DOMINO™

NETWORKED LIGHTING CONTROLS



USER GUIDE

SATCO® | NUVO®

DOMINO

NETWORKED LIGHTING CONTROLS

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Download the DOMINO APP

ANDROID

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IPHONE

Available on the App Store

IPAD

Available on the App Store

System Capabilities

Capacity Limits

The following chart provides the capacity limits of the Domino NLC platform:

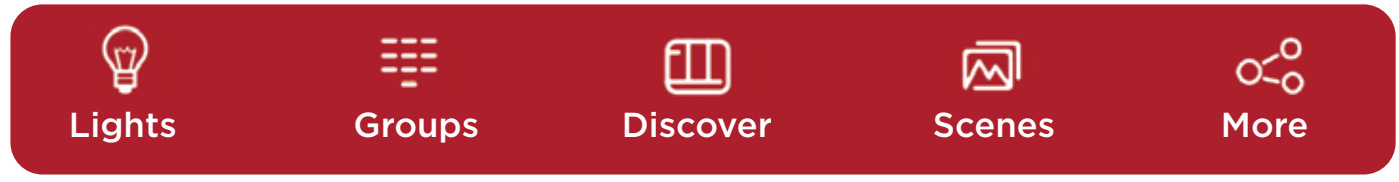
Luminaires	Up to 100 lights (nodes) per zone. Unlimited zones available with each zone having its own sharable QR code with commands and setting info assignable for administrative or user level.
Luminaire / Group	A light can be a member of up to 20 groups.
Scene	Up to 32 scenes can be set to a light. 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.***

How to Navigate the App

APP Navigation

Domino's NLC 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 you to view and control individual lights.

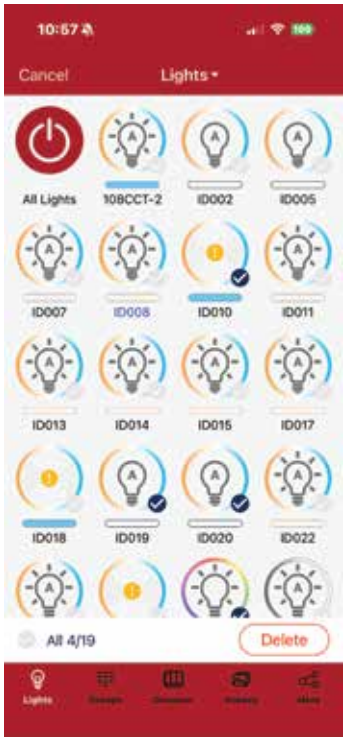
Groups
allows you to create and manage groups.

Discover
features the option to select "switches", which displays switches that are connected to the app. It also allows you to view/edit switch controls.

Scenes
allows you to create and manage scenes.

More
allows you to view information for Schedules, Zones, Lights, Devices, and other additional settings.

App Navigation, continued



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.

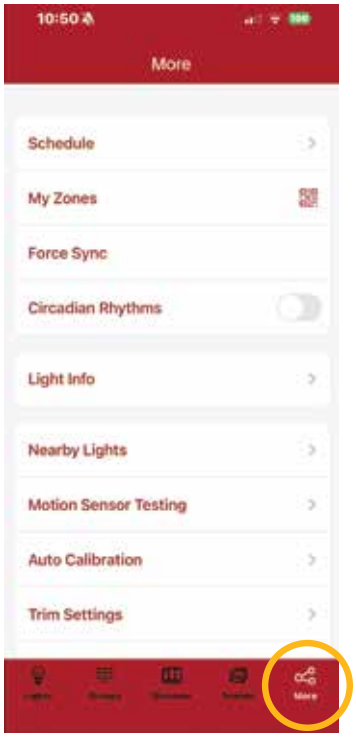
E. Offline: Controller is most likely either not getting power or is out of range of the mesh network.

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 available within the app.



Schedule
Set a schedule for individual lights, groups, and/or scenes

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

Force Sync
Sync data and settings across devices

Circadian Rhythms
Enable or disable Circadian Lighting

Light Info
Enable or disable Circadian Lighting

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

Nearby Lights
See a list of all online lights nearby

Motion Sensor Testing
Test settings for motion sensors

Auto Calibration
Auto calibrate brightness and temperature of lighting groups

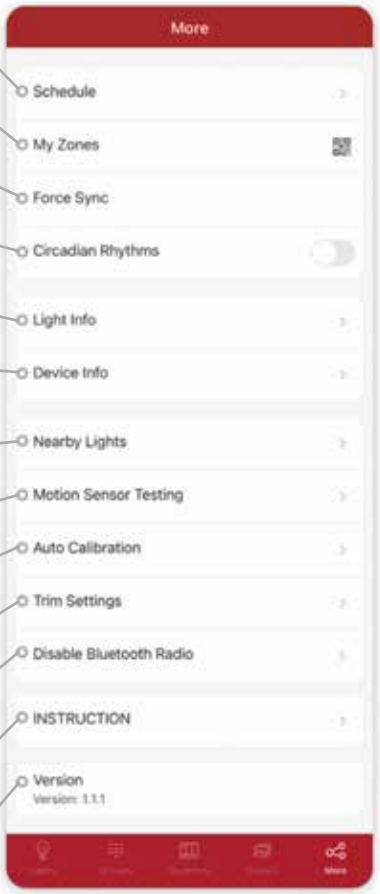
Trim Settings
Adjust trim settings of lights or groups

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

Instruction
Quick link to the app commissioning guide for instructions

Version
Current app version

(Android App shown)



The following commissioning procedure is recommended:

PREPARATION WORK:

a. Define the Control Intent Narrative (CIN), and Sequence Of Operations (SOO)

b. Install Lights and Test Power for Each

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

SET LIGHTS WITH SENSORS:

a. Set Sensor Parameters

b. Configure Light Linkage Levels

c. Set Auto Light Levels

DELIVER PROJECT:

a. Share QR Codes

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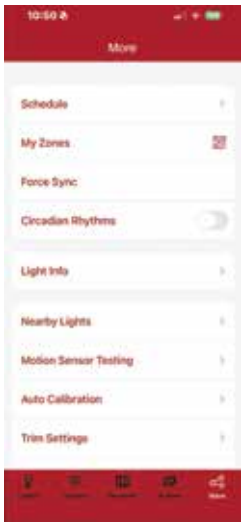
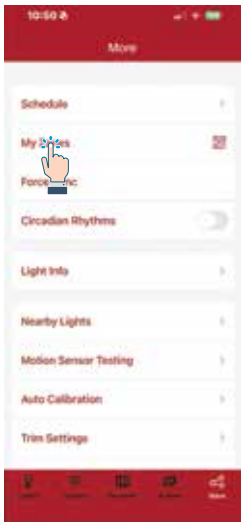
Zones

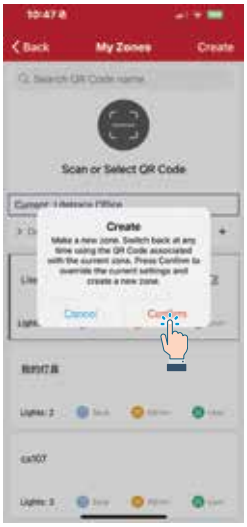
Name Project and Create Control Zone



1. Start the Domino APP and select the **More** page.



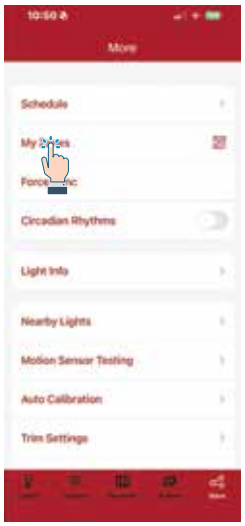
2. Select the **My Zones** button



3. Select **Create** in the top-right, then select **Confirm**.



4. Input the name of the Zone/QR code, then select **OK**.



5. All zones can be found in the **My Zones** list allowing you to switch between them.

Name the Project and Create the Zone

- **Important to select "OK" when mobile device prompts you for permission to access your photo library.**
- **Tips and Notes:**
  - 100 nodes max per Zone (switches not included in count)
  - Be sure to connect to internet during process to save the QR code with settings

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 the screen to show the 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, and a blinking light will confirm a successful connection.



7. Select the **Back** button to return to the Lights page.

8. You can then confirm that all lights have been added, and successfully connected!

Tips and Notes:

- **If possible, only energize devices you want to add to limit radio traffic and to simplify the commissioning process.**
- **If there are visible devices NOT added to the Zone, move closer to the devices to improve signal strength.**
- **Your phone's antenna and proximity to the Bluetooth devices determines the the signal strength.**
- **Adding a Domino Signal Booster accessory can improve signal strength.**
- **Apple (iOS) mobile devices typically have a stronger Bluetooth antenna than Android devices and MAY detect devices better.**
- **Once Bluetooth devices are added to the Zone, other mobile devices with the app have no access to the Bluetooth devices unless the QR codes are shared later.**
- **Devices will be visible in the APP only if you are within range of the Bluetooth mesh network (or any node belonging to the mesh).**

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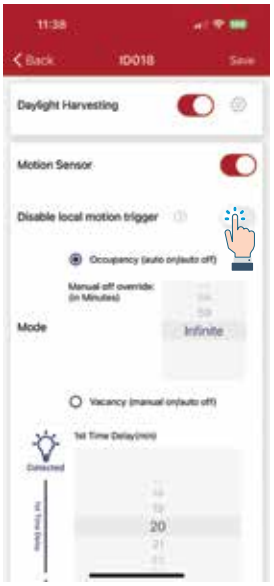
Create Sensor Settings



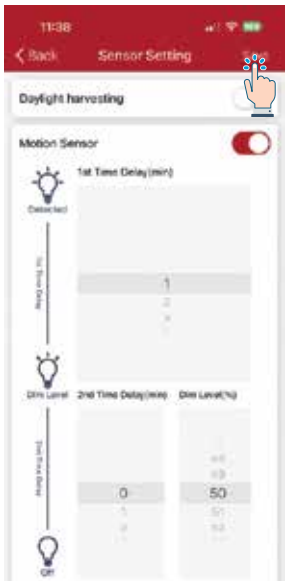
1. From the **Lights** page, do an extended press and hold on a light's icon to open the **Light Dimming** settings page.



2. Select the **Sensor Settings** icon in the lower right corner.



3. Enable or disable **Motion Sensors**, and set levels as desired.



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

Tips and Notes:

Default setting for most devices:

- Daylight Harvesting = OFF (for devices that feature Daylight Harvesting)
- T1 = 20min
- T2 = 1min
- Dim level = 50%

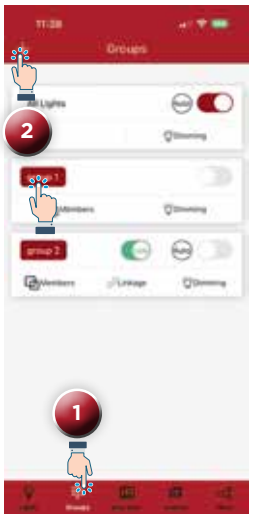
There are two working modes of motion sensors:

- Occupancy mode: Auto turns ON when motion is detected and auto turns OFF when T1/T2 timeout.
- Vacancy mode: Auto turns OFF when T1/T2 timeout, lights must be manually turned ON with switch.

T1 and T2 time delays may be set to infinite to prevent lights from turning OFF.

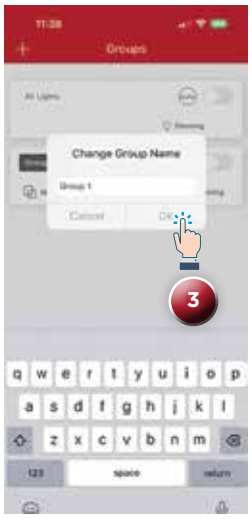
Groups

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:

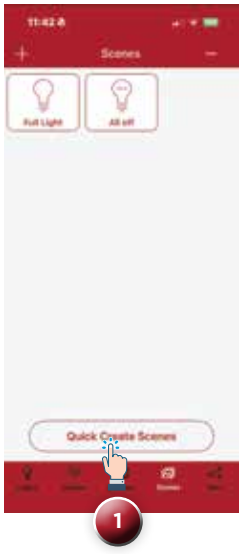
- **All:** All lights are shown.
- **Member:** Only lights added to at least 1 group are shown.
- **Ungrouped:** Only lights that have NOT been added to a group are shown.

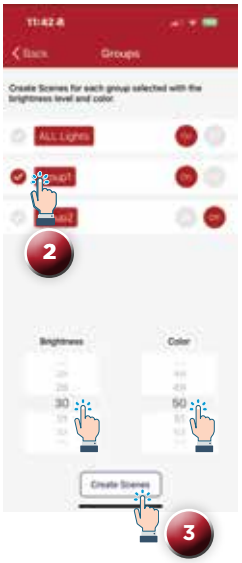
6. After all Lights have been selected, **press Save** to save the Group.

Tips and Notes:

- Devices must be online to be added to a group.
- Luminaires within the group will flash when they are successfully added to the group.
- It is suggested that the application area is grouped by space within a Bluetooth network range.
  Example: Private Office = one group. Name groups to correspond with building room/area naming.
- Linkage means the light dimming level for the luminaire is activated by motion from a device in the same group.
- Be sure to activate Auto mode (select “A”) and Save the settings for the dimming level and motion settings.
- Use Group settings to make commissioning quicker. Select Save when complete to override individual light settings.

Quick Scenes







1. Select **Quick Create Scenes.**

2. Select the **Group** to adjust **Brightness** and **Color.** Separate **ON/OFF** buttons available.

3. Select the **Create Scenes**. The newly create Quick Scene is now added to the Scenes Page.

Tips and Notes:

- **Quick Create Scenes:**
  A scene can be created for each Group with specified brightness and CCT settings (if luminaire is CCT tunable)

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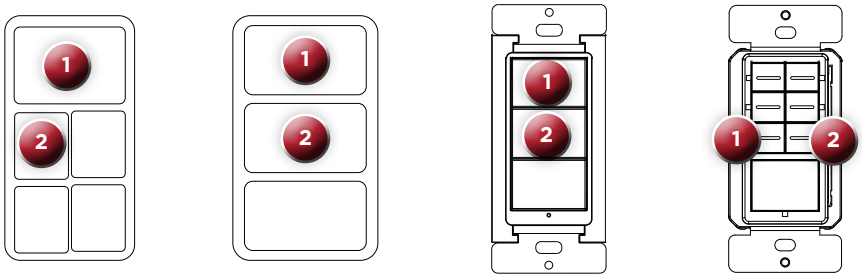
Switches





Add Switches

Each switch can be set in pairing mode by pressing buttons 1 and 2 shown below at same time for 3 seconds till blue LED light flashes. Release switch when light flashes. The app will show the switch model when paired.



1. Select the **Discover** page of the APP.

2. Select the **Switches** page of the APP.

3. Press the **+** button in the upper left corner.

4. The APP will search for nearby switches.

5. Follow the instrcutions below to pair the specific switch type.

Pair Lights To Switches





1. From the **Switches,** select the switch to assign lights.

2. Press the **Settings Button** in the upper right to access switch settings.

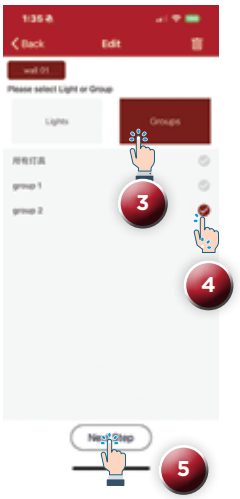
3. Select **Lights** to see a list of individual lights.

4. Select only one light to assign to the switch.

5. Select **Next Step** at the bottom to continue.

Pair Groups To Switches





1. From the Switches, select a switch to assign a group.

2. Press the **Settings** button in the upper right to access switch settings 345.

3. Select **Groups** to see a list of groups.

4. Select only one group to assign to the switch.

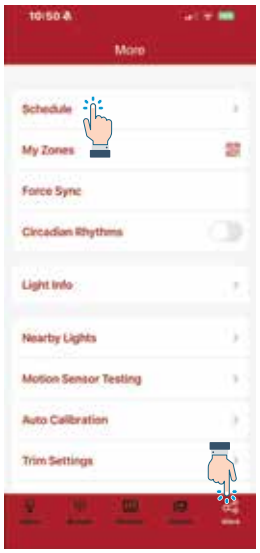
5. Select **Next Step** at the bottom to continue.

Tips and Notes:

- One switch can control one light or a group of lights.
- One light or a group of lights can be controlled by multiple wall switches.
- To add ceiling sensors, see full Domino App Instructions.

Set Schedules

Create a Schedule



1. From the **More** Page, press **Schedule.**

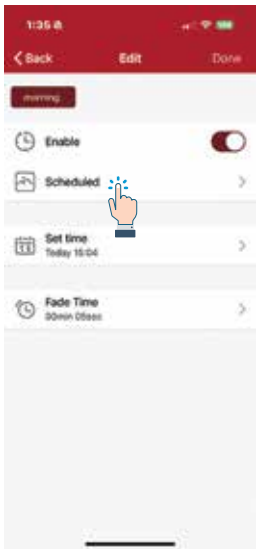


2. Select the **+** in the upper right corner.

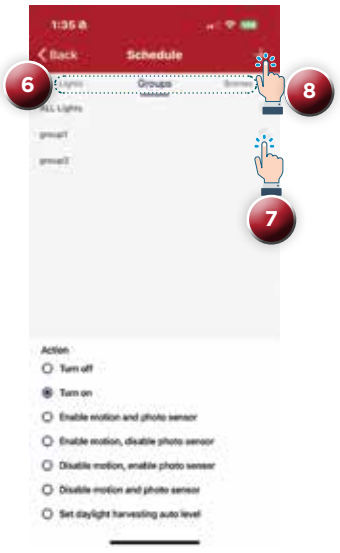


3. Type the timer name.

4. Press **OK** to continue.



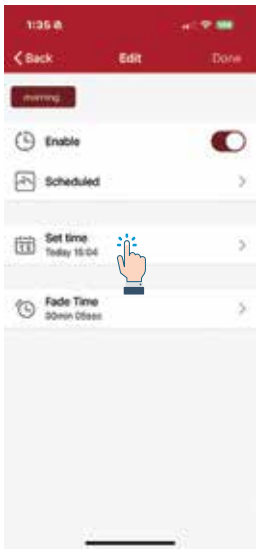
5. On the Edit screen of a selected schedule, press **Scheduled.**



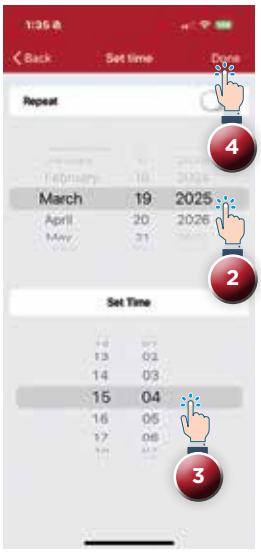
6. Choose between **Lights**, **Groups**, or **Scene**.

7. Select one **Light/Group/ Scene** to schedule.

8. Press **Done** to continue.



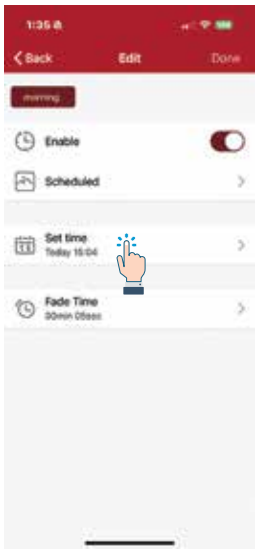
1. Select the Edit screen of a selected schedule, press **Set Time.**



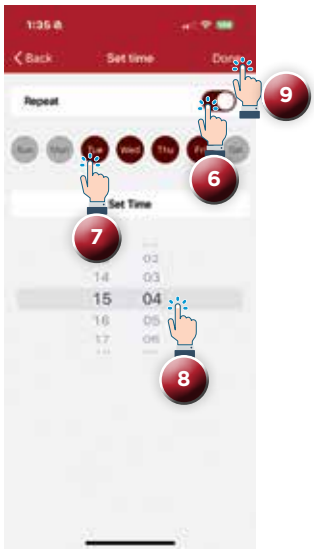
2. Choose preferred date for the schedule.

3. Choose preferred time for the schedule.

4. Press **Done** to continue.



5. Select the Edit screen of a selected schedule, press **Set Time.**



6. Select to enable the **Repeat** switch.

7. Choose which days of the week you want the schedule to repeat.

8. Set desired time for the schedule.

9. Press **Done** to continue.

Tips and Notes:

The Bluetooth devices have no internal time clock. A real Time Clock accessory such as the Domino CR01 device must be used (One device per Zone) to maintain schedules during power outages.

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Restore Factory Settings

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.

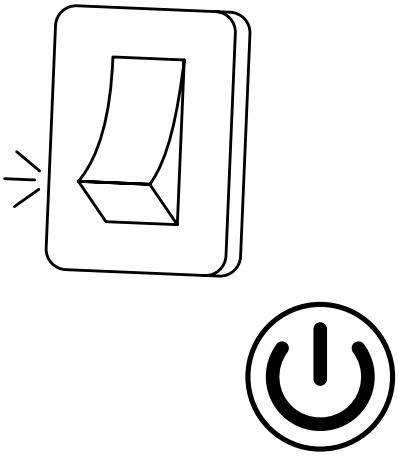
2. Turn on lights for 8 seconds; then turn the power off for 10 seconds.

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.



Resources & Support

Can we attach Domino sensors into anyone's fixtures?
Typically not – the 87-401 is an exception as it is a "Bolt-on" Domino sensor and control node which can switch and dim a connected 0-10V dimmable fixture, but otherwise fixtures need to be Domino capable in order to use our sensors.

Is Domino able to control other manufacturers lighting fixtures?
Yes, Domino has wirelessly connected control modules that can dim all standard 0-10V and phase dimmed luminaires, from most any manufacturer from 120-347V.

Is Domino compatible with other lighting control systems?
No, Domino is supported as a singular closed system for lighting controls and does not work with other manufacturer's control systems.

Does Domino work with Starfish?
No, Domino is a completely separate commercial based lighting control system that works independently from Starfish.

Is Domino a good choice for residential lighting control applications?
No, Domino is primarily a commercial grade lighting control system designed to meet all energy code requirements. (Use Starfish for residential applications).

Why do we need commissioning?
Domino control components designed to provide a working system solution **MUST** be commissioned / programmed in order to work and function as intended. Domino components that are not commissioned properly **WILL NOT WORK**, so commissioning is required.

Does Domino need a WiFi connection to work?
No, Domino can be completely commissioned on a local level with no WiFi or cloud connection as the communications protocol is Bluetooth Mesh **(another 2,4 GHz frequency).**

How much does Domino cost – are we competitive?
Yes, we are very competitive with all major lighting control solutions in the market. Our wireless system greatly reduces labor install costs and reduces installation materials required. Our luminaire program with embedded sensors simplifies the fixture install process and requires no additional labor to prepare the fixture connection to the control network. Additionally, no other system components such as hubs/gateways are required to enable system functionality.

What are our strategic competitive advantages?
We supply Domino fixtures with embedded sensors as one complete component vs most of our competitors who supply "sensor-ready" fixtures which I like to refer to as "fixtures with holes in them". This simplifies the process greatly in terms of ordering and faster delivery. To see the full list of our competitive advantages see the Domino Sales PowerPoint.

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Notes

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