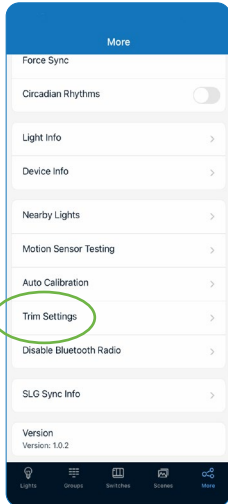


Click **Refresh** button if lights don't show up.

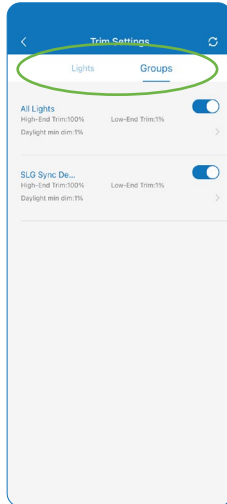
**Note:**  
On the **More** page, the **Nearby Lights** tab is useful in the commissioning process because it lists all online lights that are connected and not connected to the APP.

# ADDITIONAL SETTINGS CONT.

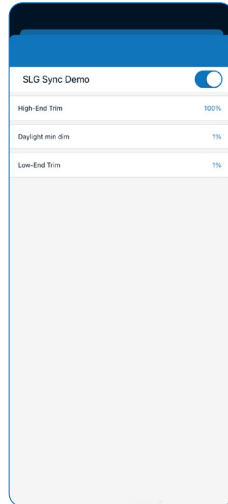
## TRIM SETTINGS



Select **Trim Settings** from the **More** screen.



Select **Lights** or **Groups** to change settings.

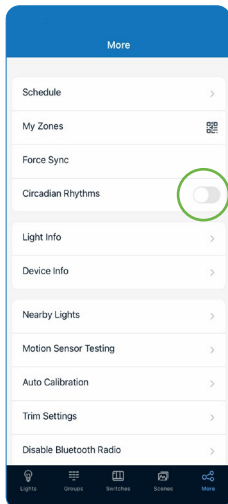


Set desired trim settings and click **Send**.

Users can set the **High Trim** and **Low-End Trim** that defines a maximum and minimum power for lights and groups.

**Note:**  
There is a 'Daylight min dim', which is the minimum level that daylight harvesting sensor can go when it is enabled.

## CIRCADIAN RHYTHMS

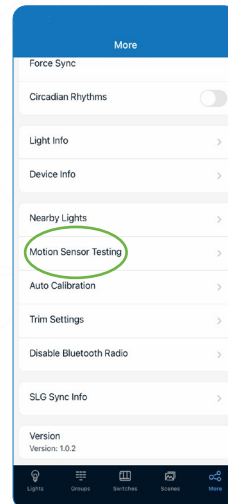


Enable or Disable **Circadian Rhythms** from the **More** screen.

Circadian Rhythm synchronizes all of the lights' color temperature, and adjusts them based on the time of the day, in order to mimic natural daylight. This only applies to tunable white lights that are set in Auto mode.

**Note:**  
Enabling Circadian Rhythms will automatically sync color temperature across all color tunable lights in Auto mode.

## MOTION SENSOR TESTING



Select **Motion Sensor Testing** from the **More** screen and select **Motion Sensor Test** to begin.

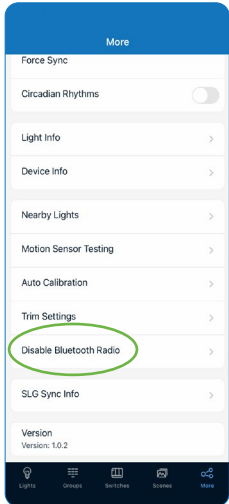
Motion Sensor Testing allows users to test if motion sensors are working properly. Lights must first be set to Auto mode before running the test.

**Note:**  
Lights with motion sensors should turn off as soon as the test is started.

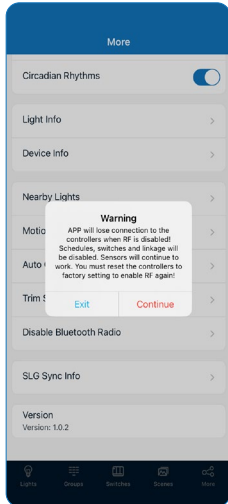
Walk around to test the sensors and trigger the lights to turn on. Please wait for 6 seconds to trigger the sensor.

# ADDITIONAL SETTINGS CONT.

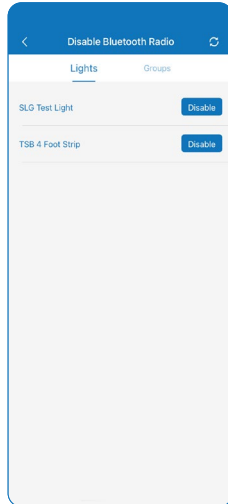
## DISABLE BLUETOOTH RADIO



Select **Disable Bluetooth Radio** from the **More** screen.



Click **Confirm** from a warning dialog.

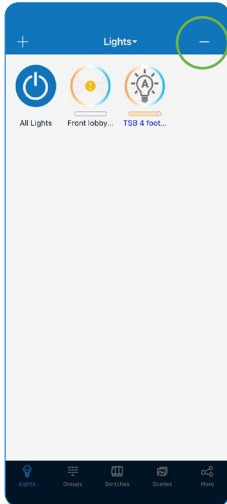


Pick **Lights** or **Groups** to disable and select **Disable**.

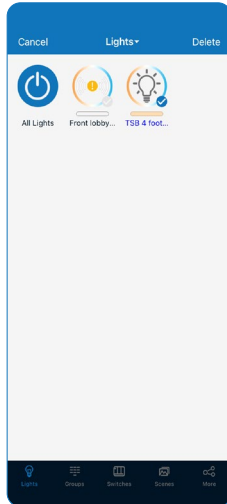
Disabling the Bluetooth Radio disconnects all of the lights' connections to the APP to easily transfer control. To restore, sensors will need to be reset.

# RESTORING FACTORY SETTINGS

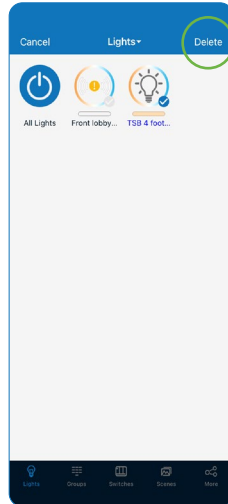
## RESTORE BY DELETING LIGHTS



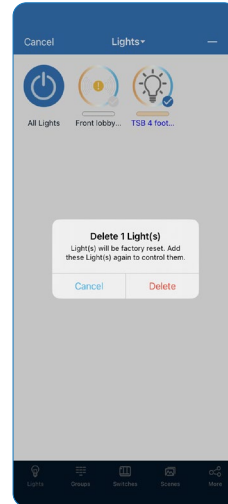
Click on - button in the upper right corner from the Lights screen.



Click the check for the light(s) to delete or reset.



Click **Delete** in the upper right corner to delete or reset.



Click **Delete** again to confirm.

## RESTORE BY POWER RESET

1. Confirm all lights are off.
2. Turn on lights for 8 seconds; then turn the power off for 10 seconds.
3. Immediately turn the lights on and off, then wait for another 10 seconds. Repeat 3 times.
4. Turn the lights on for 8 seconds, then turn the power off for another 10 seconds. Repeat 2 times.
5. Turn the lights back on. Blinking Lights indicate a successful factory reset. All previous settings and data for these lights have now been deleted.

Waiting for at least 10 seconds will ensure that the fixture is completely powered off.

The duration will vary depending on the driver and the power supply. If the driver can cut power to the fixture within 3 seconds, then you may change the waiting period from 10 to 3 seconds to facilitate a faster reset time.

# DEFAULT SENSOR SETTINGS

## • Integrated Sensors

Motion sensor = ON Photo sensor = ON T1 = 20 min  
 T2 = 1 min  
 Dim level = 50%  
 Sensitivity = 100%  
 High trim = 100%  
 Low end trim = 1% or 10%, depend on products Daylight min  
 dim = Low end trim Occupancy/Vacancy mode = Occupancy  
 Linkage = OFF  
 Linkage level = 100%

## • Sensor-Ready Controllers

Note: Controllers without integrated sensors, may later connect to Eco-Sensors  
 Motion sensor = OFF  
 Photo sensor = OFF  
 T1 = 20 min  
 T2 = 1 min  
 Dim level = 50%  
 Sensitivity = 100%  
 High trim = 100%  
 Low end trim = 1% or 10%, depend on products Daylight min  
 dim = Low end trim Occupancy/Vacancy mode = Occupancy  
 Linkage = OFF  
 Linkage level = 100%



Your experience matters.

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SLG Sports Lighting: 903-407-0555 or [chandler.hancock@slgus.com](mailto:chandler.hancock@slgus.com)

Marketing: [Marketing@slgus.com](mailto:Marketing@slgus.com)

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