litelogic
LIGHTING CONTROLS

NETWORK LIGHTING CONTROL
APP INSTRUCTION MANUAL

TRACE✱LITE®

Powered by
BARRON
lighting group

TABLE OF
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INTRODUCTION

LiteLogic can address luminaires individually or in groups, utilizing Bluetooth® Low Energy Mesh 4.2 & 5.0 protocols. This state-of-the-art wireless control system is operated using the LiteLogic app in conjunction with various sensors, wall switches, power packs, and controller nodes. The system components are easily commissioned using the LiteLogic app on a mobile device, without requiring a gateway. The mesh network enables wireless communication up to 100 feet or more between devices, and commissioning does not require any internet access.

The LiteLogic app employs data encryption to ensure mesh network security. The configuration settings for each device are stored in encrypted QR codes and each network device cannot be accessed without the QR code. LiteLogic is one of the first manufacturers to receive UL 1376 verification for security capabilities, and the first to achieve full-stack, in-house R&D for networked sensors and controllers. The LiteLogic platform was also one of the first systems listed to DLC's Networked Lighting Controls (NLC5).

Luminaire level lighting control (LLLC) 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. LLLC luminaires can detect human movements, ambient light level, and automatically turn on/off or dim the lights to provide comfort, safety, and energy.

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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 can 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. 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. Note: Linkage can override T2.

Recommended Parameter Settings By Space Type
(Refer to the Project Controls Sequence of Operations)

SUGGESTED SETTINGS FOR ZONE TYPE						
Zone	1st Time Delay (T1) (minutes)	2nd Time Delay (T2) (minutes)	Dim Level (%)	Linkage Light Level (%)	Scenes	Wall Switches
Open Office Area	25 mins	1 min	50%	50%	No Scene	Button programmed to ALL OFF for quickly turning off lights when leaving office
Meeting Room	25 mins	1 min	80%	80%	Configure PPT/Lecture Scenes	Associate PPT / Lecture scenes to SCENE button on wall switch
Classroom	30-40 mins	5 mins	80%	80%	Configure PPT/Lecture Scenes	Associate PPT / Lecture scenes to SCENE button on wall switch
Storage Room	10 mins	1 min	30%	80%	No Scene	No Switch
Corridor	10 mins	1-Infinity mins	30%	50%	No Scene	No Switch

SYSTEM CAPABILITIES

CAPACITY LIMITS

The following chart provides the capacity limits of the LiteLogic platform:

Luminaires	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.
Luminaire/Group	A light can be a member of up to 20 groups.
Scene	Up to 32 scenes can be set to a light. Up to 127 scenes can be set to a zone.
Schedule	Up to 32 schedules can be set to a zone.
Switch	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.

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 and standards, integration, project goals, and preferred vendors. The CIN 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 CIN 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.

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CAUTIONS

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

- 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 process.

- 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 select '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.

HOW TO DOWNLOAD

To download the LiteLogic app, scan the QR code below, which corresponds to the type of smart phone/tablet that will be downloading the app:

Get it from the
**App Store**

Get it from
Google Play

The app supports most Android smart phones. Some Android phone models may not be supported due to issues with the phone's hardware or firmware. The app requires access to the network and Bluetooth, so please approve access requests from the app. The app will not collect user's private data. Accept the prompt to allow access to photos for QR codes to be automatically saved in your album.

LiteLogic will update the app when there are new features or bug fixes. Please enable the auto update of the app so that new version of the app will be pushed to your mobile phone.

HOW TO NAVIGATE

The LiteLogic app has five tab pages which you can move between to provide easy control of your lights. They are located in the bottom menu bar of the screen.
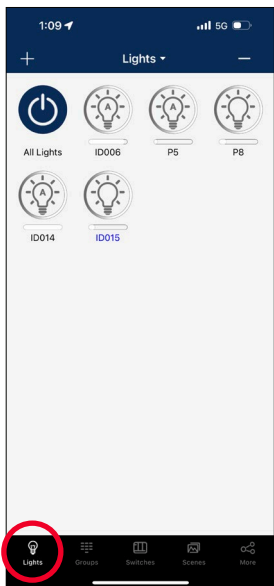
LIGHTS
Shows all lights that are connected to the app. It allows the user to view and control individual lights.

GROUPS
Allows user to create and manage groups.
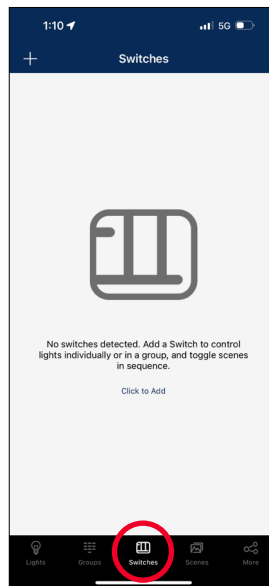
SWITCHES
Displays all switches that are connected to the app. It also allows the user to view/edit switch controls.
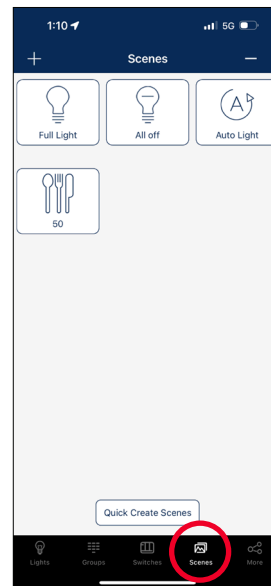
SCENES
Allows the user to create and manage scenes.
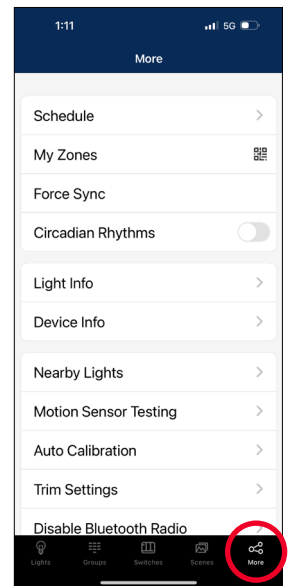
MORE
Allows the user to view Schedules, Zones, Light and Device Info, and other additional settings.

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APP NAVIGATION
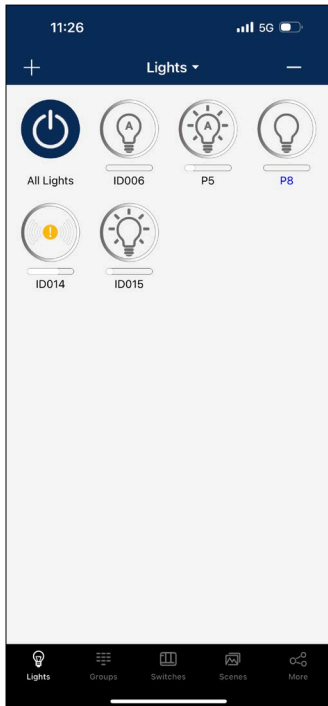
LIGHT ICONS

Every light connected to the APP will be listed on the Lights page.
Each light can display different icons to indicate the state of the device:

A. Auto-Off
Light output is off, and will be triggered to auto-on if motion is detected.

B. Auto-On
Light output is on, and light is operating in auto mode.

C. Manual-Off
Light output is off, and light output stays off until a scheduled event or manual command overrides this.

D. Manual-On
Light output is set to a manual override level via a scene trigger or manual override command. It will return to auto-off mode automatically after the sum of the motion sensor delays.

E. Offline
Controller is most likely either not getting power or is out of range of the mesh network.

F. Blue Light Name
This is the light which the phone/tablet is using to connect to the mesh network.

G. All Lights
A default full system on/off switch, toggles all lights in the region between auto-on and manual-off.

The **More Page** contains additional settings and features in the app.
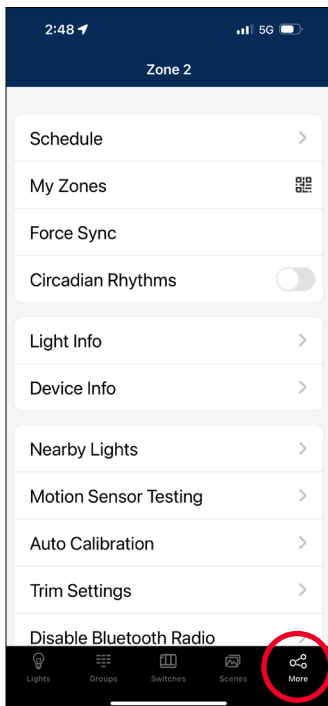
A. Schedule
Set a schedule for individual lights, groups and/or scenes.

B. My Zones
Create, edit and delete zones.
Generate and share QR Codes.

C. Force Sync
Sync data and settings across devices.

D. Circadian Rhythms
Enable or disable circadian lighting.

E. Light Info
Check info on all connected lights, groups and scenes in a zone.

F. Device Info
Check info about external converters and sensors connected to app.

G. Nearby Lights
See a list of all online lights nearby.

H. Motion Sensor Testing
Test settings for motion sensors.

I. Auto Calibration
Auto calibrate brightness and temperature of lighting groups.

J. Trim Settings
Adjust trim settings of lights or groups.

K. Disable Bluetooth Radio
Disables all bluetooth connections to the app for quick control transfer.

L. Energy Monitoring
Monitor and analyze monthly energy consumption.

M. Instruction
Quick link to the app commissioning guide for instructions.

N. Version
Displays current app version.

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COMMISSIONING

The following commissioning procedure is recommended:

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.

Note: A red dot in the Zone name window indicates the data needs to be synced.

Creating Zones
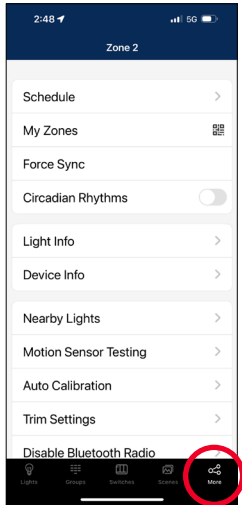
1. Start the LiteLogic app and **select** the **More Page**.
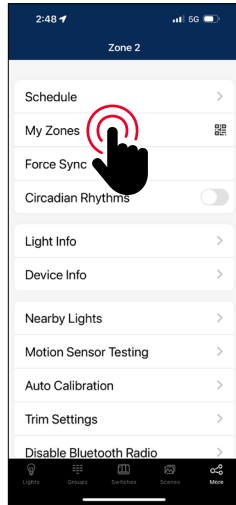
2. Then **select** the **"My Zones"** button.
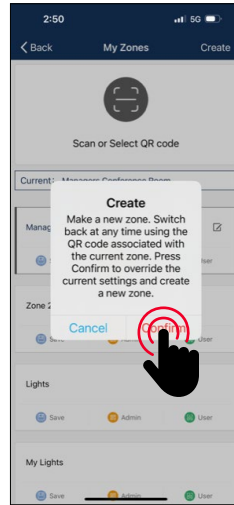
3. Select "Create" in the top-right and then **select "Confirm."**
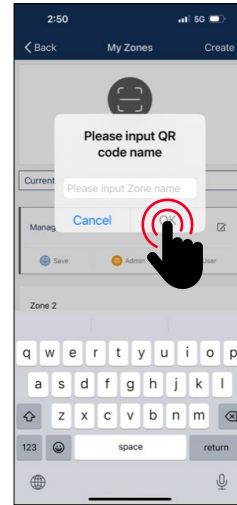
4. Input the name of the QR code and then **select "OK."**
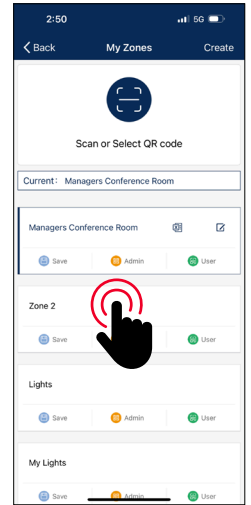
5. All zones can be found in the **"My Zones"** list and you can switch between them by selecting them.

Renaming Zones
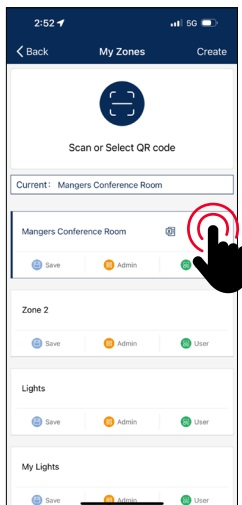
1. On the My Zones page, **press the edit button** located to the right of the zone name.
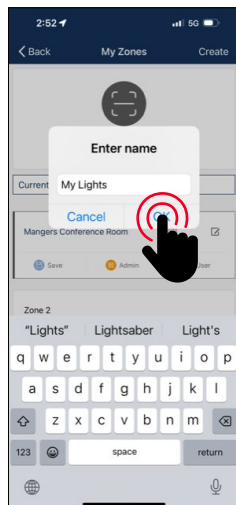
2. Enter preferred zone name as prompted.
3. Press "OK" to save.

Deleting Zones
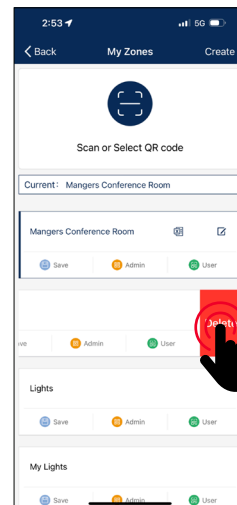
1. Select the Zone to delete and slide finger from right to left over that Zone.
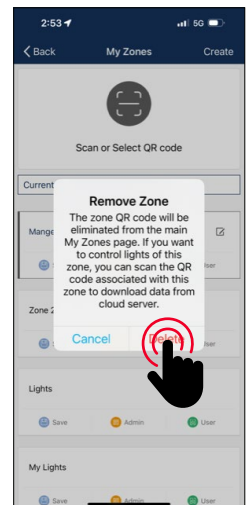
2. Press the red delete button as prompted.
3. Press "OK" to save.

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

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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. Only users with the Admin QR codes can share Admin QR codes.
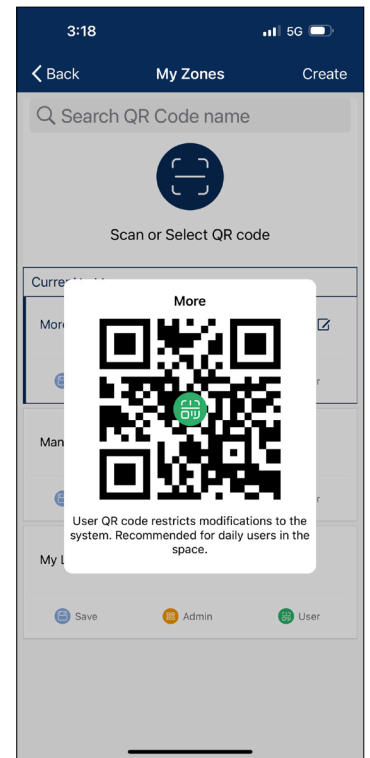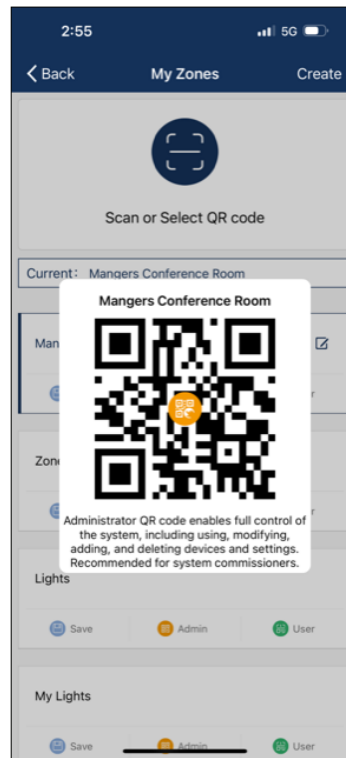
To Scan QR Codes
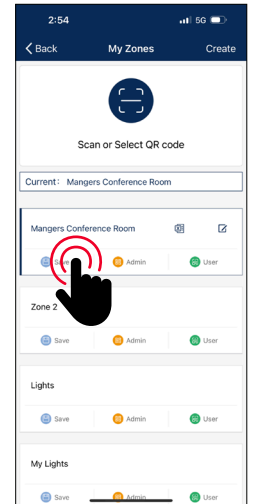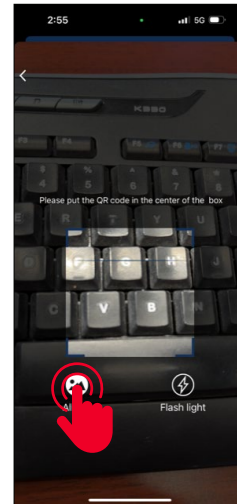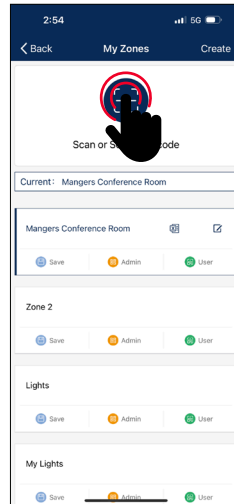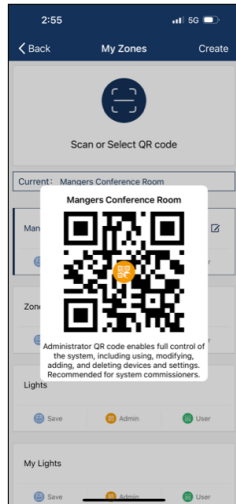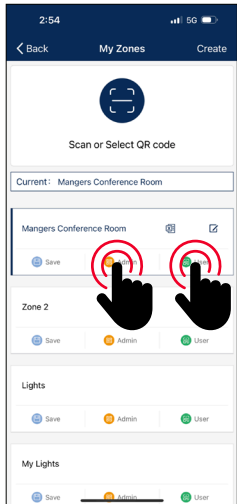
1. On the More page, **select on My Zones**.
2. Select a zone in the list or select "Scan or Select QR code".

3. Center the boxed camera frame around the QR code and scan it.

4. You can also select QR codes saved in the phone by pressing the "Album" button.
5. The app will automatically add a new scanned Zone after the QR code has been scanned.

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QR CODES
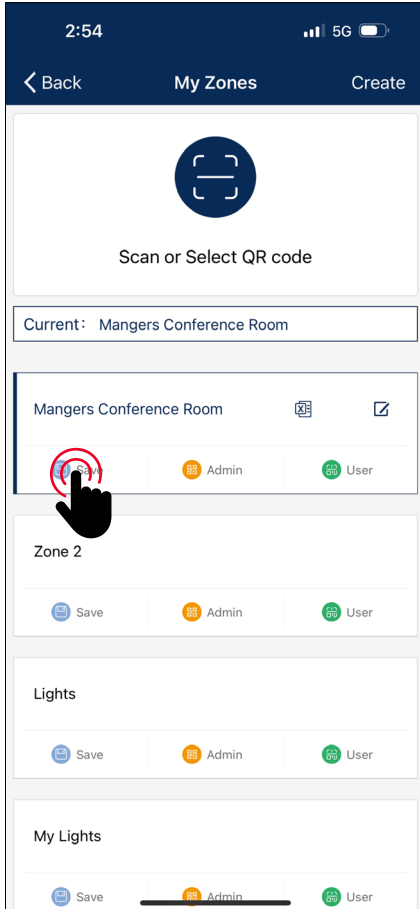
To Save QR Codes

1. Allow the APP access to photos for QR codes to be saved to the phone.
2. Press the "Save" button located under the zone name.
3. QR codes will be saved on an auto-generated **album folder "MyQRCode."**

To Share QR Codes
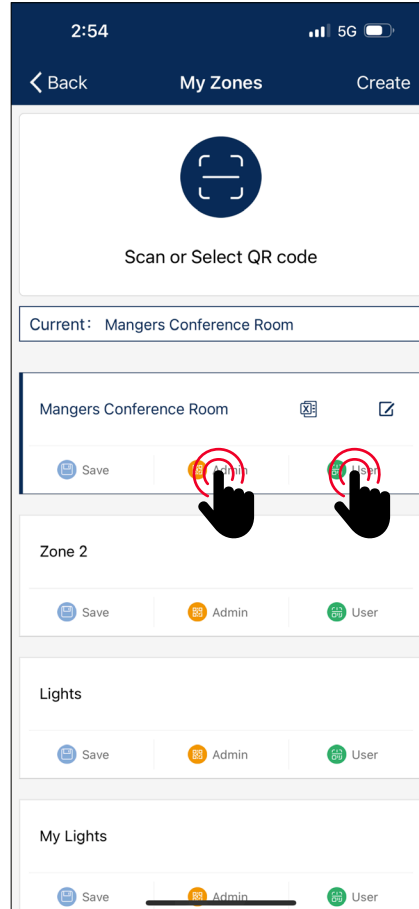
1. From the My Zones page, **select the Zone to share** and **select on either Admin or User**.
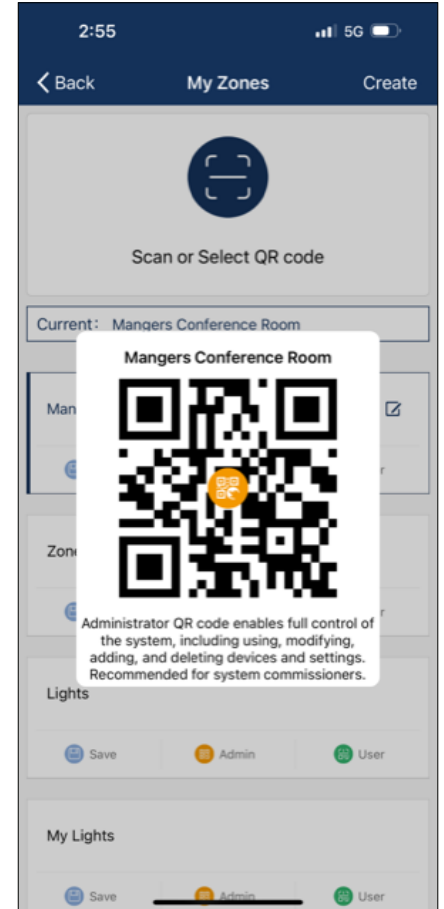
2. A QR code will be displayed on the app. It can then be scanned by another for sharing or you can screenshot it and send it to another for scanning.

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 interference, turn off lights by power source.

To Add Lights into the App
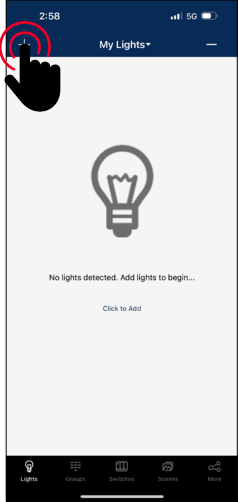
1. From the Lights page, **select the "+" button** in the upper left corner.

2. Select Top 20, Top 50 or All from the filter at top of screen to show lights with the strongest Bluetooth signal.
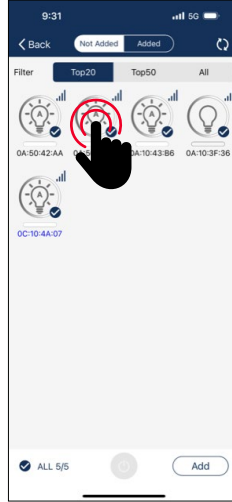
3. The APP will scan for lights that can be added to the zone. Lights can be identified in a room by pressing the icons to turn it on and off.
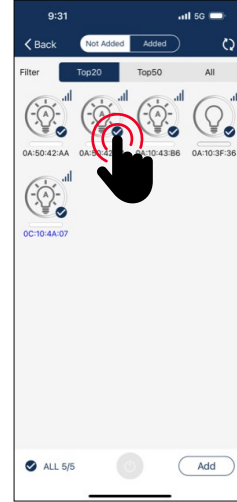
4. Select the lights you want to add by pressing the check mark located in the lower right corner of desired light icons.
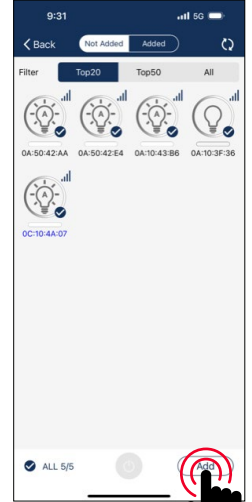
5. Select "Add" to associate all of the selected lights into the zone.

6. Confirm by selecting the "Add" button in the dialog box. A light will blink to indicate a successful connection.
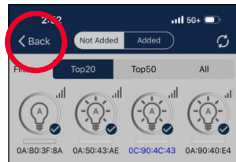
7. Select the "Back" button to return to the Lights page.
8. Confirm that all lights have been added and successfully connected with the app.

Note: Commissioning performance may deteriorate if there are more than 100 factory-setting lights powered up at the same site. Please power off some factory-setting lights before continue.

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LIGHTS

To Name or Rename Lights

1. From the Lights page, **do an extended press on a selected light** to go to the Dimming page.
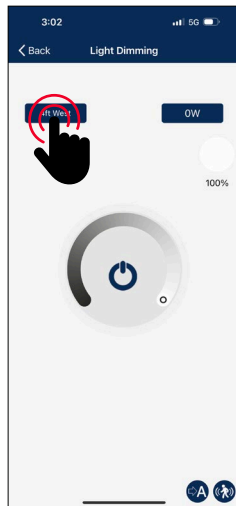
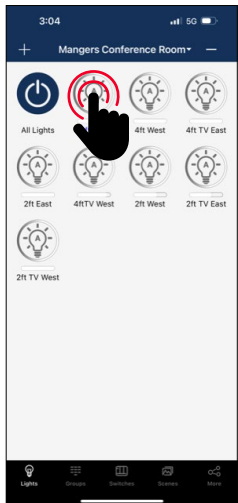**2. Select on the light's name** located in the upper left of the dimming/tuning.
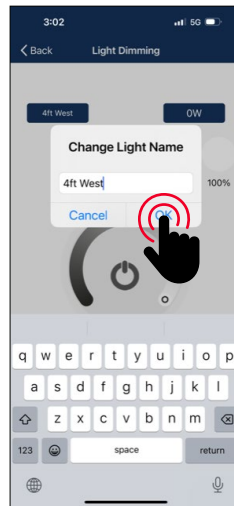
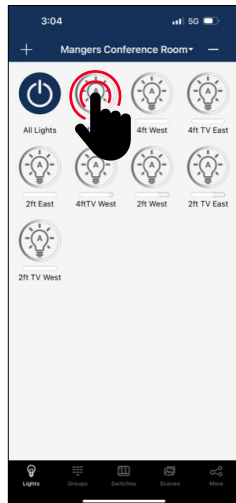**3. Enter the light's new name** in the dialog box.
4. Press "OK" to save.
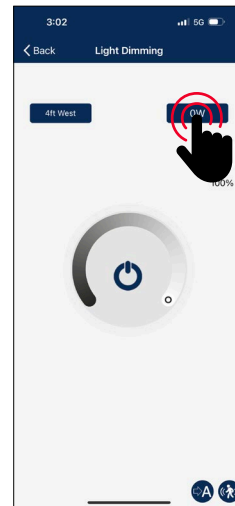
5. Note that the wattage is the rated wattage after High-Trim is set. E.g., input 24 for a 30-watt luminaire with 80% of High-End trim setting.
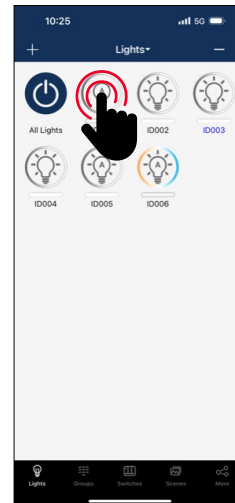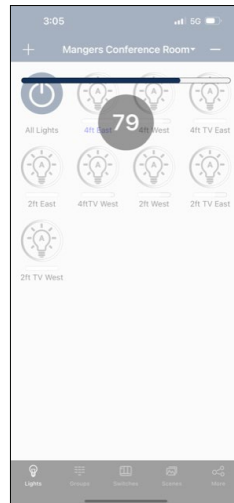
Quick Dimming and Color Tuning

1. From the Lights page, a **quick select on a light's icon** will turn it on or off.

2. Lightly slide a finger left or right across the light's icon to adjust brightness.

3. Lightly slide a finger up or down over a light's icon to adjust the color temperature.

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LIGHTS

From left to right below are examples of the Light Dimming pages for mono-dimmable, tunable white.

Dimming Settings

1. From the Lights page, **do an extended press and hold on a light's icon** to open the Light Dimming settings page.
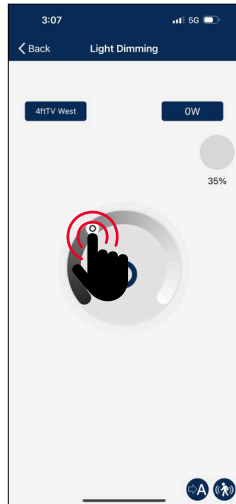
2. The Light Dimming settings page appearance will vary according to the light's capabilities.
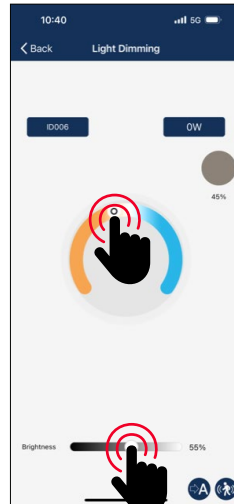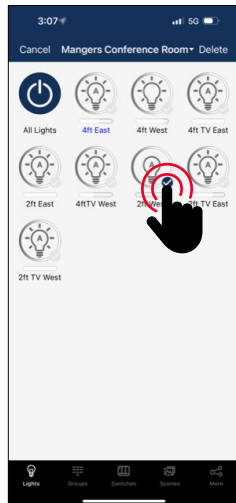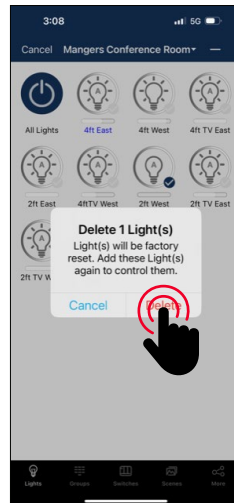
3. Set to the desired dimming and tuning levels.

To Delete Lights
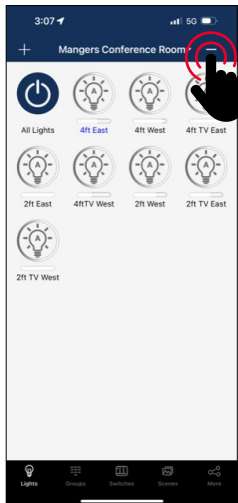
1. From the Lights page, **select the "-" button** in the upper right corner.

2. Select the lights you want to delete, by giving it a tap and check mark.

3. Select "delete" in the upper right corner.
4. Select "delete" in the dialog box to confirm.

Note: Lights must be paired to app to be deleted. If not paired, a power reset is necessary. See page 34.

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LIGHTS

Sensor Settings

1. From the Lights page, **do an extended press and hold on a light's icon** to open the Light Dimming settings page.
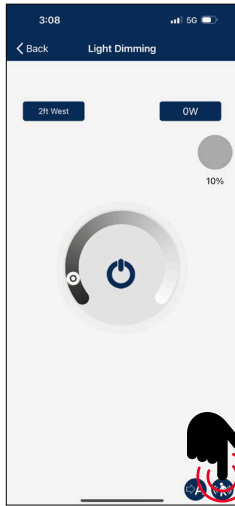
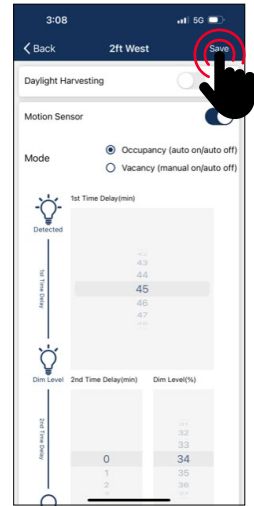**2. Select the "Sensor Settings" icon** in the lower right corner.
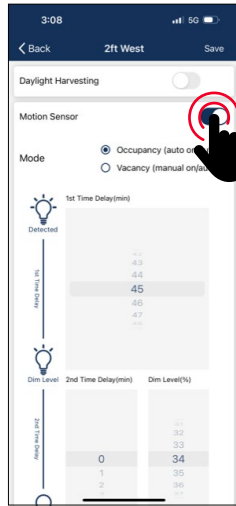
3. Enable or disable motion sensors, and set levels as desired.

Manual OFF Override

User may set manual OFF override time in Occupancy mode.

When light is turned OFF manually, by either APP, switch or schedule, it remains OFF and won't be triggered by motion during the 'Manual OFF override time' period. If motion is detected during this period, it will restart the time counter. After 'Manual OFF override time' timer times out, the lights will remain OFF but will be ready to be triggered by motion. Default is set to 'Infinite.' *Note: Function only works with firmware later than 231013.*

4. Select the "Save" button in the upper right to save sensor settings.

There are two working modes of motion sensors, their behavors in Auto Mode are defined as follows, please product spec for more details:

- Occupancy sensor, auto turns on when motion is detected, and auto turns off when T1/T2 timers time out.
- Vacancy sensor, manual turns on with switch and auto turns off when T1/T2 timers time out.

T1 and T2 time delays may set an "Infinite Time Delay" to prevent lights from turning off to meet special requirements for applications.

Daylight harvesting sensor is disabled by default. Enable it on APP and set appropriate auto set point threshold (auto-calibration) or manual ON/OFF threshold without auto-calibration.

Do not enable 'Daylight Harvesting' if not photosensor is installed or connected, otherwise it may keep dimming randomly because it can't get the correct ambient light level.
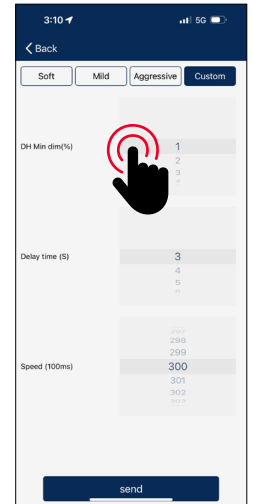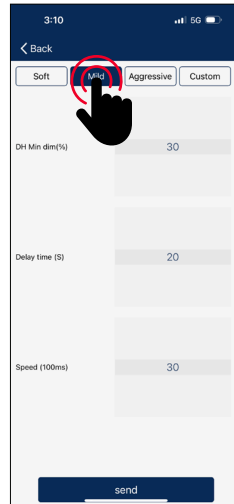
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LIGHTS

Daylight Harvesting Strategy
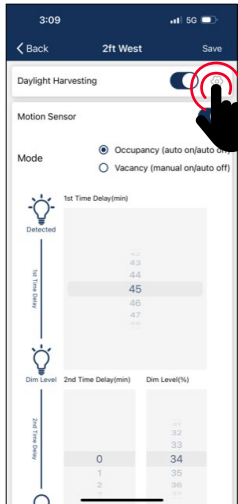
1. Select the setting button beside Daylight harvesting toggle button to set daylight harvesting strategy.

2. There are three pre-defined strategies, select the one that best fits application.

3. Custom will allow user to fine-tune the daylight harvesting parameters.

Adjustable parameters for daylight harvesting strategy include:
- DH Min dim (%)

It is the minimum light level that daylight harvesting sensor can dim a luminaire to. Set this parameter higher if you want keep the luminaire brighter and set it lower if you want to save more energy. If you set the value lower than the 'low-end-trim' then 'low-end-trim' is actually working.
- Delay time (S)

The time the sensor will wait to dim down the luminaire when ambient light has gone up. The unit of this parameter is in seconds. Set this value larger if you want the luminaire to hold the level longer even when ambient light has gone up.
- Speed (100ms)

How quick the sensor should dim the luminaire. The unit of this parameter is in 100 milliseconds. Set this value larger if you want the diming process to be more gentle and softer.

Name	Response Speed to Ambient Light Changes	Minimum Daylight Harvesting Light Level	Suggested Applications
Soft	Slow	50%	Independent office, parlor, concierge area
Mild	Medium	30%	Open office, classroom, meeting room
Aggressive	Quick	= Low-end-trim (1% or 10%)	Tea room, storage room, warehouse

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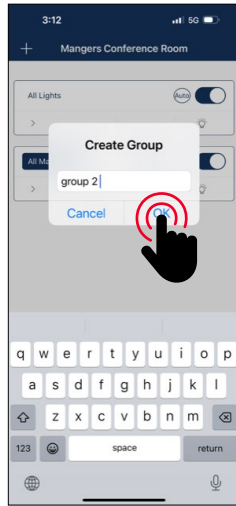**TRACE★LITE**
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GROUPS

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.
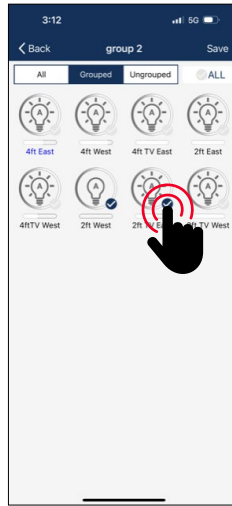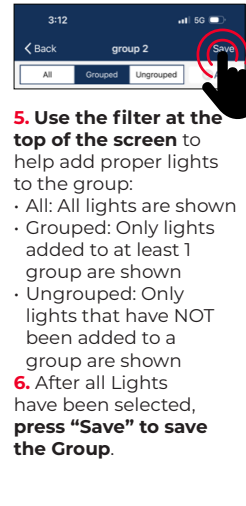
Create a Group
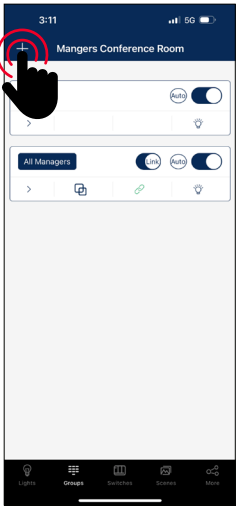
1. Select the "Groups" page in the bottom menu.
2. Select the "+" in the top left corner.

3. Type the group name and then press "OK".

**4. Select the lights that you want to add in the group by selecting the checkbox** in the bottom right of the desired Light icon.

5. 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
6. After all Lights have been selected, **press "Save" to save the Group**.

Note: A single light can be a member of up to 20 Groups. This allows for linkage with multiple groups. See Page 17.

Rename a Group
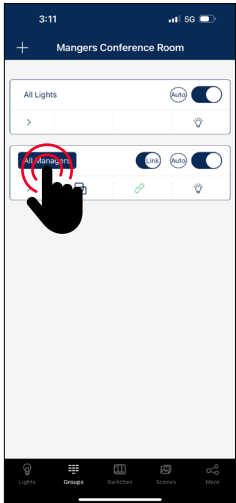
1. Select the Group that you wish to rename.
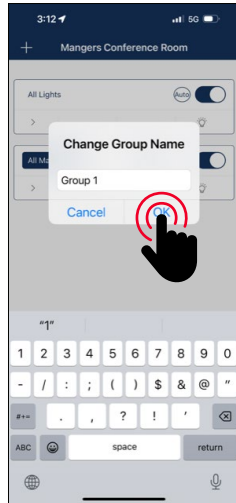
2. Enter new group name as prompted.
3. Select "OK" to confirm.

Deleting a Group
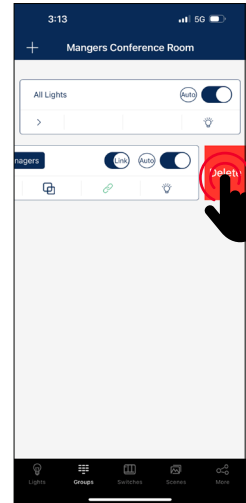
1. Select the Group to delete and slide finger from right to left over that Group.
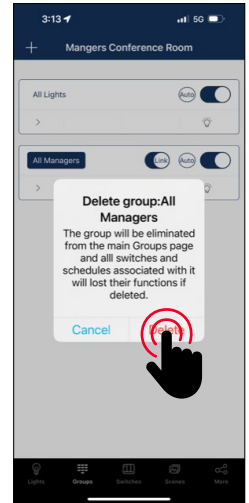
2. Press the red delete button that appears..
3. Confirm by pressing "Delete."
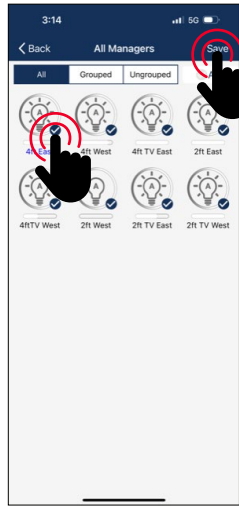
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GROUPS

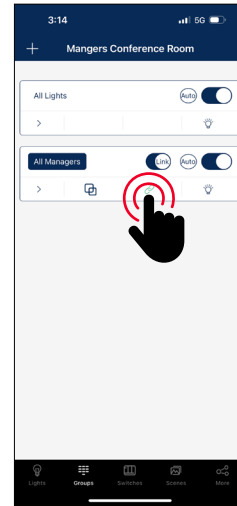## Add or Remove Lights in a Group
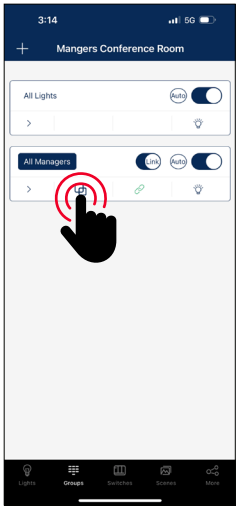
1. Select which group to add or remove lights, from the Groups page.
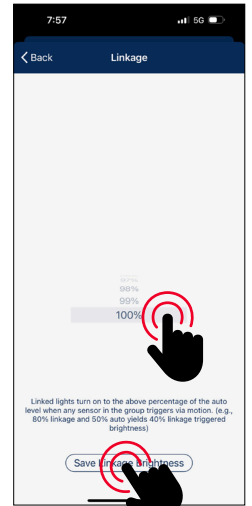**2. Tap "Members" icon** to see all current lights in the group.

3. Select which lights you want to add or remove.
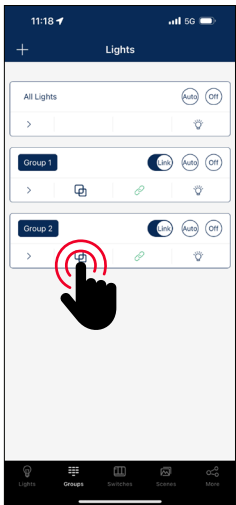**4. Press "Save"** to confirm changes.

Adjust Group Linkage Level

1. Choose which group to change linkage settings, from the Groups page.
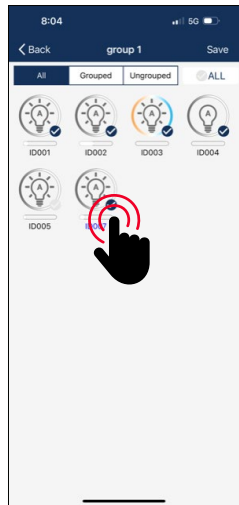**2. Select "Linkage" icon** to access the group linkage controls.

3. Set linkage brightness level according to preference.
4. Press "Save Linkage Brightness" to confirm changes.

Multiple Group Linkage

1. Select the Member symbol to list the lights in Group.

2. The common member should be in correct physical position as shown in illustration.
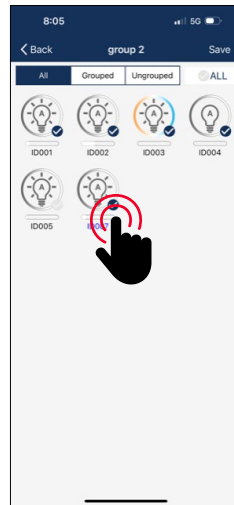
Note:
· *A single light can be a member of up to 20 Groups. This allows for linkage with multiple groups.*
· *The common member is ID007 in this illustration.*

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.
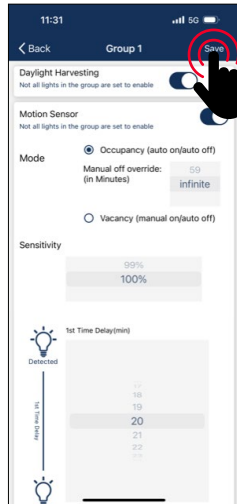
GROUPS

Adjust Group Dimming/Sensor
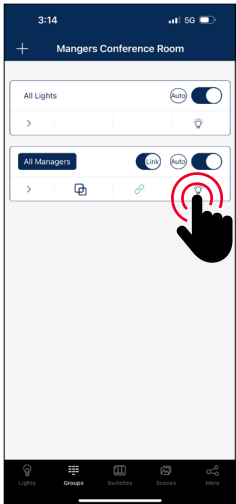
1. Choose which Group to change settings, on the Groups page.
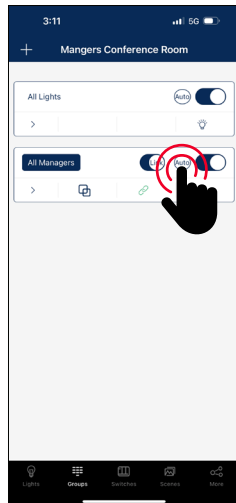**2. Tap "Dimming" icon** in the lower right corner.
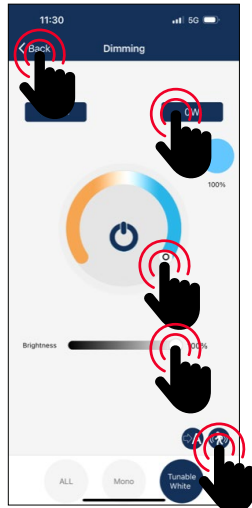
3. Select which dimming settings to change.
4. Set dimming and/or tuning levels.
5. Set wattage levels.
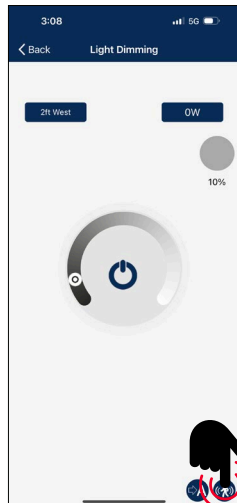**6. Press "Back"** to save changes.

The sensor settings can be changed as a Group by selecting the lower right hand motion symbol.
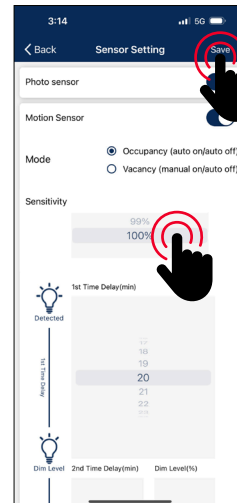
Activate Auto Mode

To set all of the Lights in a Group to Auto mode, that are controlled by sensors:

1. Choose which group to turn on/off Auto mode, on the Groups page.

2. Select the "Auto" button to turn auto mode on or off, for all of the Lights in this Group.

3. If there are lights with sensors in a group, **you may set the sensor's parameter** by selecting the sensor icon on the bottom right corner of the Dimming page.
**4. Select "Save"** to save sensor parameters.

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.
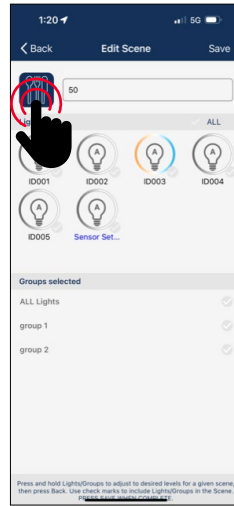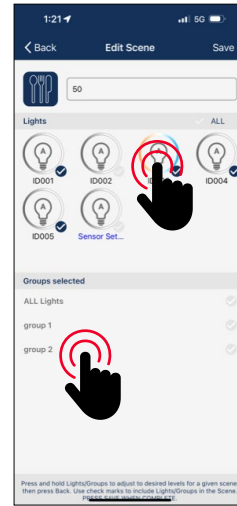
Create a Scene
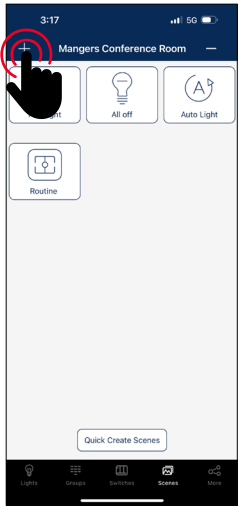
1. Select the "Scenes" page in the app.
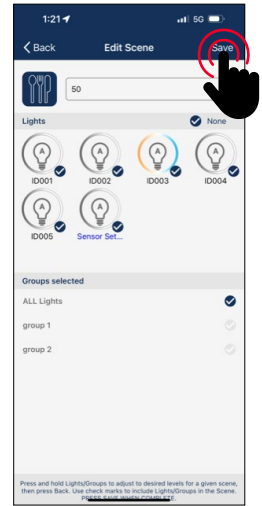**2. Select the "+" button** in the upper left corner.
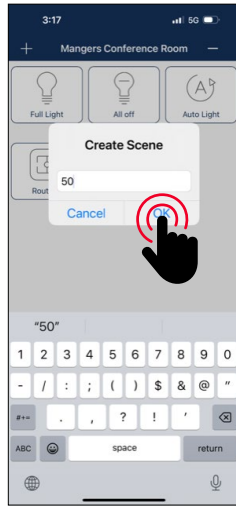
3. Type in the scene name and press "OK."

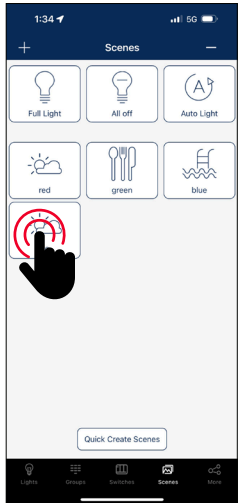**4. Select a desired icon** to be the scene icon.

5. Select the individual lights or groups that will participate in the scene. An extended press on a light or a group will dim the light or group.
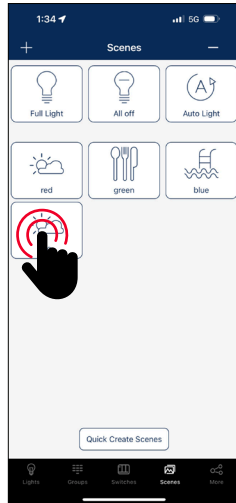
6. Select "Save" to save the scene settings.
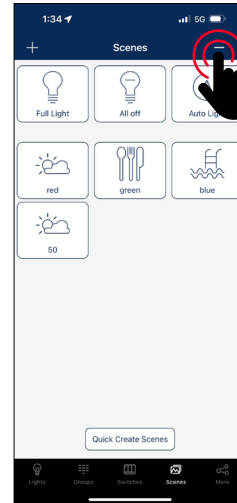
Edit Scene Settings

1. Select the scene icon of the scene to edit/program.
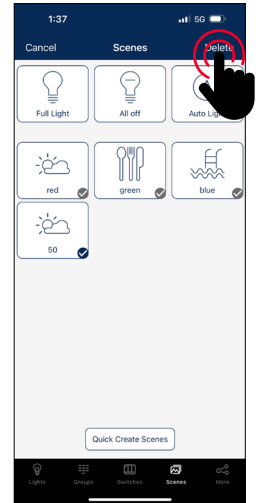**2. Press and hold the scene icon** to edit scene settings.

3. Press and hold Lights/ Groups and define settings desired.
4. Select "Save" to save the scene settings.

To Delete a Scene

1. Press the "-" button in the upper right corner.

2. Select which scene(s) to delete.
**3. Press "delete"** to confirm.

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SWITCHES

LiteLogic 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.
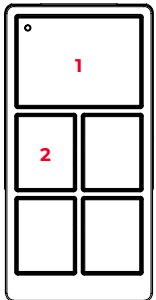
Add a Switch
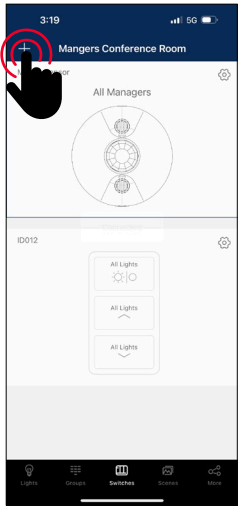
1. Select the "Switches" page of the app.
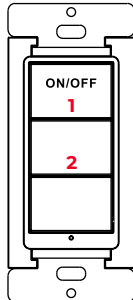**2. Press the "+" button** in the upper left corner.
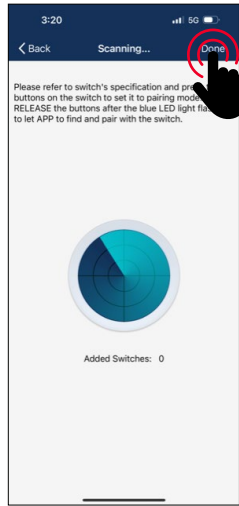
3. The app will search for nearby switches.

Note:
Please set the switch to pairing mode, then select '+' on the app to add the switch to the zone.
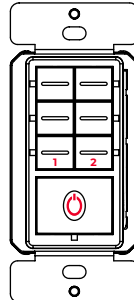
Follow the Instructions Below in Order to Pair the Specific Switch Type

Press the button 1 and 2 together and hold for 2 seconds and then release.

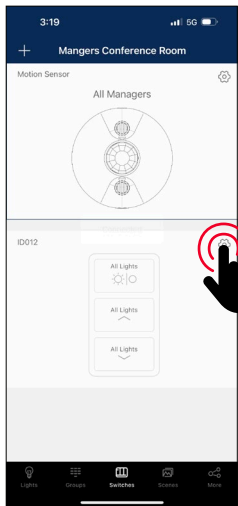**Press the button 1 and 2 together** and hold for 2 seconds and then release.

Press the button 1 and 2 together and hold for 2 seconds and then release.
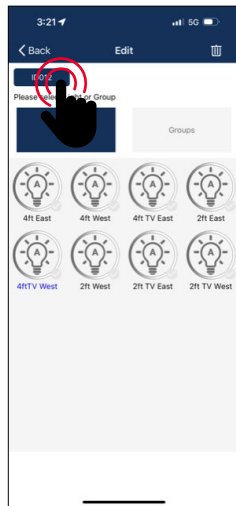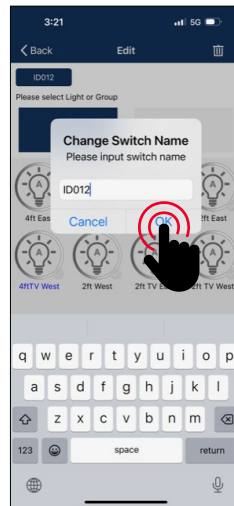
SWITCHES

Rename a Switch

1. From the Switch page of the app, select a switch to rename.
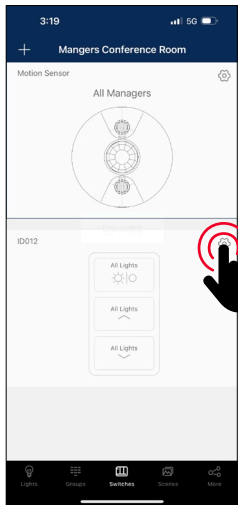**2.** Press the settings button in the upper right corner to access switch settings.

3. Select the current switch name displayed in the upper left.

4. Enter the new switch name and press "OK" to save.

Delete a Switch

1. From the Switch page, select which switch(es) to delete.
2. Press settings button in upper right to access settings.
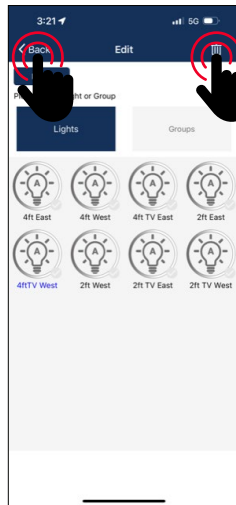
3. Tap the trash icon in the upper right corner.
4. Select "delete" to confirm.
5. Select "Back" button in the upper left corner to return to the "Switch" page.

Edit Switch Settings

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.

SWITCHES

Associate Lights to Switches

Associate a button to a light and the user will be able to turn the light on or off by pressing this button.

1. From the "Switches" page of the app, **select the switch to assign lights**.
2. Press the settings button in the upper right to access switch settings.
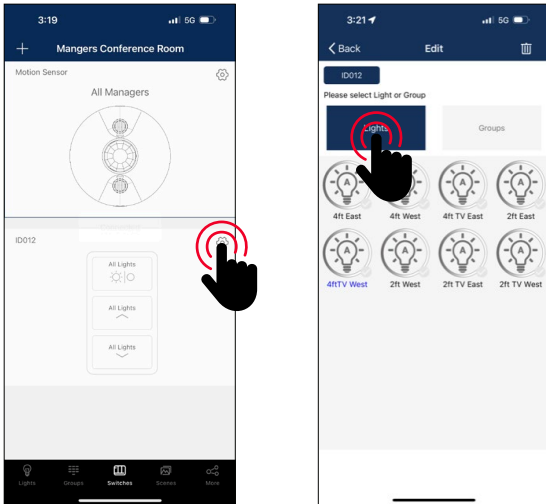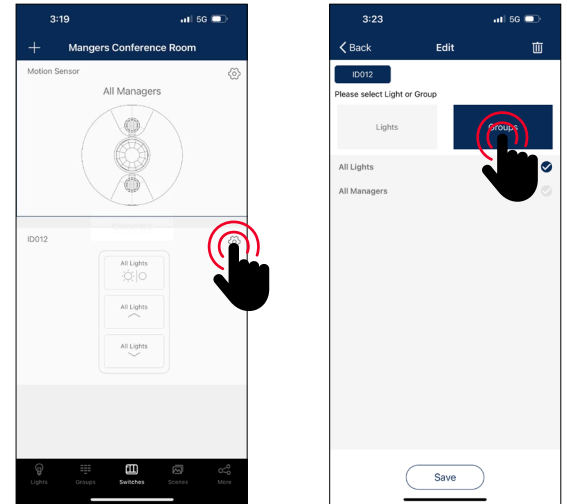
3. Select "Lights" to see a list of individual lights.
4. Select only one light to assign to the switch.
5. Select "Next Step" at the bottom to continue.

Associate Groups to Switches

Associate a button to a group and then the user can turn the group on or off by pressing this button.

1. From the "Switches" page, **select a switch to assign a group**.
2. Press the settings button in the upper right to access switch settings.

3. Select "Groups" to see a list of groups.
4. Select only one group to assign to the switch.
5. Select "Next Step" at the bottom to continue.

Associate Scenes to Switches
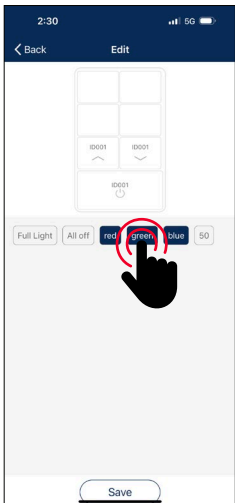
Associate scenes to a button and the user will be able to change between these scenes when the user presses this button. Usually, a button can be associated with up to 3 scenes.

1. After associating one light OR group to the switch, there will be a prompt to select scenes next.
2. Select up to three scenes.
3. Select "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.
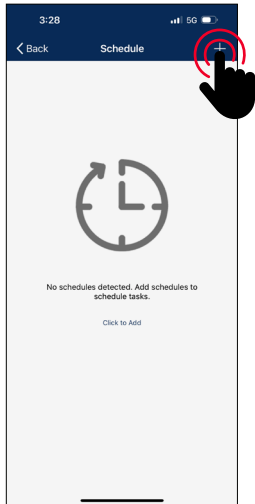
SCHEDULES

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.
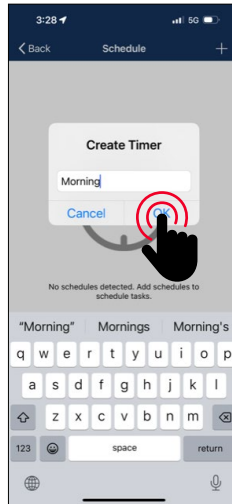
Create a Schedule
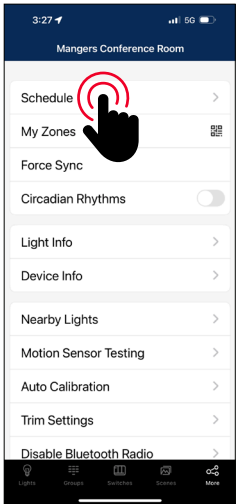
1. From the "More" page, **press "Schedule"**.

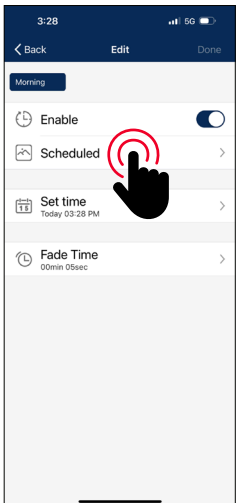**2. Select the "+"** in the upper right corner.

3. Type in a name for the schedule.
4. Press "OK" to continue.
5. 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, Groups, or Scenes

1. On the Edit screen of a selected schedule, **press "Scheduled"**.
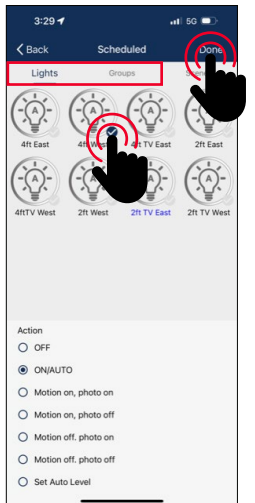
2. Choose between "Lights", "Groups", or "Scenes".
3. Select one light/group/ scene to schedule.
4. Press "Done" to continue.

Set the Schedule's Date and Time

1. On the Edit screen of a selected schedule, **press "Set time"**.

2. Choose preferred date for the schedule.
3. Choose preferred time for the schedule.
4. Press "Done" to continue.

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SCHEDULES

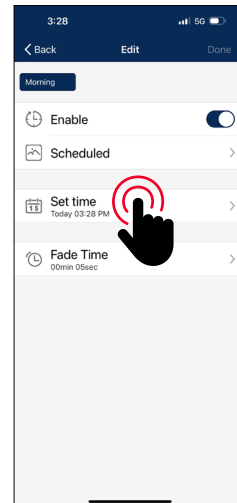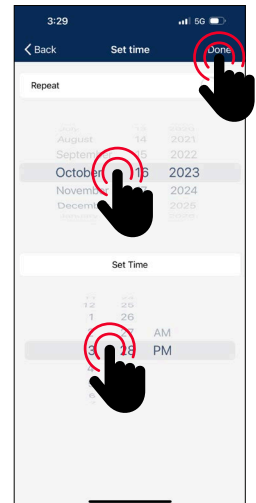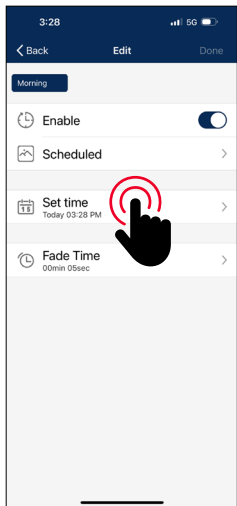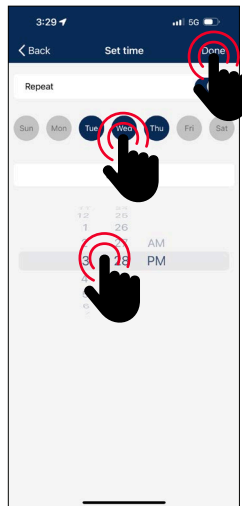## Set a Repeating Schedule

1. On the Edit screen of a selected schedule, **press "Set time"**.
2. Select to enable the Repeat switch.

3. Choose which days of the week you want the schedule to repeat.
4. Set desired time for the schedule.
5. Press "Done" to continue.

Set Fade Time for a Schedule
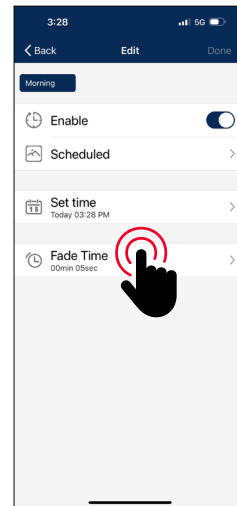
1. On the Edit screen of the selected schedule, **press "Fade Time"**.

2. Set Fade Time to a desired duration.
3. Select "Done" to continue.

To Delete a Schedule

1. From the More screen, **select "Schedule" to see a list of all schedules**.
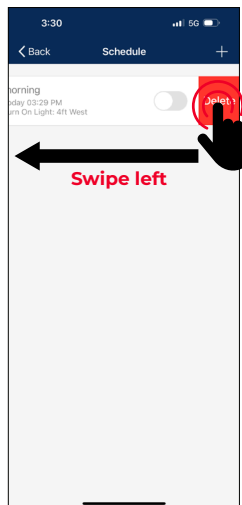
Swipe left

2. Select which schedule to delete and swipe finger to the left.
3. Press the red "Delete" button that appears.
4. Press "Delete" to confirm.

Enable or Disable a Schedule
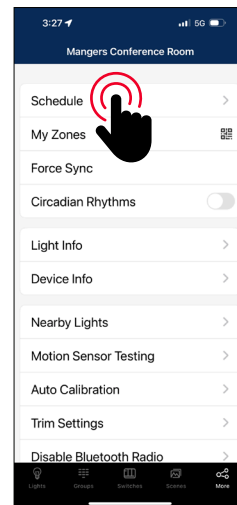
1. From the More screen, **select "Schedule" to see a list of all schedules**.
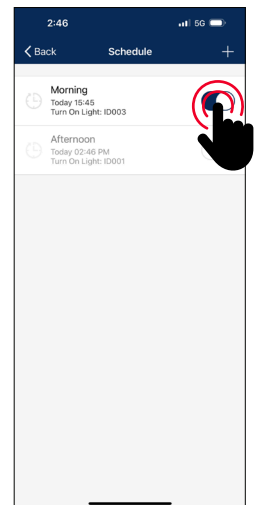
2. Select which schedule to enable/disable and select the enable/disable button on the right.

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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.
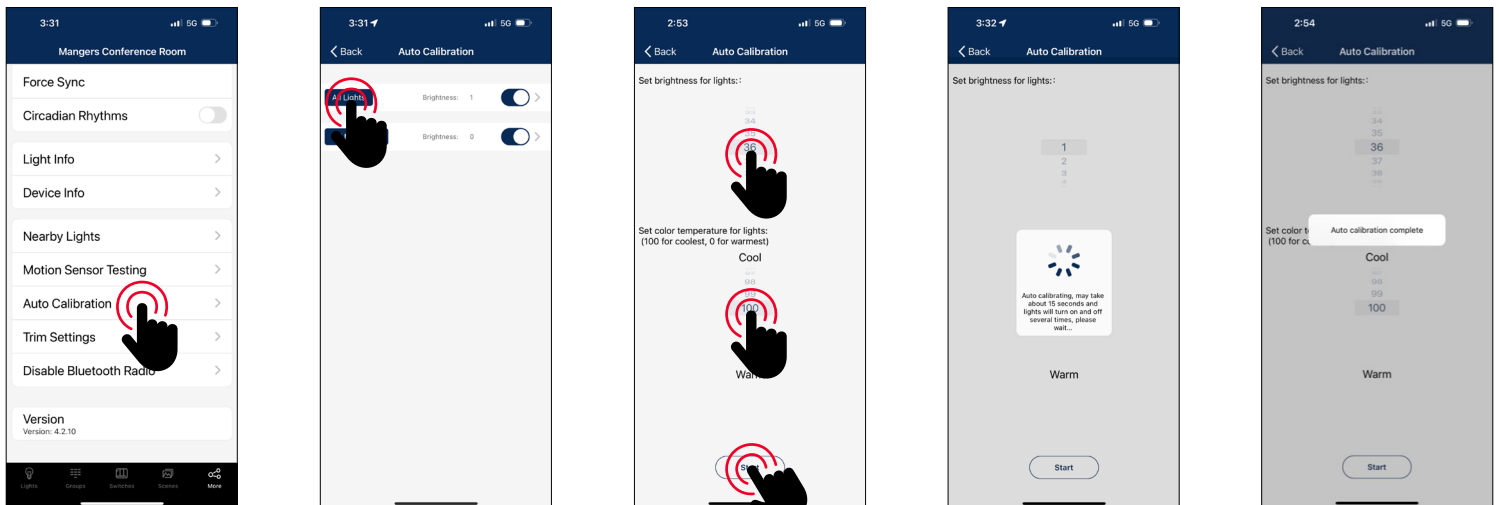
1. From the "More" page, **select "Auto Calibration"**.

2. Select a group for Auto Calibration by selecting the group name.

3. Adjust parameters as desired.

**4. Select the "Start" button** to start Auto Calibration.

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AUTO MODE

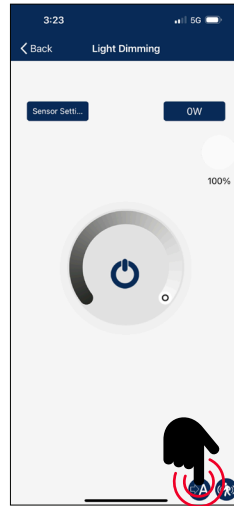## Set Auto Mode Using Manaul Setting

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.
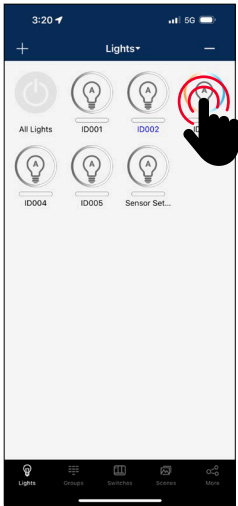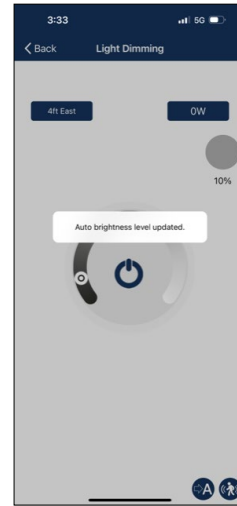

1. On the Lights page, **select and hold a light icon to access the "Light Dimming" settings**.
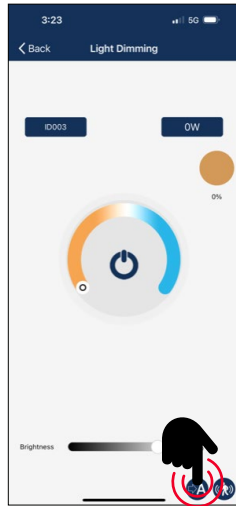
2. Adjust the dimming levels and color temperature as desired.
3. Enable Auto Mode by pressing the Auto button in the lower right.

4. A confirmation will appear that the Auto Mode brightness level has been updated.
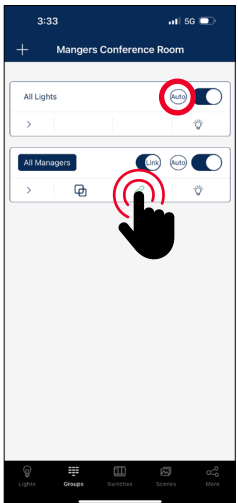
It is also possible to set a group to Auto Mode from the Groups page, using the Auto button to the right of a group name.

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.

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ADDITIONAL SETTINGS

Checking Lights, Groups, and Scenes Information

From the More page, **the Light Info tab will display a list of all of the information** for lights, groups and scenes in a zone.
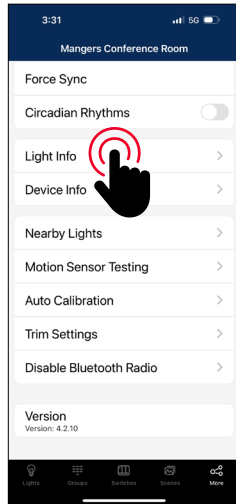
1. From the More page, **select on "Light Info"**.
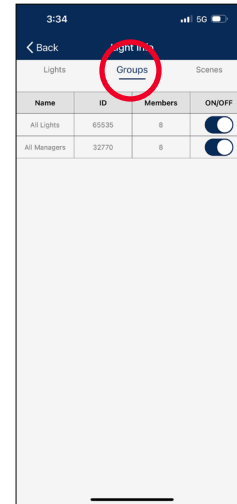
2. Switch between Lights, Groups, or Scenes to display the desired information.

To Check Nearby Lights

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.
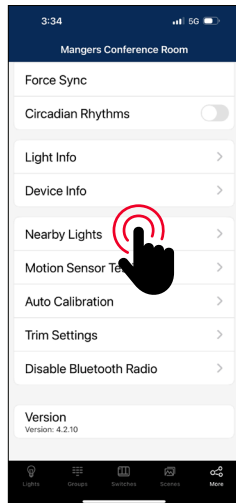
1. From the More page, **select "Nearby Lights"**.
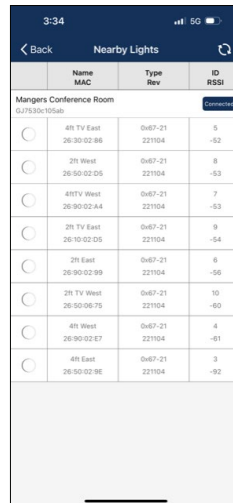
2. Press the Refresh button if lights don't show up.

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ADDITIONAL SETTINGS

Circadian Rhythms

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.

Motion Sensor Testing

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.

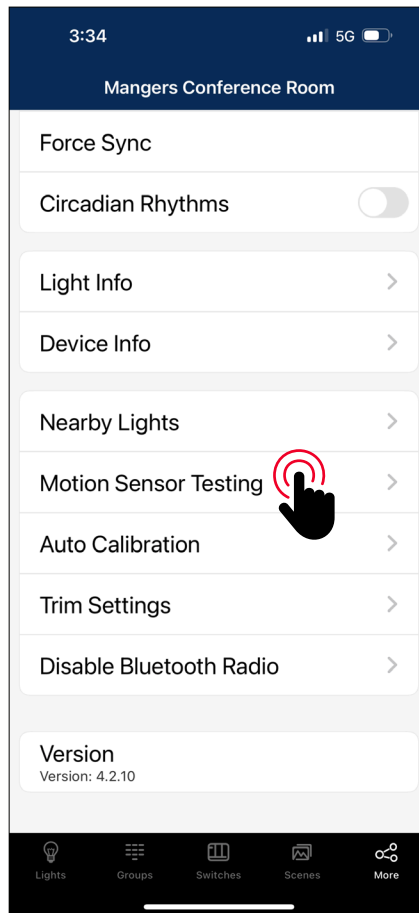**3:34** ·ıll 5G

Mangers Conference Room

Force Sync

Circadian Rhythms

Light Info

Device Info >

Nearby Lights >

Motion Sensor Testing >

Auto Calibration >

Trim Settings >

Disable Bluetooth Radio >

Version
Version: 4.2.10

Lights   Groups   Switches   Scenes   More

3:34 ·ıll 5G

Mangers Conference Room

Force Sync

Circadian Rhythms

Light Info >

Device Info >

Nearby Lights >

Motion Sensor Testing >

Auto Calibration >

Trim Settings >

Disable Bluetooth Radio >

Version
Version: 4.2.10

Lights   Groups   Switches   Scenes   More

3:35 ·ıll 5G

‹ Back   Motion Sensor Testing

Motion Sensor Test： All Lights
Tap to start testing

Motion Sensor Test： All Managers
Tap to start testing

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1. From the More page, **select the enable/ disable button** next to Circadian Rhythms.
2. Enabling Circadian Rhythms will automatically sync color temperature across all color tunable lights in Auto mode.

1. From the More page, **select "Motion Sensor Testing"**.
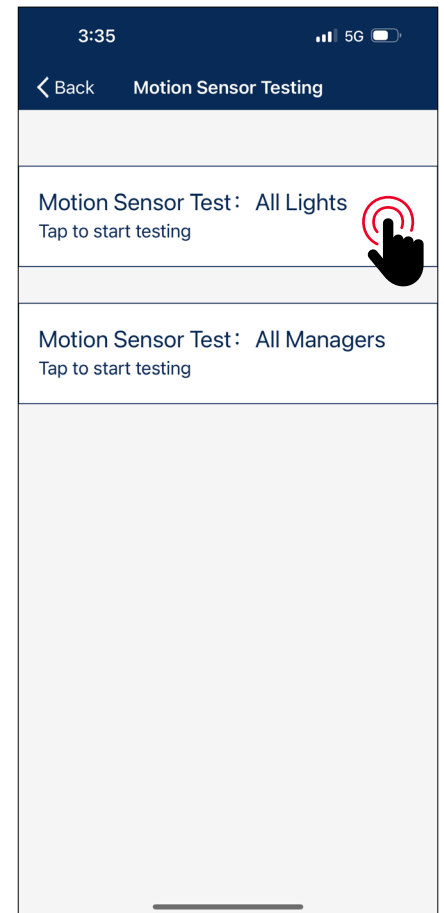
2. Select to start the test. Lights with motion sensors should turn off as soon as the test is started.
3. Walk around to test the sensors and trigger the lights to turn on. Please wait for 6 seconds to trigger the sensor.

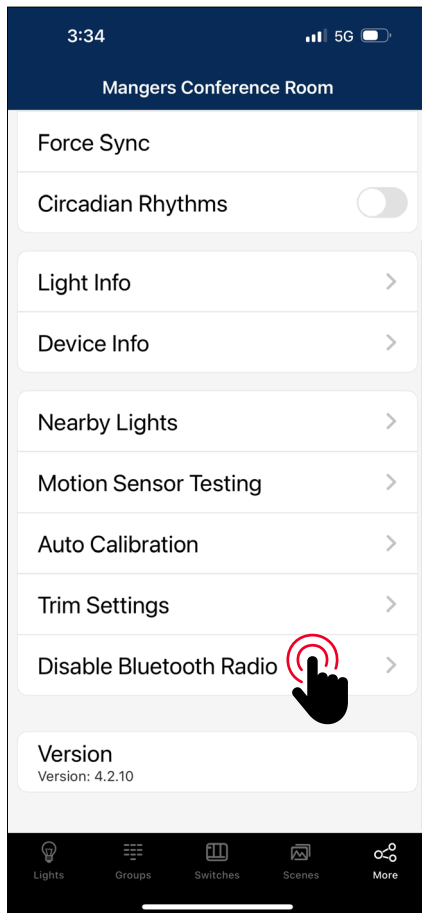TRACE✷LITE
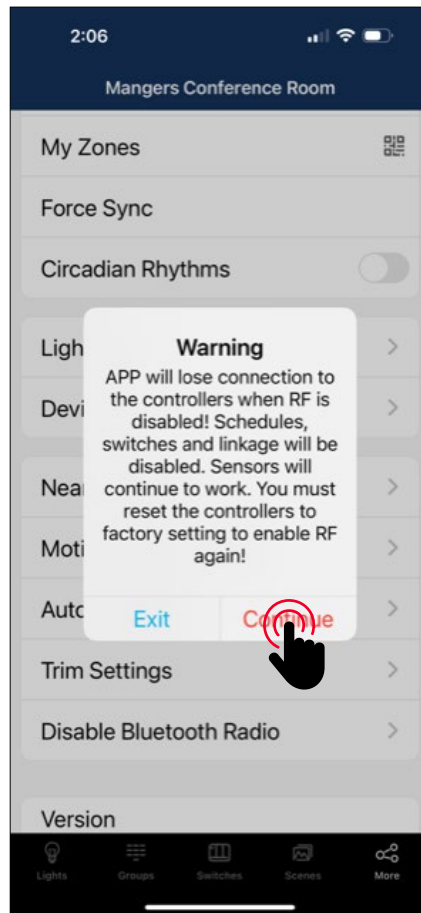commercial & industrial lighting

ADDITIONAL SETTINGS

To Disable Bluetooth Radio

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.

1. From the More page, **tap "Disable Bluetooth Radio"**.

2. A warning dialog box will appear. **Select "Continue" to accept**.
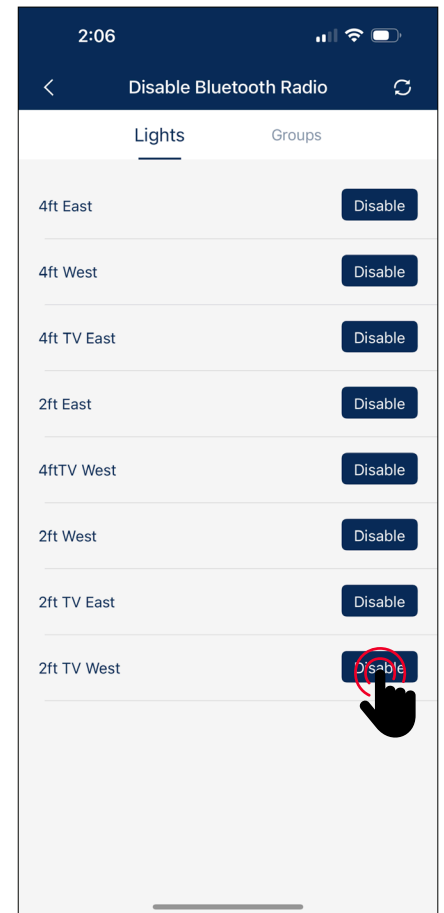
3. Select which Lights or Groups, to disable their bluetooth connection.
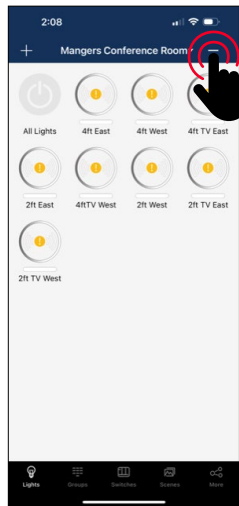**4. Press "Disable"**. The app will automatically refresh and sync settings.
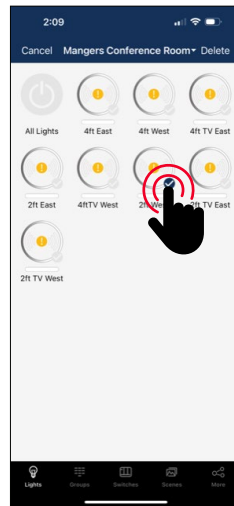
RESTORING FACTORY SETTINGS

There are two ways to restore factory settings for the lights.
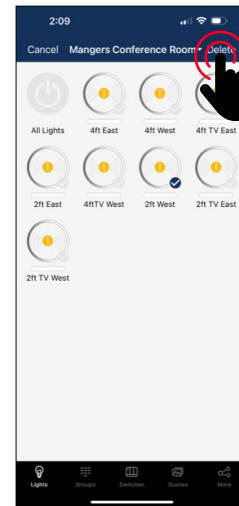
Restore by Deleting Lights

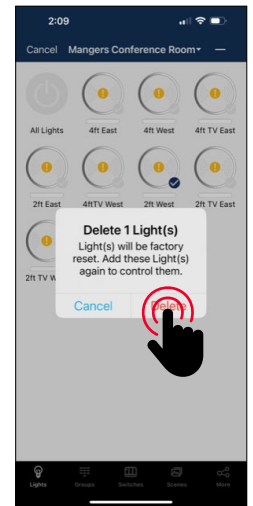**The first way is by deleting lights from the app**. This is the easiest way.

1. From the Lights page, **select the "-" button** in the upper right corner.

2. Select the check for each light that you want to delete and reset.

3. Select the "Delete" button in the upper right corner to delete and reset all selected lights.

4. Select "Delete" in the dialog box to confirm.

Restore by Power Reset

The second way to restore factory settings is to do the following power reset sequence:

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

Models: LE-MS3-AUX-HB1, LE-MS2-HB1, LE-MS1-HB1

Motion Sensor: On

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%

Sensor-Ready Controllers*

Model: LE-C1

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%

* Note: Controllers without integrated sensors, may later connect to Eco-Sensors.

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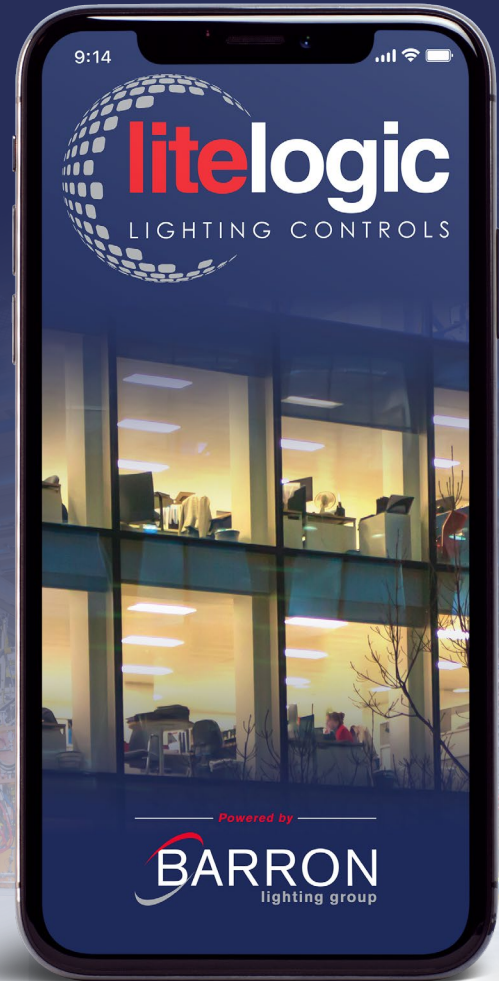
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