

# Quantum 3.2 Software

## User Manual





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# Quantum Vue

# Main Dashboard

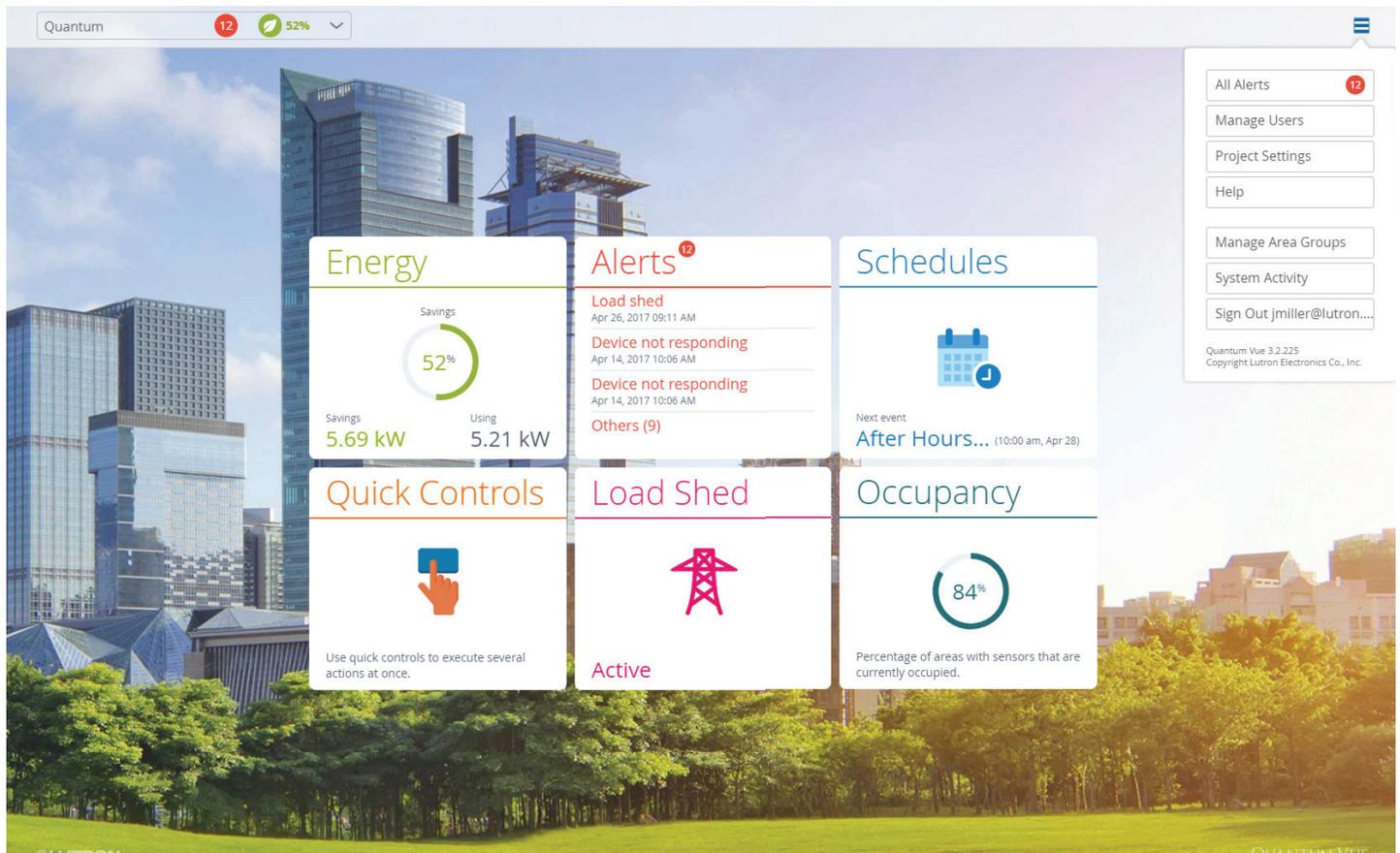


The six tiles in the center of the Main Dashboard screen allow you to:

- View system-wide energy information.
- Remain aware of system-wide alerts.
- Manage scheduled events.
- Access the Quick Controls screen.
- Access the Load Shed screen.
- Access the Occupancy screen.

The **Navigation** drop-down menu, located in the left-hand corner of the menu bar, allows you to navigate to other areas.

# Main Dashboard (continued)

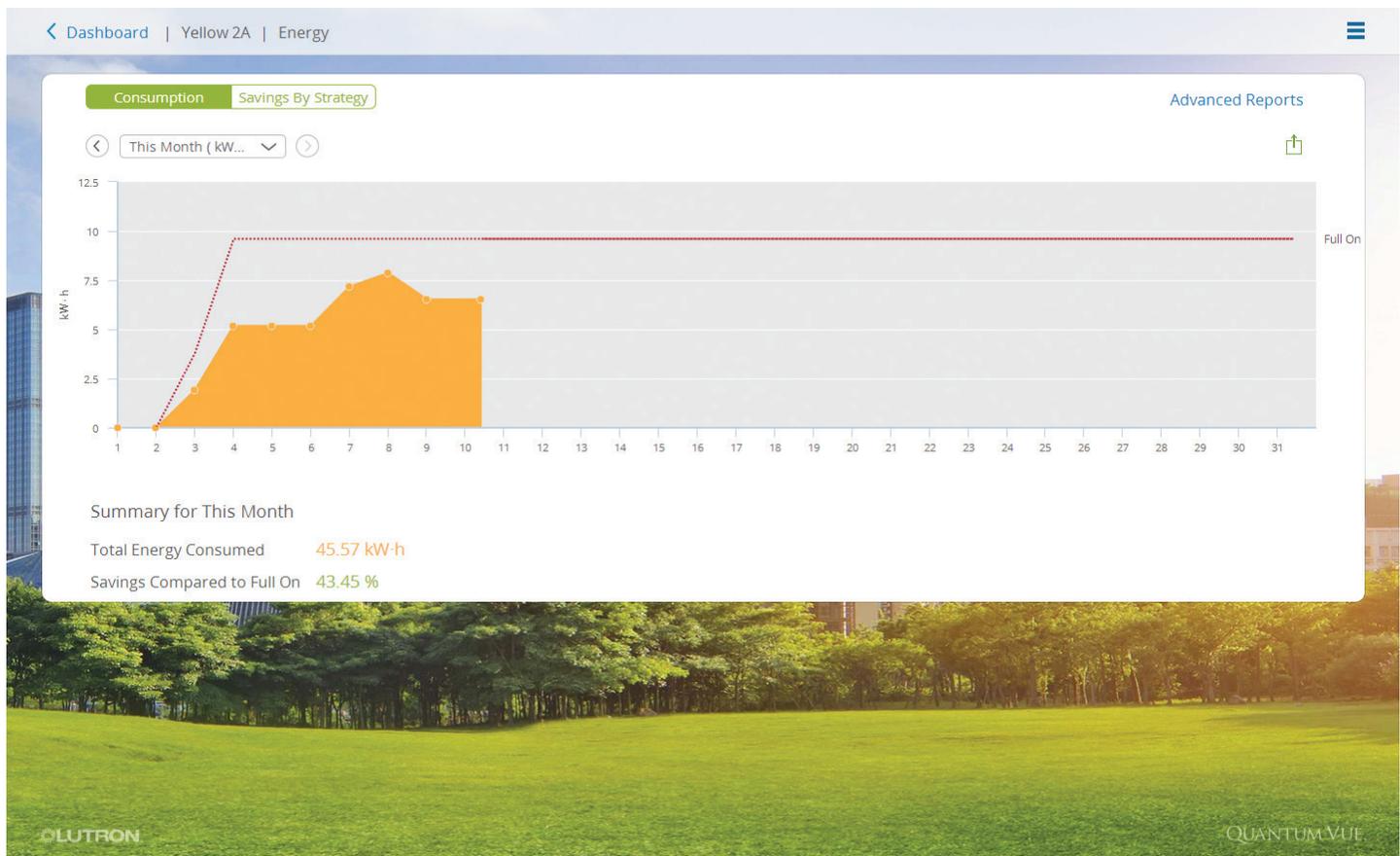


The icon , located in the right-hand corner of the menu bar, allows you to view and customize various project wide and administrative settings.

This menu is accessible from any screen.

- **All Alerts:** pg. 5
- **Manage Users:** pg. 17
- **Project Settings:** pg. 18
- **Help** – Provides contact information to get help with the software
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- **System Activity:** pg. 21
- **Sign Out** – Logs out the currently signed in user

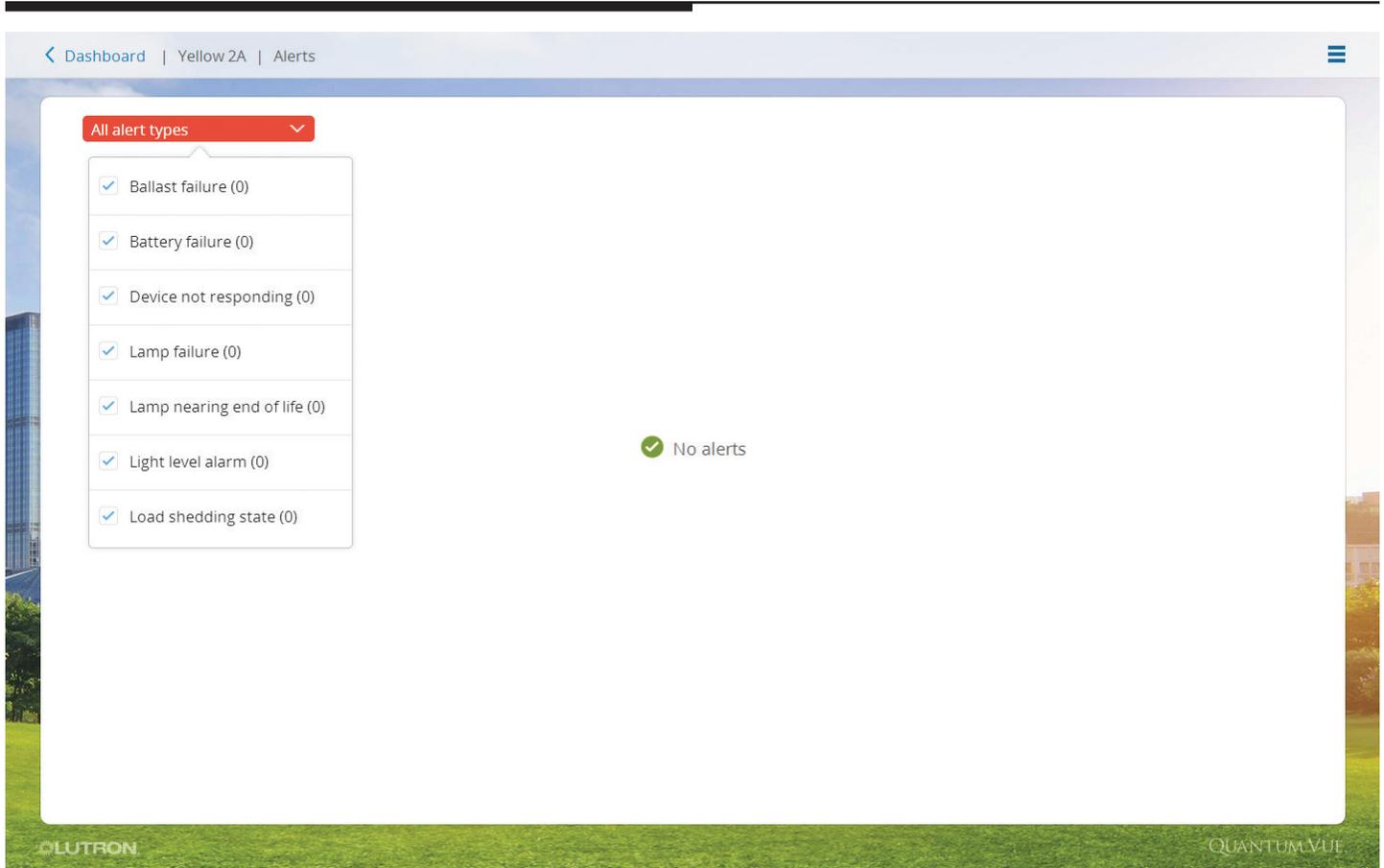
# Energy



Select the **Energy** tile from either the Main Dashboard or the Area Dashboard to open the **Energy** detail screen. The interactive screen provides energy-usage and power-consumption data for the entire system (if navigating from the Main Dashboard) or for a selected area (if navigating from the Area Dashboard).

- Select the viewing time frame: Click on or touch the drop-down menu located in the upper left-hand section of the detail screen to choose a data-viewing time span; press the left/right arrow buttons, located on either side of the pull-down menu, to view previous months and toggle back to the current time period.
- View a savings analysis for the selected time frame based on energy saving strategies being employed: Click on or touch the **Savings By Strategy** button located in the upper left-hand section of the detail screen.
- Export data to a .CSV file format: Click on or touch the **Export** icon located in the upper right-hand section of the detail screen.
- Generate and save custom reports: Click on or touch the **Advanced Reports** link located in the upper right-hand section of the detail screen to create and save customized reports which compare multiple areas, cover custom time ranges, and measure different types of data. **Note:** The **Advanced Reports** link is also an access point for custom reports that you've previously created and saved.

# Alerts



Select the **Alerts** tile from either the Main Dashboard or the Area Dashboard to open the **Alerts** detail screen. This interactive screen provides a list of all current/open alerts in the system (if navigating from the Main Dashboard) or only in the current area (if navigating from the Area Dashboard).

- Filter the list of alerts: Click on or touch the **All Alert Types** drop-down menu located in the upper left-hand section of the detail screen.

If alerts occur while you are using the Quantum Vue software, you will receive a badge alert notification at the top of the screen regardless of the screen you are viewing. For extra coverage, configure the Quantum system to notify you of selected alerts via email; this feature is currently available from the Q-Admin software.

# Alerts Email

The screenshot displays the 'Alerts Email' configuration page. On the left is a navigation menu with tabs for Alerts, Energy, Hyperion, Email (selected), and Language & Units. The main content area is titled 'SMTP Mail Server Settings' and contains the following fields and options:

- Server name:
- Port:
- Sender email:
- Sender name:
- Mail server requires SSL encryption
- Mail server requires authentication

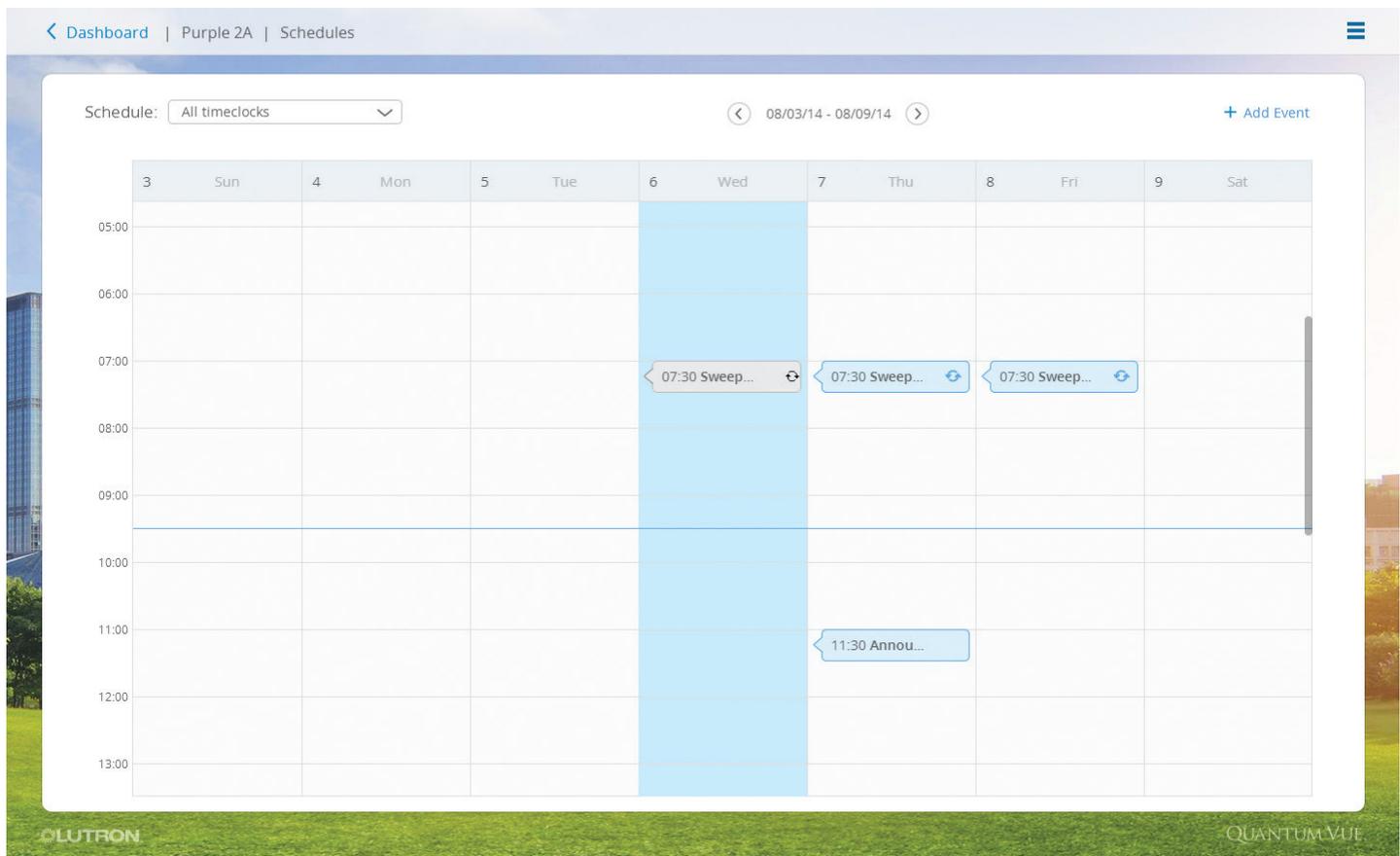
Below these settings is the 'Test Email Configuration' section, which includes a text input field and a 'Send test email' button. At the bottom right of the form are 'Cancel' and 'Save' buttons. The LUTRON logo is in the bottom left and the QUANTUM VUE logo is in the bottom right of the page.

The **Email** tab under the Project Settings dashboard is where the user can set up SMTP mail server settings. This allows the system to email alerts to users who are subscribed to receive them (see pg. 4).

- Fill in the SMTP server name, Port #, Sender email, and display name.
- If your Mail server requires SSL encryption check the box.
- If your Mail server requires authentication check the box, and fill in the Username and Password.

Once you fill out all the information, you can send a test email to verify settings.

# Schedules: Overview

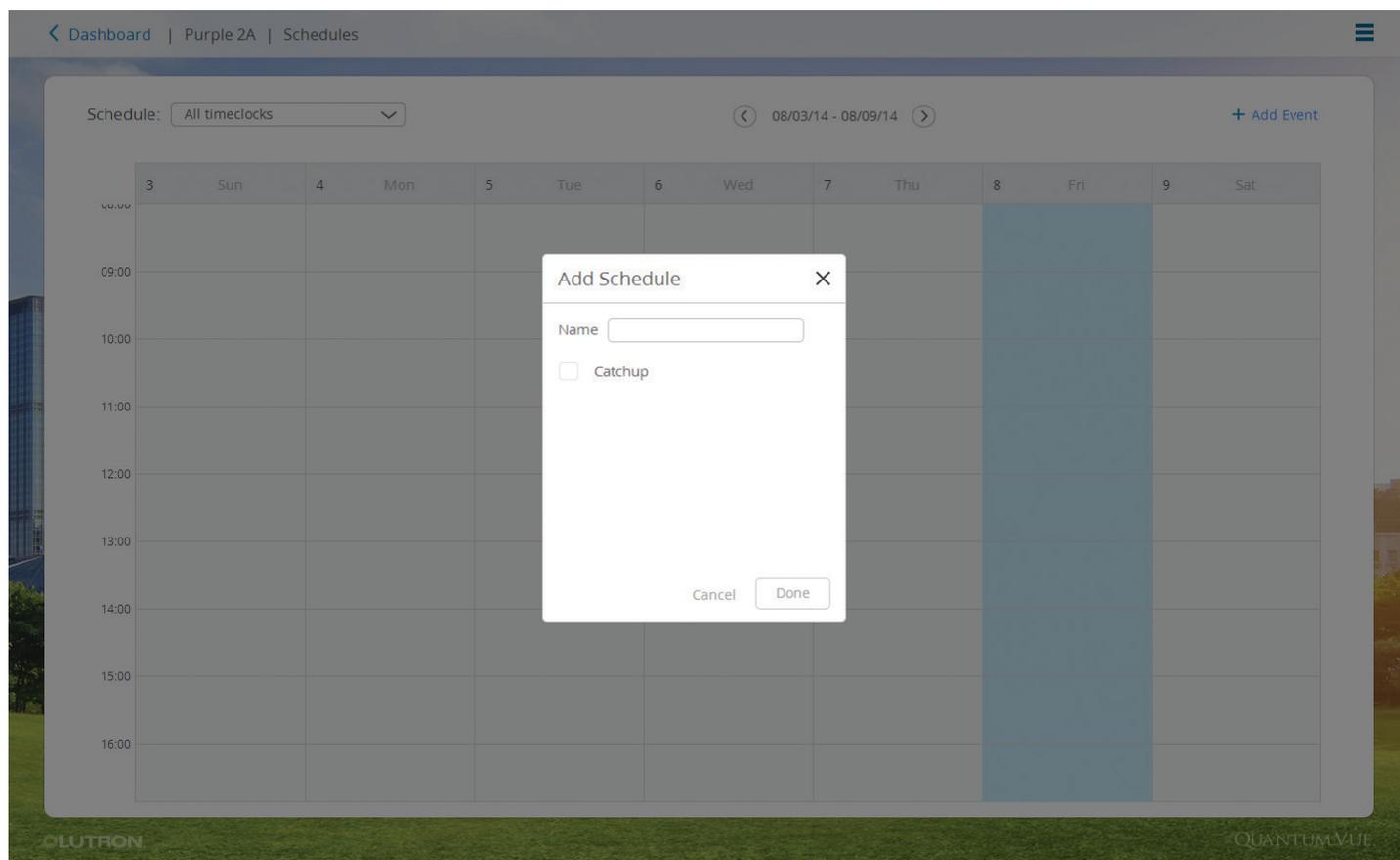


Select the **Schedules** tile from either the Main Dashboard or the Area Dashboard to view a calendar of scheduled events. All schedules and events in the system will be shown if you navigate from the Main Dashboard; schedules and events that affect only the selected area will be shown if you navigate from an Area Dashboard.

A schedule (timeclock) is simply a group of one or more events.

- View all events in all schedules: Select the **All Timeclocks** option from the **Schedule** drop-down menu located in the upper left-hand section of the detail screen.
- View events for a single schedule: Select the desired timeclock from the **Schedule** drop-down menu.
- Add a new schedule: Select **Add Timeclock** from the **Schedule** drop-down menu.
- Navigate through the calendar: Toggle the left/right arrow buttons on either side of the date range located in the upper middle section of the detail screen.
- Add a new event: Click on or touch the **Add Event** link located in the upper right-hand section of the detail screen.
- Edit an existing event: Click on or touch the desired event in the calendar; in the pop-up window, select **Occurrence** or **Series**.
  - Click on or touch **Occurrence**: On the resulting screen, click on or touch the pencil icon to change occurrence settings and timing. **Note**: Editing an event occurrence causes that event to be set apart as an event separate from the series
  - or*
  - Click on or touch **Series**: On the resulting screen, click on or touch the pencil icon to change series settings and timing; disable, delete, copy the series; test the series behavior.

# Schedules: Add Schedule



Select **Add Timeclock** from the **Schedule** drop-down menu located in the upper left-hand section of the detail screen.

- Add a new schedule: Enter the name of the new schedule in the **Name** field of the pop-up window.
- Allow Catchup: Controls whether events will be applied when the system starts back up in the event of a power failure.
  - Click on or touch **Catchup** box to check: events in the schedule will be executed in order if they were missed during a power failure condition
  - or
  - Click on or touch **Catchup** box to uncheck: the system will not retroactively execute missed events when it returns from a power failure condition.

# Schedules: Add Event

Event Name  event part of **Regular schedule** schedule

1. When

**Fixed** Sunrise/Sunset

hr : min AM

**Weekly** By Dates

Sun  Mon  Tue  Wed  Thu  Fri  Sat

Starting  Until

Except For [+Add Exception](#)

2. Behaviour

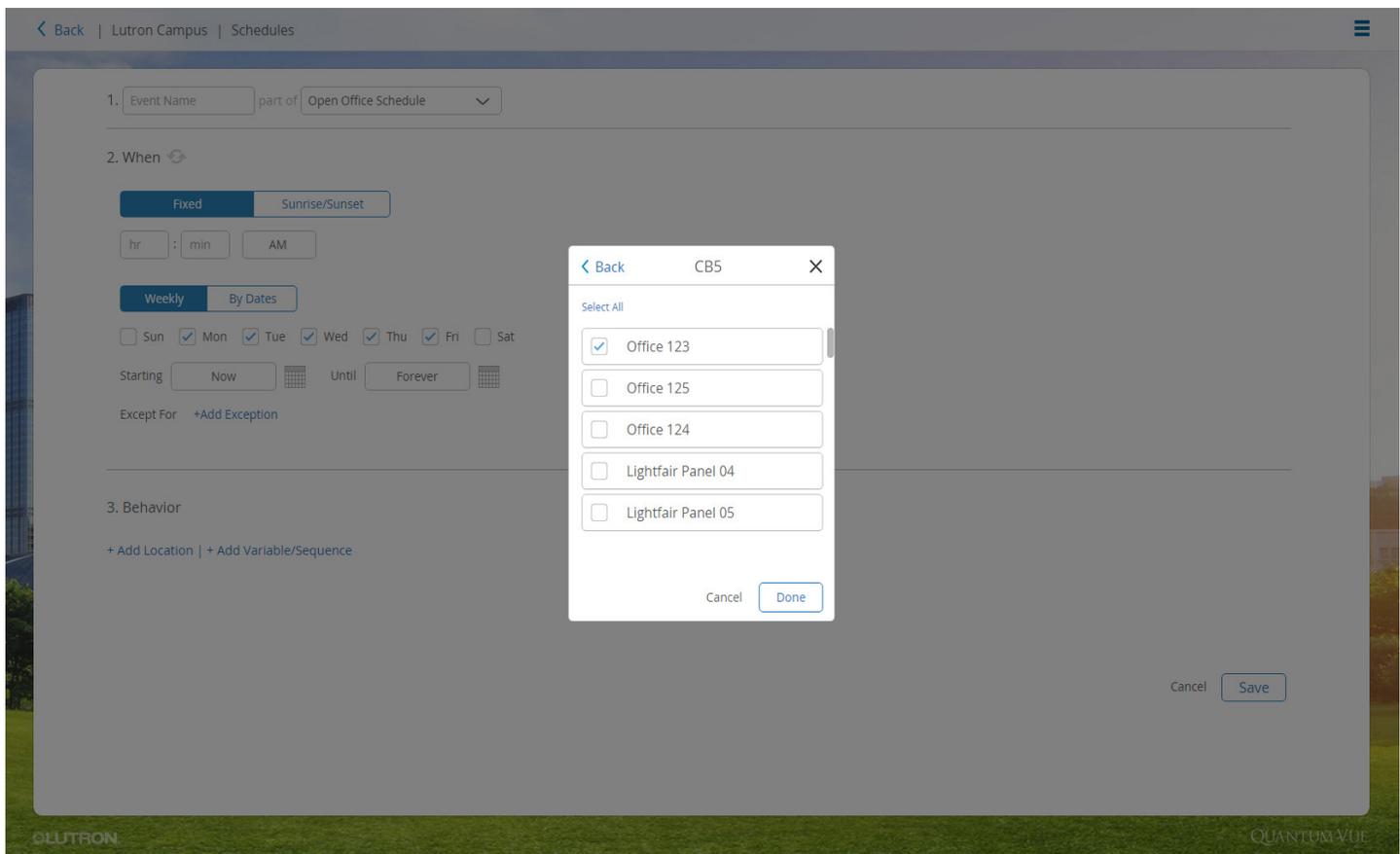
[+ Add Location](#) | [+ Add Variables/Sequences](#)

Cancel

Select the **Add Event** link located in the upper right-hand section of the calendar to open an interactive screen.

- Create and program a new scheduled event:
  1. Specify the new event in the **Event Name** field.
  2. Select the schedule which you would like the new event to be a part from the **Inside Timeclock** drop-down menu.
  3. Determine **When** the event will occur. Events can occur:
    - At fixed times (e.g., 7:30 AM)
    - or
    - Relative to astronomic conditions (e.g., 30 minutes before sunrise)
  4. Specify the recurrence conditions for an event; select a:
    - **Weekly** pattern
    - or
    - Series pattern **By Dates**
      - Create an event that only runs only one time: Click on or touch the **By Dates** button, enter the specific date for the event, deselect the **Repeat Annually** checkbox
      - or
      - Specify the start and end dates (by default, recurring events start on the earliest available day and repeat indefinitely): Click on or touch the **By Dates** button, enter the specific date for the event, keep the **Repeat Annually** checkbox selected. If there are dates in the recurrence on which you do not want the event to run, click on or touch the **Add Exception** link and specify these dates.
  5. Determine the behavior for the event (the actions that will take place in the system when the event occurs). Refer to the *Schedules: Specify Event Behavior—Location* section.
  6. When you have set all of the event parameters as desired, click on or touch the **Save** button to commit the changes to the system.

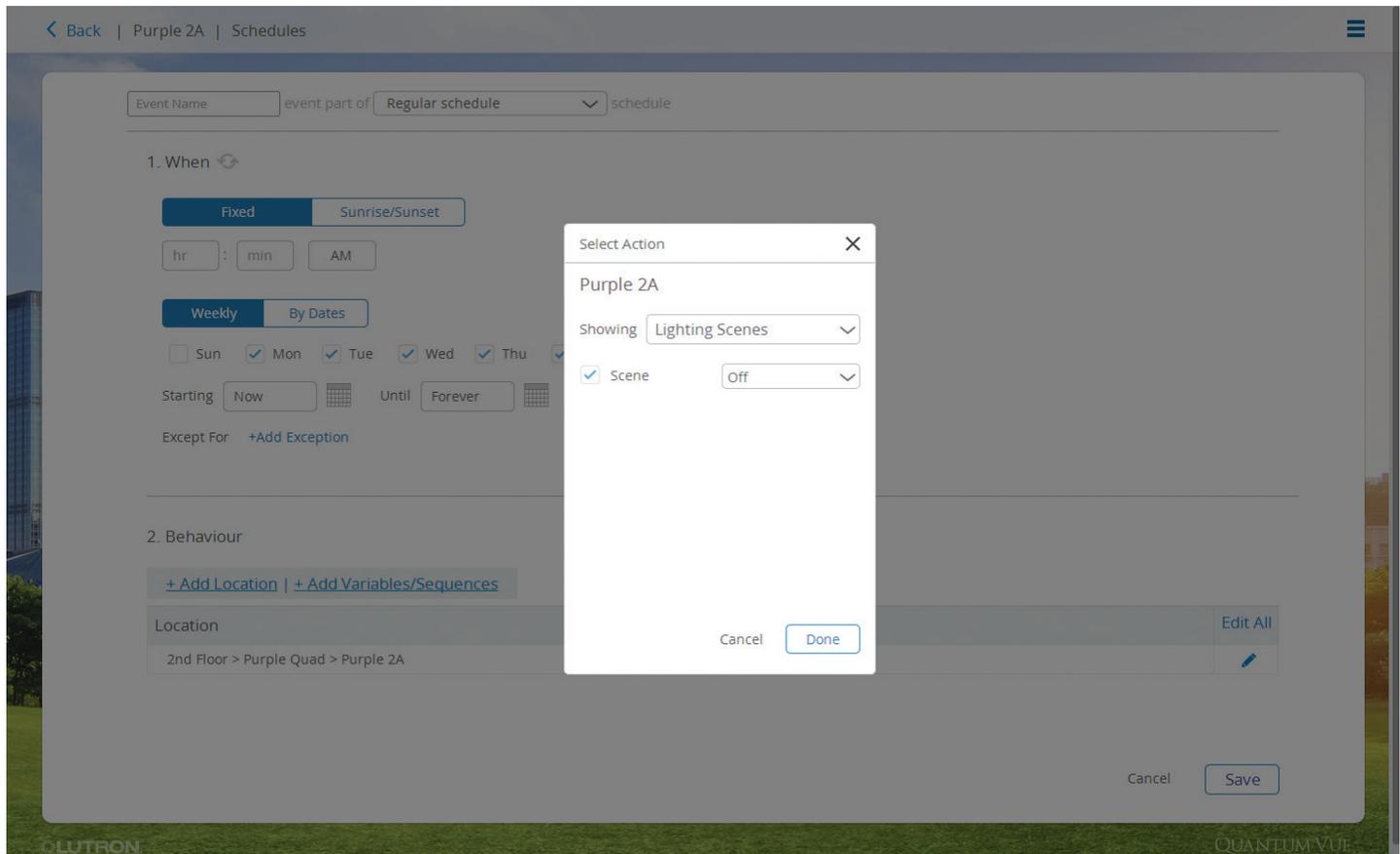
# Schedules: Specify Event Behavior—Location



Select the **Add Event** link located in the upper right-hand section of the calendar to open an interactive screen.

- To specify an event's behavior, perform the following steps in order:
  1. Click on or touch the **Add Location** link to generate a dialog box.
  2. Select one or more areas that will be affected by the action(s) you will set.
    - Use the **< Back** and **>** links to navigate between the areas in the system.
    - Each area that you have selected will be identified with a check mark.
  3. When you have finished selecting areas, click on or touch the **Done** button.
  4. Proceed to the *Schedules: Specify Event Behavior—Action* section.

# Schedules: Specify Event Behavior—Action

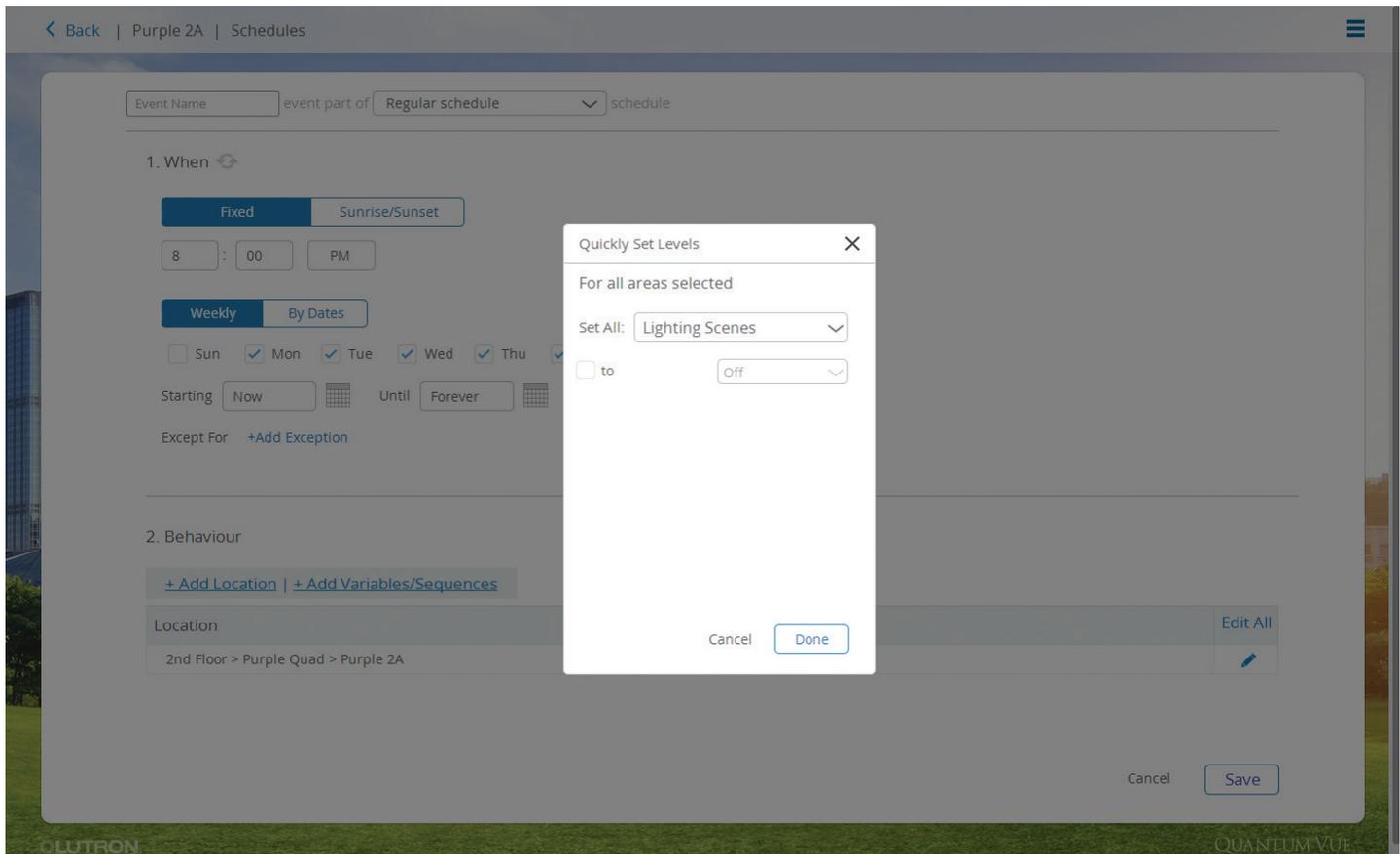


- When all desired locations have been set, specify the actions for each location:
  1. Click on or touch the **+ Add Action** link next to each location in turn.
  2. In the resulting dialog box, use the **Showing** drop-down menu to select an item.
  3. When an item is selected, the possible actions will appear below it; add a check mark to each action that you want to apply.
  4. Specify the value that you want to apply for the check-marked action (for example, if viewing **Lighting Scenes**, the action that can be performed is a **Scene** activation. Placing a check mark in the **Scene** action box enables you to select the scene that you want to activate).

You can select more than one type of action for a given location (e.g., you can select a lighting scene and adjust the occupied level).
  5. When you have finished specifying actions for a location, click on or touch the **Done** button.
  6. Repeat Steps 1–5 for each location.

**Note:** To specify actions for all of the locations in your event (instead of setting actions for each location, one at a time, as described above), proceed to the *Schedules: Specify Event Behavior—Edit All* section.

# Schedules: Specify Event Behavior—Edit All

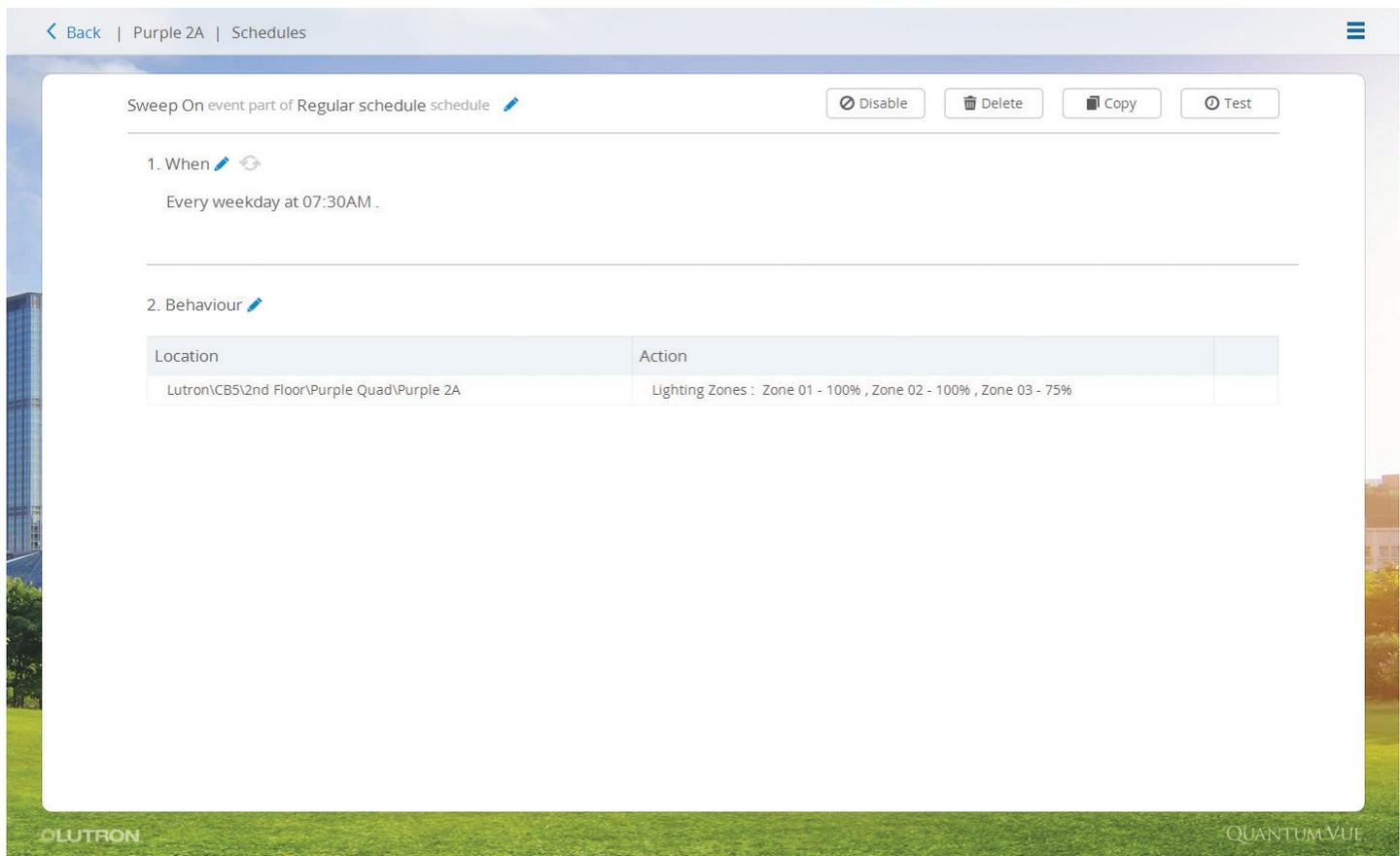


To program multiple locations to perform the same action(s) when an event occurs:

1. Click on or touch the **Edit All** pencil icon.
2. In the resulting dialog box, specify one or more actions for all of the selected locations. **Note:** The behavior of this dialog box is similar to the **+ Add Action** dialog box featured in the *Schedules: Specify Event Behavior—Action* section.

If the desired action is already specified for a selected location, the existing value will be changed to whatever you have specified in the **Edit All** dialog box; if the desired action is not already specified, it will be added.

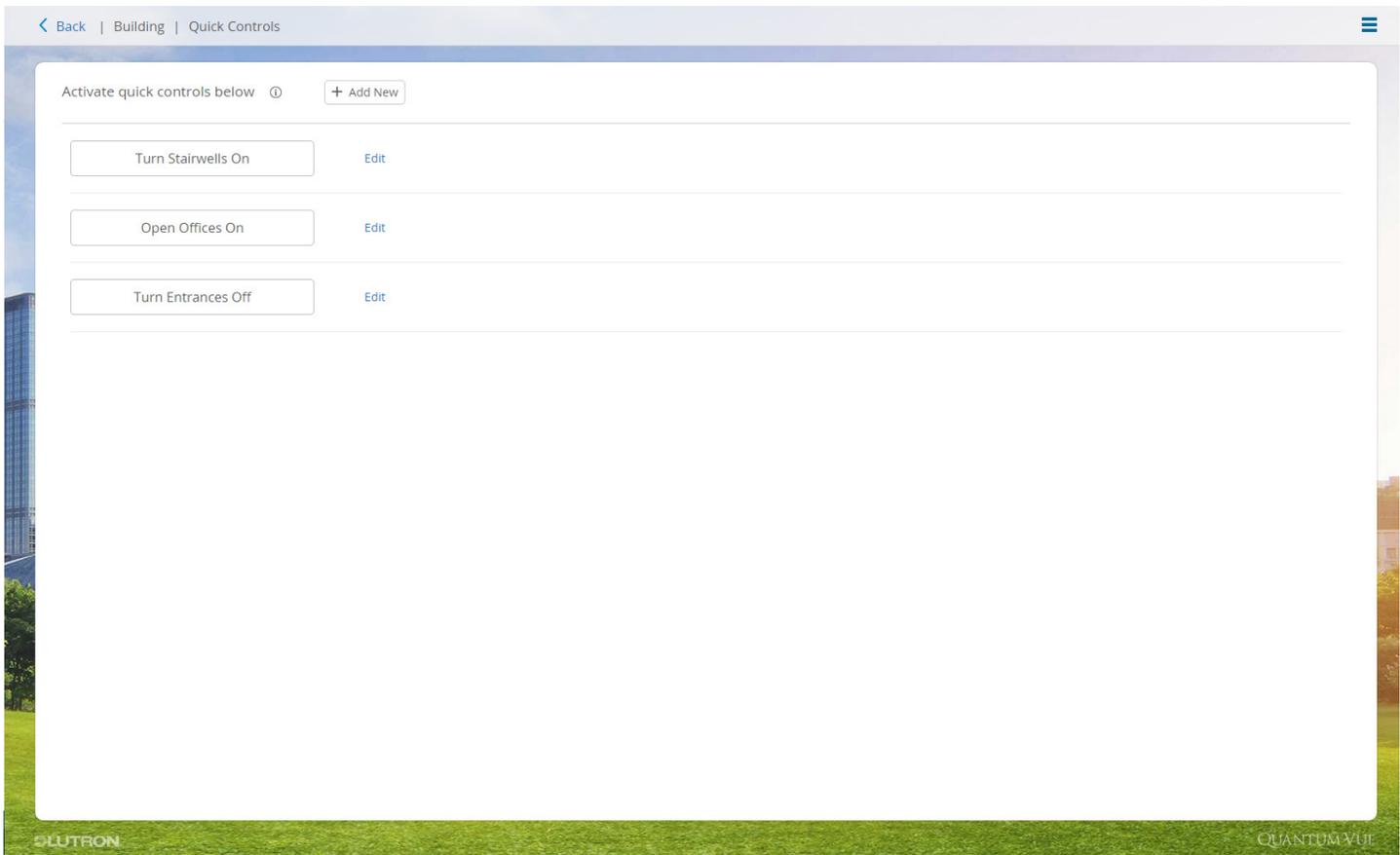
# Schedules: Edit Event



The screen generated by clicking on the event is similar to the one featured in the *Schedules: Specify Event Behavior—Add Event* section; there are three main event sections: Name and schedule, Timing, Behavior.

- Edit an event: Click on or touch the event in the main calendar. If the event is a recurring event, you will be prompted to:
  - Edit the entire recurring series
  - or*
  - Edit only the particular occurrence you selected, in which case the event will be set apart as an event separate from the recurring series.
- Modify a section: Click on or touch the pencil icon. Follow the same procedure described in the *Schedules: Specify Event Behavior—Add Event* section. Click on or touch the **Save** button to commit your edits to the system.
- Disable an event: Click on or touch the **Disable** button located in the upper right-hand section of the detail screen.
- Delete an event: Click on or touch the **Delete** button located in the upper right-hand section of the detail screen.
- Copy an event:
  1. Click on or touch the **Copy** button located in the upper right-hand section of the detail screen to generate a browser tab with a new event that is an exact copy of the previous event.
  2. Change the name of the new event; event names within a given schedule must be unique.
  3. Edit the new event as desired before saving it.
- Test an event: Click on or touch the **Test** button located in the upper right-hand section of the detail screen. **Note:** To ensure that the behavior is working as programmed, the event's actions will be executed when you click on or touch this button!

# Quick Controls



**Quick Controls** allows the user to group several actions to be activated at one time.

1. Click **+ Add New** in the upper left corner.
2. Create a name for the control.
3. Click on **+ Add Location**.
  - You can select the whole building or click the arrow on the right to select a floor or to select an area.
  - When you have selected the area(s) you wish to control, click **Done**.
  - Click **+ Add Action**
    - From the **Affect** drop-down you can choose the device type you want to control.
    - Once done selecting all the actions for that area, click **Done**.
  - If you wish to change the location or action click the blue pencil icon on the right of the location you wish to edit.
    - From the pop-up menu you can **Edit Location**, **Edit Action**, or **Delete**.
4. When you are done adding locations and actions hit **Save** in the lower right corner.
5. To edit or delete an already saved quick control click **Edit** next to its name.

# Load Shed

Dashboard | Building | Load Shed

Load Shed Disabled

Settings

1. Set target demand  kW

Preview

Max. connected load (4.03 kW) Current Consumption 2.6 kW

1.98 kW Loadshed consumption Target demand (2 kW)

2. Adjust load shed ⓘ

Auto-calculate load shed amount

Master adjustment Area by area adjustment

Areas	Affect	Load Shed Amount
Building	<input checked="" type="checkbox"/>	<input type="text" value="64"/> %

Cancel Save

LUTRON QUANTUM 3.2

Load shedding allows the building manager to monitor whole building lighting power usage and apply a load shed reduction to selected areas, thereby reducing a building's peak power usage. Load shedding can be configured individually for each selected area in the system at levels between 0% and 90%. 0% is the same as no load shedding.

## Change load shedding targets for areas

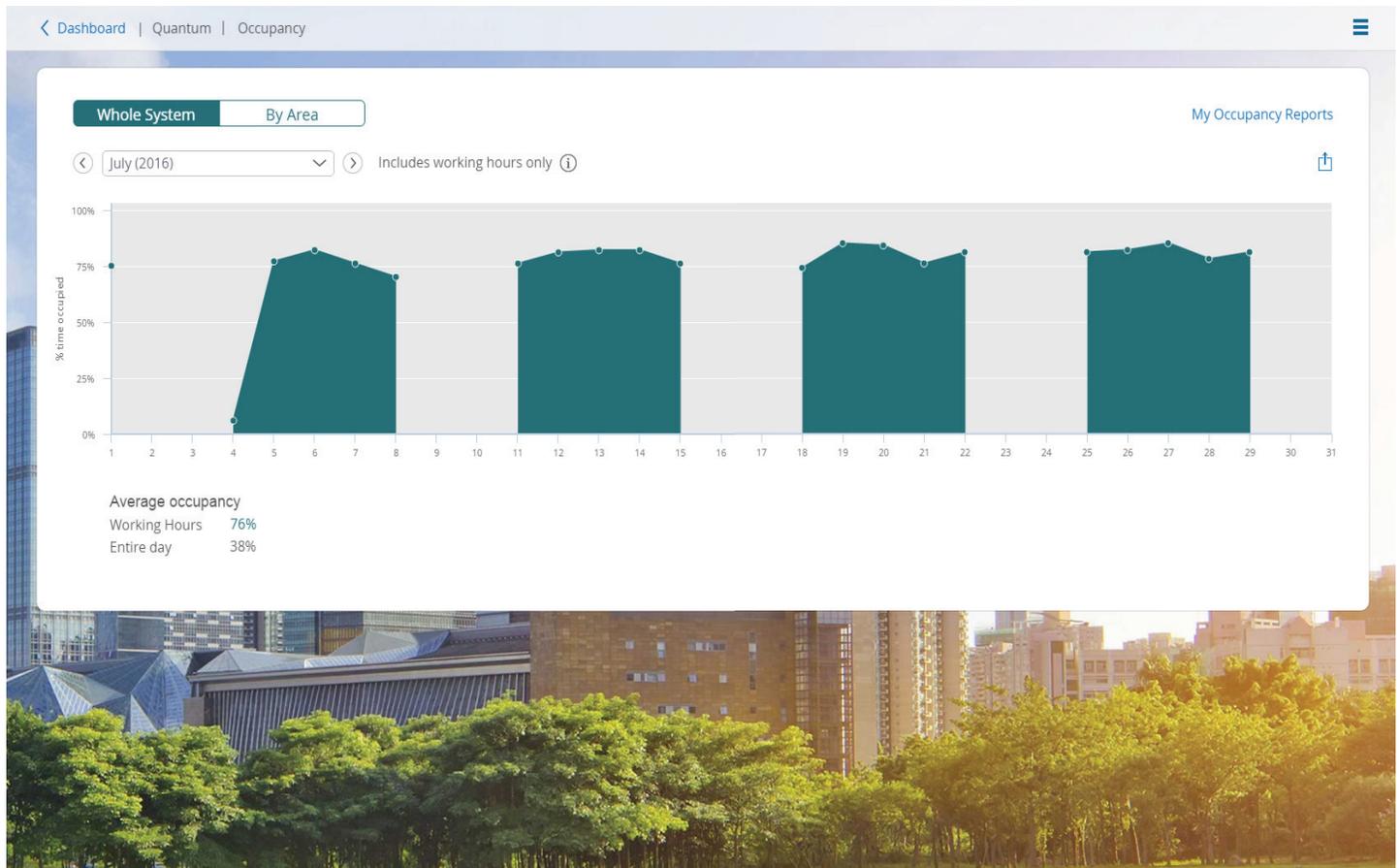
1. Choose an area using the Area by area adjustment.
2. Select the **Affect box** to load shed the area, or deselect it to prevent the area from being affected.
3. Type a number (from 0 to 90) in the **Goal** column. This is the percentage of the lighting level by which you want to reduce the area (0% = no reduction; 90% = maximum reduction).
4. Repeat for other areas for which you want to change load shedding.
5. Click **Save**.

## Enable/disable load shedding

1. Click the **slide button** next to **Load Shed Disabled** to enable load shedding for the entire project (a confirmation will appear stating "Enabling load shed will save any changes below and begin lowering lights immediately"). The text next to the slide button will change to **Load Shed Enabled**.
2. Click the **slide button** next to **Load Shed Enabled** to disable load shedding for the entire project. The text next to the slide button will change to **Load Shed Disabled**.

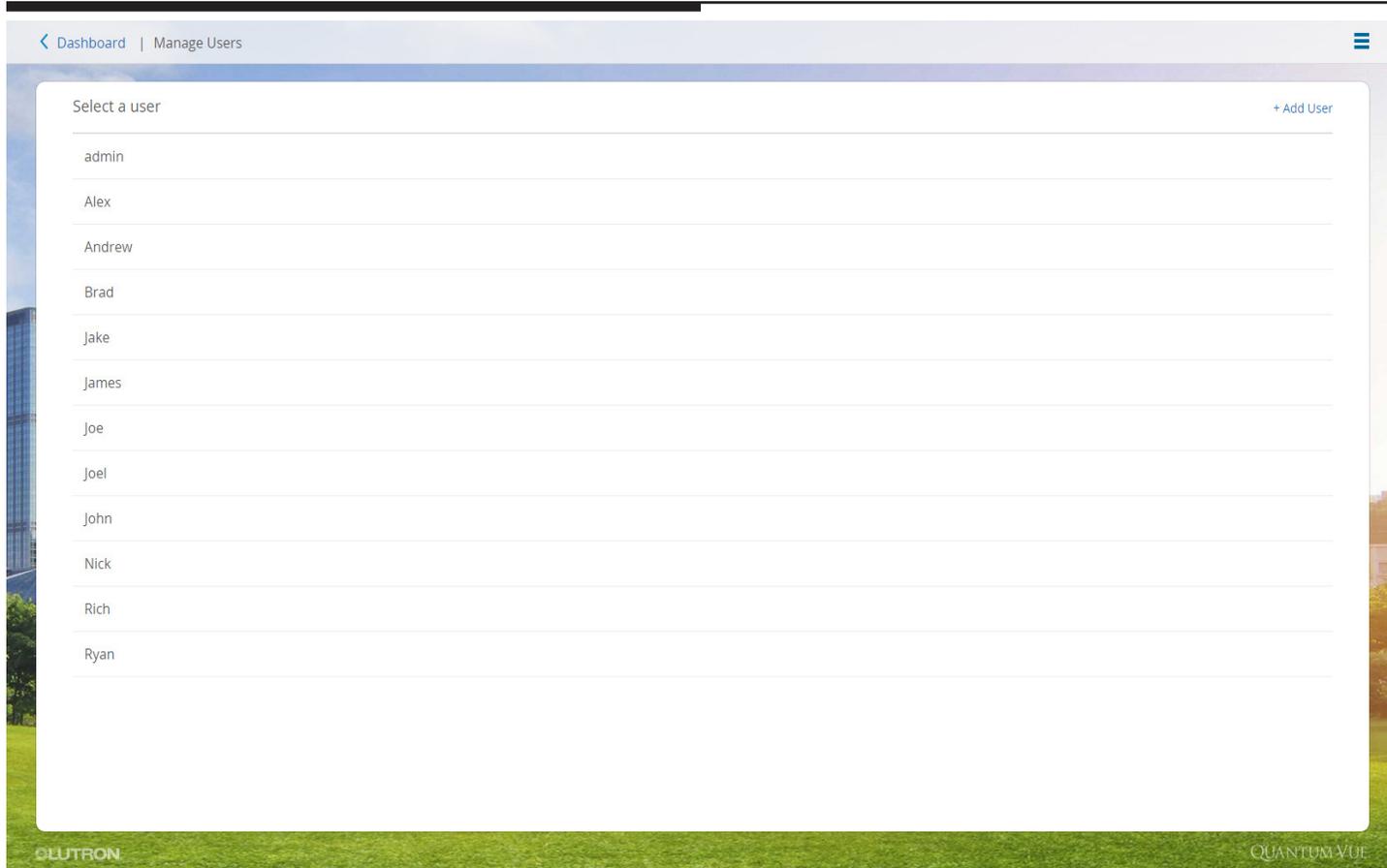
Typing a new number in the **Set target demand** text box changes the demand goal (red line). This represents a reference line for the building manager. To reduce demand when building power usage gets close to or above the line, adjust the load shedding to higher percentages for selected areas.

# Occupancy



The Occupancy page allows the user to monitor the usage of areas based on the amount of time the areas are occupied. By monitoring the occupancy of area's the user can see if an area is being utilized to its fullest extent. There are two main views you can choose **Whole System** and **By Area**. Whole System will give an average occupied percentage based off of working hours and for the entire day. By Area gives the percent time occupied for each area during working hours only.

# Manage Users



The Manage User Dashboard allows for the creation of users for the Quantum Vue software with different permissions.

- Click on a user under **Select a user** to edit user info or edit alert subscriptions.
- Click on **+ Add User** in the upper right corner to create an account or use an intranet account.
- Click on **Create an account** to add a user.
  1. Fill in Username, Email, and Role.
  2. If you check **Subscribe to alert notifications**, choose the types of notifications you want that user to receive from the drop-down menu next to it.
  3. On the gray part of the screen in the upper left you can assign the whole building, or use the drop-down menu to select each floor to assign individual areas or whole floors.
  4. To assign an area, click on the area you want to assign. Blue highlighted areas are the ones selected for that user.
  5. Click **Save** in the lower right corner when complete.
- Click on **User intranet account** to add a user from a domain server.
  1. Fill in Domain, Username, Email, and Role.
  2. Selecting **Subscribe to alert notifications** allows you to choose the types of notifications you want that user to receive from the drop-down menu next to it.
  3. On the gray part of the screen in the upper left you can assign the whole building, or use the drop-down menu to select each floor to assign individual areas or whole floors.
  4. To assign an area, click on the area you want to assign. Blue highlighted areas are the ones selected for that user.
  5. Click **Save** in the lower right corner when complete.

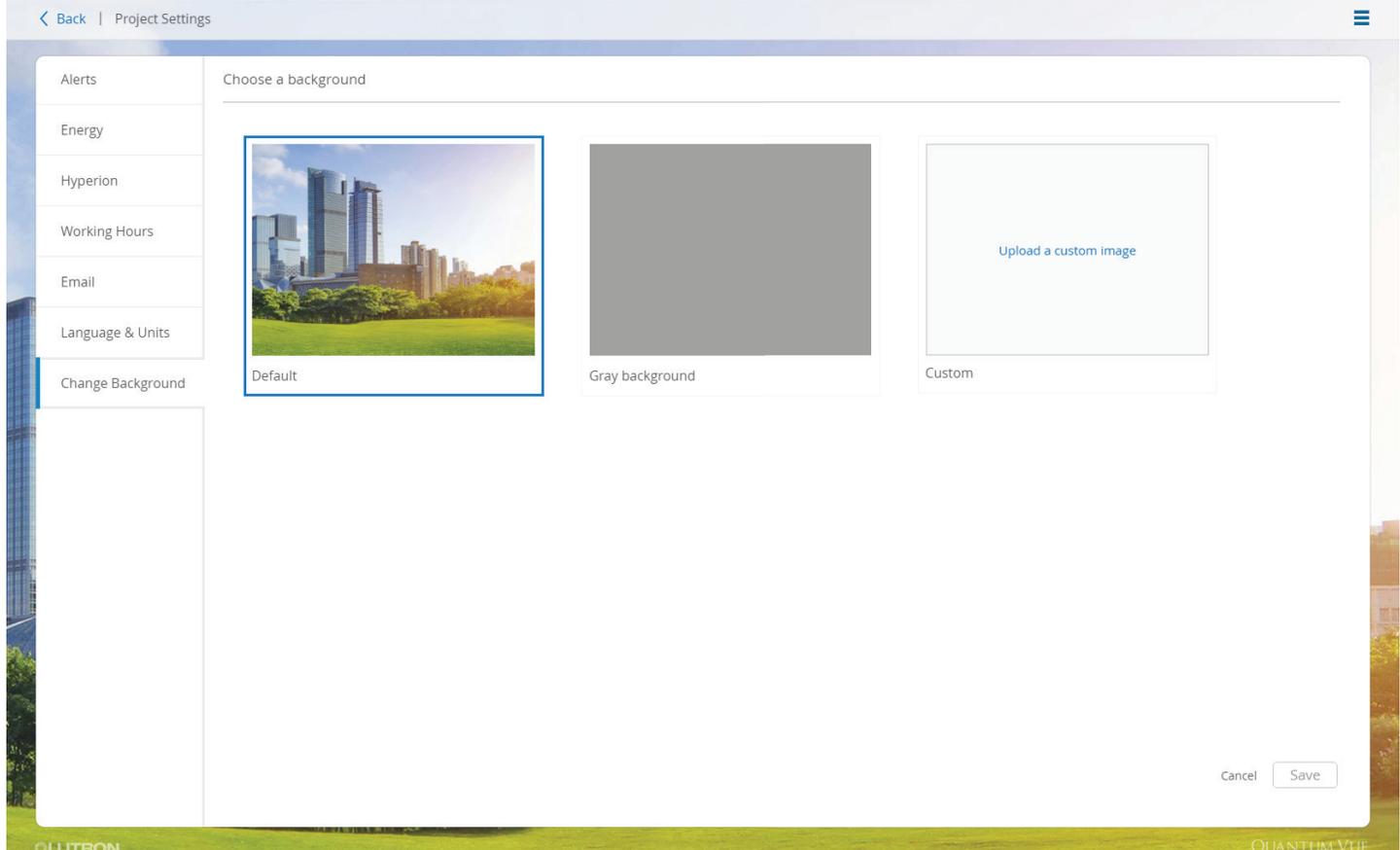
# Project Settings

The screenshot displays the 'Project Settings' page with a sidebar on the left containing menu items: Alerts, Energy, Hyperion, Working Hours, Email, Language & Units, and Change Background. The main content area is titled 'Enable Alerts' and includes a link 'Edit email subscriptions in User Management'. Under 'Enable Alerts', there are several checked options: Ballast failure, Battery failure, Lamp failure, Load shed, Lamp nearing end of life (with a 'Configure' link), Light level alarm (with a 'Configure' link), Low disk space, and Reporting service down. The 'Device not responding' option is unchecked. Below this is the 'Email Schedule' section, which states 'This affects email subscriptions for all users'. It offers three scheduling options: 'Daily' (01 : 00 AM), 'Weekly' (Monday at 01:00 AM), and 'Monthly' (1st at 01:00 AM). At the bottom right of the settings area are 'Cancel' and 'Save' buttons. The LUTRON logo is in the bottom left and the QUANTUM VUE logo is in the bottom right of the interface.

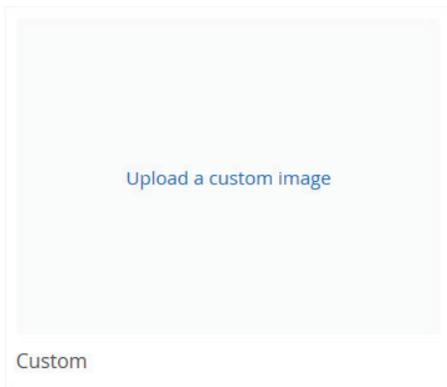
Project settings is where you can change global settings for your system. Some of these settings are used for calculations so the more accurate they are entered the more accurate the calculations will be.

- **Alerts** – You can choose what system events will email you alerts when they occur.
- **Energy** – You can set the sq ft for each area which is used to calculate energy per sq ft in the energy report screen.
- **Hyperion** – You can change how long Hyperion will be disabled when a shade is controlled manually, adjust the start/end time of Hyperion as well as where the shades will move to.
- **Working Hours** – You set the working hours for your building, this information is used when calculation space utilization.
- **Email** – This is where you set your mail server settings so the system is able to send out email alerts.
- **Language & Units** – you can change the Language displayed as well as units of measurements.
- **Change Background** – allows you to add a custom background image.

# Change Quantum Vue Background



Users can change the background image in Vue from this page. There are two choices included, the default city skyline and the gray background, you can also choose the custom option to upload an image of your liking. The image size used is 2048x1536, using an image of a different size could cause the image to be distorted.



To upload a custom image click on the **Upload a custom image** link, select the image file you want to use as your background and click **Open**. Once the file is uploaded click **Save** in the lower right.

# Lamp Hours

Project Settings | Lamp nearing end of life

Areas Global lamp life settings

- Quantum
  - Office
    - North Side
      - North Open Office**
      - Accounting Department
      - IT and Help Desk
      - NW Conference Room
      - NE Hallway
      - NW Hallway
      - North Kitchen
      - Electrical Closet
      - North Men's Restroom
      - North Women's Restro...
    - NE Conference Rooms
    - South Side
    - Hospitality

North Open Office

Lamp name	Fixture Type	Remaining Life (hrs)	Expected Life (hrs)	Reset All
1	a	19998	20000	Reset Identify
2	a	19998	20000	Reset Identify
3	a	19998	20000	Reset Identify
4	a	19999	20000	Reset Identify
5	a	19998	20000	Reset Identify
6	a	19998	20000	Reset Identify
7	a	19998	20000	Reset Identify
8	a	19998	20000	Reset Identify
12	a	19998	20000	Reset Identify
9	a	19999	20000	Reset Identify
10	a	19998	20000	Reset Identify
11	a	19998	20000	Reset Identify
ESN-ECO-01-13	c	20000	20000	Reset Identify

Quantum systems have a feature that will warn a user when the lamps in their fixtures are nearing the manufactures expected life. When a lamp is replaced the user can enter in the expected life for the lamp or if it is the same as the previous lamp they can reset the counter.

Alerts

Enable Alerts

- Ballast failure
- Battery failure
- Lamp failure
- Load shed
- Device not responding
- Lamp nearing end of life [Configure](#)
- Light level alarm [Configure](#)
- Low disk space
- Reporting service down

Email Schedule

From the **Project Settings** page you can configure the lamp hours settings by clicking the check box by **Lamp nearing end of life** then clicking **Configure**.

Global Lamp Life Settings

Alert me when the lamp's remaining hours reach  hours

After I receive an alert, reset the lamp after  days

Set the expected life for

Fixture Type	Expected Life (hrs)
b	<input type="text" value="20000"/>
a	<input type="text" value="20000"/>

Cancel Save

Click on the **Global Lamp Life Settings** link in the upper left of the screen to access the Global settings. In this window you can set the expected life of each type of fixture, plus when the system will notify you when they are reaching end of life.

# System Activity Report

Dashboard | System Activity Report

Filter

Areas

Activity Types  Lights  Shades  Occupancy / After hours  Device Control  Schedules  Alerts / Diagnostics [View more](#)

Starting   at  :

Activity Feed

Select options above to generate a report.

The System Activity Report lets the user select and view historical data on how the system is performing and being used. There are 15 different activity types you can choose from. You can also choose area to view the selected activities, and the time that you want the latest reported activity to show.

There are 15 different Activities that you can select.

**Lights** – Shows when light levels are changed.

**Shades** – Shows when a shade or shade group changes level either by direct user control or Hyperion.

**Occupancy/After Hours** – Shows when an area becomes occupied or unoccupied.

**Device Control** – Shows when a button has been pressed on a keypad or Pico remote.

**Schedules** – Lists when scheduled timeclock events have happened.

**Alerts/Diagnostics** – Displays any devices that are not responding to the system.

**Daylighting** – Shows when changes were made to Daylighting settings.

**Tuning** – Displays when changes have been made to High-End or Low-End trim.

**Quick Controls** – Shows whenever a Quick Control in Quantum Vue is activated.

**Load Shed** - Lists the light levels that areas went to when Load-Shed is enabled or disabled.

**Partition Walls** – Displays whenever there is a state change for partitioned walls.

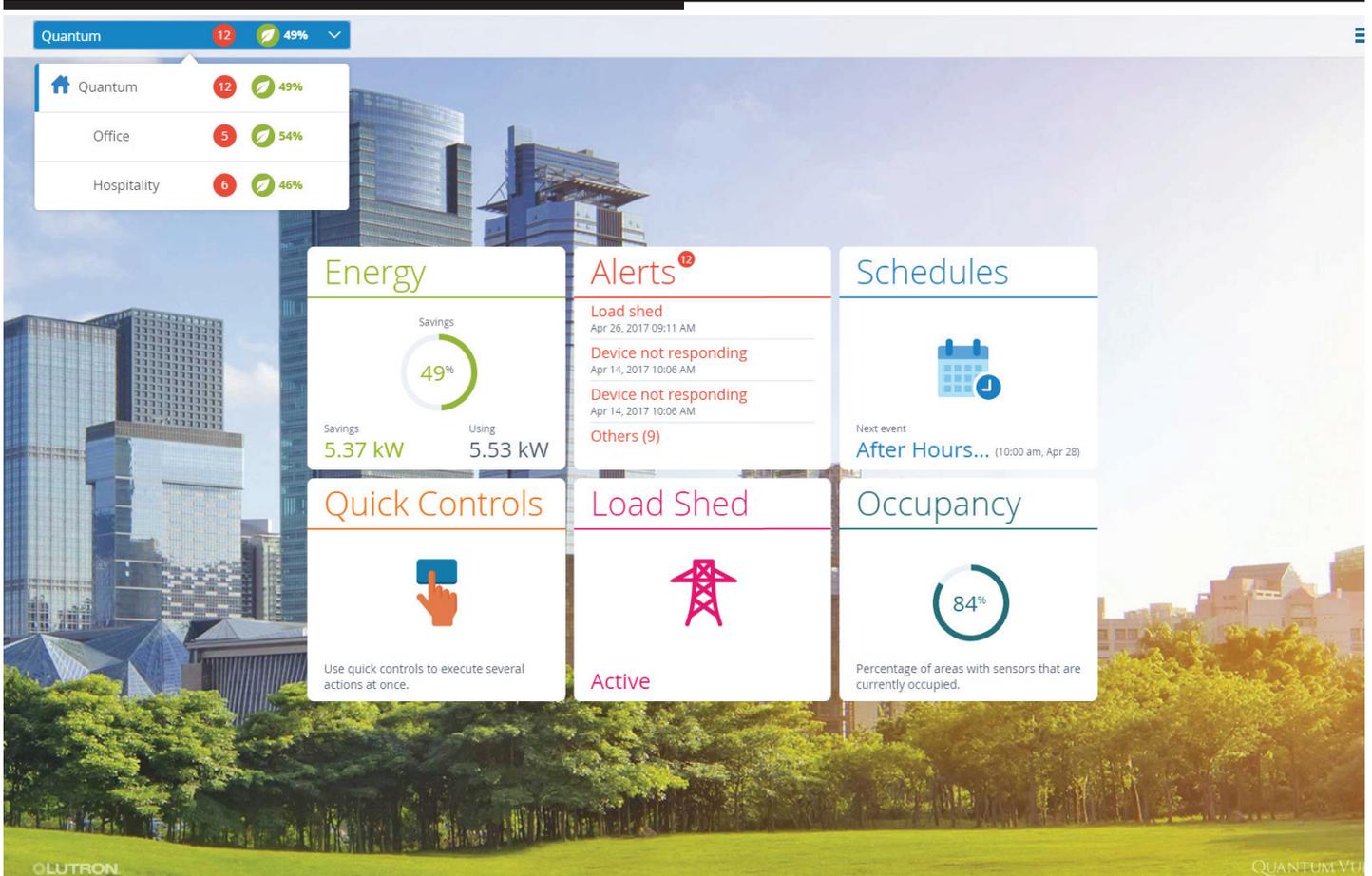
**Area Groups** – Lists any changes that are made to an area group.

**Sequences** – Shows when a sequence starts or changes to a new step.

**Variables** – Shows when the state of a variable changes.

**Users** – Shows when a user logs in or logs out.

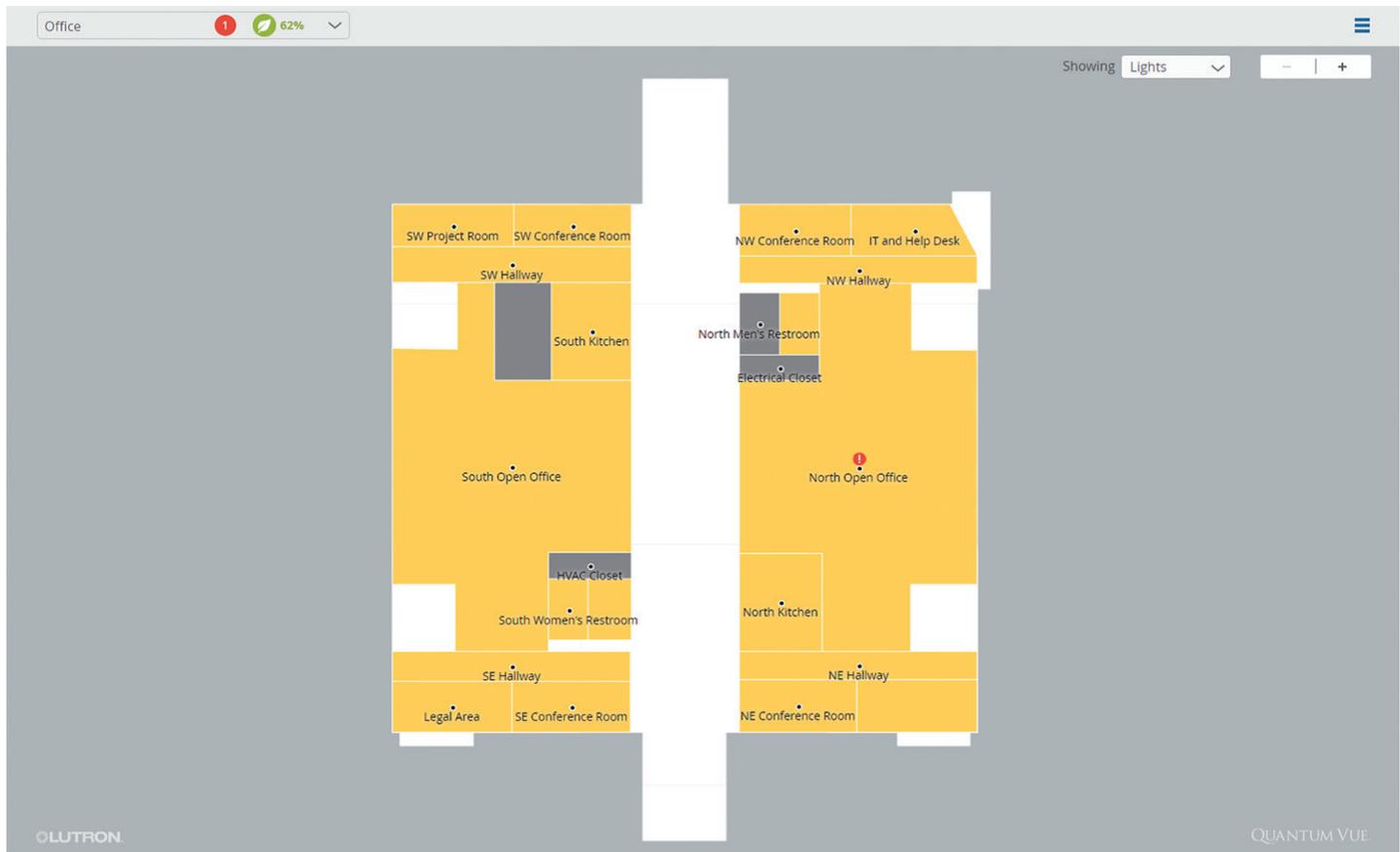
# Navigation



Select the **Navigation** drop-down menu in the left-hand corner of the menu bar to view a list of locations.

- Navigate to a specific location: Click on or touch any item in the list.

# Floorplan: Overview



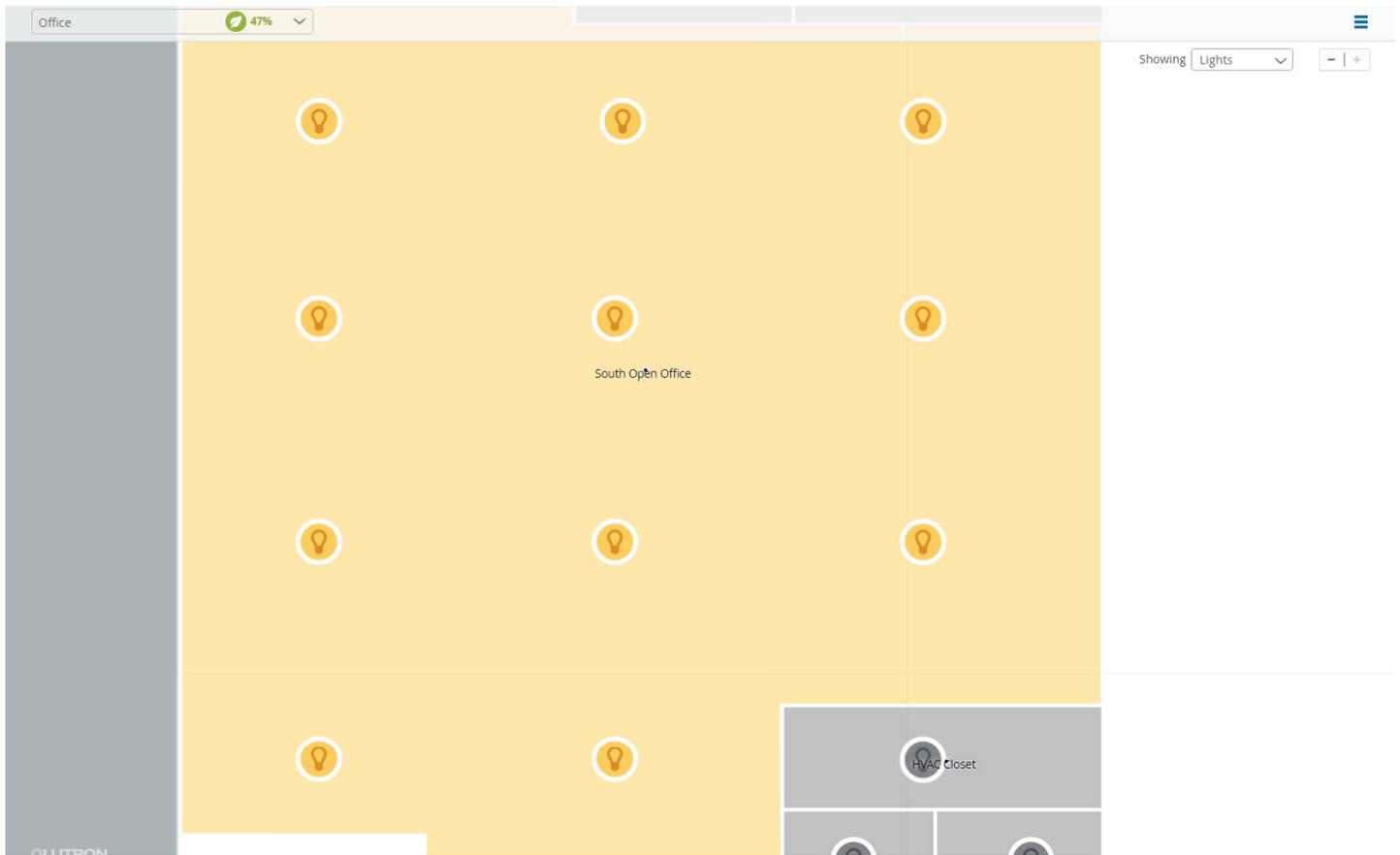
After navigating to an area, you will see an interactive floorplan. To control the floorplan view:

- Pan: Click on or touch the screen and then drag.
- Zoom in and out: Scroll (or pinch with two fingers) or use the **+** and **-** buttons located in the upper right-hand part of the detail screen. **Note:** Most floorplan areas will be labeled, but some labels may not be visible until you zoom in.

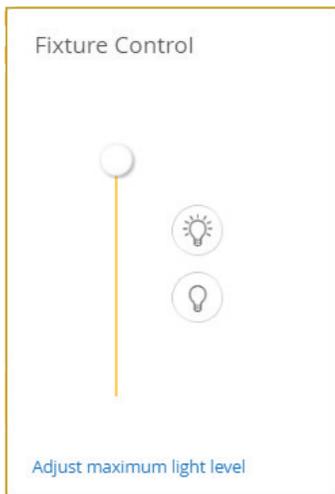
To change screen viewing options, select the **Showing** drop-down menu located in the upper right-hand section of the detail screen.

- Examine different views of the floorplan: Toggle between **Lights**, **Energy**, and **Occupancy**.
- Enable or disable **Alert** indicators in any floorplan view.

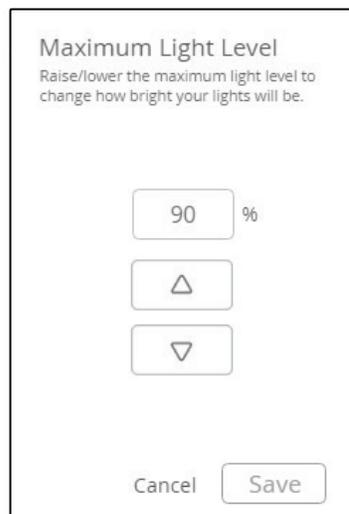
# Fixtures on the Floorplan



You can now view the status and control the individual fixtures in an area on the floorplan view. This features allows the user to adjust the light level for specific fixtures, before you only had control over the whole area or individual zones which could contain multiple fixtures.

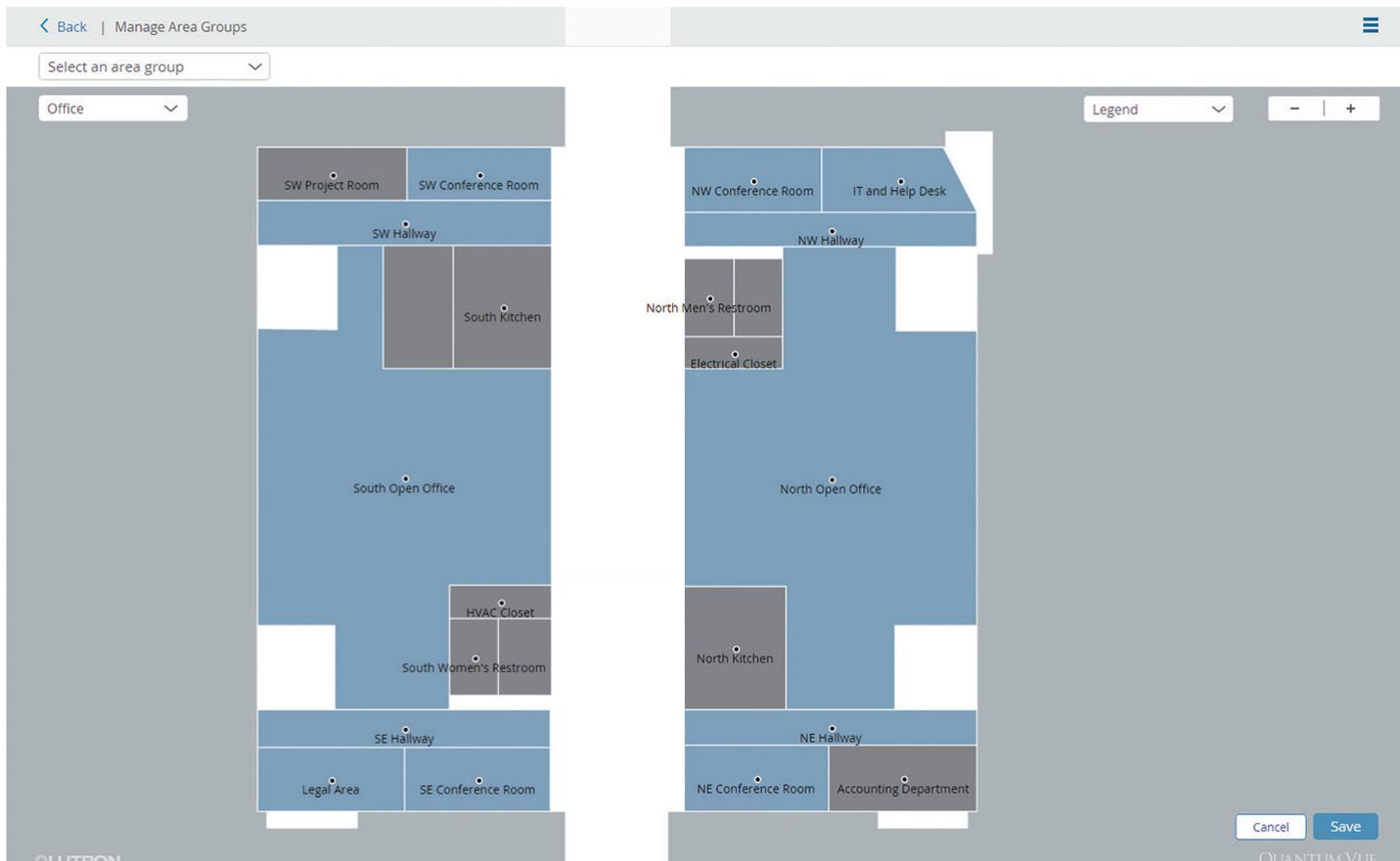


When you click on the  icon the Fixture Control pop-up will appear. From this pop-up you can adjust the slider to raise and lower the light level for the fixture you clicked. You can also click on the  button to turn the light full on or  button to turn the light off.



From the Fixture Control pop-up you can adjust maximum light level by clicking the blue link at the bottom of the pop-up. A new pop-up will appear where you can enter the maximum value that fixture will be able to achieve. (Ex. If you set the value to 75% when you would raise the slider to 100% or hit the full on button the lights will only go to 75%)

# Manage Area Groups



## Navigating to the Manage Area Groups window menu

1. In the upper right window select the menu button.
2. In drop-down menu select **Manage Area Groups**.
3. Select an area group to view its members using the drop-down on the top left corner.
4. Gray hotspots represent areas not assigned to an area group, light blue hotspots represent areas assigned to other area groups, and dark blue hotspots represent areas assigned to the currently selected area group.

## Creating a new area group

1. In the upper left window, click the drop-down menu to select the floorplan into which you wish to group areas.
2. In the upper left window, click the drop-down menu named **Select an area group**.
3. Click the **+ Add New** button in drop-down menu to create a new area group.
4. Uniquely name the new area group category, then click the **Done** button.
5. Click on areas to add them to the area group category. You can navigate between different floorplans to select other hotspots. The hotspot will turn dark blue when assigned to the area group. Click the hotspot a second time to remove it from the area group. The hotspot will turn gray when unassigned from the area group. Areas cannot be assigned to more than one area group.
6. Click on the **Save** button in the bottom right corner of the floorplan to save the new area group.

## Editing an area group's name

1. Navigate to the **Manage area groups** window.
2. In the upper left window, click the drop-down menu named **Select an area group**.
3. Click the **Edit** button to rename area groups.
4. Uniquely rename desired area groups.
5. Click **Done** to save new area group names.

# Manage Area Groups (continued)

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## Editing area group hotspots

1. Navigate to the **Manage area groups** window.
2. In the upper left window, click the drop-down menu named **Select area group**.
3. In the drop-down menu select the area group to edit.
4. Click gray colored hotspots to add them to the area group.
5. Click dark blue colored hotspots to remove them from the area group.
6. Click on the **Save** button in the bottom right corner of the floorplan to save the new area group.

## Deleting area groups

1. In the upper left window, click the drop-down menu named **Select an area group**.
2. Click the **Edit** button.
3. Click the red delete icon next to the area group to be deleted.
4. Click the red **Delete** button to confirm the deletion of the area group.
5. Click **Done** to exit from area group editing.

## Adjusting scene levels for an area group

1. Navigate to the area dashboard for an area within the area group that you want to edit.
2. Open the **Lights** tile to observe area zones and scenes.
3. Edit zone levels to desired levels.
4. Click the **Save to a scene** button.
5. Choose a scene in the drop-down menu to save the new levels.
6. To save the scene to the entire area group, select the area group in the **For** drop-down menu.

**Notes:** The area must already be assigned to an area group to apply changes to the area group. Scene editing an area group (multiple areas) is only allowed for areas having a single zone. If an area group has areas containing both single and multiple zones, changes will only be applied to areas with a single zone. Areas with multiple zones will not have the new scene levels saved.

7. Click the **Save** button to save changes.

## Occupancy changes with area groups

1. Navigate to the area dashboard for an area within the area group that you want to edit.
2. Open the **Occupancy** tile to observe area occupancy settings.
3. Edit the desired occupancy settings.
4. To apply new settings to the area's area group, select the area group name from **Apply the settings** above the drop-down menu. You can also apply settings to **All areas** in the system if desired.

**Note:** The area must already be assigned to an area group to apply changes to the area group.

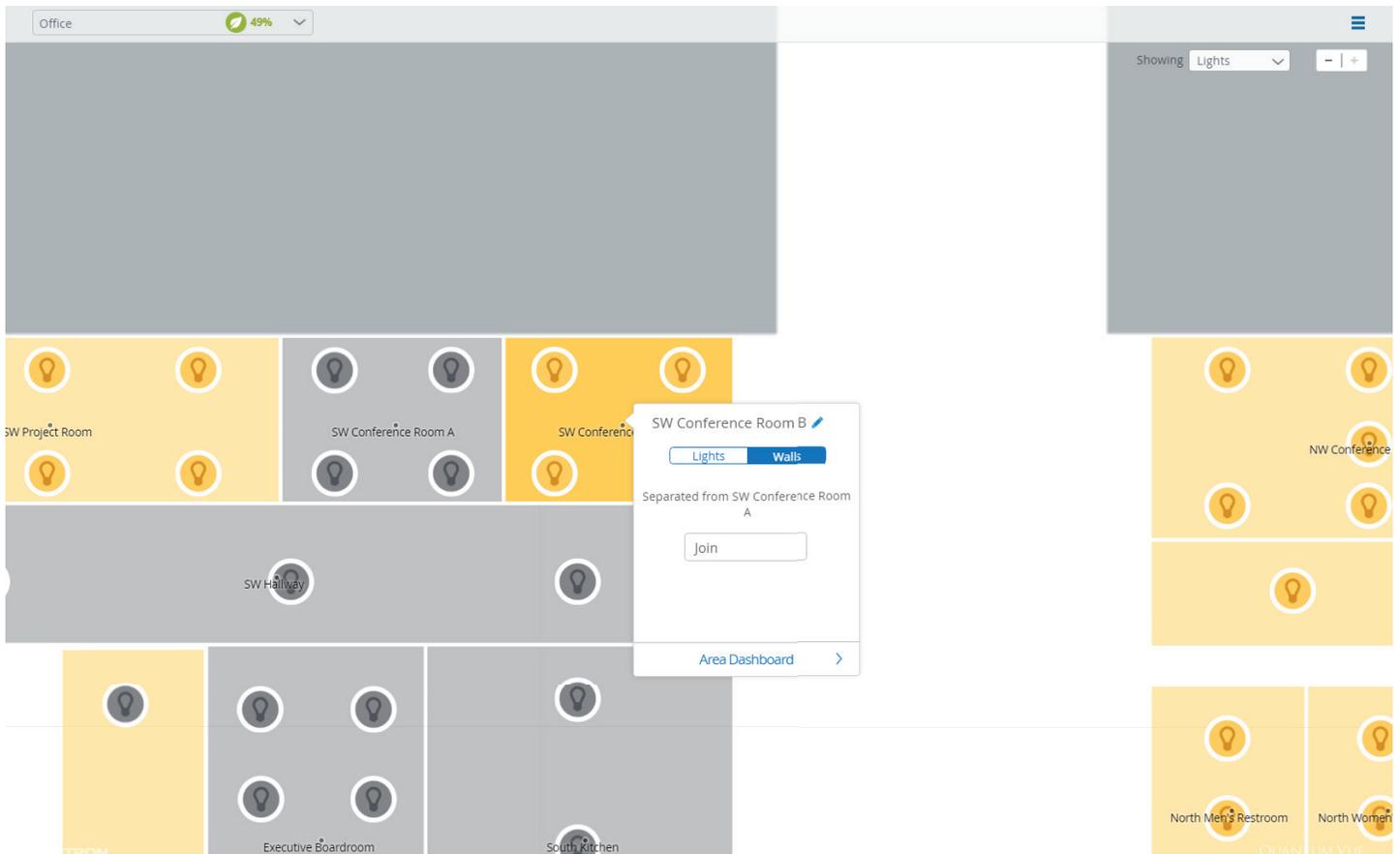
5. Click the **Save** button to save changes.

## High-End/Low-End tuning using area groups

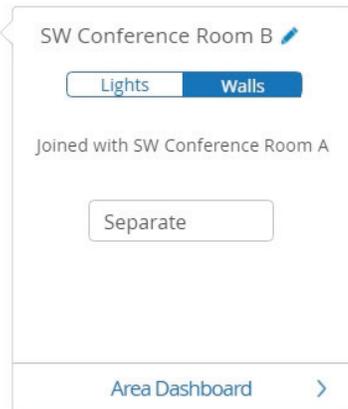
1. Navigate to the area dashboard for an area within the area group that you want to edit.
2. Open the **Tuning** tile to observe high- and low-end trim settings.
3. Edit the high-end and/or low-end trim percentages to desired levels.
4. To apply new settings to the area's area group, select the area group name from the **Apply the settings above to** drop-down menu. You can also apply settings to **All areas** in the system if desired.

**Note:** The area must already be assigned to an area group to apply changes to the area group.

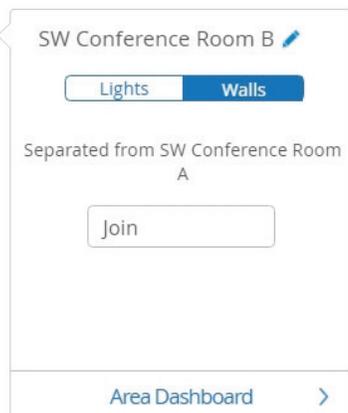
# Partitioning



Partitioning allows two or more area's to behave as one area or as independent area's based on the open/closed status of the partitioned walls.

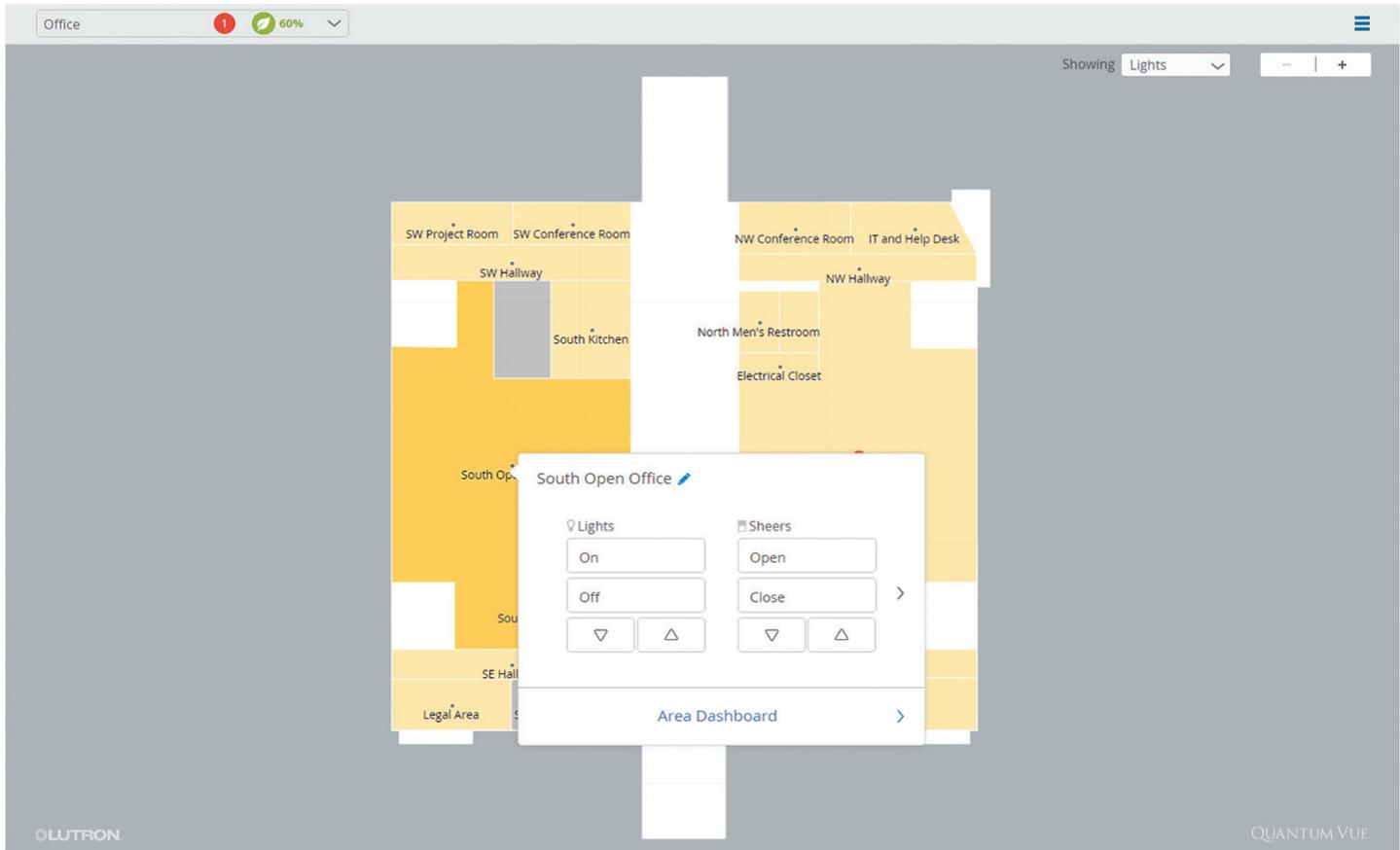


From the area pop-up you can click the **Walls** button to join or separate multiple rooms. The image to the left shows that SW Conference Room B is currently joined with SW Conference Room A. To separate these rooms press the **Separate** button.



The image to the left shows that SW Conference Room B is currently separated from SW Conference Room A. To join these rooms press the **Join** button.

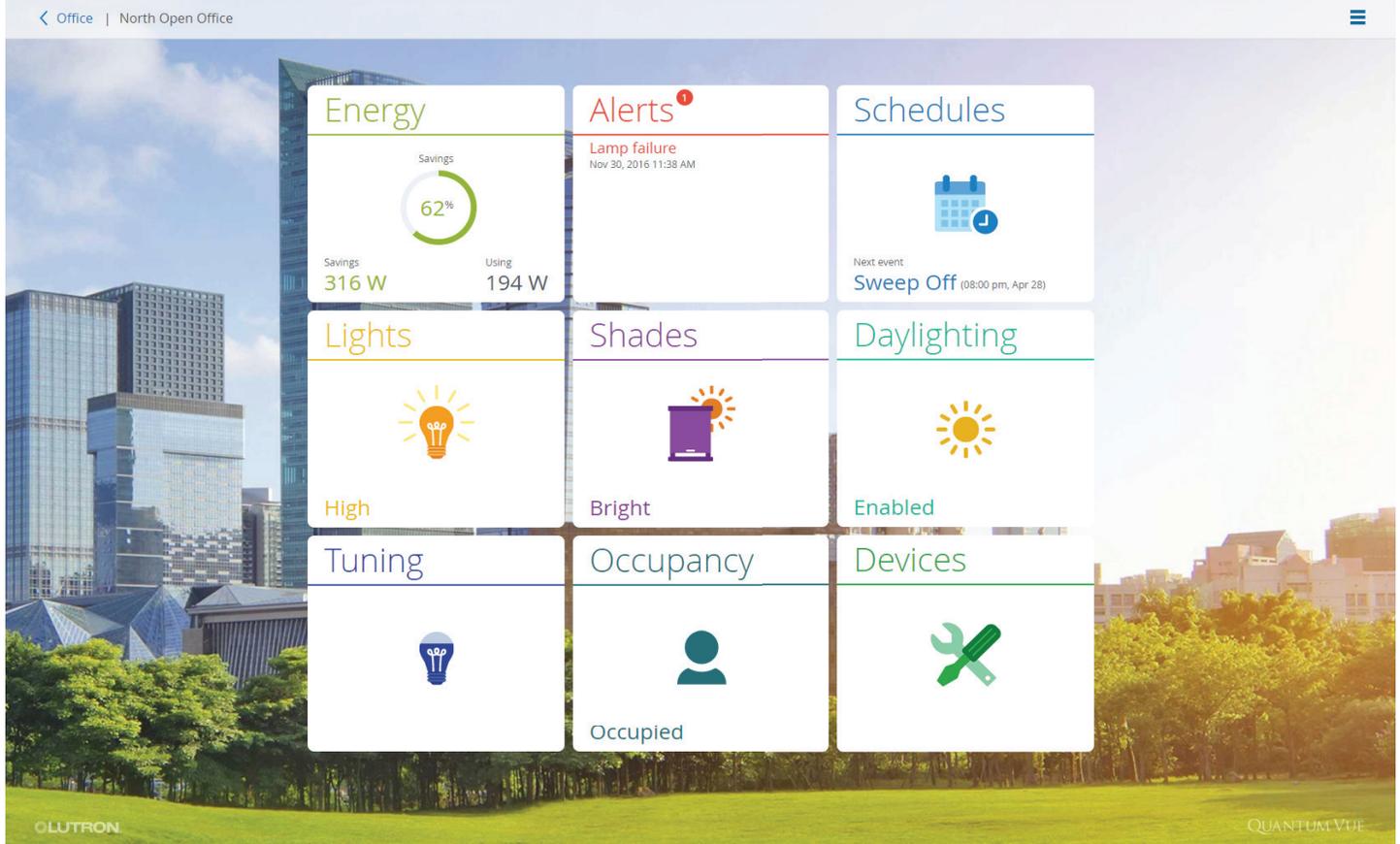
# Area Dashboard



Click on or touch an area on the floorplan to activate an area pop-up menu. Use this menu to:

- Control lighting and/or shades: Toggle lights on or off; toggle shade group buttons to open or close; click on or touch the arrow buttons to adjust levels in the selected area.
- Edit the area name: Click on or touch the pencil icon next to the area's name; enter a new area name in the resulting field.
- View additional information and settings for the selected area: Click on the **Area Dashboard** link in the pop-up menu.

# Area Dashboard (continued)

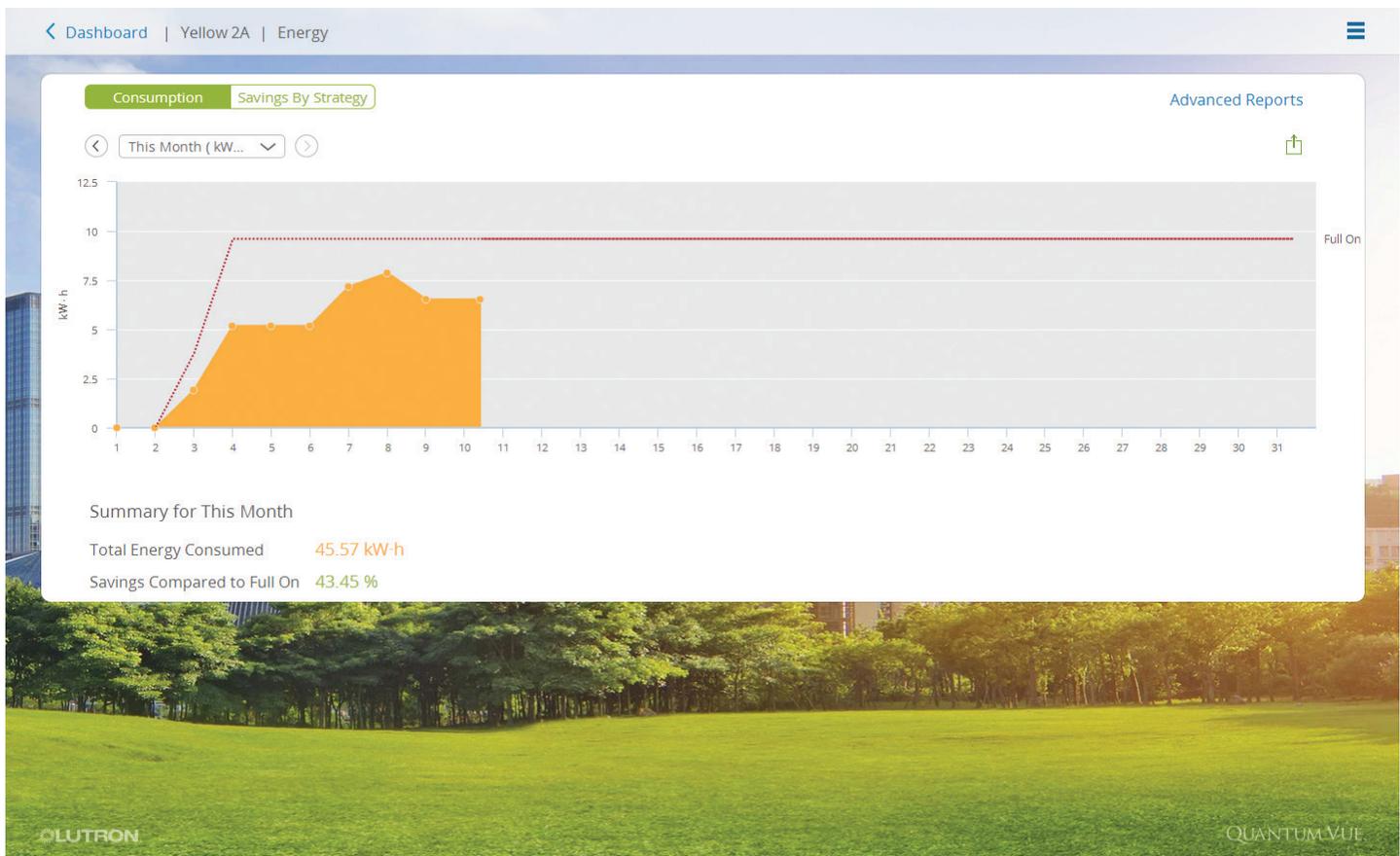


The **Area Dashboard** provides at-a-glance information about any selected area and, with interaction, allows you to view additional details and make adjustments to any feature.

- Click on or touch a tile to navigate to the detail screen for that feature.
- Adjust desired settings in the selected detail screen.

The link to return to the floorplan is located in the upper left-hand section of the screen.

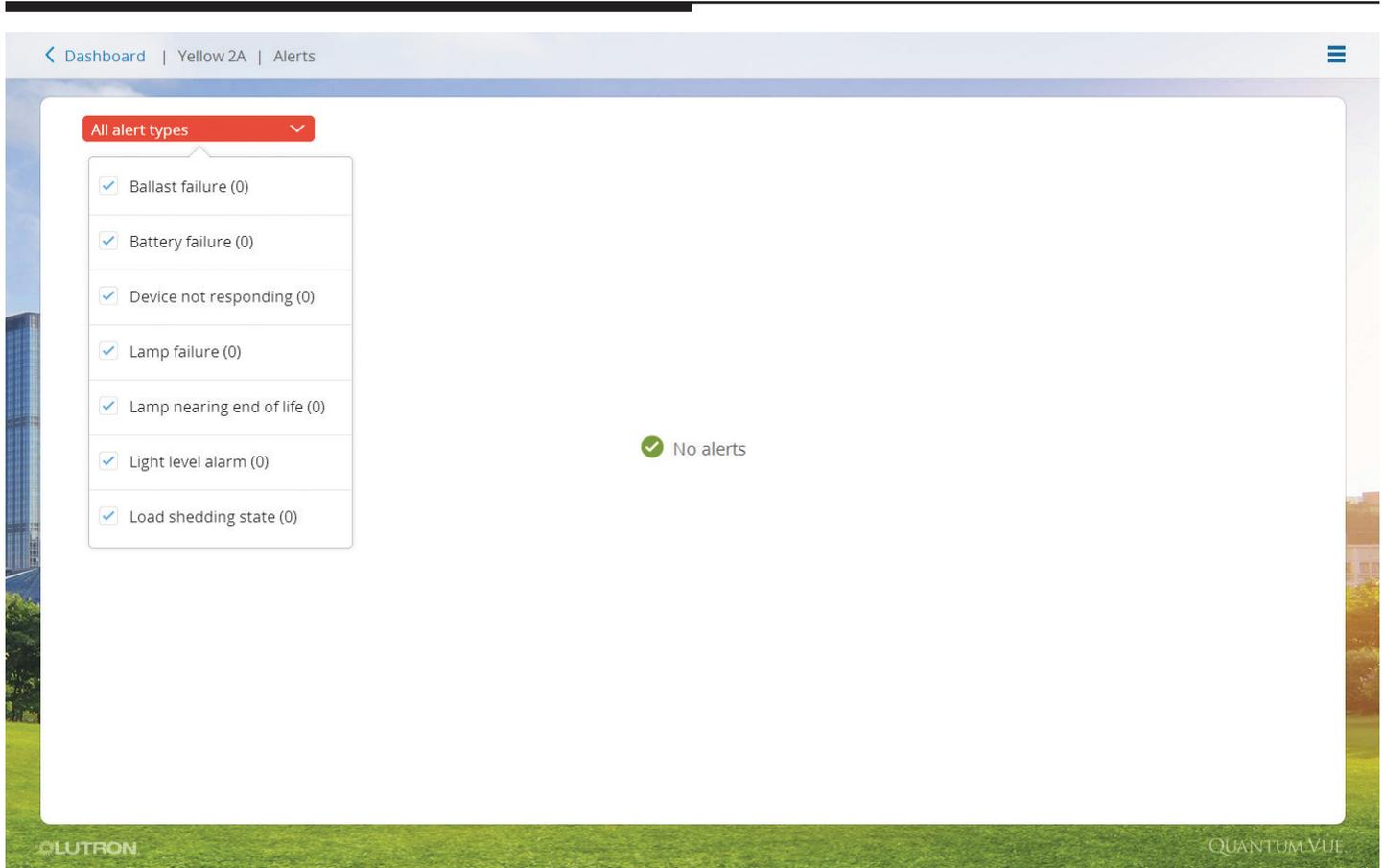
# Energy



Select the **Energy** tile from either the Main Dashboard or the Area Dashboard to open the **Energy** detail screen. The interactive screen provides energy-usage and power-consumption data for the entire system (if navigating from the Main Dashboard) or for a selected area (if navigating from the Area Dashboard).

- Select the viewing time frame: Click on or touch the drop-down menu located in the upper left-hand section of the detail screen to choose a data-viewing time span; press the left/right arrow buttons, located on either side of the pull-down menu, to view previous months and toggle back to the current time period.
- View a savings analysis for the selected time frame based on energy saving strategies being employed: Click on or touch the **Savings By Strategy** button located in the upper left-hand section of the detail screen.
- Export data to a .CSV file format: Click on or touch the **Export** icon located in the upper right-hand section of the detail screen.
- Generate and save custom reports: Click on or touch the **Advanced Reports** link located in the upper right-hand section of the detail screen to create and save customized reports which compare multiple areas, cover custom time ranges, and measure different types of data. **Note:** The **Advanced Reports** link is also an access point for custom reports that you've previously created and saved.

# Alerts

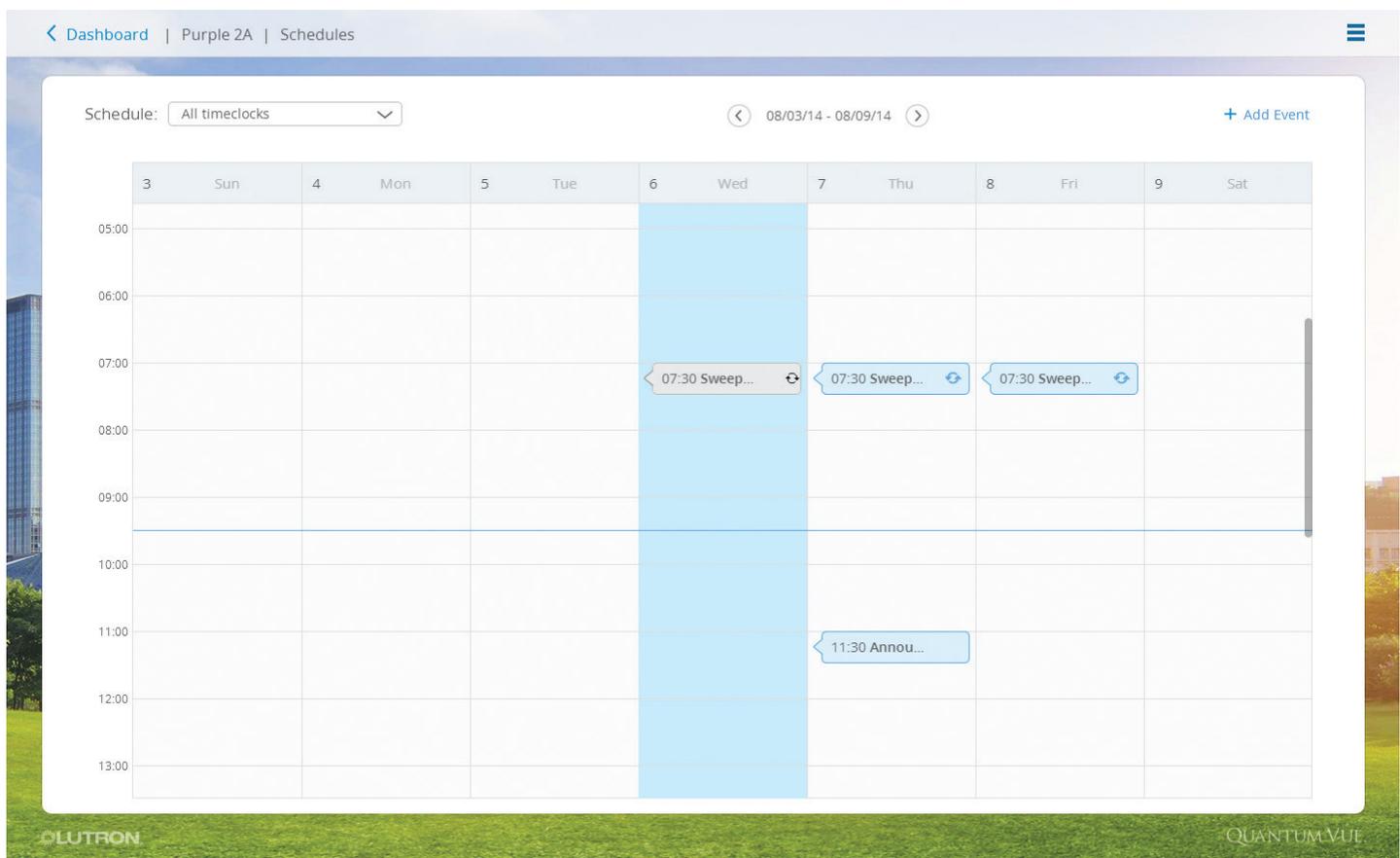


Select the **Alerts** tile from either the Main Dashboard or the Area Dashboard to open the **Alerts** detail screen. This interactive screen provides a list of all current/open alerts in the system (if navigating from the Main Dashboard) or only in the current area (if navigating from the Area Dashboard).

- Filter the list of alerts: Click on or touch the **All Alert Types** drop-down menu located in the upper left-hand section of the detail screen.

If alerts occur while you are using the Quantum Vue software, you will receive a badge alert notification at the top of the screen regardless of the screen you are viewing. For extra coverage, configure the Quantum system to notify you of selected alerts via email; this feature is currently available from the Q-Admin software.

# Schedules: Overview

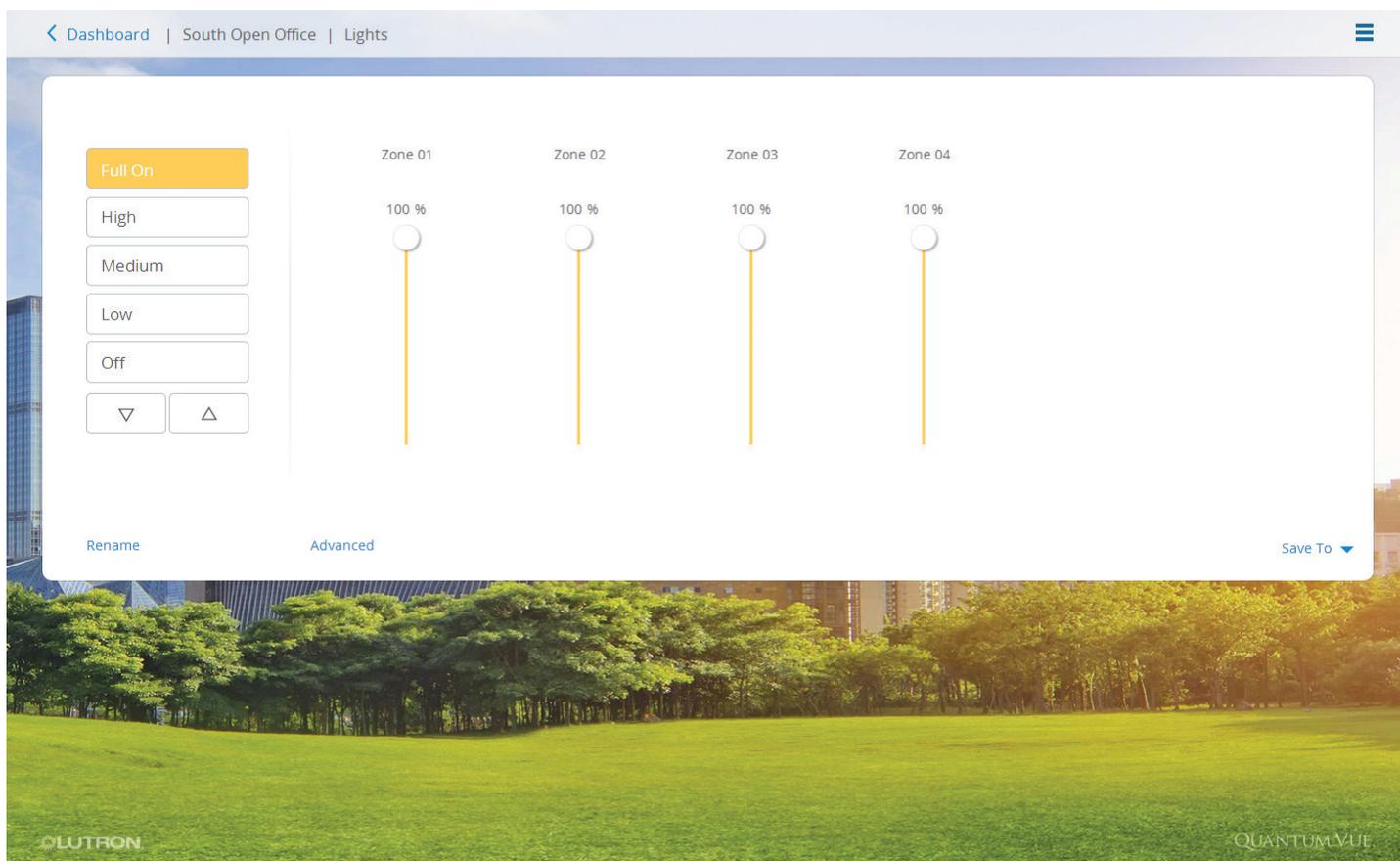


Select the **Schedules** tile from either the Main Dashboard or the Area Dashboard to view a calendar of scheduled events. All schedules and events in the system will be shown if you navigate from the Main Dashboard; schedules and events that affect only the selected area will be shown if you navigate from an Area Dashboard.

A schedule (timeclock) is simply a group of one or more events.

- View all events in all schedules: Select the **All Timeclocks** option from the **Schedule** drop-down menu located in the upper left-hand section of the detail screen.
- View events for a single schedule: Select the desired timeclock from the **Schedule** drop-down menu.
- Add a new schedule: Select **Add Timeclock** from the **Schedule** drop-down menu.
- Navigate through the calendar: Toggle the left/right arrow buttons on either side of the date range located in the upper middle section of the detail screen.
- Add a new event: Click on or touch the **Add Event** link located in the upper right-hand section of the detail screen.
- Edit an existing event: Click on or touch the desired event in the calendar; in the pop-up window, select **Occurrence** or **Series**.
  - Click on or touch **Occurrence**: On the resulting screen, click on or touch the pencil icon to change occurrence settings and timing. **Note**: Editing an event occurrence causes that event to be set apart as an event separate from the series
  - or*
  - Click on or touch **Series**: On the resulting screen, click on or touch the pencil icon to change series settings and timing; disable, delete, copy the series; test the series behavior.

# Lights: Basic

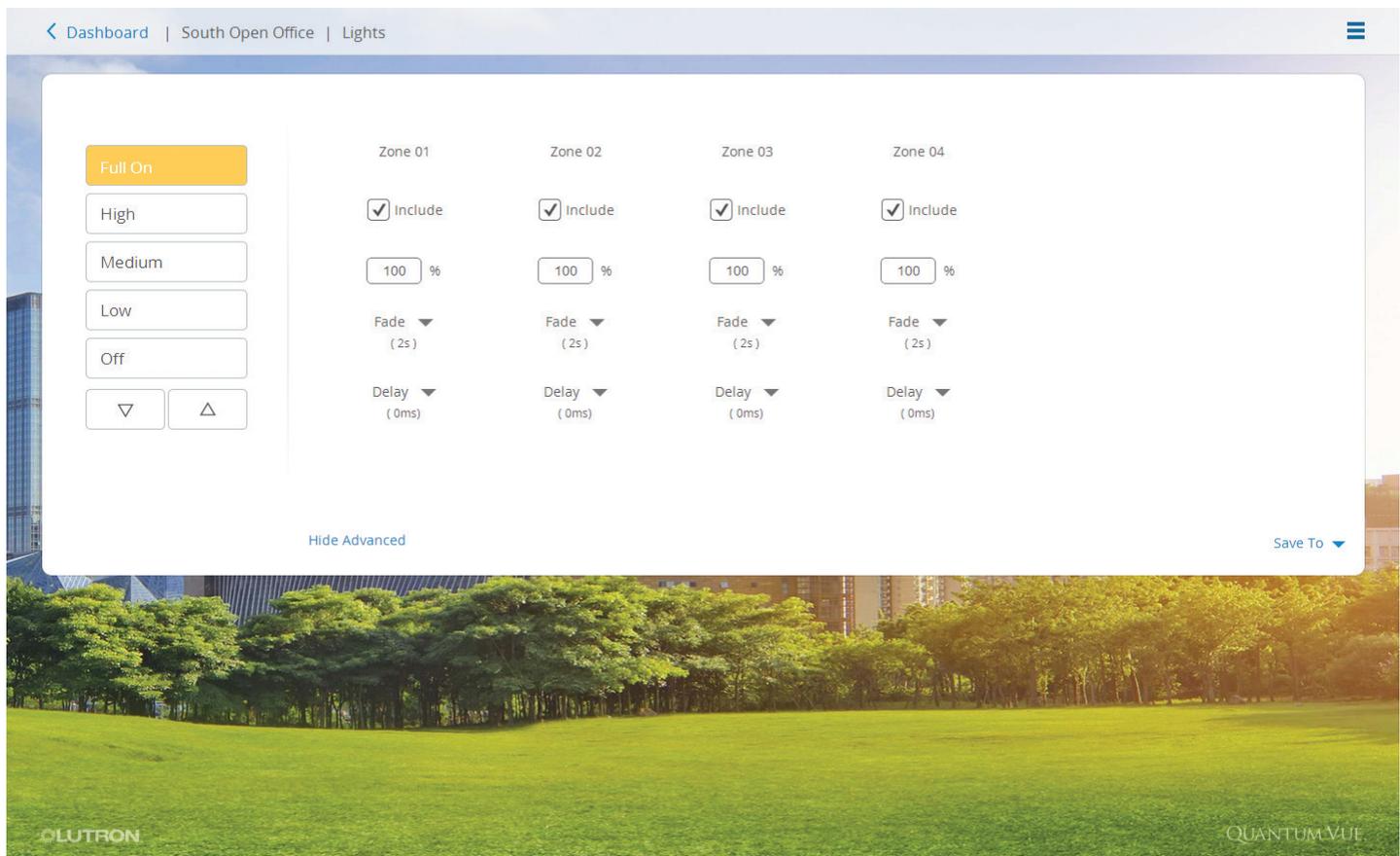


Select the **Lights** tile from the **Area Dashboard** to open the **Lights** detail screen for the current area. The interactive screen provides a list of area scenes on the left and a series of zone control sliders in the center.

- Activate a scene: Click on or touch the corresponding button in the list on the left. The lighting zones in the area will adjust their levels to achieve the desired scene.
- Edit scene or zone names: Click on or touch the **Rename** link located in the lower left-hand corner of the detail screen; enter a new scene name in the resulting field.
- Raise or lower all of the lighting zones in the area at once: Press the raise/lower arrow buttons located below the scene buttons.
- Raise or lower individual lighting zones separately: Click on or touch the slider or switch control and change the levels for the desired zone; adjust the level of each lighting zone until the desired light levels are achieved. **Note:** Because the lighting zones will actually change their levels in the space, it's best to perform this action while standing in the physical space so that the exact desired lighting levels can be achieved.
- Save new zone levels to a scene:
  1. When desired levels are achieved, click on or touch the **Save To** link located in the lower right-hand section of the detail screen.
  2. Choose the scene to which you would like to save the current zone levels.

To make more advanced changes to scenes, click on or touch the **Advanced** link located in the lower left-hand section of the detail screen.

# Lights: Advanced

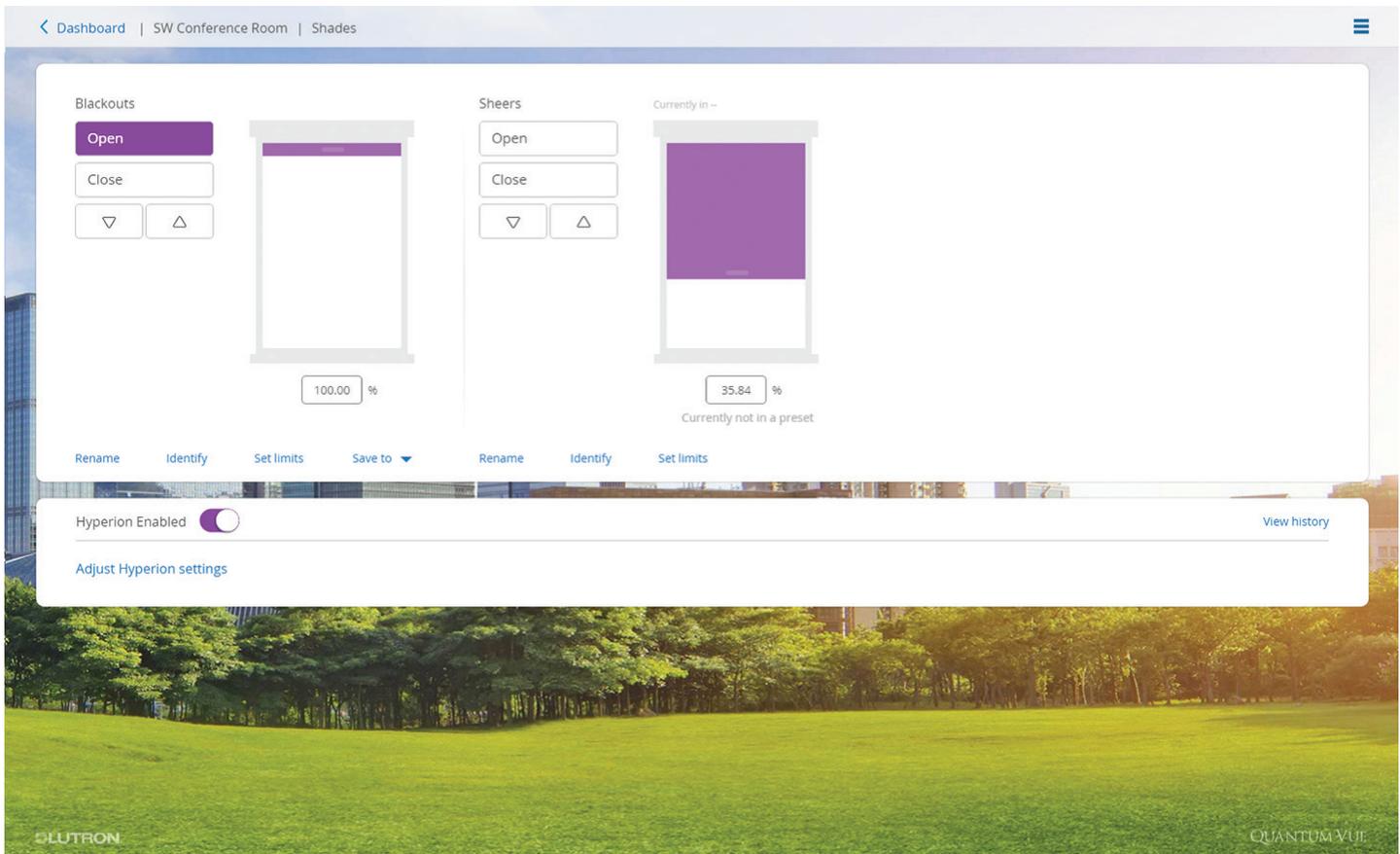


The **Lights: Advanced** detail screen allows you to further define the behavior of each lighting scene.

- Set the levels of each lighting zone for a given scene: Enter a level into the **%** field for each zone.
- Specify the fade and delay times that will apply for each zone when the scene is activated: Select the **Fade** and **Delay** drop-down menus to assign times for each zone.
- Deselect one or more zones: Uncheck the desired **Include** check-boxes. **Note:** Zones that are not included in a given scene will not be affected when that scene is activated.

To return to the **Lights: Basic** detail screen, click on or touch the **Hide Advanced** link located in the lower left-hand section of the detail screen.

# Shades



Select the **Shades** tile from the Area Dashboard to open the **Shades** detail screen for the current area. The interactive screen provides an inventory of the shade groups across the top.

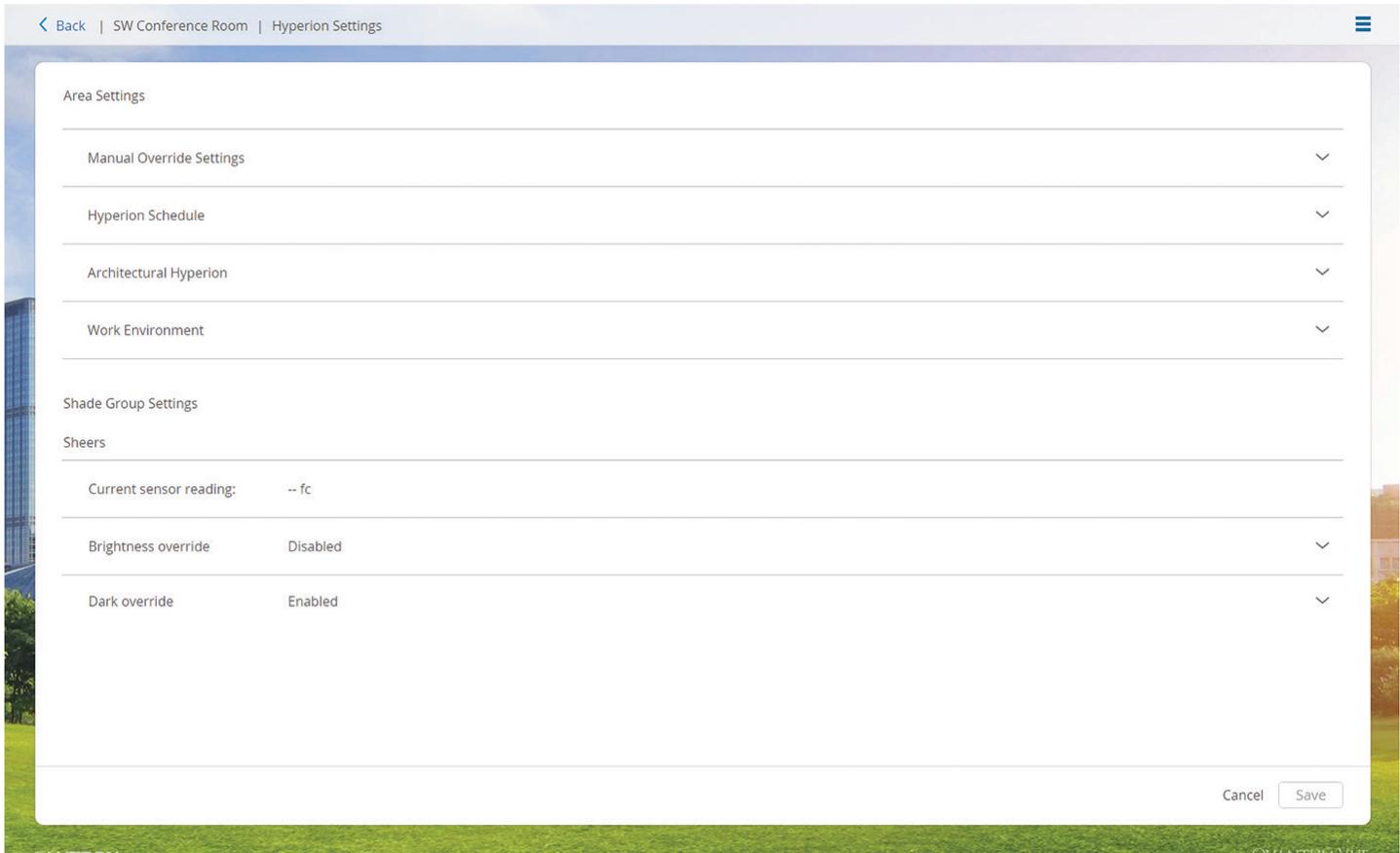
- Select a preset for each shade group: Select the corresponding button on the left-hand side of the shade image.
- Set the level for each shade group:
  - Press the raise/lower arrow buttons located below the preset buttons  
*or*
  - Enter a shade position into the % field under the shade image  
*or*
  - Drag the shade image itself to the desired level.
- Identify a shade group in the area (e.g., when there is more than one shade group and the names are not descriptive enough):
  1. Select the **Identify** link below the shade group that you want to identify: That shade group in the physical space will raise and lower several times.
  2. Select the **Identify** link again (the link will read **Stop** while the shade group is identifying): The shade group will stop moving.
  3. Select the **Rename** link and enter in a more descriptive name for the shade group. **Note:** The **Rename** link can also be used to rename the shade group presets.
- Edit any shade group preset:
  1. Set the desired level for the shade group using one of the methods specified above.
  2. Select the **Save To** link of the selected shade group.
  3. Choose the preset to which you would like to save the current shade level.

# Hyperion

The Hyperion system allows for the automatic control of shades based on the astronomical position of the sun in relation to the building. The shades will automatically adjust position throughout the day as the sun moves to allow optimal sunlight into the area.

1. Navigate to an area's Dashboard which contain shades.
2. Click the **Shades** tile to open area shade properties.
3. Enable and disable the Hyperion using the Enabled/Disabled slider at the bottom.
  - a. When disabling the Hyperion, you must choose whether to disable Hyperion indefinitely or until the end of day.
4. Click on the **Adjust Hyperion Settings** link at the bottom of the page.
5. Adjust Manual Override, Hyperion Schedule, Architectural Hyperion, and Work Environment settings for the area.
6. Click **Save** or **Cancel** when finished.
7. Click the **View History** link at the bottom right of the page.
8. View the area's shade level history.

# Hyperion Settings



The Hyperion settings page allows a user to configure Hyperion settings for a specific area, rather than using project-wide settings.

## Area Settings

- **Manual Override Settings:** Adjust how long the Hyperion software is disabled when an occupant moves the shades.
- **Hyperion Schedule:** Adjust when the Hyperion Schedule will start and end automatic movement of the shades.
- **Architectural Hyperion:** Adjust between moving the shades to preset levels or moving to any level.
- **Work Environment:** Adjust the room configuration settings.

## Shade Group Settings

- **Current sensor reading:** Displays the current fc value of the light level sensor.
- **Brightness override:** Adjust the light level value for a very bright instance and how the shades will react.
- **Dark override:** Adjust the light level value for a very dark instance and how the shades will react.

# Hyperion Adjustment Wizard

Shades | SW Conference Room A | Hyperion Adjustment Wizard ☰

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Hyperion Adjustment Wizard [Manually adjust settings](#)

What was the problem?



Area was too bright



Area was too dark



Shades are moving too frequently

What shade group experienced the problem? Sheers [Identify](#)

Around when did the problem occur?  at  :   [View occupant activity](#)

[View recommendations](#)

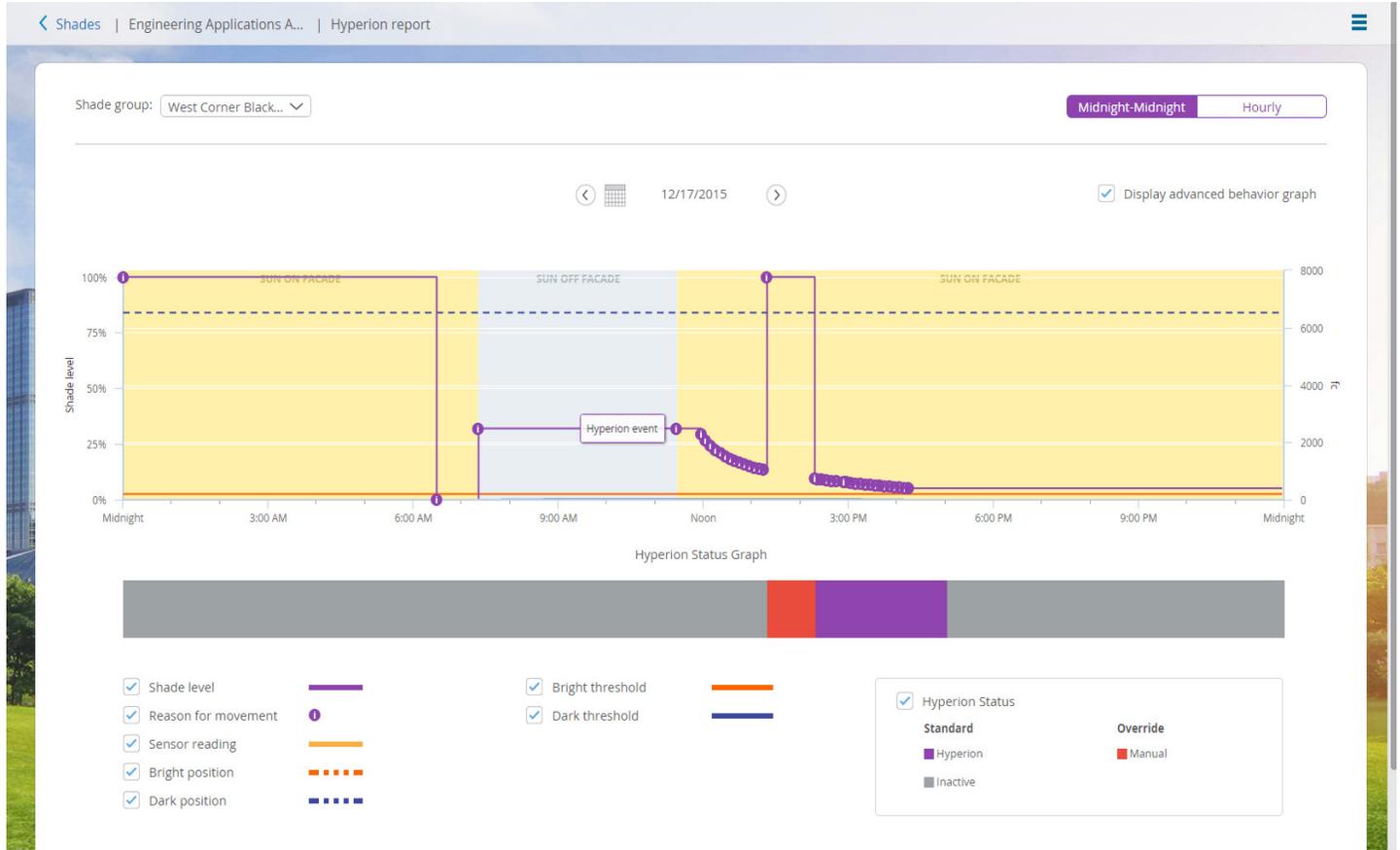
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Recommended changes ⓘ [History of changes](#)

Relevance	Setting	From	To	Action
<div style="width: 20%; height: 10px; background-color: #4a4a8a;"></div>	Bright override position ⓘ	10 %	<input type="text" value="15"/> %	<a href="#">Apply</a>

The Hyperion Adjustment Wizard analyzes the history of your automated shades to recommend changes that will improve Hyperion performance for that space. You pick one of the three options that best describe what you are seeing, which shade group experienced the problem (if have multiple shade groups and are unsure which one is the one you want you can click **Identify** next to the name and that shade group will move up and down) and when did the problem occur, then click **View Recommendations**. You can receive multiple suggestions you can click ⓘ to open a pop-up that will give an explanation for that recommendation.

# Hyperion Report



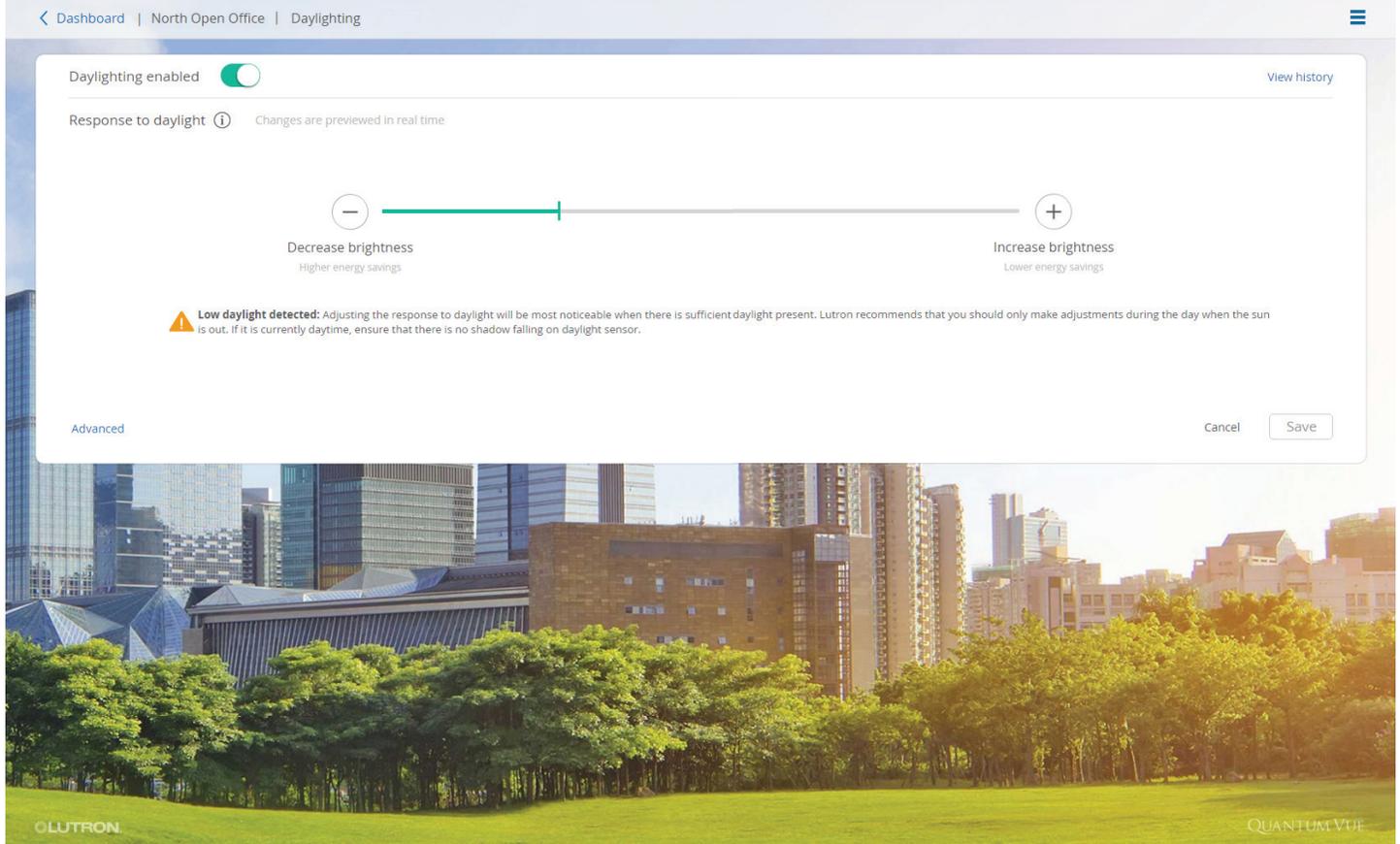
The **Shade History Report** displays how the Hyperion software has been operating to automatically control the shades to minimize glare and provide optimal shading performance.

- Select a **Shade group** in order to view historical data.
  - Use the **Shade group** drop-down at the top left part of the screen.
- Select the **time frame** for which you want to review historical data.
  - Use the selection control at the top right part of the screen to select a **24-hour** view or an **Hourly** view.
  - Use the controls at the top center part of the screen to select the **24-hour** or **Hourly** period that you want to view.
- Using the check boxes at the bottom of the screen, select which items you would like to appear in the graph. You can choose to display the shade level, the reason for shade movements, various Hyperion setting thresholds, the Hyperion mode, and the window sensor reading.

Using this data, you can see how the shades move in response to the current sensor value and the specified Hyperion threshold settings.

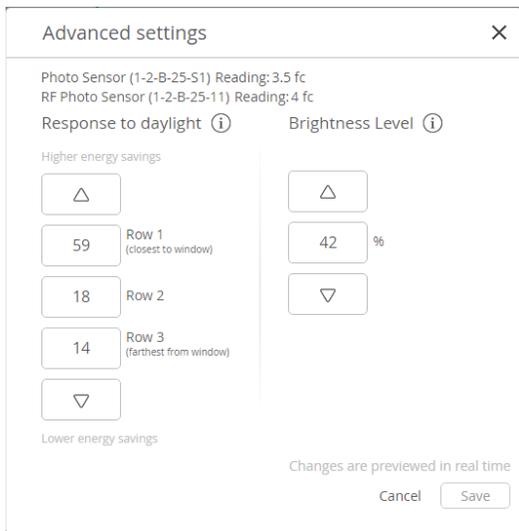
Note that the sensor reading may be the reading from a single sensor, or it may be an average of values taken from more than one sensor, depending on how the Hyperion settings have been configured.

# Daylighting



The Daylighting screen allows you to change how an area's lights will respond to the daylight sensors. The slider allows you to determine how aggressively the lights dim in response to the natural daylight entering the space. You can disable daylighting from affecting the lights in this area with the slide button in the upper left

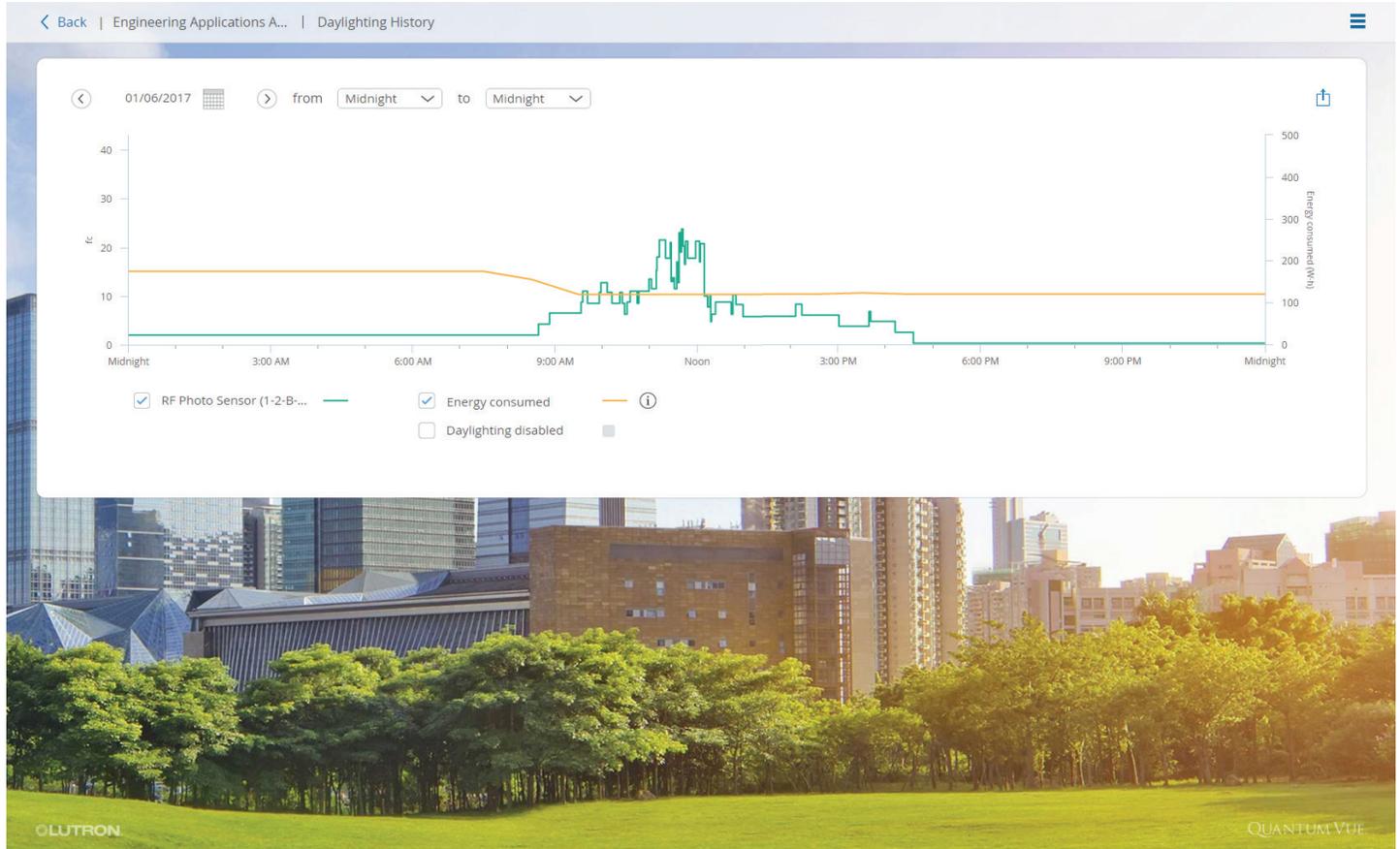
Ex. If you want the lights to be very dim when there is a lot of natural light coming in you move the slider to decrease brightness.



If you have multiple rows of lights that are affected by daylighting you can click on the **Advanced Link**. By doing this you can adjust how much each row is affected by the daylight sensor. Usually rows closer to the window receive more daylight and can dim down more than the rows farther from the window.

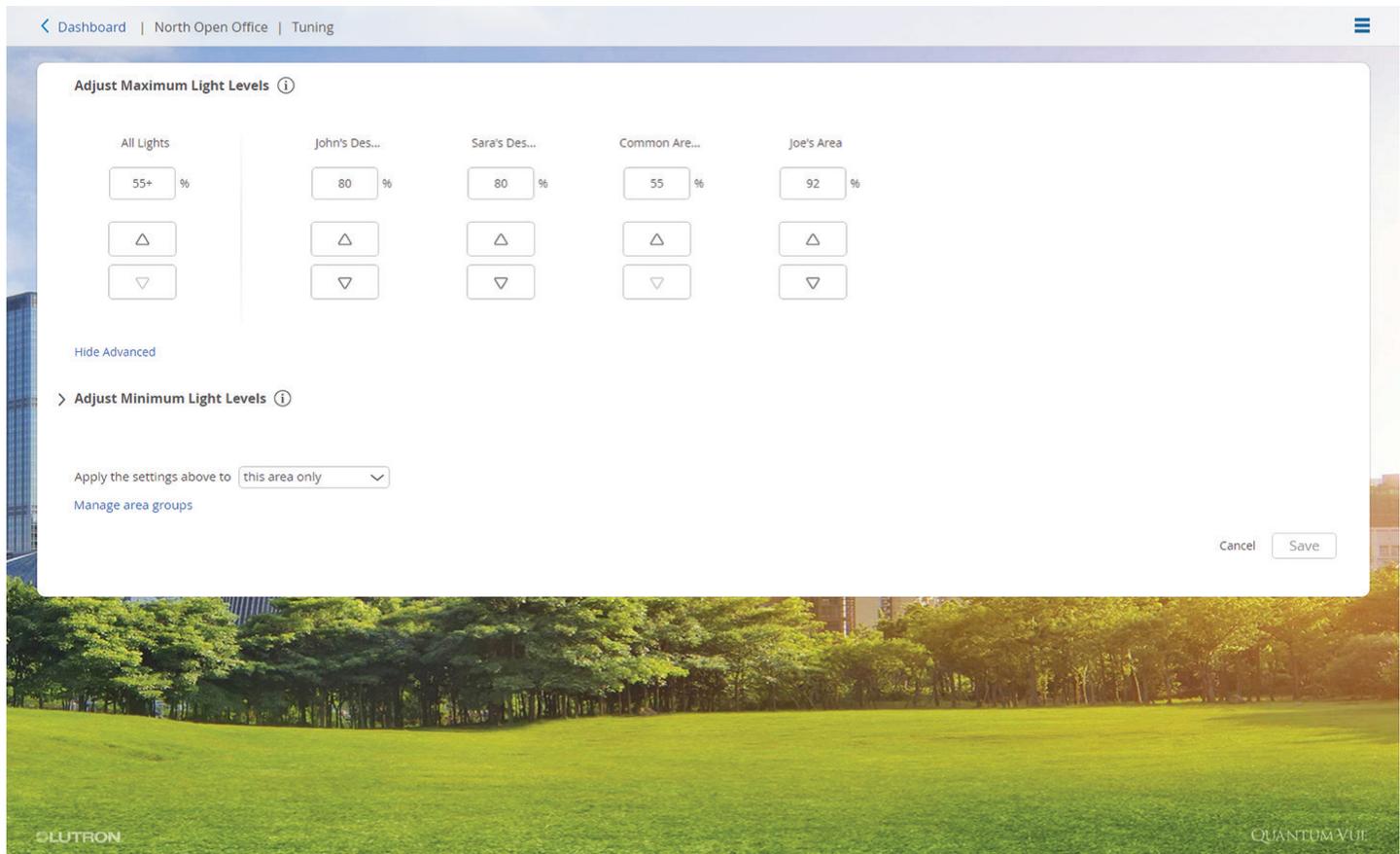
You can also set a brightness level target, this is the amount of light the system will maintain in an area when the daylighting feature is active. When there is no daylight present, the lights will be at this level, when there is daylight present, the lights will dim down to achieve this level.

# Daylighting History



Clicking **View History** from the Daylighting screen will take you to the Daylighting History screen. This chart will show the fc reading of each sensor in the area if there are multiple sensors you can see the average of the sensors as well as each sensor. You can also compare your daylight sensor readings with your energy consumed for that area to see how daylighting is lowering energy consumption. You can export the data from this chart by click on the  in the upper right corner.

# Tuning: High-End Trim



Select the **Tuning** tile on the Area Dashboard to view and adjust the high-end trim of the lights in the currently selected area.

- Adjust all lights: Enter a new value in the **All Lights %** field or press the raise/lower arrow buttons located below the field.
- Adjust individual lighting zones in the area: Click on or touch the **Advanced** link located in the lower left-hand section of the detail screen. High-end trim levels for each zone will be shown to the right of the **All Lights** adjustment controls. Adjust the high-end trim of each zone independently, as desired.
- Click on or touch the **Save** button to commit your changes to the system.

**Note:** In certain rare cases, a zone may have a high-end trim that cannot be adjusted because of advanced settings configured in the Q-Design software; this may happen when individual fixtures within the zone have different high-end trim levels.

- To apply new settings to the area's area group, select the area group name from the **Apply the settings above** to drop-down menu. You can optionally apply settings to **All areas** which is a default system wide area group.

**Note:** The area must already be assigned to an area group to apply changes to the area group.

# Tuning: Low-End Trim

Dashboard | Open Office East | Tuning

### Adjust Maximum Light Levels

All Lights	Zone 01	Zone 02	Zone 03	Zone 04	Zone 05	Zone 06
55+ %	55 %	55 %	55 %	55 %	55 %	55 %
△	△	△	△	△	△	△
▽	▽	▽	▽	▽	▽	▽

[Hide Advanced](#)

### Adjust Minimum Light Levels

Use if lights are flickering or if lights dim too dark or if light dimming needs transition adjustments.

All Lights	Zone 01	Zone 02	Zone 03	Zone 04	Zone 05	Zone 06
28 %	28 %	28 %	28 %	28 %	28 %	28 %
△	△	△	△	△	△	△
▽	▽	▽	▽	▽	▽	▽

Apply the settings above to

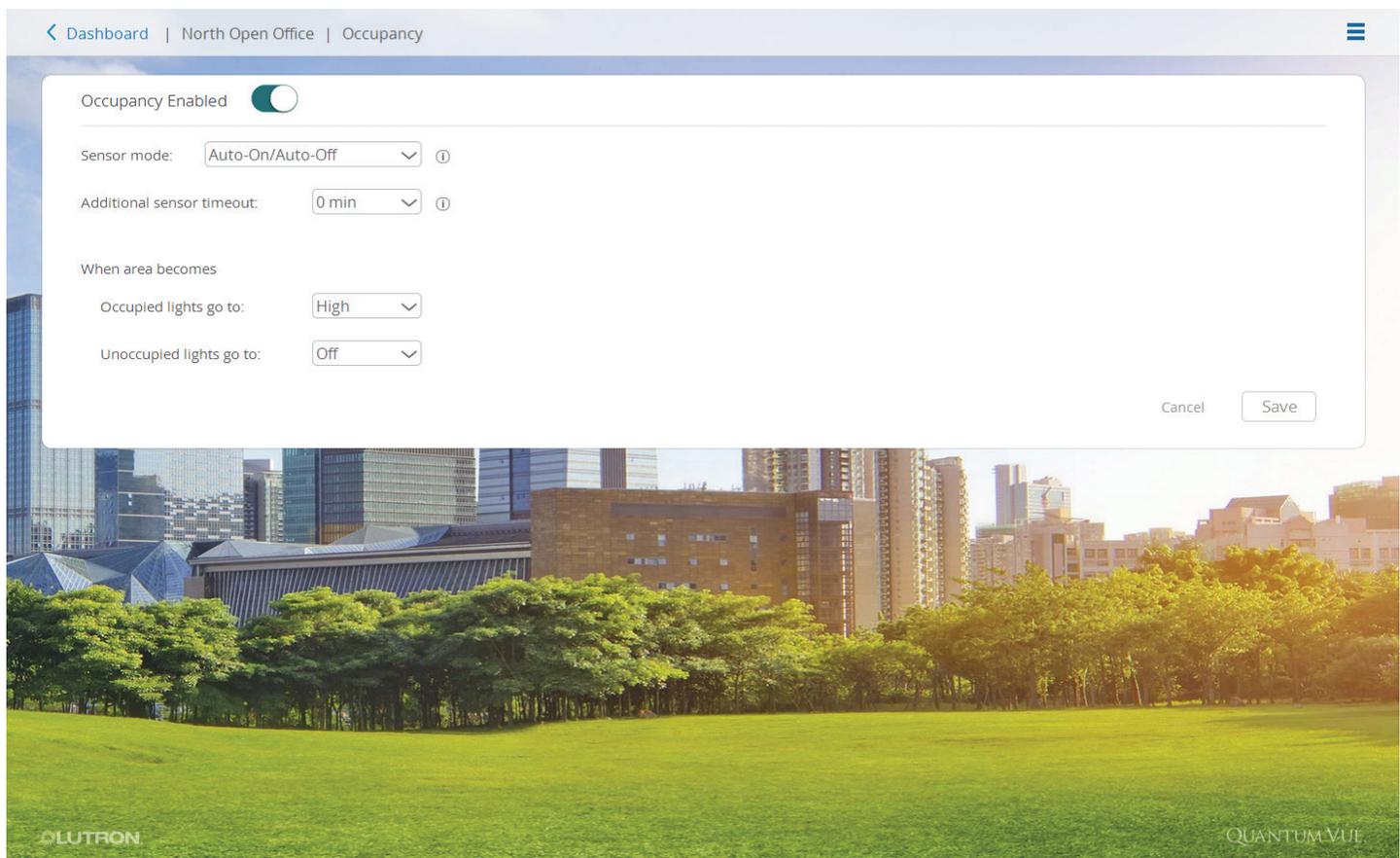
[Manage Space Types](#)

Cancel Save

Select the Tuning tile on the Area Dashboard to view and adjust the low-end trim of the lights in the currently selected area.

- Click **Adjust Minimum Light Levels** to expand the controls to adjust low-end trim.
- Adjust all lights: Enter a new value in the **All Lights** % field or press the raise/lower arrow buttons located below the field.
- Adjust individual lighting zones in the area: Enter a new value for each individual lights % field or press the raise/lower arrow buttons located below each field.
- Click on or touch the Save button to commit your changes to the system.
- To apply new settings to the area's area group, select the area group name from the **Apply the settings above to** drop-down menu. You can optionally apply settings to **All areas** which is a default system wide area group.  
**Note:** The area must already be assigned to an area group to apply changes to the area group.

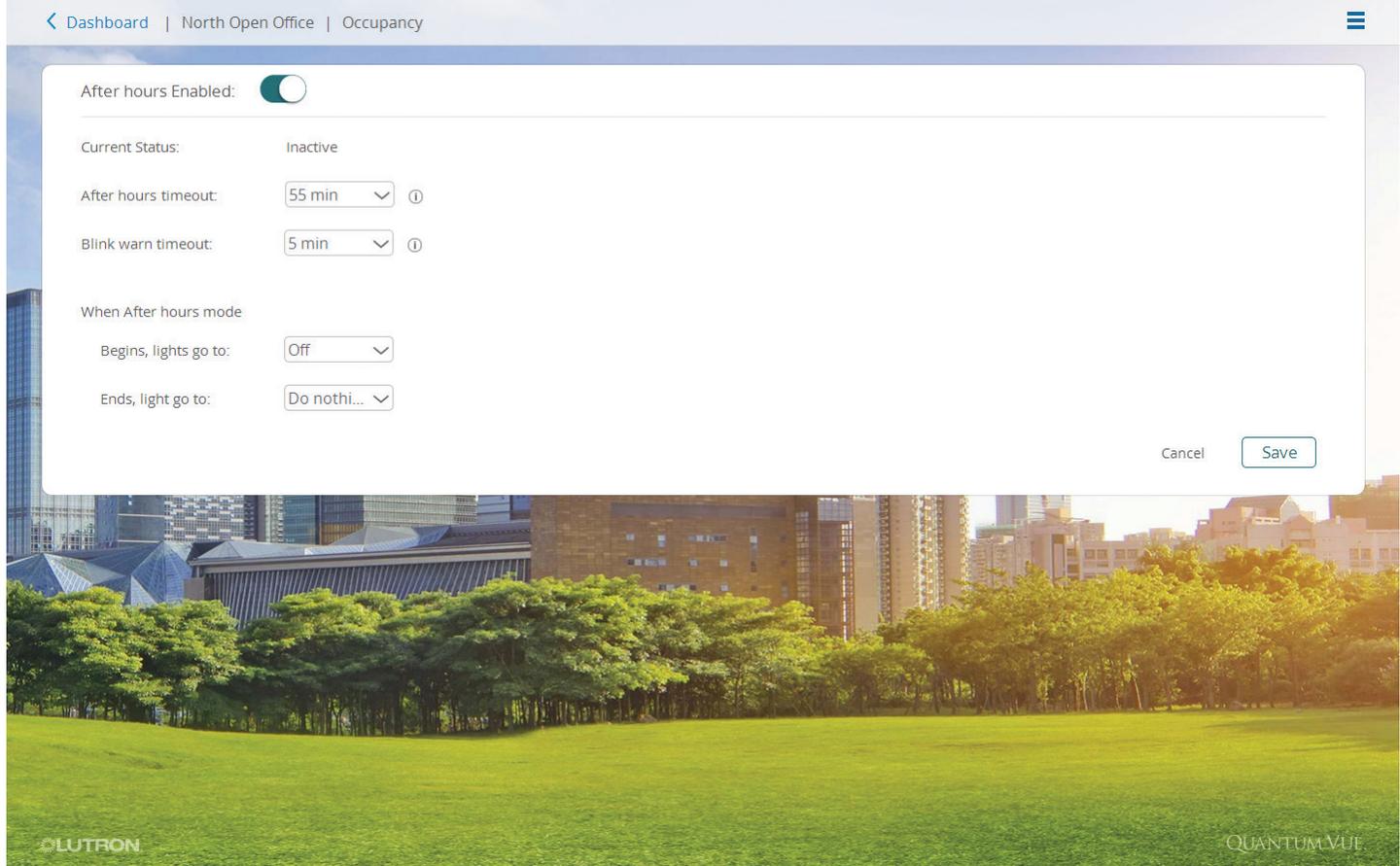
# Occupancy: Sensors



Select the **Occupancy** tile on the Area Dashboard to view and adjust the occupancy settings for the selected area. If occupancy sensors are in use for the selected area, you will see a screen similar to the one pictured above.

- Enable or disable occupancy processing for the current area: Toggle the **Occupancy** enable/disable control located in the upper left-hand section of the detail screen. If occupancy is disabled, the sensor(s) in the area will not turn the lights on or off when occupancy or vacancy is detected.
- Adjust the occupancy control behavior for the area: **Click** on or touch the **Sensor Mode** drop-down menu to select desired function.
  - Auto-On/Auto-Off: lights will be controlled when occupancy is detected and when vacancy is detected.
  - Auto-Off Only: lights will be controlled only when vacancy is detected—lights will need to be manually turned on when persons enter the room.
- Add an additional timeout value to the sensor(s) in the area. This timeout is the time interval that the system will wait after detecting vacancy and before sending the lights to the unoccupied level. **Note:** This value is in addition to the timeout that is set locally on the sensor(s) themselves (most occupancy sensors have a timeout dial or control button on the rear portion of the sensor; this parameter cannot be controlled from the system and must be adjusted manually).
- Specify the occupied and unoccupied light levels or lighting scenes that will be activated by the system when occupancy or vacancy, respectively, are detected in the area.
- To apply new settings to the area's area group, select the area group name from the **Apply the settings above to** drop-down menu. You can optionally apply settings to **All areas** which is a default system wide area group. **Note:** The area must already be assigned to an area group to apply changes to the area group.

# Occupancy: After Hours



**After Hours** manages light levels during non-work/non-business hours in areas that are not controlled by occupancy sensors.

Just before After Hours begins, the system initiates the **Blink Warn Timeout**—flashes the lights in the area—to alert occupants that the lights will be going to a low, After Hours light level (generally off).

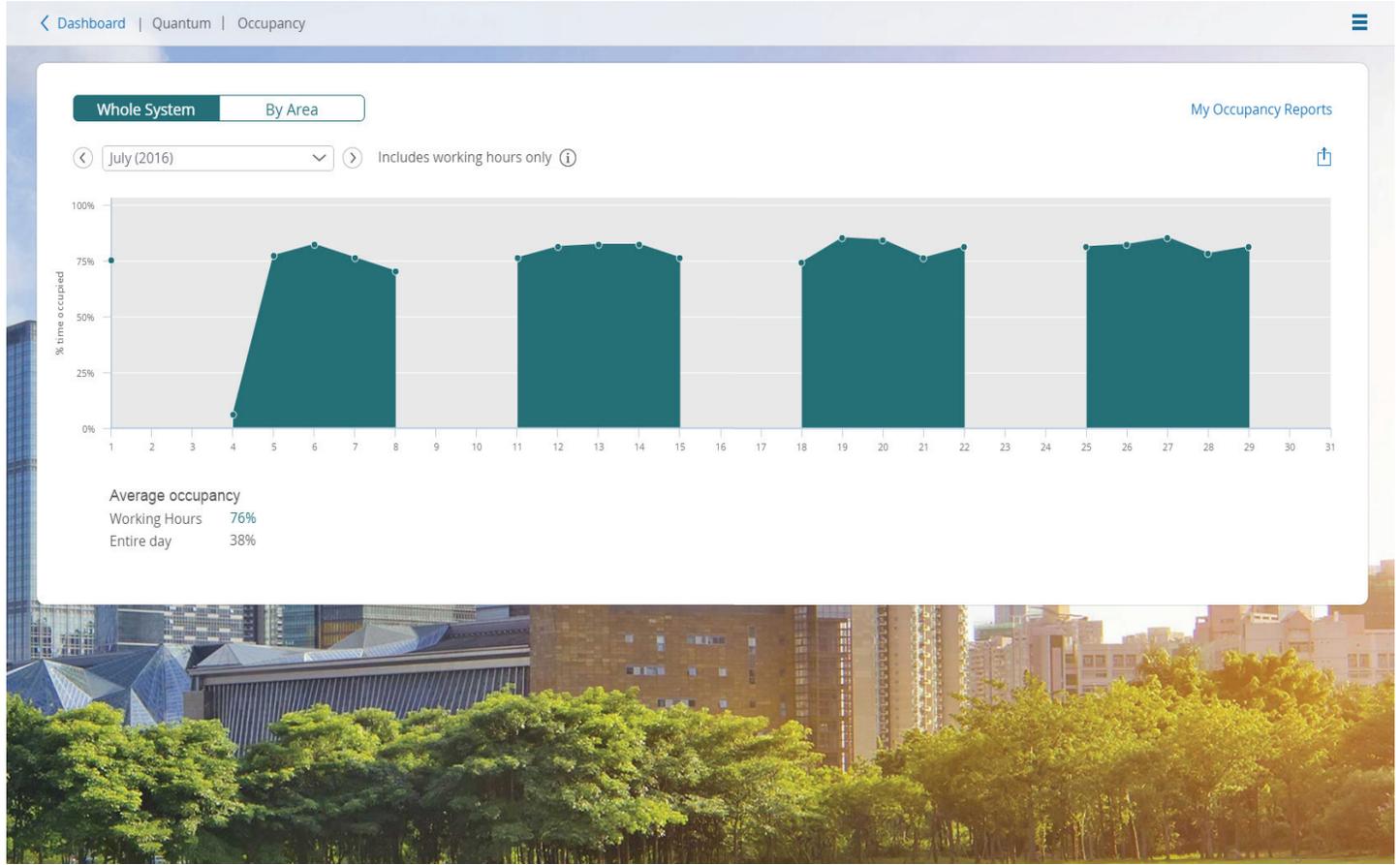
After the **Blink Warn Timeout**, the system will turn the lights to the After Hours level.

If an occupant uses a wall control at any time, either during the Blink Warn period or after the lights have been sent to the After Hours level, the system will wait for a longer timeout period — “After Hours timeout” — before again flashing the lights and preparing to send the lights to the After Hours level.

- Select the **After Hours** tile on the Area Dashboard to view and adjust the After Hours settings for the selected area. The **After Hours** tile will be present only for areas that have been configured to use After Hours in the Q-Design software.
- Enable or disable After Hours behavior in the current area: Toggle the **After Hours** enable/disable control located in the upper left-hand section of the detail screen.
- Adjust the After Hours settings: Use the drop-down menus on the screen.

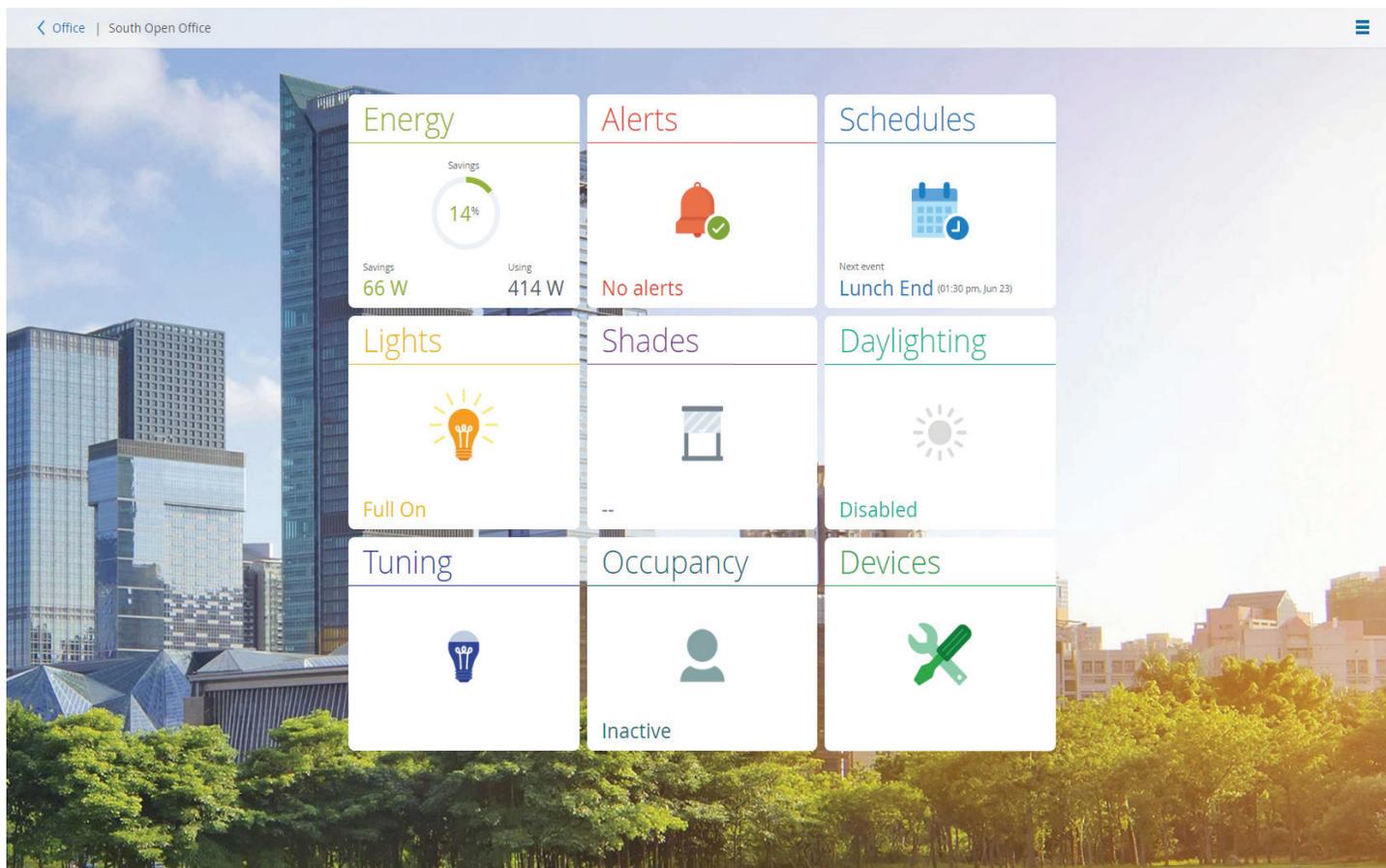
**Note:** To specify the times at which After Hours begins and ends for the current area, create events to start and end after-hours with the **Schedules** feature.

# Occupancy



The Occupancy page allows the user to monitor the usage of areas based on the amount of time the areas are occupied. By monitoring the occupancy of areas the user can see if an area is being utilized to its fullest extent. There are two main views you can choose: **Whole System** and **By Area**. Whole System will give an average occupied percentage based off of working hours and for the entire day. By Area gives the percent time occupied for each area during working hours only.

# Keypad Lock/Unlock



A user can lock a keypad from a Quantum Vue system, so a button press on that keypad will not perform the action assigned to it.

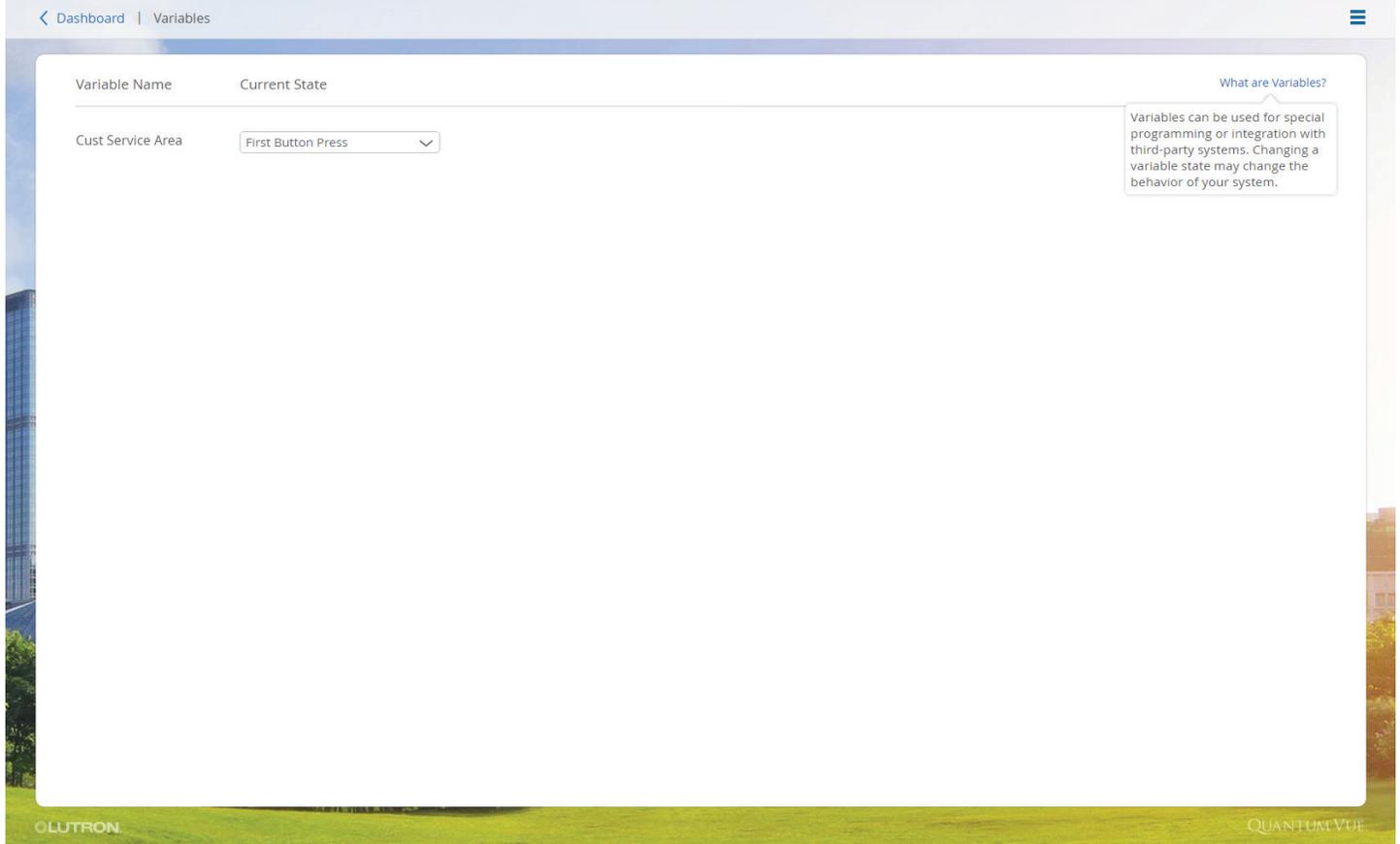


Click on the **Devices** tile from the area dashboard. This will take you to the Devices page where you will have the option to lock/unlock individual keypads or all keypads.



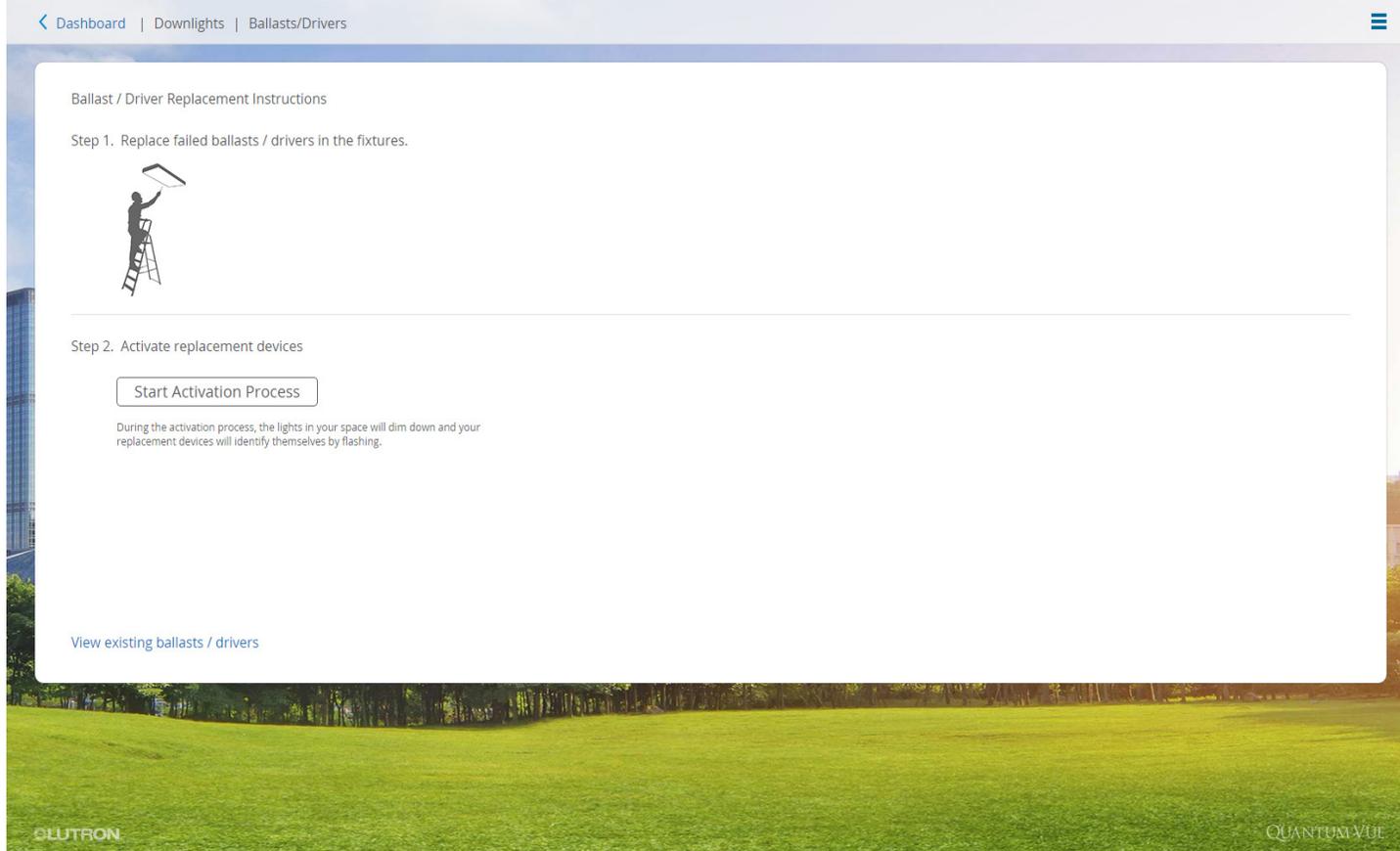
When you are on the Devices page, you move the slider to lock individual keypads or hit the “Lock all” link to lock all keypads in that area.

# Variables



The Variables screen will show all variables that are being used in the system. Variables are used in the lighting system to change the operation of the system based on the state of the variable. You can manually change the state of the variable from this screen.

# Ballast Replacement



Select the **Ballast/Drivers** tile on the Area Dashboard. If a ballast/driver fails on a DBI or ECO loop, you are able to address a replacement ballast/driver from this screen.

**Note:** If only one ballast/driver has failed on a loop, then auto-replacement will work automatically when the ballast/driver is replaced in the space. This feature is only for multiple ballast/driver replacements.

- Replace the failed ballast/driver with an unaddressed ballast.
- Click on the **Start Activation Process** button.
- If the area contains more than one link of ballasts/drivers, you will be able to flash both links to help identify and select the link that contains the ballast you are trying to replace.
- A loading screen will appear, then, after a few minutes, a message will appear asking if the ballast/driver you would like to activate is flashing.
- If the light connected to the ballast/driver that was replaced is flashing click **Yes**. Otherwise click '**No, Flash Next**', until the correct ballast is flashing. Click **Yes**.
- Additional steps may be required to flash and select the appropriate zone, flash and select the appropriate daylighting row, and flash and select the appropriate fixture type to which the ballast is assigned. These steps may be necessary to properly identify the driver.
- A **Confirm ballast/driver assignment** screen will appear showing where the ballast/driver is assigned. Click **Close**.
- If there are more unaddressed ballasts to activate, you can continue addressing ballasts/drivers in the same manner or click **Save** to exit addressing mode and save the current state.
- If all unaddressed ballasts are replaced, a message will appear stating that all ballasts/drivers have been found and are ready for activation. Click **Save Changes** to finalize the assignment.

---

# Q-Admin

# Diagnostics: Check Status

The system is waiting for a response...

The system will periodically refresh the state of all items displayed in the grid. To refresh the status of an item manually, right click on the item and select refresh

Show Devices with Status:

OK     Unknown     Not in Database\*     Not Responding

Expand All  
Collapse All  
Show Area Numbers...

Show Report    Customize Columns...

Device	Device Type	Firmware Available	Current/Available Rev
Office Building\Second Floor\Conference Rooms\Conference Room 221\QUANTUM PANEL CAFETERIA - Processor 1	Processor		
Link B (DBI Link)			
Office Building\Second Floor\Conference Rooms\Conference Room 221\QUANTUM PANEL CAFETERIA - DBI Loop 1	Digital Ballast Bus Controller	0.8.06/0.8.06	
Office Building\Second Floor\Conference Rooms\Conference Room 221\QUANTUM PANEL CAFETERIA - DBI Loop 2	Digital Ballast Bus Controller	0.8.06/0.8.06	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-1, Address: 1	EcoSystem Digital Ballast	?	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-2, Address: 2	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-3, Address: 3	EcoSystem Digital Ballast		
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-4, Address: 4	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-5, Address: 5	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-6, Address: 6	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-7, Address: 7	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-8, Address: 8	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-9, Address: 9	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-10, Address: 10	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-11, Address: 11	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\2-12, Address: 12	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Conference Rooms\Conference Room 221\QUANTUM PANEL CAFETERIA - DBI Loop 3	Digital Ballast Bus Controller	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-01, Address: 1	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-02, Address: 2	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-03, Address: 3	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-04, Address: 4	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-05, Address: 5	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-06, Address: 6	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-07, Address: 7	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-08, Address: 8	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office North\3-09, Address: 9	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office South\3-10, Address: 10	EcoSystem Digital Ballast	0.4.12/0.4.12	
Office Building\Second Floor\Open Office Areas\Open Office South\3-11, Address: 11	EcoSystem Digital Ballast	0.4.12/0.4.12	

\* - Device that is responding does not appear in database.  
- A device somewhere below this device has a problem.

⚙ = New firmware available for this device

Logged in User: admin    Logged in Time: Wednesday, April 20, 2011 4:27:35 PM

Diagnostics allows the building manager to check the status of all equipment in the lighting control system.

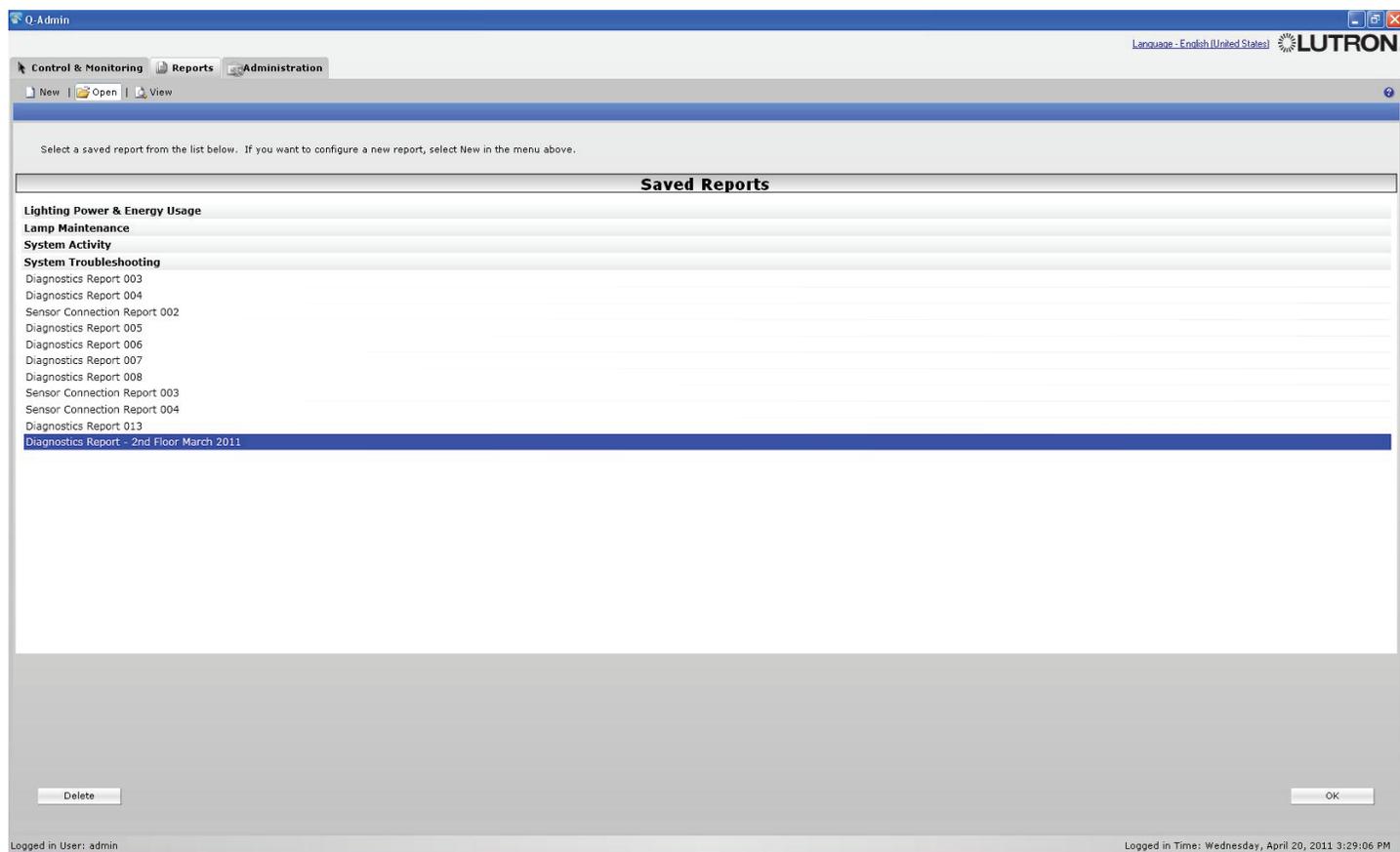
## View Diagnostics

Devices will be listed with a reporting status of OK, missing, not in database, or unknown. Check or uncheck the filters above the grid (**OK**, **Unknown**, **Not in Database**, **Not Responding**) to show or hide devices with those states. At any time, click the **Show Report** link above the grid to show the same information in a report form; this report can be saved, exported to .xls or .csv formats, and printed.

## View which devices are currently not responding

1. Make sure the **Not Responding** checkbox at the top of the screen is checked. All other checkboxes can be unchecked to filter the list to only non-responding devices.
2. Use the diagnostics tree to navigate to which devices are currently not responding, or click **Expand All** to show all devices.
3. To generate a report that can be printed or saved, click on **Show Report**.

# Reports: Open a Report



## Open a Report

### Open a saved report

1. Click **Open** in the **Reports** tab.
2. Click the selected report.
3. Click **OK**. The report will be loaded in a new subtab under the **View** tab.

# Reports: Save, Print, and Export a Report

Lighting Energy Usage Report 036

Report Generated on: Wednesday, April 20, 2011 3:38:40 PM

Area	Energy (kWh)
Office Building\Second Floor\Open Office Areas\Open Office North	63.9
Office Building\Second Floor\Open Office Areas\Open Office South	49.4
Office Building\Second Floor\Conference Rooms\Conference Room 221	49.7

Export Report Data

Choose the format in which you want the report data to be exported:

- Excel Sheet (\*.xls)
- JPEG Document (\*.jpg)
- Comma Separated Text Document (\*.csv)

Export the report data at:

c:\data\energy\_usage\_report20110420.xls

Open file after Export

Lighting Energy Usage Report

Graphical View  
 Tabular View

How much energy did the lighting in...

[Click here to select Areas...](#)

No.	Areas
1	Office Building\Second Floor\Open Office Areas\...
2	Office Building\Second Floor\Open Office Areas\...
3	Office Building\Second Floor\Conference Rooms\...

use over the...

Last 7 days

Logged in User: admin

Logged in Time: Wednesday, April 20, 2011 3:29:06 PM

## Save, Print, and Export a Report

Reports can be printed and saved. Exporting to Excel format (.xls) requires Microsoft® Excel® 2003 or newer to be installed; alternatively, reports may be exported in .csv format. All reports can be exported in tabular format (to .xls or .csv). Only reports that have a graphical view can be exported to the .jpg image format.

### Save a report that has been created

1. Click **Save** or **Save As...**
2. If saving for the first time (or choosing **Save As...**), you will be prompted for the report name. Change the default name, if desired, and click **Save**.

### Print a report

1. Click **Print**.
2. Select the desired printer, choose options, if desired, and click **OK**.

### Save a report to a file

1. Click **Export**.
2. Select the desired output format (.xls, .jpg, or .csv).
3. Choose the output file name by typing in the text box and/or using the **Browse...** button.
4. Afterwards, to open the file in the default spreadsheet or image application, check **Open File after Export**.
5. Click **Export**.

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# Reports: Options

The screenshot shows the Lutron Q-Admin software interface. The main window displays a 'Lighting Energy Usage Report' for '2nd Floor March 2011'. A dialog box titled 'Selected areas' is open, allowing the user to choose specific areas for the report. The dialog box contains a tree view of areas and a 'Selected' column with checkboxes. The 'Selected areas' dialog box is as follows:

Area	Selected
Office Building	<input type="checkbox"/>
First Floor	<input type="checkbox"/>
Second Floor	<input type="checkbox"/>
Open Office Areas	<input type="checkbox"/>
Open Office North	<input checked="" type="checkbox"/>
Open Office South	<input checked="" type="checkbox"/>
Conference Rooms	<input type="checkbox"/>
Conference Room 221	<input checked="" type="checkbox"/>
Conference Room 222	<input type="checkbox"/>
Private Offices	<input type="checkbox"/>

The right-hand panel of the report shows options for 'Graphical View' (selected) and 'Tabular View'. Below this, there is a table with the following data:

No.	Areas
1	Office Building\Second Floor\Open Office Areas\...
2	Office Building\Second Floor\Open Office Areas\...

The interface also includes a 'Click here to select Areas...' link and a 'Last 7 days' dropdown menu. The status bar at the bottom indicates 'Logged in User: admin' and 'Logged in Time: Wednesday, April 20, 2011 3:29:06 PM'.

## Report Options

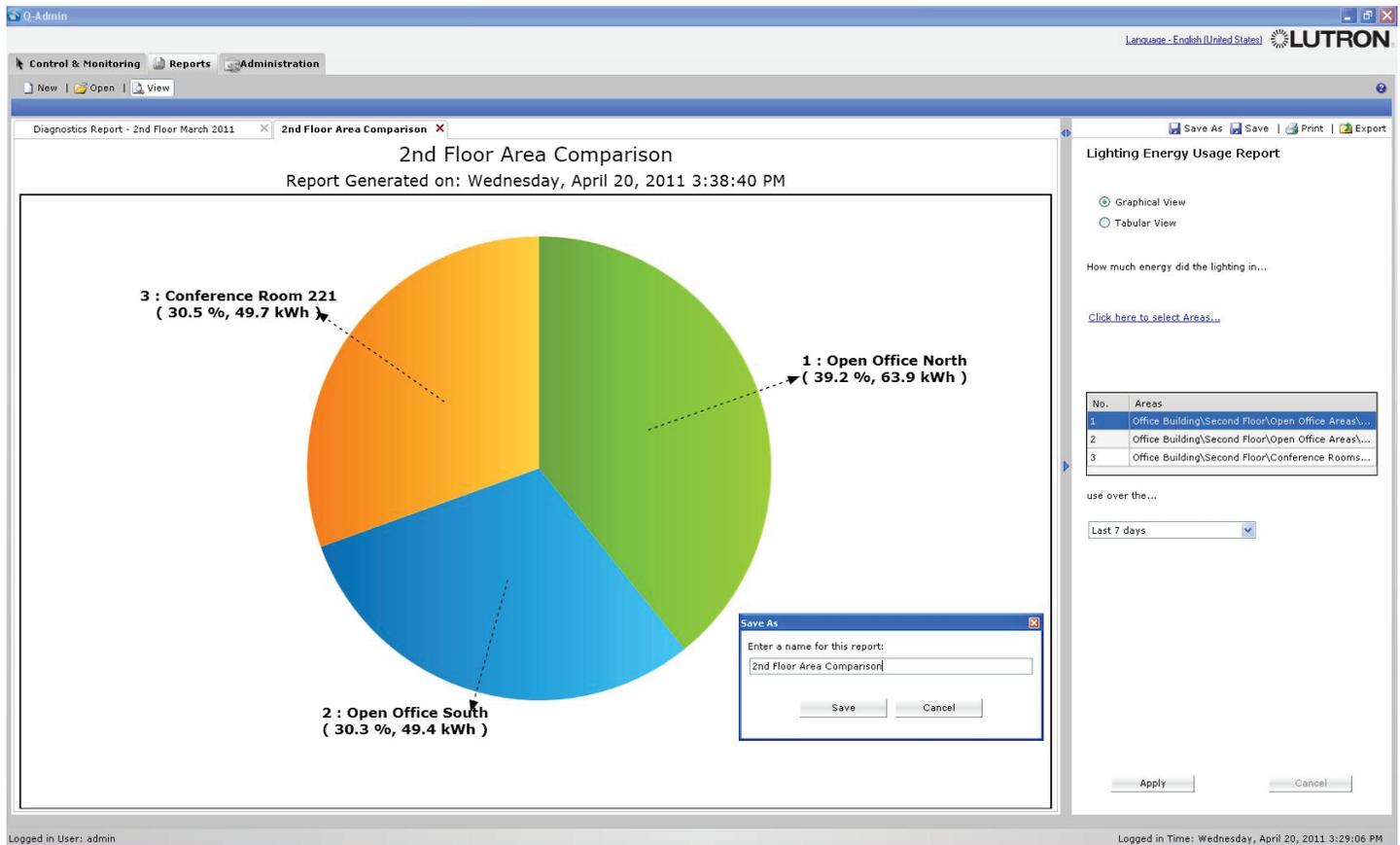
Reports can be run with different options (e.g., the report above can be run for one or more areas over a specified time period).

### Choose areas displayed in a report

1. Click **Click here to select Areas...**
2. Check one or more areas in the area tree.
3. Click **OK**.

To change other options in reports, use the appropriate controls on the right-hand panel. Available options vary by report.

# Reports: Lighting Energy Usage Report



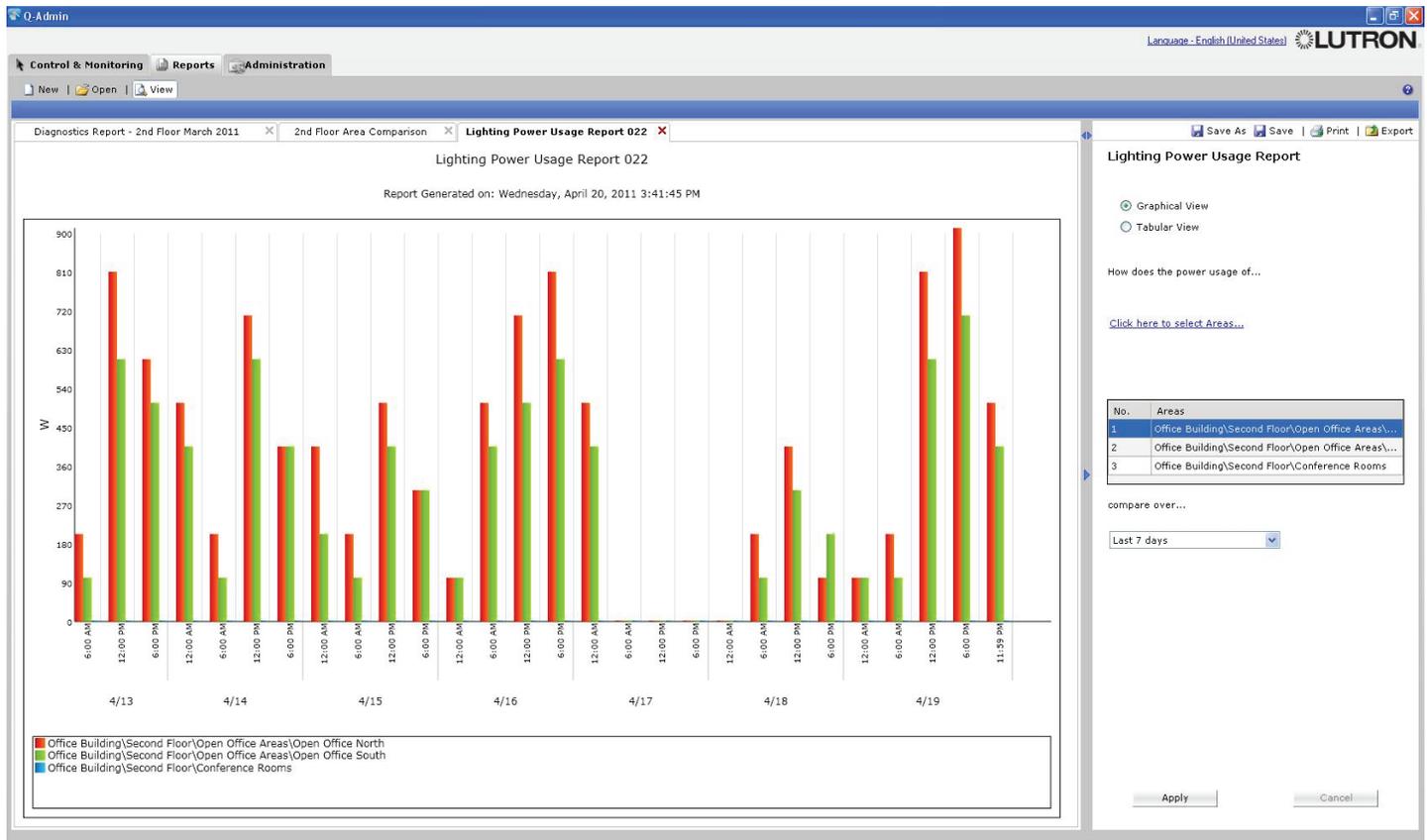
## Lighting Energy Usage Report — “How much energy did the lighting in [selected areas] use over [time period]?”

This report shows a pie chart comparing multiple areas over a period of time. It can be used to find which areas are using the most energy.

### Create a Lighting Energy Usage Report

1. Select the areas to compare by using the **Click here to select Areas...** link.
2. Choose the time frame by using the drop-down menu on the right.
3. Click **Apply**.

# Reports: Lighting Power Usage Report



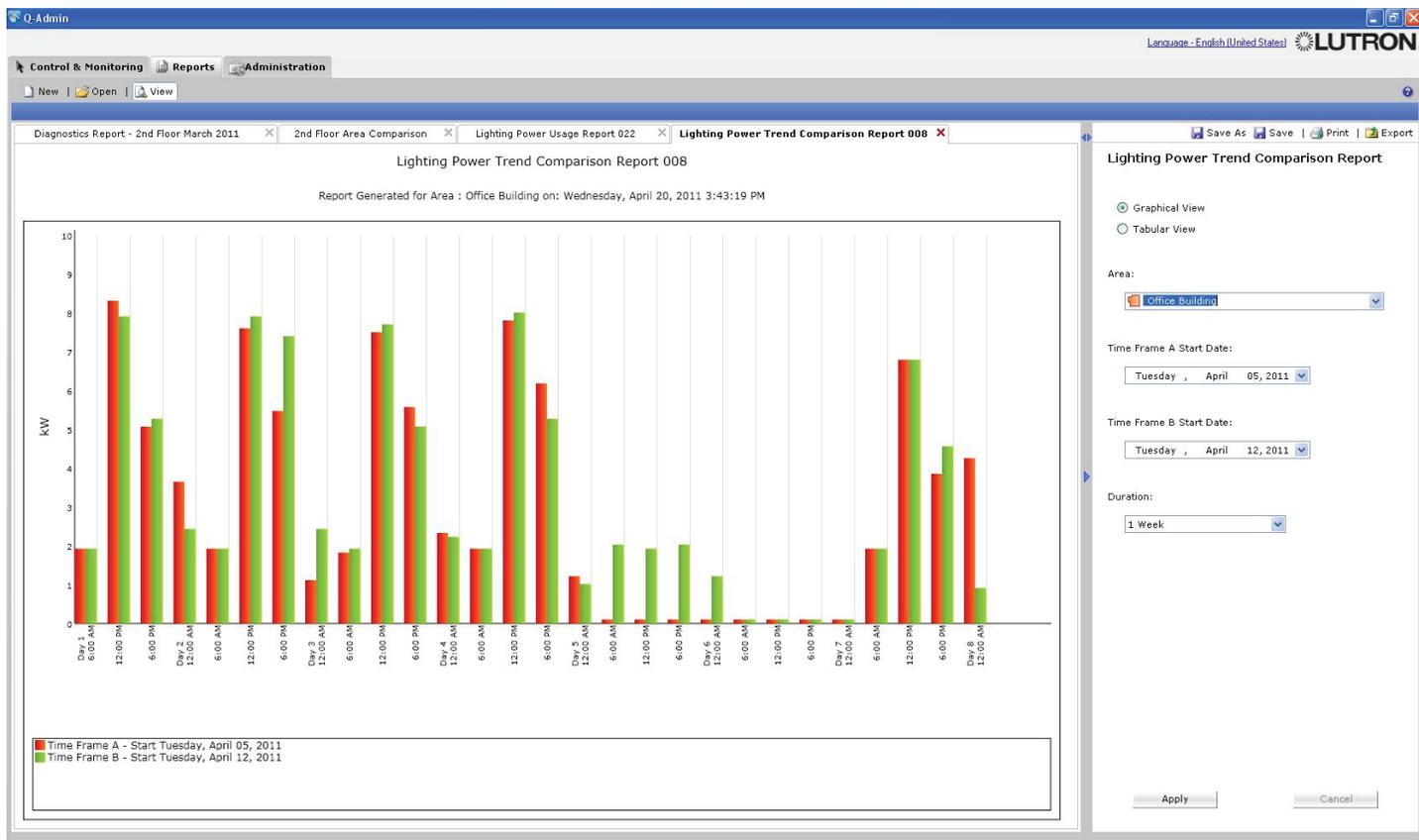
**Lighting Power Usage Report** – “How does the power usage of [selected areas] compare over [time period]?”

This report shows a bar graph comparing multiple areas' energy usage over a period of time.

## Create a Lighting Power Usage Report

1. Select the areas to compare by using the **Click here to select Areas...** link.
2. Choose the time frame by using the drop-down menu on the right.
3. Click **Apply**.

# Reports: Lighting Power Trend Comparison Report



## Lighting Power Trend Comparison Report – “How does the power usage of [selected area] compare over [selected time frames]?”

This report shows power usage for a particular area over two different time spans. For example, this can be used to compare this week’s energy usage with that of last week.

### Create a Lighting Power Trend Comparison Report

1. Select the area by using the drop-down menu on the right.
2. Choose the first date by using the **Time Frame A Start Date** drop-down menu.
3. Choose the second date by using the **Time Frame B Start Date** drop-down menu.
4. Select the time span in the **Duration** drop-down menu.
5. Click **Apply**.

# Reports: Lamp Maintenance Report

The screenshot shows the Lutron Q-Admin interface. The main window displays a report titled "Lamp Maintenance Report 001" with the subtitle "Areas reporting failed lamps Thursday, June 09, 2011 3:44:29 PM". The report content is a table with two columns: "Areas" and "# Failures".

Areas	# Failures
Office Building	2
Fourth Floor	2
Northwest Quad	2
Conference Rooms	2
Conference Room 46	1
Partitioned Conference Room 47	1
Partitioned Conference Room 47A	1

On the right side of the interface, there is a panel titled "Lamp Maintenance Report" with the question "Which Areas are reporting failed lamps?". Below this, there is a section "Only show me areas in:" followed by a dropdown menu currently set to "Office Building". A tree view below the dropdown shows a hierarchical structure of the office building, including floors and specific rooms like "Open Office North", "Open Office South", "Conference Rooms", "Private Offices", "Restrooms", "Elevator Lobby", "Kitchen", "Copy Room", and "Electrical Closet". At the bottom of the panel are "Apply" and "Cancel" buttons.

## Lamp Maintenance Report — “Which Areas are reporting failed lamps?”

This report, run against a specified area, lists the number of failed lamps in that area or, if it is a folder area, the number of failed lamps in each of its child areas. Areas with no failures are not displayed.

### Create a Lamp Maintenance Report

1. Select an area in the drop-down menu.
2. Click **Apply**.

# Reports: System Activity Report

Lighting Power Usage Report 022 | Lighting Power Trend Comparison Report 008 | Lamp Maintenance Report 013 | **System Activity Report 036** | Sensor Connection Report 005

System Activity Report 036  
Report Generated on: Wednesday, April 20, 2011 4:21:24 PM

Date / Time	User	Event
4/20/2011 3:20:24 PM	System Status	Office Building\Second Floor\West 2 Dining Area (Demo Area)\DINING AREA 3 SOLAR SHADE 2 sent to 35 %
4/20/2011 3:20:24 PM	System Status	Office Building\Second Floor\West 2 Dining Area (Demo Area)\DINING AREA 3 SOLAR SHADE 1 sent to 35 %
4/20/2011 3:15:24 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 2 sent to 38 %
4/20/2011 3:15:24 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 2 sent to 38 %
4/20/2011 3:15:24 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 1 sent to 38 %
4/20/2011 3:15:24 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 1 sent to 38 %
4/20/2011 3:00:26 PM	System Status	Office Building\Second Floor\West 2 Dining Area (Demo Area)\DINING AREA 3 SOLAR SHADE 2 sent to 39 %
4/20/2011 3:00:26 PM	System Status	Office Building\Second Floor\West 2 Dining Area (Demo Area)\DINING AREA 3 SOLAR SHADE 1 sent to 39 %
4/20/2011 3:00:23 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 2 sent to 41 %
4/20/2011 3:00:23 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 2 sent to 41 %
4/20/2011 3:00:23 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 1 sent to 41 %
4/20/2011 3:00:23 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 1 sent to 41 %
4/20/2011 2:45:23 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 1 sent to 45 %
4/20/2011 2:45:23 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 2 sent to 45 %
4/20/2011 2:45:23 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 2 sent to 45 %
4/20/2011 2:45:23 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 1 sent to 45 %
4/20/2011 2:40:23 PM	System Status	Office Building\Second Floor\West 2 Dining Area (Demo Area)\DINING AREA 3 SOLAR SHADE 1 sent to 45 %
4/20/2011 2:30:26 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 1 sent to 50 %
4/20/2011 2:30:26 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 2 sent to 50 %
4/20/2011 2:30:26 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 2 sent to 50 %
4/20/2011 2:30:26 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 1 sent to 50 %
4/20/2011 2:20:26 PM	System Status	Office Building\Second Floor\West 2 Dining Area (Demo Area)\DINING AREA 3 SOLAR SHADE 1 sent to 52 %
4/20/2011 2:20:26 PM	System Status	Office Building\Second Floor\West 2 Dining Area (Demo Area)\DINING AREA 3 SOLAR SHADE 2 sent to 52 %
4/20/2011 2:15:26 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 1 sent to 55 %
4/20/2011 2:15:26 PM	System Status	Office Building\Second Floor\North West Dining Area\DINING AREA 1 SOLAR SHADE 2 sent to 55 %
4/20/2011 2:15:26 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 2 sent to 55 %
4/20/2011 2:15:26 PM	System Status	Office Building\Second Floor\West 1 Dining Area\DINING AREA 2 SOLAR SHADE 1 sent to 55 %
4/20/2011 2:01:50 PM	Occupant	Office Building\Second Floor\Cafeteria Cue 121A\KITCHEN DOOR\Button 4 was Released
4/20/2011 2:01:50 PM	System Status	Office Building\Second Floor\Cafeteria Cue 121A changed to Scene Off Scene
4/20/2011 2:01:50 PM	Occupant	Office Building\Second Floor\Cafeteria Cue 121A\KITCHEN DOOR\Button 4 was Pressed
4/20/2011 2:01:50 PM	System Status	Office Building\Second Floor\Cafeteria Cue 121A\KITCHEN SERVING AREA CANS sent to 0 %

Logged in User: admin | Logged in Time: Wednesday, April 20, 2011 3:29:06 PM

## System Activity Report — “What activity occurred in [selected areas] over [time period]?”

This report gives a list of activity that has happened in the Quantum system (or in specified areas) over a given period of time. The report will display all events of the specified types that happened in the specified areas within the specified date range. Activity filters are as follows:

- Occupant Activity: Areas going occupied/unoccupied; wall controls being pressed.
- Time Clock Activity: Time Clock events being executed.
- Building Manager Activity: Q-Admin activity, including login/logout, and real-time changes to the lighting system.
- Status Activity: Zone level changes, area scene changes, etc.
- Device Failure Activity: Devices becoming unresponsive.
- Lamp Failure Activity: Lamp failures reported by EcoSystem/DALI ballasts.
- Sensor Activity: Occupancy sensor state changes (occupied and unoccupied).
- Ballast Failure/Auto Replacement Activity: When ballast failures have occurred or when new ballasts have been installed and auto-replaced.
- System Errors: Error codes reported by the system.
- BACnet Activity: Lights, shades, and other system objects changed through BACnet.

### Create a System Activity Report

1. Select one or more areas by using the **Click here to select Areas...** link.
2. Choose the time span for which to display activity by using the **over the...** drop-down menu. If selecting **Custom**, specify the start date and end date.
3. Select the desired activity types to show by clicking the checkboxes under **Filter Events**.
4. Click **Apply**.

# Reports: Diagnostics Report

Control & Monitoring | Reports | Administration

Lighting Power Usage Report 022 | Lighting Power Trend Comparison Report 008 | Lamp Maintenance Report 013 | System Activity Report 036 | **Diagnostics Report 014**

Save As | Save | Print | Export

### Diagnostics Report 014

Report Generated on: Wednesday, April 20, 2011 3:52:08 PM

System	Device Name	Type	Status
Cafe	Office Building\Second Floor\Private Offices\121A - Private Office 214\Coffe Counter (Serial # 002A0661)	QS Keypad (QS 3-Button Wallstation with Raise/Lower, no insert)	Unknown
Cafe	Office Building\Second Floor\Private Offices\121A - Private Office 214\KITCHEN DOOR (Serial # 0030049A)	QS Keypad (QS 2-Button Wallstation, insert)	Unknown

For devices in the following areas...

[Click here to select Areas...](#)

Areas

- Office Building\Second Floor\Private Offices\Private Office...
- Office Building\Second Floor\Private Offices\Private Office...

Show devices with status:

- Unknown
- Not Responding
- Not in Database
- OK

Apply Cancel

Logged in User: admin | Logged in Time: Wednesday, April 20, 2011 3:29:06 PM

## Diagnostics Report — “What devices are currently not responding and need attention?”

The Diagnostics Report displays the same information found in the Diagnostics screen. Devices (e.g., keypads, shades, power panels) are listed with their current statuses (unknown, not responding, not in database, or OK).

### Create a Diagnostics Report

1. Select one or more areas by using the **Click here to select Areas...** link.
2. Select the desired status types to show by clicking the checkboxes under **Show devices with status...**
3. Click **Apply**.

# Reports: Sensor Connection Report

**Sensor Connection Report 001**

Report Generated on: Wednesday, May 04, 2011 4:32:42 PM

System	Device Name	Type	Status
Second Floor Hub	Office Building\Second Floor\Conference Rooms\Conference Room 221\002, Address: 7	Infrared Sensor	Not Connected
Second Floor Hub	Office Building\Second Floor\Conference Rooms\Conference Room 221\004, Address: 9	Infrared Sensor	Not Connected
Second Floor Hub	Office Building\Second Floor\Open Office Areas\Open Office North\001, Address: 2	Photo Sensor	Not Connected
Second Floor Hub	Office Building\Second Floor\Open Office Areas\Open Office North\002, Address: 3	Infrared Sensor	Not Connected
Second Floor Hub	Office Building\Second Floor\Open Office Areas\Open Office South\001, Address: 2	Photo Sensor	Not Connected
Second Floor Hub	Office Building\Second Floor\Open Office Areas\Open Office South\003, Address: 1	Occupancy Sensor	Not Connected

For sensors in the following areas...

[Click here to select Areas...](#)

Areas

Office Building

Show Sensor whose Status is:

Unknown  
 Not Connected  
 Not in Database  
 Connected

Apply Cancel

## Sensor Connection Report — “What sensors are not properly connected?”

This report shows the status of wired sensors (occupancy, IR, and photo), as unknown, not connected, not in database, or connected.

### Create a Sensor Connection Report

1. Select one or more areas by using the **Click here to select Areas...** link.
2. Select the desired status types to show by clicking the checkboxes under **Show Sensor whose Status is...**
3. Click **Apply**.

# Reports: DALI Emergency Units Report

**Emergency Units Report 001**

Report Generated on: Friday, April 29, 2011 4:43:06 PM

System	Device Name	Date of Last Function Test	Date of Last Duration Test	Status
Second Floor Hub	Office Building\First Floor\Open Office Areas\Open Office North\002			Both Tests Past Due
Second Floor Hub	Office Building\First Floor\Open Office Areas\Open Office North\Zone...			Both Tests Past Due
Second Floor Hub	Office Building\Second Floor\Conference Rooms\Conference Room ...			Both Tests Past Due
Second Floor Hub	Office Building\Second Floor\Open Office Areas\Open Office North\Z...			Both Tests Past Due

Emergency Units Report

For devices in the following areas...

[Click here to select Areas...](#)

Areas

Office Building

Show devices with status:

Problem

OK

Apply Cancel

## DALI Emergency Units Report

The DALI Emergency Units Report allows the user to view, export, and print the status of DALI emergency units.

### Create a DALI Emergency Units Report

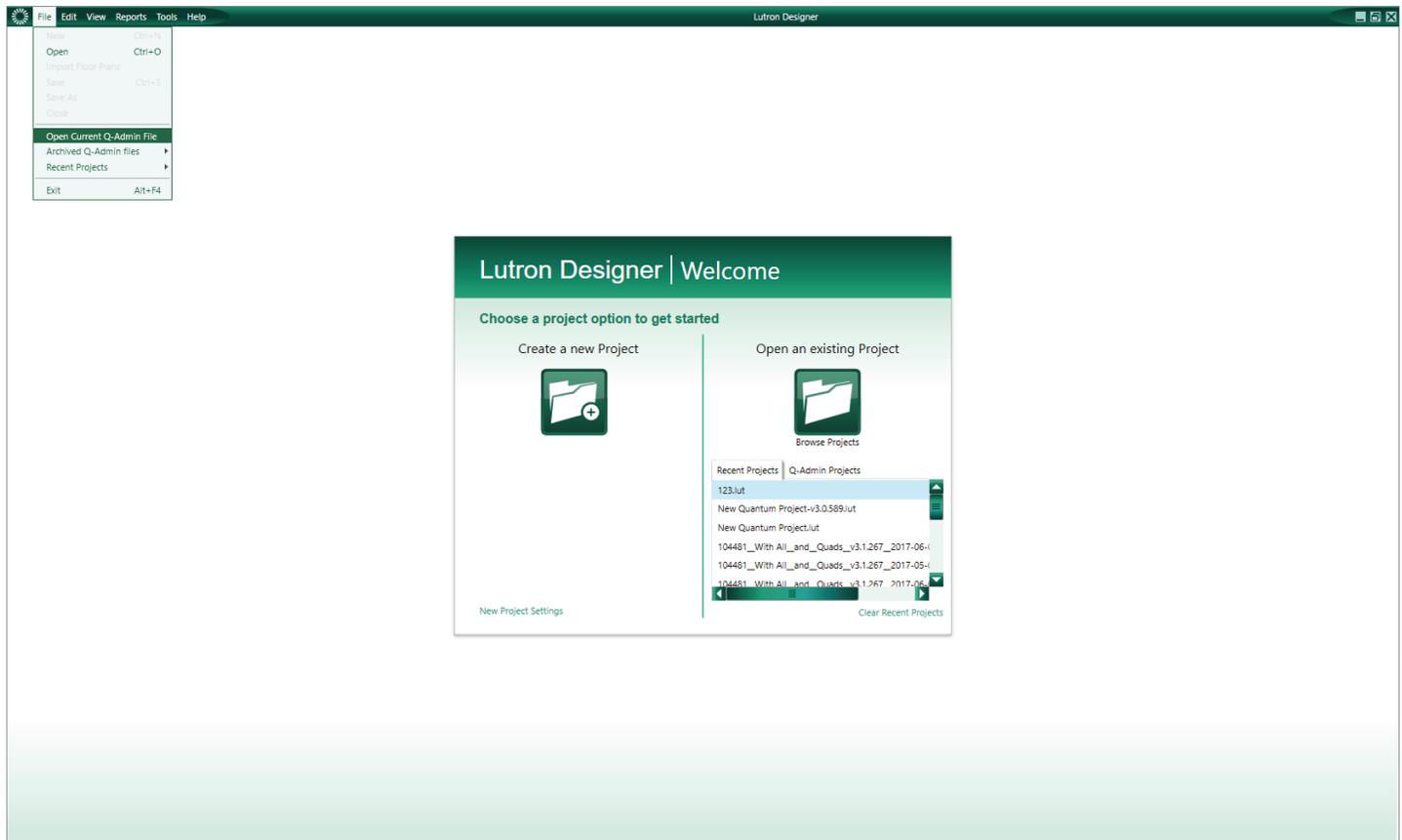
1. Select one or more areas by choosing the **Click here to select Areas...** link.
2. Select the desired status types to show by clicking the checkboxes under **Show devices with status...**
3. Click **Apply**.

---

# Q-Design

**Note:** Any changes made through Q-Design will affect the entire system. The procedures explained here should only be made by trained professionals or those very comfortable with maintaining their Quantum system. If you are not comfortable making these changes, please contact Lutron Field Service at 1-888-588-7661 or email at [LSCScheduling@lutron.com](mailto:LSCScheduling@lutron.com).

# Database Back-up



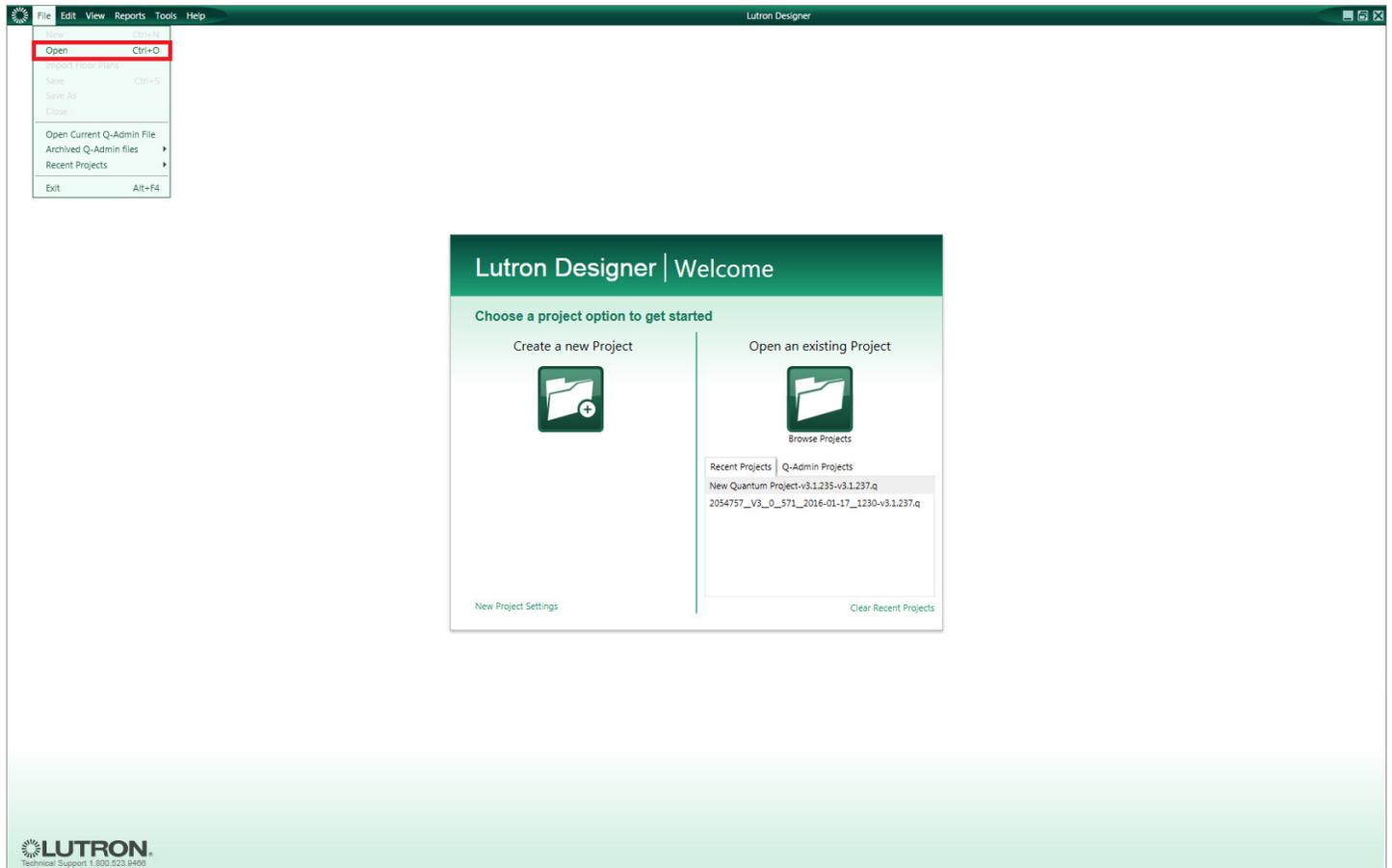
It is always recommended to back-up your current database before making any changes. This gives you a restore point in case you make changes you do not like or that negatively affects performance of your system.

## To Back-up your current database

1. Open the **Q-Design Shortcut** in the Quantum system folder.
2. Click on File in the upper left corner
3. Select **Open Current Q-Admin File** (Depending on the size of your system this can take several minutes)
4. Once the Database is open click on File in the upper left corner
5. Click Save As
6. It is recommended when creating a name to include the date and time of the back-up, this helps in finding the most recent back-up easier when you start having multiple copies.

If you are planning on making changes it is recommended that when you go to save the database with the changes to give it a new time when naming so you will have the original back-up as well as a copy with the changes you made. This will give you a restore point in case you do not like the changes made.

# Sensor Replacement



To determine the database area to which your wireless device corresponds, open your most recent database.

## Open the database file

1. Open the **Q-Design Shortcut** in the Quantum system folder.
  - a. If you receive the warning, “Either Q-Runtime or Q-Admin is already running on this machine. This application will be forced to run in offline mode,” you must first close **LutronServiceManager** before you can open **Q-Design shortcut**.
  - b. To close **LutronServiceManager**, locate it in your system tray (next to the system clock) and double-click to open it. Once it’s open, use the keyboard shortcut **Ctrl+Shift+F7** to close the program. When it’s closed, open **Q-Design shortcut** again.
2. Select **File > Open Current Q-Admin File**.

*continued on next page...*

# Sensor Replacement (continued)

The screenshot shows the Lutron Designer software interface in the 'activate' tab. The 'Selected QSM' dropdown menu is set to 'Yellow 2C > QSM Yellow 2C (1-3-B-11)'. Below this, there is a 'Start Activation' button. On the right side, there is a table of devices with columns for 'Serial #' and 'Status'. The table lists various sensors and their serial numbers, with most having a 'Good' status and a checkmark in the 'Status' column. The device with serial number '009CCC5C' is highlighted in green.

Devices	Serial #	Status
CBS > 2nd Floor > Yellow Quad > Yellow 2C > RF Occupancy (1-1-B-3-1)	0071D155	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2A > RF Occupancy Sensor (1-4-B-6-1)	00BE6F94	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2C > RF Photo Sensor (1-1-B-3-11)	00C089D9	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2A > RF Photo Sensor (1-4-B-6-11)	00BE670E	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2B > Yellow 3B > RF Shadow Sensor (1-2-B-23-13)	00C057DA	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2A > Blackout (1-4-B-6-23)	009CCC86	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2A > Sheers (1-4-B-6-22)	009CCC5C	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2A > Lights (1-4-B-6-21)	009EA3BE	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2C > Wall Mounted Blackout (1-3-B-11-24)	009EB879	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2C > Wall Mounted Sheer (1-3-B-11-25)	009D23AD	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2C > Desk Blackout (1-3-B-11-26)	009EBD04	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2C > Desk Sheer (1-3-B-11-27)	009D23B0	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2C > Lights (1-3-B-11-28)	009E5CD4	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2C > Project Screen (1-3-B-11-29)	009D23C6	Good ✓
CBS > 2nd Floor > Yellow Quad > Yellow 2A > Projection Screen 2B Pico (1-4-B-6-24)	12345678	Good ✓

**Activation Summary**

Occupancy Sensor	2 of 2
Pico	10 of 10
Light Sensor	3 of 3

## Update the Serial Number

1. Go to **Activate** tab > **QSM Sensors**.
2. Use the drop-down menu to navigate to the area in which your QS Sensor Module (QSM) is located.  
If you cannot locate the QSM or if you don't know the area in which it is located in the database, search through all of the QSMs in the drop-down menu to locate the wireless device.
3. Select the QSM where your wireless device is connected. On the right-hand side you will see the devices and their serial numbers.
4. In the list, highlight the wireless device that you wish to replace. Double-click in the **Serial #** column and type in the serial number of the NEW device and click **Enter**.
5. On the left-hand side, click **Start Activation** and save the database if prompted.  
We recommend against overwriting a previous database.
6. The NEW device will be activated automatically. Click **Exit Activation**.
7. For the changes to take effect, the database will need to be transferred:
  - a. Go to the **Transfer** tab.
  - b. Select the **Processor System** on the left-hand side.
  - c. Click **Start Transfer**.

# QS Device Replacement

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To determine the database area to which your QS device corresponds, open your most recent database.

## Open the database file

1. Open the **Q-Design shortcut** in the Quantum system folder.
  - a. If you receive the warning, “Either Q-Runtime or Q-Admin is already running on this machine. This application will be forced to run in offline mode”, you must first close **LutronServiceManager** before you can open **Q-Design**.
  - b. To close **LutronServiceManager**, locate it in your system tray (next to the system clock) and double-click to open it. Once it's open, use the keyboard shortcut Ctrl+Shift+F7 to close the program. When it's closed, open **Q-Design** again.
2. Select **File > Open Current Q-Admin File**.
3. Click on **File > Save As**, Give the file a new name. (This is done so you will have the old database to roll back to in case of any issues).

## Find the QS device you want to replace (Keypads)

1. Click on the **View** tab in the top left and select **Switch to Classic View**.
2. Click on the **design** tab and use the drop-down box to select controls.
3. In the area tree on the left-hand side scroll down until you locate the area where the keypad is located that you want to replace.
4. Click on the area where the keypad is located; all control devices for that area will appear in the box to the right of the area tree.
5. Click on the keypad in the area you want to replace and mouse over the **Assigned To** link (write down the location that appears in a little pop-up window).

## Activating QS device you want to replace (Keypads)

1. Click on the **Activate** tab and use the drop-down menu to select devices.
2. Click the drop-down menu under **Selected link**, and click on the one that matched the last two parts of the **Assigned To address** from step 4.
3. In the activated **Devices** box, find the keypad you want to replace and change the serial number to match what is on the replacement keypad.
4. The **NEW** device will be activated automatically. Click **Exit Activation**.
5. For the changes to take effect, the database will need to be transferred:
  - a. Go to the **transfer** tab.
  - b. Select the **Processor System** containing the replaced device on the left-hand side.
  - c. Click **Start Transfer**.

\* **Note:** during a transfer you will not have control of the system and lights will stay at the level they were at when the transfer was started. We recommend doing the transfer during after-hours when the building is mostly empty.

6. Once the transfer is complete, **Save** and **Publish**.

# Processor Replacement

## Open the database file

1. Open the **Q-Design shortcut** in the Quantum system folder.
  - a. If you receive the warning, “Either Q-Runtime or Q-Admin is already running on this machine. This application will be forced to run in offline mode”, you must first close **LutronServiceManager** before you can open Q-Design.
  - b. To close **LutronServiceManager**, locate it in your system tray (next to the system clock) and double-click to open it. Once it is open, use the keyboard shortcut Ctrl+Shift+F7 to close the program. When it is closed, open **Q-Design** again.
2. Select **File > Open Current Q-Admin File**.
3. Click on **File > Save As**, Give the file a new name. (This is done so you will have the old database to roll back to in case of any issues).

## Activating a New Processor

1. Click on the **activate** tab.
2. If your database has multiple subsystems, use the subsystem drop-down to select the subsystem that contains the processor you are replacing.
3. If you are only replacing one processor, the new processor should show up in the display box on the left-hand side.
4. In the main display box, find the processor you are replacing. You can use the Customize columns link near the upper-right hand side to display the Serial # and **MAC** (Media Access Control) Address. Both the serial number and **MAC** address that you can view on the screen are printed on the processor itself, or on the label.

File Edit View Reports Tools Help Lutron Designer - C:\Processor Replacement.q

design | program | activate | processors | transfer

Show only unactivated processors in the list below  
Select a processor below and click the activate link next to the corresponding processor on the right

Subsystem: Subsystem 001

Name	#	Serial #	MAC Address	DHCP	IP Address	Subnet Mask	Gateway	Status	Action
Lighting Management Hub 1 Processor 1	1	00DC00EB	00:0F:E7:01:52:1B	<input type="checkbox"/>	192.168.1.10	255.255.255.0	192.168.1.1	Not Responding	<input type="checkbox"/> Deactivate
Lighting Management Hub 1 Processor 2	2	0101540D	00:0F:E7:04:0D:5D	<input type="checkbox"/>	192.168.1.11	255.255.255.0	192.168.1.1	Good	<input checked="" type="checkbox"/> Deactivate

Activating processors will send the configuration from the project to the processor on the network. This includes network information and all other configuration settings.

Advanced Settings  
 System Communication

All Processors Found on Network are Activated

Identify Selected Processor Refresh

Activation Summary  
Processors 2 of 2

LUTRON Technical Support 1.800.922.9400 Quantum

# Processor Replacement (continued)

File Edit View Reports Tools Help Lutron Designer - C:\Processor Replacement.q

design | program | activate | processors | transfer

Show only unactivated processors in the list below  
Select a processor below and click the activate link next to the corresponding processor on the right

192.168.1.1 (Local Area Connection 2)

**Gulliver Processor**  
Serial Number: 01015444  
MAC Address: 00:0F:E7:03:EE:87  
IP Address: 10.29.200.22

Identify Selected Processor Refresh

Activation Summary  
Processors 2 of 2

Subsystem: Subsystem 001

Name	#	Serial #	MAC Address	DHCP	IP Address	Subnet Mask	Gateway	Status	Action
... Lighting Management Hub 1 Processor 1	1	00DC00EB	00:0F:E7:01:52:1B	<input type="checkbox"/>	192.168.1.10	255.255.255.0	192.168.1.1	Not Responding	Deactivate
... Lighting Management Hub 1 Processor 2	2	0101540D	00:0F:E7:04:0D:5D	<input type="checkbox"/>	192.168.1.11	255.255.255.0	192.168.1.1	Good	Deactivate

Activating processors will send the configuration from the project to the processor on the network. This includes network information and all other configuration settings.

Advanced Settings  
System Communication ?

LUTRON  
Technical Support 1.800.923.8468

Quantum

- Once you found the processor you want to replace, click the **Deactivate** link under the **Action** column for the row that relates to the old processor.

# Processor Replacement (continued)

File Edit View Reports Tools Help Lutron Designer - C:\Processor Replacement.q\*

design | program | activate | processors | transfer

Show only unactivated processors in the list below  
Select a processor below and click the activate link next to the corresponding processor on the right

192.168.1.1 (Local Area Connection 2)

**Gulliver Processor**  
Serial Number: 01015444  
MAC Address: 00:0F:E7:03:EE:87  
IP Address: 10.29.200.22

Identify Selected Processor Refresh

Activation Summary  
Processors 1 of 2

Subsystem: Subsystem 001

Name	#	Serial #	MAC Address	DHCP	IP Address	Subnet Mask	Gateway	Status	Action
... Lighting Management Hub 1 Processor 1	1			<input type="checkbox"/>	192.168.1.10	255.255.255.0	192.168.1.1	-	Activate
... Lighting Management Hub 1 Processor 2	2	0101540D	00:0F:E7:04:0D:5D	<input type="checkbox"/>	192.168.1.11	255.255.255.0	192.168.1.1	Good	Deactivate

Activating processors will send the configuration from the project to the processor on the network. This includes network information and all other configuration settings.

Advanced Settings  
System Communication ?

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Technical Support 1.800.923.8468

Quantum

- Click on the new processor that is displayed in the left-hand display box and click on the **Activate** link under the **Action** column for the row that relates to the new processor in the main display window.

# Processor Replacement (continued)

File Edit View Reports Tools Help Lutron Designer - C:\Processor Replacement.q\*

design | program | activate | processors | transfer

Show only unactivated processors in the list below  
Select a processor below and click the activate link next to the corresponding processor on the right

192.168.1.1 (Local Area Connection 2)

- [-] Gulliver Processor  
Serial Number: 01015444  
MAC Address: 00:0F:E7:03:EE:87  
IP Address: 10.29.200.22

Identify Selected Processor Refresh

Activation Summary  
Processors 1 of 2

Subsystem: Subsystem 001

Name	#	Serial #	MAC Address	DHCP	IP Address	Subnet Mask	Gateway	Status	Action
... Lighting Management Hub 1 Processor 1	1	01015444	00:0F:E7:03:EE:87	<input type="checkbox"/>	192.168.1.10	255.255.255.0	192.168.1.1	Updating	
... Lighting Management Hub 1 Processor 2	2	0101540D	00:0F:E7:04:0D:5D	<input type="checkbox"/>	192.168.1.11	255.255.255.0	192.168.1.1	Good	<input checked="" type="checkbox"/> Deactivate

Activating processors will send the configuration from the project to the processor on the network. This includes network information and all other configuration settings.

Advanced Settings

System Communication ?

LUTRON  
Technical Support 1.800.923.8468

Quantum

- The process may take several minutes after you click **Activate**. You will see “**Updating**” under the **Status** column. After the processor has been activated you will see the word **Good** and a check mark (✓) in the Status column.
- When all processors on the subsystem in which you just replaced the processor show **Good**, click on the **Tools** option in the upper left corner, and select **Update Processor Firmware**.

# Processor Replacement (continued)

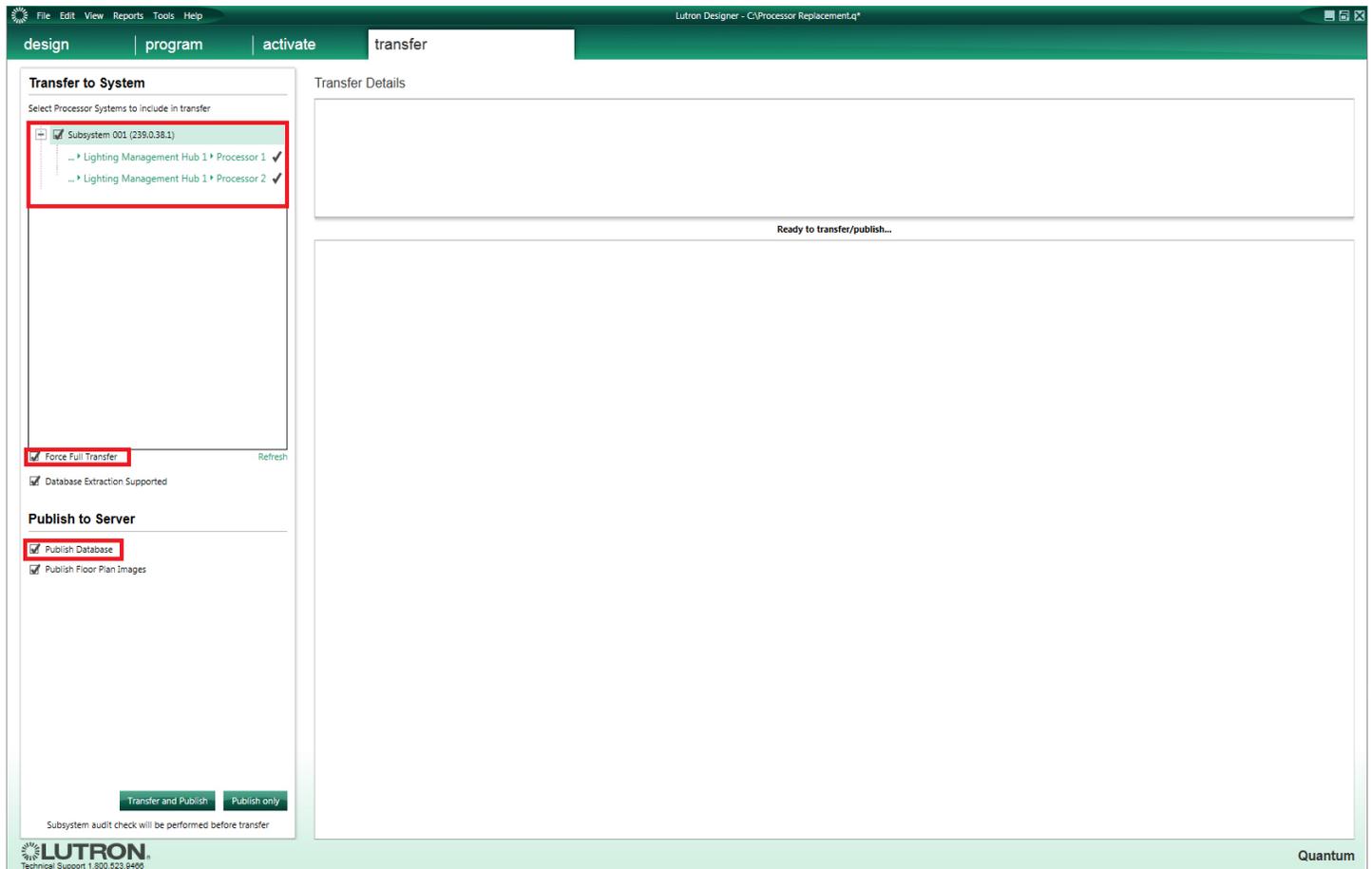
The screenshot shows the Lutron Designer software interface. The main window is titled "Lutron Designer - C:\Processor Replacement.q\*" and has tabs for "design", "program", "activate", "processors", and "transfer". The "activate" tab is active, and the "processors" dropdown is selected. A table lists two processors:

Name	#	Serial #	MAC Address	DHCP	IP Address	Subnet Mask	Gateway	Status	Action
Lighting Management Hub 1 Processor 1	1	01015444	00:0F:E7:03:EE:87	<input type="checkbox"/>	192.168.1.10	255.255.255.0	192.168.1.1	Good	Deactivate
Lighting Management Hub 1 Processor 2	2	01015400	00:0F:E7:04:0D:5D	<input type="checkbox"/>	192.168.1.11	255.255.255.0	192.168.1.1	Good	Deactivate

An "OS Upgrade" dialog box is open, showing a list of subsystems with checkboxes. The first item, "1: Subsystem 001 (239.0.38.1)", is checked and highlighted with a red box. Below it are two items: "1: Lighting Management Hub 1 Processor 1" and "2: Lighting Management Hub 1 Processor 2", both with checked boxes. The dialog also includes a "Refresh" button at the top right, a question mark icon with the text "During this upgrade wall controls and sensors will not operate.", and "Upgrade" and "Cancel" buttons at the bottom.

- An **OS Upgrade** window will appear showing all the subsystems in the database. Check the box that relates to the subsystem that contains the processor that was just replaced.
- Click the **Upgrade** button that is in the lower left of the **OS Upgrade** pop-up window.
- Upgrading the processor firmware can take several minutes to complete. During this upgrade **do not** cycle power to the processor.
- When the processor is done upgrading, click **Done**.

# Processor Replacement (continued)



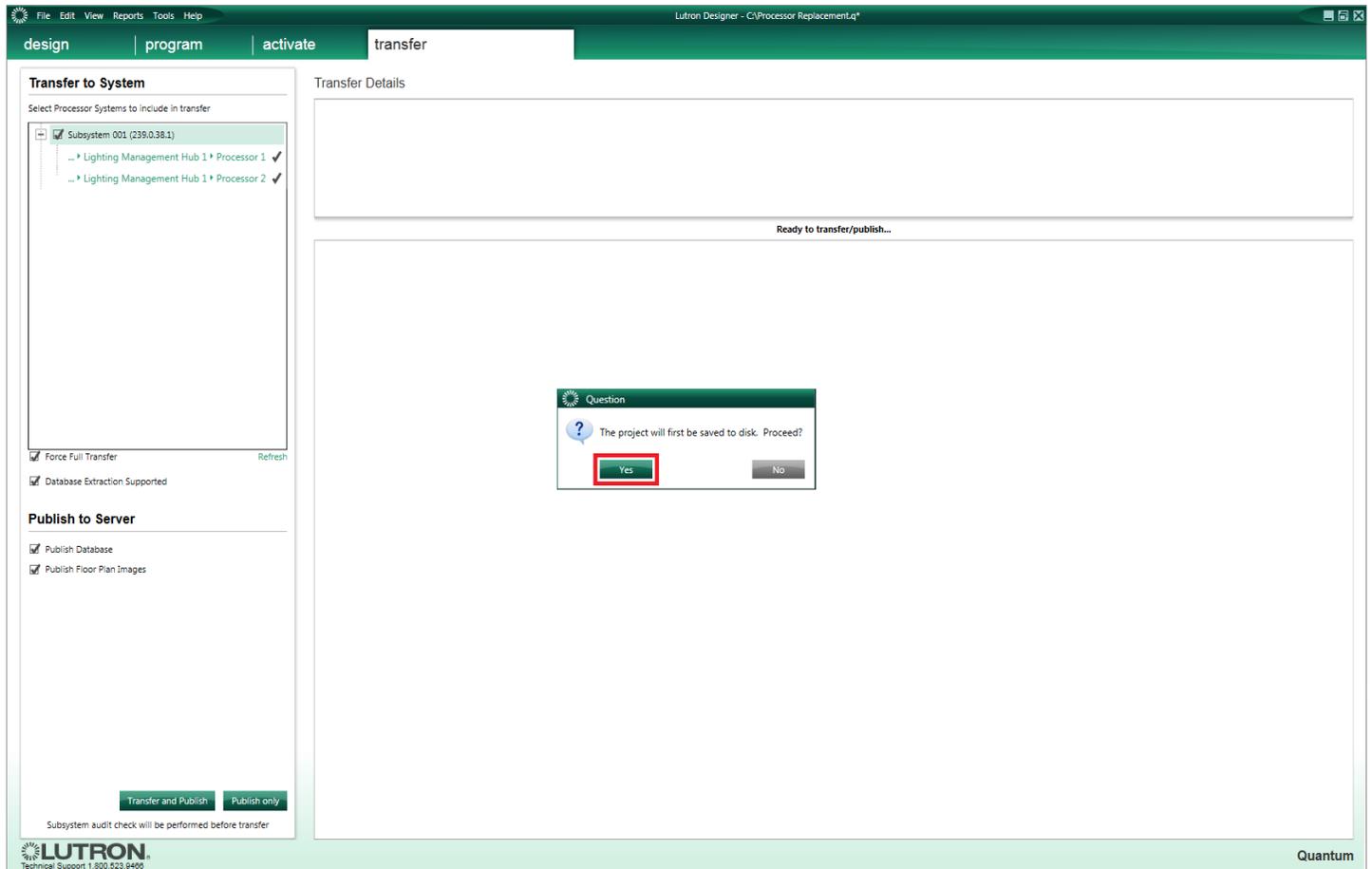
13. Click the **transfer** tab.

14. On the left side of the screen under **Transfer to System** will be a list of all the subsystems in the database.

15. Check the box next to the subsystem that contains the processor that was replaced. Check the box below the subsystems that says **Force Full Transfer**. Under the **Publish to Server** area make sure that **Publish Database** is checked.

16. Click **Transfer and Publish**.

# Processor Replacement (continued)



17. A pop-up message will appear asking if you want to save the project first. Click **Yes**.

# Processor Replacement (continued)

The screenshot displays the Lutron Designer software interface during a processor replacement. The main window is titled "transfer" and shows a "Transfer Details - Compiling project files" window. On the left, there are two panels: "Transfer to System" and "Publish to Server".

**Transfer to System:** This panel shows a tree view of processor systems. The selected system is "Subsystem 001 (239.0.38.1)", which includes "Lighting Management Hub 1 Processor 1" and "Lighting Management Hub 1 Processor 2".

**Publish to Server:** This panel has two checkboxes: "Publish Database" and "Publish Floor Plan Images", both of which are checked.

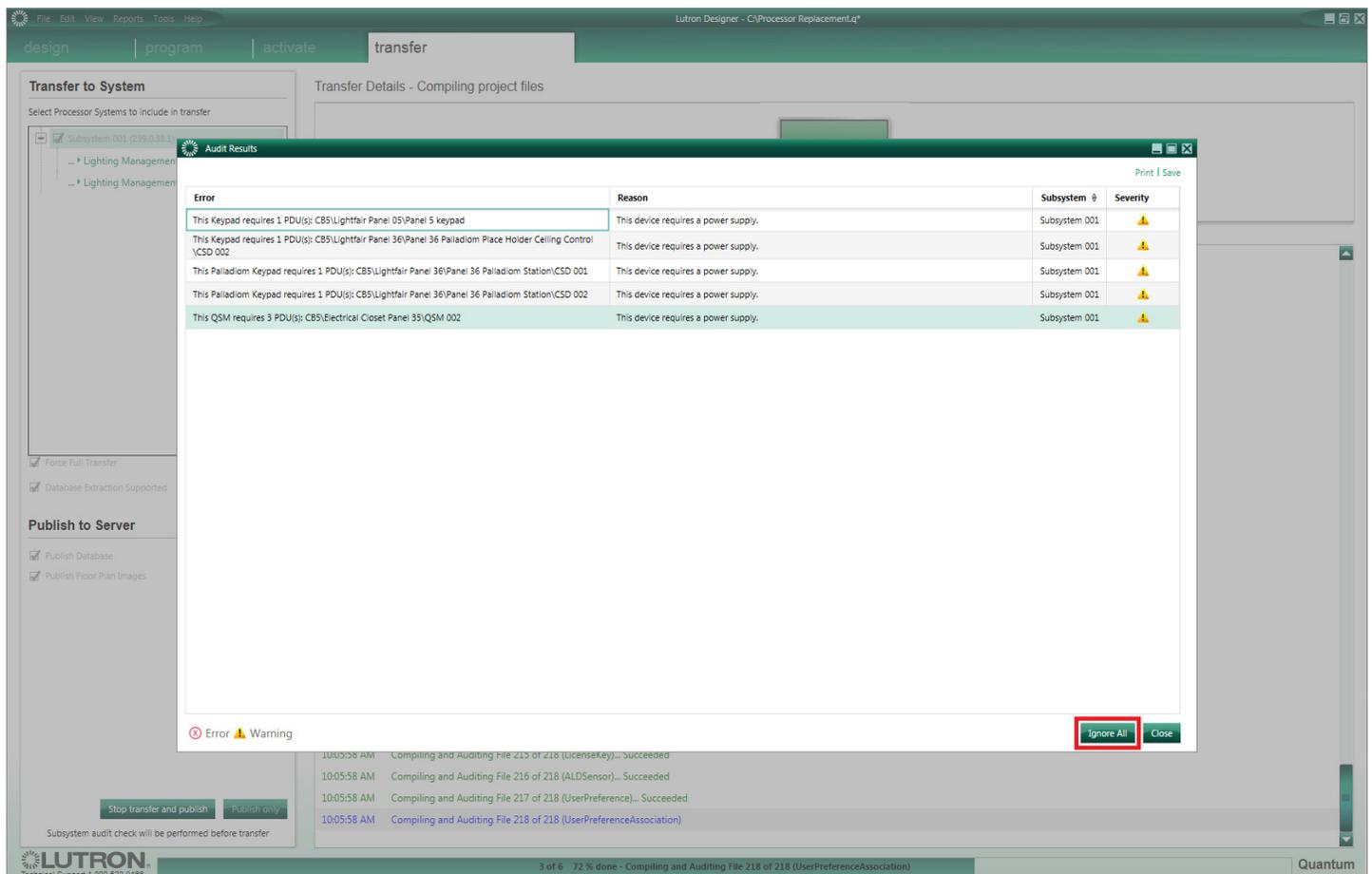
**Transfer Details:** This window shows a list of files being compiled and audited. The list includes:

- 10:05:54 AM Compiling and Auditing File 21 of 218 (OneTimeSchedule)... Succeeded
- 10:05:54 AM Compiling and Auditing File 22 of 218 (ExceptionSchedule)... Succeeded
- 10:05:54 AM Compiling and Auditing File 23 of 218 (RecurringExceptionSchedule)... Succeeded
- 10:05:54 AM Compiling and Auditing File 24 of 218 (DefaultSchedule)... Succeeded
- 10:05:54 AM Compiling and Auditing File 25 of 218 (ProcessorSystem)... Succeeded
- 10:05:54 AM Compiling and Auditing File 26 of 218 (DaylightingSetPointDefinition)... Succeeded
- 10:05:54 AM Compiling and Auditing File 27 of 218 (DomainEmergencyMode)... Succeeded
- 10:05:54 AM Compiling and Auditing File 28 of 218 (DomainNightLightMode)... Succeeded
- 10:05:54 AM Compiling and Auditing File 29 of 218 (NightLightMode)... Succeeded
- 10:05:54 AM Compiling and Auditing File 30 of 218 (EmergencyMode)... Succeeded
- 10:05:54 AM Compiling and Auditing File 31 of 218 (Processor)... Succeeded
- 10:05:54 AM Compiling and Auditing File 32 of 218 (ControlStationDevice)... Succeeded
- 10:05:54 AM Compiling and Auditing File 33 of 218 (SliderControlStationDevice)... Succeeded
- 10:05:54 AM Compiling and Auditing File 34 of 218 (DMXControlStationDevice)... Succeeded
- 10:05:54 AM Compiling and Auditing File 35 of 218 (EnclosureDevice)... Succeeded
- 10:05:54 AM Compiling and Auditing File 36 of 218 (Link)... Succeeded
- 10:05:54 AM Compiling and Auditing File 37 of 218 (IntegrationPortController)... Succeeded
- 10:05:54 AM Compiling and Auditing File 38 of 218 (IntegrationPort)... Succeeded
- 10:05:54 AM Compiling and Auditing File 39 of 218 (TelnetPort)... Succeeded
- 10:05:54 AM Compiling and Auditing File 40 of 218 (LinkNode)... Succeeded
- 10:05:54 AM Compiling and Auditing File 41 of 218 (Led)... Succeeded
- 10:05:54 AM Compiling and Auditing File 42 of 218 (ZoneControlUI)... Succeeded
- 10:05:54 AM Compiling and Auditing File 43 of 218 (HeatingVentilationAirConditioningZoneControlUI)... Succeeded
- 10:05:54 AM Compiling and Auditing File 44 of 218 (SliderZoneControlUI)... Succeeded
- 10:05:54 AM Compiling and Auditing File 45 of 218 (DMXChannelZoneControlUI)... Succeeded
- 10:05:54 AM Compiling and Auditing File 46 of 218 (ShortFormPropertyAddressMap)... Succeeded
- 10:05:54 AM Compiling and Auditing File 47 of 218 (ButtonGroup) [Progress bar]

The bottom status bar shows "3 of 6 23 % done - Compiling and Auditing File 47 of 218 (ButtonGroup)". The Lutron logo and "Quantum" are also visible.

18. Depending on how large the database is, the transfer could take several minutes.

# Processor Replacement (continued)



19. During the transfer an **Audit Results** pop-up window may appear. Review the list for errors. Click **Ignore All** if the errors are acceptable.

20. Once the transfer has completed successfully the lighting system should be operating normally.

# Notes

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### **Worldwide Technical and Sales Assistance**

If you have questions concerning the installation or operation of this product, call Lutron Customer Assistance.

Please provide the exact model number when calling. Model number can be found on the product packaging.  
Example: QSE-IO

U.S.A., Canada, and the Caribbean: 1.844.LUTRON1

Other countries call: +1.610.282.3800

Fax: +1.610.282.1243

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