Crestron **GLPAC-DIMFLV Series**
Green Light Integrated Lighting System
Setup Guide
(Default Program v 1.0)

CRESTRON®

This document was prepared and written by the Technical Documentation department at:

Contents

Green Light Integrated Lighting System: GLPAC-DIMFLV Series

Introduction

The following guide describes the commissioning software available in GLPAC-DIMFLV lighting systems. This software allows the user to commission the system using a standard laptop or personal computer equipped with Microsoft® Internet Explorer®. In addition to programming, the commissioning software also allows the user to view usage statistics detailing energy consumption.

For installation instructions, refer to the latest version of the GLPAC-DIMFLV Series Installation Guide (Doc. 7004) which shipped with your GLPAC-DIMFLV and is also available for download from the Crestron® Web site (www.crestron.com/manuals).

Setup

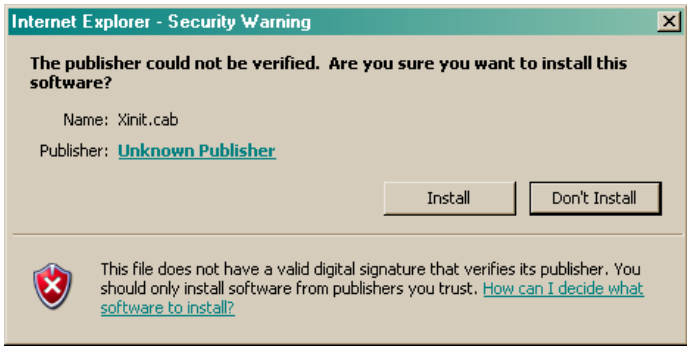
Installation

The commissioning software on the GLPAC can be accessed using Internet Explorer via local area network (LAN) or PC.

To access the GLPAC commissioning software on a LAN:

1. Use an Ethernet cable to connect the **LAN** port of the GLPAC-DIMFLV to a LAN.
2. Using Internet Explorer, enter the following IP address:
   192.168.1.22
3. The following window is displayed.

   "Internet Explorer – Security Warning" Window

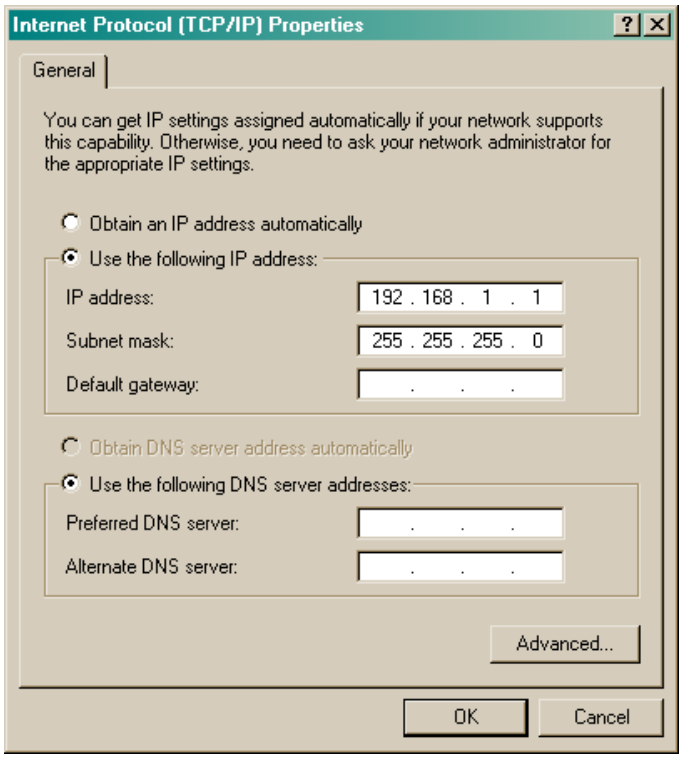


4. Click **Install**. The "Energy Usage" screen is displayed.

To access the GLPAC commissioning software on a PC:

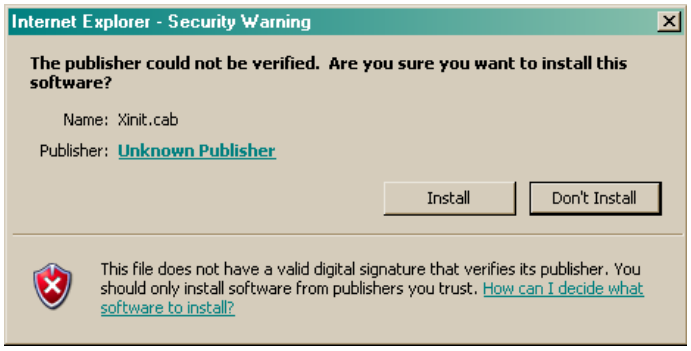
1. Use an Ethernet cable to connect the **LAN** port of the GLPAC-DIMFLV to a PC.
2. On the PC, select **Start | Control Panel | Network Connections**.
3. Select *Local Area Connection* and click **Properties**.
4. Select *Internet Protocol (TCP/IP)* from the list of connection items and click **Properties**.
5. Click the *Use the following IP address* radio button and enter the following IP address in the *IP address* box:
   192.168.1.1
6. Enter the following in the *Subnet mask* box:
   255.255.255.0

"Internet Protocol [TCP/IP] Properties" Window



7. Click **OK**.
8. Using Internet Explorer, enter the following IP address: 192.168.1.22

"Internet Explorer – Security Warning" Window

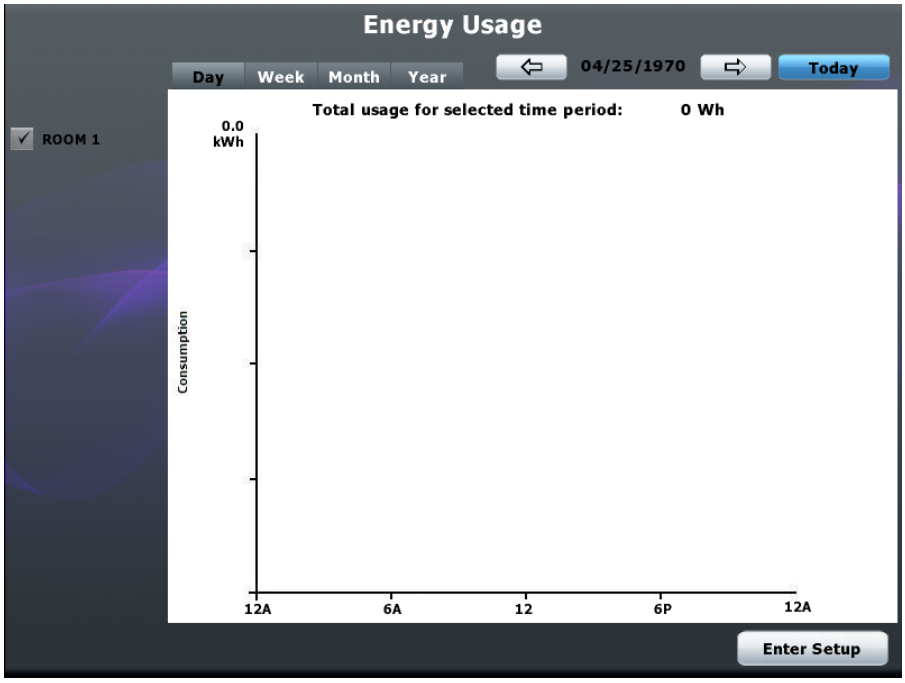


9. Click **Install**. The "Energy Usage" screen is displayed.

Energy Usage

Enter the GLPAC's IP address in the address bar of Internet Explorer to view the "Energy Usage" screen, shown in the illustration below.

"Energy Usage" Screen



The "Energy Usage" screen displays a graph showing the amount of energy consumed (in kilowatt hours) by the GLPAC-DIMFLV.

The currently selected time period appears in the upper right corner of the screen, and can be changed by clicking the *Day*, *Week*, *Month* or *Year* tabs.

The ⇦ and ⇨ buttons at the top of the screen can be used to cycle through the available time periods.

The available rooms are displayed on the left side of the screen. Select the rooms to be included in the graph by clicking the check box beside each room.

Click **Enter Setup** to enter the setup screen.

NOTE: From the setup screen, the "Energy Usage" screen can be accessed by clicking **Exit Setup**.

Setup

From the "Energy Usage" screen, click **Enter Setup** to enter the setup screen.

The setup screen displays eight tabs: *Comm*, *Rooms*, *Time & Location*, *Sensors*, *Keypads & Shades*, *Scenes*, *Scheduler*, and *Presets*. The functions provided by each tab are detailed in subsequent paragraphs.

Comm

If it is not already selected, click the *Comm* tab to view the "Comm" screen, shown in the illustration below.

"Comm" Screen

This screen is used to configure communication settings. Click **Exit Setup** to save changes and return to the "Energy Usage" screen.

The following table explains the functions of the "Comm" screen controls.

"Comm" Screen Controls

CONTROL	DESCRIPTION
Cresnet ID (to Master Control System)	Allows entry of slave Cresnet® ID. **NOTE:** Only valid Cresnet IDs can be entered. Valid Cresnet ID range is from 0x03 to 0xFE.
IP ID (to Master Control System)	Allows entry of slave IP ID.

(Continued on following page)

"Comm" Screen Controls (Continued)

CONTROL	DESCRIPTION
Master Control System IP Address	Allows entry of the Ethernet slaving master control system IP address.
Dynamic Address (DHCP)	Enables DHCP on the GLPAC-DIMFLV.
Static IP Address	Enables static IP address.
IP Address	Allows entry of IP Address.
Subnet Mask	Allows entry of subnet mask.
Default Gateway	Allows entry of default gateway.
Change Password	Opens a window to allow password entry or editing. **NOTE:** Existing password must be entered before changing, containing a maximum of 16 characters. No minimum length required. **NOTE:** Set password to blank to disable password.
Generate Report	Creates a report detailing all programming performed on the GLPAC-DIMFLV. Report is viewable in an Internet browser. A note is displayed indicating the URL and port number. **NOTE:** The report is not saved. It is suggested that the user print a hard copy for backup.

Rooms

Click the *Rooms* tab to view the "Rooms" screen, shown in the illustration below.

"Rooms" Screen (GLPAC-DIMFLV8-PM Shown)

The screen is used to adjust the room count and load assignments. Software and firmware versions for the control system, dimmer, power monitoring board (if equipped) and the default program is displayed in a window at the bottom right hand side of the screen. Click **Exit Setup** to save changes and return to the "Energy Usage" screen.

The following table explains the functions of the "Rooms" screen controls.

"Rooms" Screen Controls

CONTROL	DESCRIPTION
Number of Rooms	Use the ▲ and ▼ buttons to set the number of rooms in the system (1 to 4).
On Fade Time	Use the ▲ and ▼ buttons to set the *On Fade Time* (1 – 5 seconds)
Off Fade Time	Use the ▲ and ▼ buttons to set the *Off Fade Time* (1 – 5 seconds)
Room (Load table)	Selects the room assignment for the corresponding load. **NOTE:** If the number of available rooms decreases, any load assigned to a room no longer existing is automatically assigned to the last room available (i.e. if a four room setting is changed to a three room setting, all loads in room four would be assigned to room three).
Type (Load table)	Select either a **Dimmable** or **Switched** load.

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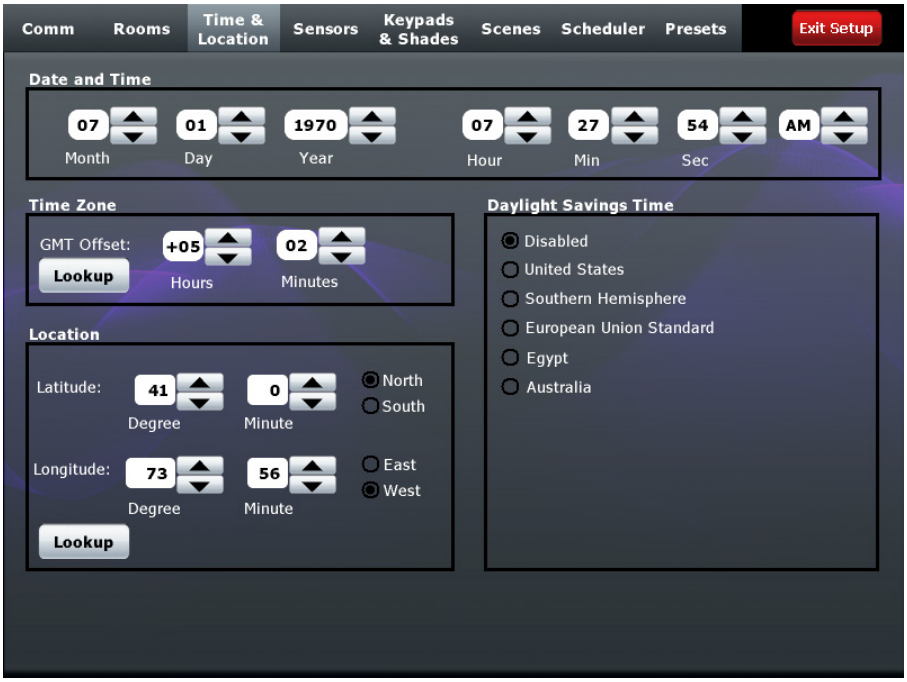
"Rooms" Screen Controls (Continued)

CONTROL	DESCRIPTION
Voltage (Load table)	Select between **120 V, 230 V**, and **277 V**. Used for energy use calculations.
Wattage (Load table)	Select the appropriate to button add wattage to the total. The **Clear** button allows starting over at zero. The maximum allowed wattage is 16x the selected voltage. **NOTE:** This option is not available in the GLPAC-DIMFLV4-PM and GLPAC-DIMFLV8-PM.
Edit (Room table)	Opens the on-screen keyboard to allow changing of the room name. **NOTE:** Room names must be at least one character long. The maximum name length is 12 characters. Duplicate names are permitted.

Time & Location

Click the *Time & Location* tab to view the "Time & Location" screen, shown in the illustration below.

"Time & Location" Screen



This screen is used to adjust the time and physical location. Click **Exit Setup** to save changes and return to the "Energy Usage" screen.

The following table explains the functions of the "Time & Location" screen controls.

"Time & Location" Screen Controls

CONTROL	DESCRIPTION
Month/Day/Year	Use the ▲ and ▼ buttons to set the control processor date. Only valid dates are allowed.
Hour/Min/Sec/ AM/PM	Use the ▲ and ▼ buttons to set the control processor time. The *Hour* setting uses a 12 hour format.
GMT Offset	Use the ▲ and ▼ buttons to set the offset from Greenwich Mean Time.
Time Zone Lookup	Opens a window that displays *GMT Offset* for various geographic locations.
Daylight Savings Time	Enables/disables daylight savings time and allows selection of the appropriate region.
Latitude	Use the ▲ and ▼ buttons and to set the *Latitude*. Use the radio button to set direction.
Longitude	Use the ▲ and ▼ buttons to set the *Longitude*. Use the radio button to set direction.
Location Lookup	Opens a window that displays coordinates for the most populous cities in the United States.

Sensors

Click the *Sensors* tab to view the "Sensors" screen, shown in the illustration below.

"Sensors" Screen

This screen is used to adjust the sensors. Click **Exit Setup** to save changes and return to the "Energy Usage" screen.

The *Sensor Input* section of the screen, near the bottom right, displays a readout of the current voltage and light level (in footcandles) seen by the photocell in the room. This is mainly for troubleshooting purposes, and helps to confirm the photocell is operating properly.

The following table explains the functions of the "Sensors" screen controls.

NOTE: All controls apply only to the currently selected room.

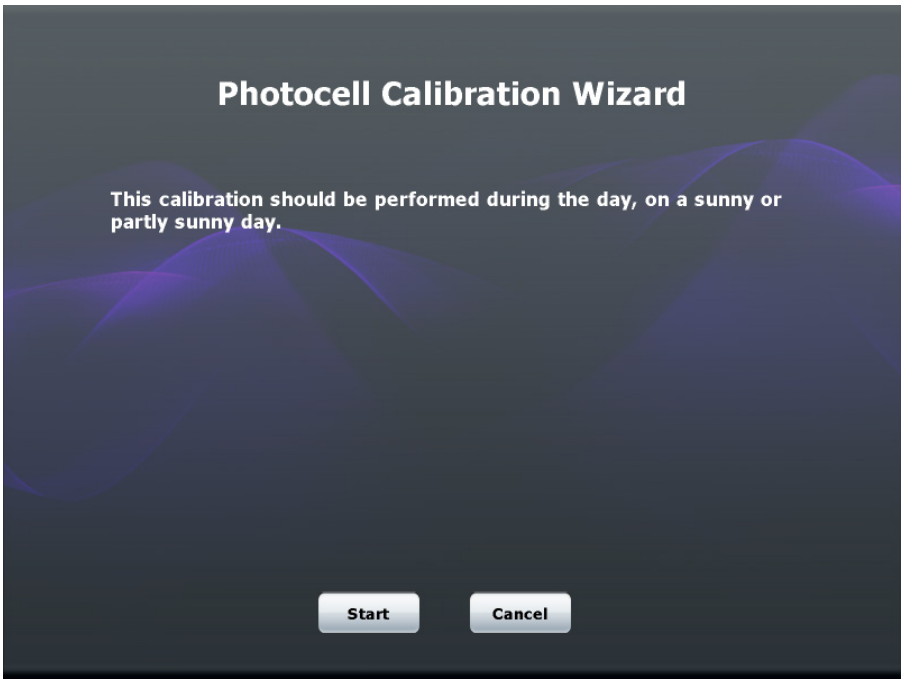
"Sensors" Screen Controls

CONTROL	DESCRIPTION
Room	Select the room to configure using the ◄ and ► buttons at the top of the screen.
Occupancy/ Vacancy Sensor	Allows selection of occupancy sensor behavior. If *Auto On/Auto Off (Occupancy Sensing)* is selected, a menu is displayed to allow selection of the scene (**Auto/On**, **Scene 1 – 8**) to recall when motion is detected.
Occupancy Sensor Enable/Disable	Allows the occupancy sensor to be switched on or off.
Daylight Harvesting	Allows selection of daylight harvesting type (*None*, *Open-loop dimming* or *Closed-loop dimming*). Depending on the selection, other controls may appear, as described below.
Response Time	Use the ▲ and ▼ buttons to determine how fast the light levels change in response to a change in daylight. For example, a *30s* response time means that the lights take 30 seconds to reach their new level in response to a step change in daylight. Valid range is *5s* to *5m*, with only certain interim values available.
Sensor Model	Select the Crestron photocell model being used.
Calibrate Now…	Brings up the appropriate ""Photocell Calibration Wizard" screen, described on the following pages.
Reset to Factory Defaults	Resets calibration values to defaults: • Response time = 30s· • Sensitivity = 50%· • Minimum dim level = 20%
Daylight Harvesting Enable/Disable	Allows the daylight harvesting to be switched on or off.

Photocell Calibration Wizard (Open-loop dimming)

When **Calibrate Now…** is clicked and *Open-looping dimming* is selected for *Daylight Harvesting*, the screen shown in the following illustration is displayed. Refer to page 17 for instructions on configuring a photocell for *Closed-loop dimming*.

"Photocell Calibration Wizard" Screen



The following table explains the functions of the "Photocell Calibration Wizard" (Open-loop dimming) screen controls.

"Photocell Calibration Wizard" Screen Controls.

CONTROL	DESCRIPTION
Start	Begins photocell calibration (described on the following pages).
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

When calibration is started, the available loads are displayed on the screen shown in the following illustration.

"Photocell Calibration Wizard – Step 1" Screen

The bottom left corner of the screen displays a readout of the current voltage and light level (in footcandles) seen by the photocell in the room. This is mainly for troubleshooting purposes, and helps to confirm the photocell is operating properly.

NOTE: Light level is extrapolated from voltage, based on the selected sensor type.

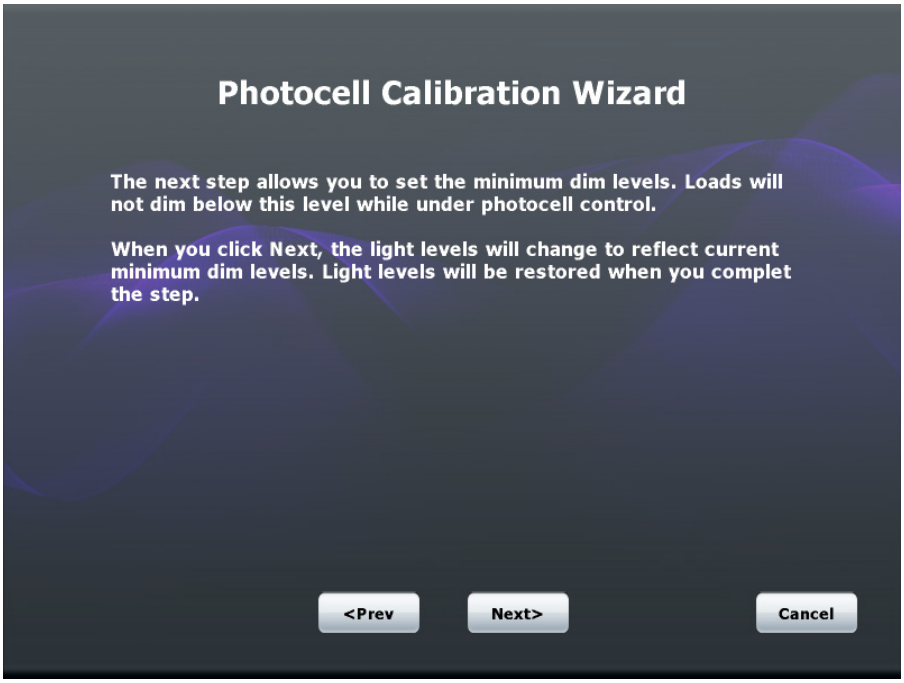
The following table explains the functions of the "Photocell Calibration Wizard – Step 1" screen controls.

"Photocell Calibration Wizard – Step 1" Screen (Open-Loop Dimming) Controls

CONTROL	DESCRIPTION
Harvest/Ignore	Used to select which loads are affected by the photocell. **NOTE:** If all loads are set to Ignore, no calibration can occur.
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

The next screen, shown in the illustration below, displays a message regarding minimum dim levels.

"Photocell Calibration Wizard" Screen (Minimum Dim Levels)



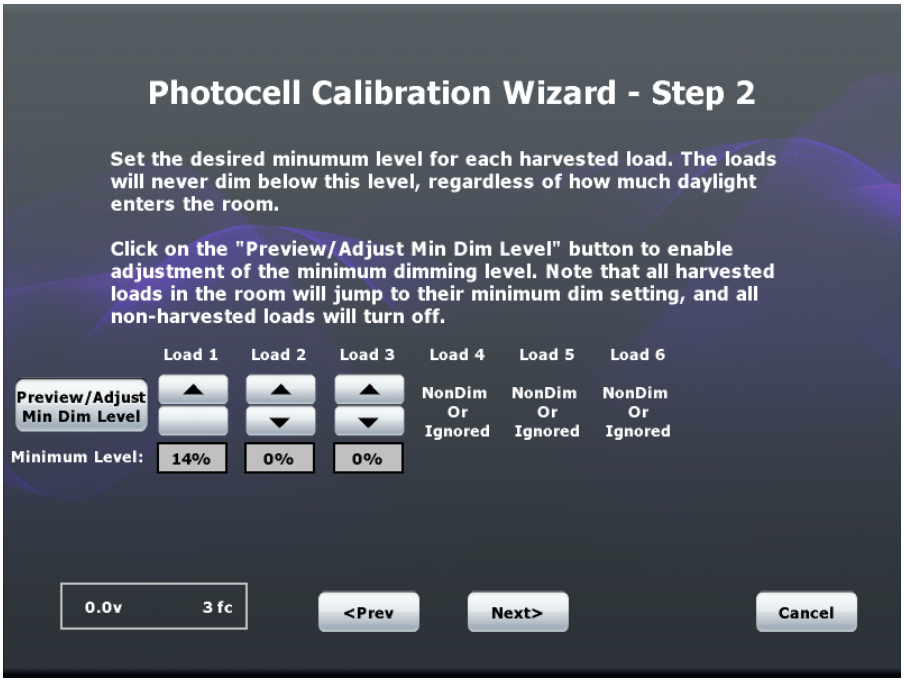
The following table explains the functions of the screen controls.

"Photocell Calibration Wizard" Screen (Minimum Dim Levels) Controls.

CONTROL	DESCRIPTION
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

In step 2, each load is displayed on the screen, as shown in the illustration below.

"Photocell Calibration Wizard – Step 2" Screen



The bottom left corner of the screen displays a readout of the current voltage and light level (in footcandles) seen by the photocell in the room. This is mainly for troubleshooting purposes, and helps to confirm the photocell is operating properly.

NOTE: Light level is extrapolated from voltage, based on the selected sensor type.

The following table explains the functions of the "Photocell Calibration Wizard – Step 2" screen controls.

"Photocell Calibration Wizard – Step 2" Screen Controls.

CONTROL	DESCRIPTION
Preview/Adjust Min Dim Level	Enables adjustment of the minimum dim level setting. When clicked, adjustment controls appear for each load. All harvested loads jump to their current minimum setting, and all non-harvested loads turn off. The control's label changes to **Exit Preview** (refer to description below). **NOTE:** When the *Sensors* tab is exited in any way when in *Preview* mode, *Preview* mode is exited automatically.
Exit Preview	Restores light levels to their normal state based on daylight harvesting parameters.

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"Photocell Calibration Wizard – Step 2 (Open-loop dimming)" Screen Options (Continued)

CONTROL	DESCRIPTION
▲	When in *Preview* mode, this control is used to raise the minimum dim level for each load. Valid range is *0% – 50%.*
▼	When in *Preview* mode, this control is used to lower the minimum dim level for each load. Valid range is *0% – 50%.*
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

In step 3, each load is displayed on the screen, as shown in the illustration below.

"Photocell Calibration Wizard – Step 3" Screen

The bottom left corner of the screen displays a readout of the current voltage and light level (in footcandles) seen by the photocell in the room. This is mainly for troubleshooting purposes, and helps to confirm the photocell is operating properly.

NOTE: Light level is extrapolated from voltage, based on the selected sensor type.

The following table explains the functions of the "Photocell Calibration Wizard – Step 3" screen controls.

"Photocell Calibration Wizard – Step 3" Screen Controls

CONTROL	DESCRIPTION
▲	When in *Preview* mode, this control is used to raise the sensitivity for each load. Valid range is *0% –50%*.
▼	When in *Preview* mode, this control is used to lower the sensitivity for each load. Valid range is *0% –50%*.
Sensitivity Level	Indicates the current setting for each load.
Light Level	Indicates the current light level for each load. This level is determined by a combination of the min dim level and the sensitivity.
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

"Photocell Calibration Wizard (Calibration is complete)" Screen

The following table explains the functions of the "Photocell Calibration Wizard (Calibration is complete)" screen controls.

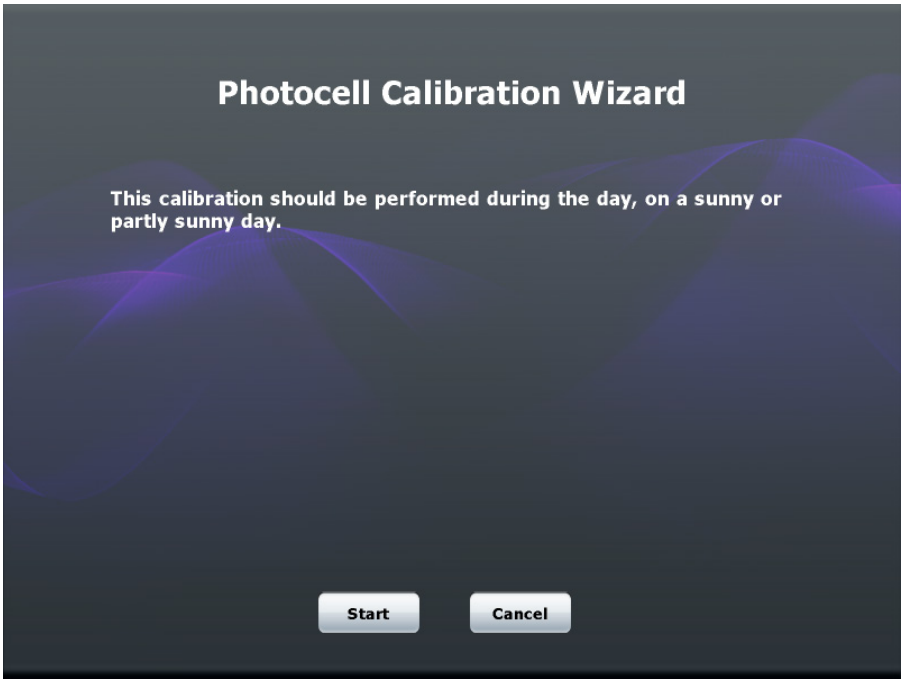
"Photocell Calibration Wizard (Calibration is Complete)" Screen Controls

CONTROL	DESCRIPTION
Save Changes and Exit	Saves all changes and exits the Photocell Calibration Wizard.
Discard Changes	Deletes all changes and exits the wizard.
<Prev	Returns to the previous screen.

Photocell Calibration Wizard (Closed-loop dimming)

When **Calibrate Now…** is clicked and *Closed-looping dimming* is selected for *Daylight Harvesting*, the screen shown in the following illustration is displayed. Refer to page 11 for instructions on configuring a photocell for *Open-loop dimming*.

"Photocell Calibration Wizard" Screen



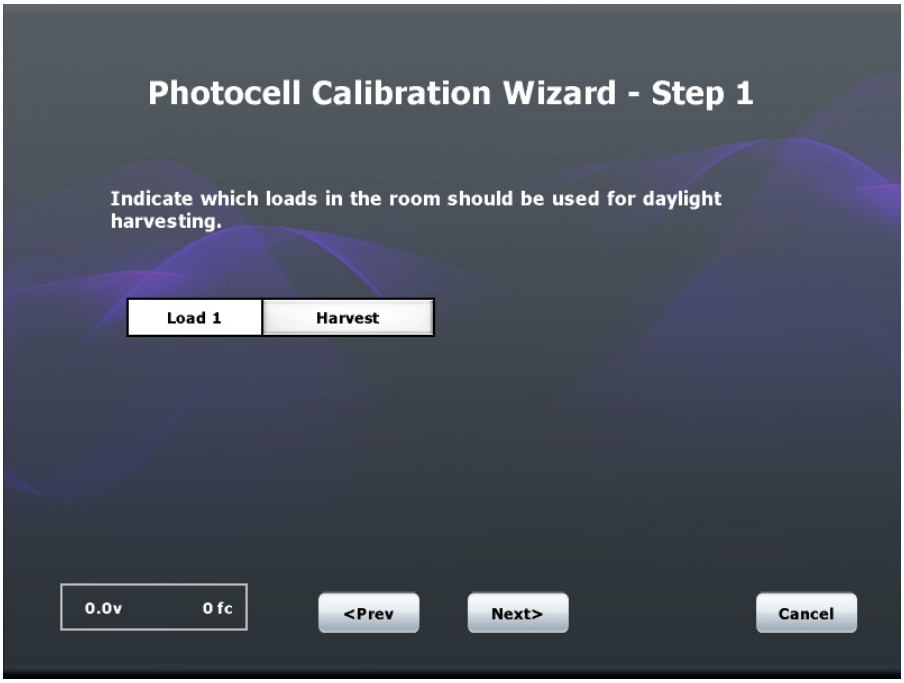
The following table explains the functions of the "Photocell Calibration Wizard" (Closed-loop dimming) screen options.

"Photocell Calibration Wizard" Screen Controls.

CONTROL	DESCRIPTION
Start	Begins photocell calibration (described on the following pages).
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

When calibration is started, the available loads are displayed on the screen shown in the following illustration.

"Photocell Calibration Wizard – Step 1" Screen



The bottom left corner of the screen displays a readout of the current voltage and light level (in footcandles) seen by the photocell in the room. This is mainly for troubleshooting purposes, and helps to confirm the photocell is operating properly.

NOTE: Light level is extrapolated from voltage, based on the selected sensor type.

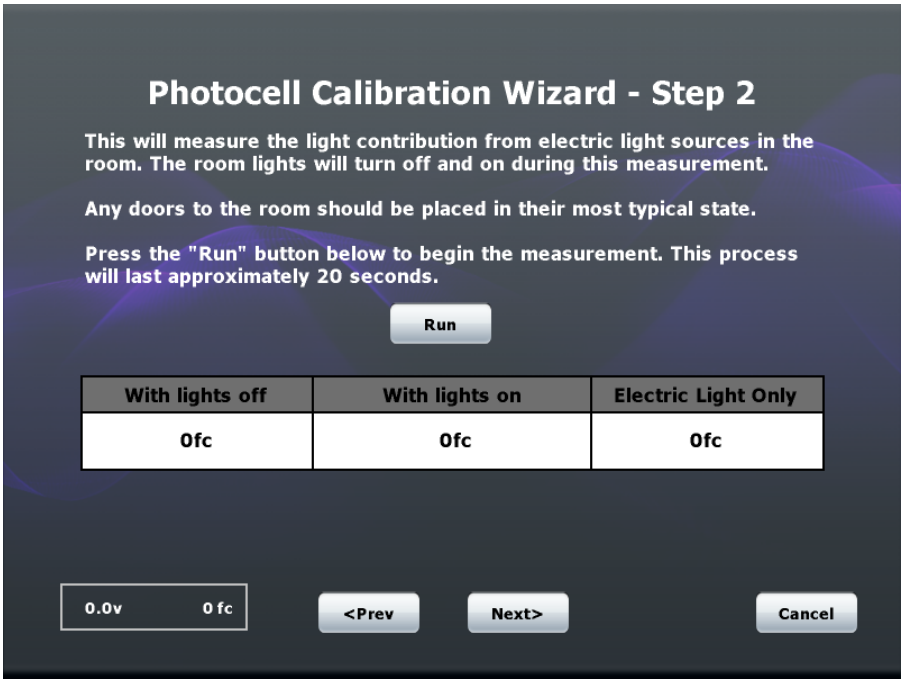
The following table explains the functions of the "Photocell Calibration Wizard – Step 1" screen controls.

"Photocell Calibration Wizard – Step 1" Screen (Closed-Loop Dimming) Controls

CONTROL	DESCRIPTION
Harvest/Ignore	Used to select which loads are affected by the photocell. **NOTE:** If all loads are set to Ignore, no calibration can occur.
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

In step 2, shown in the following illustration, the wizard measures the light in the room.

"Photocell Calibration Wizard – Step 2" Screen



The bottom left corner of the screen displays a readout of the current voltage and light level (in footcandles) seen by the photocell in the room. This is mainly for troubleshooting purposes, and helps to confirm the photocell is operating properly.

NOTE: Light level is extrapolated from voltage, based on the selected sensor type.

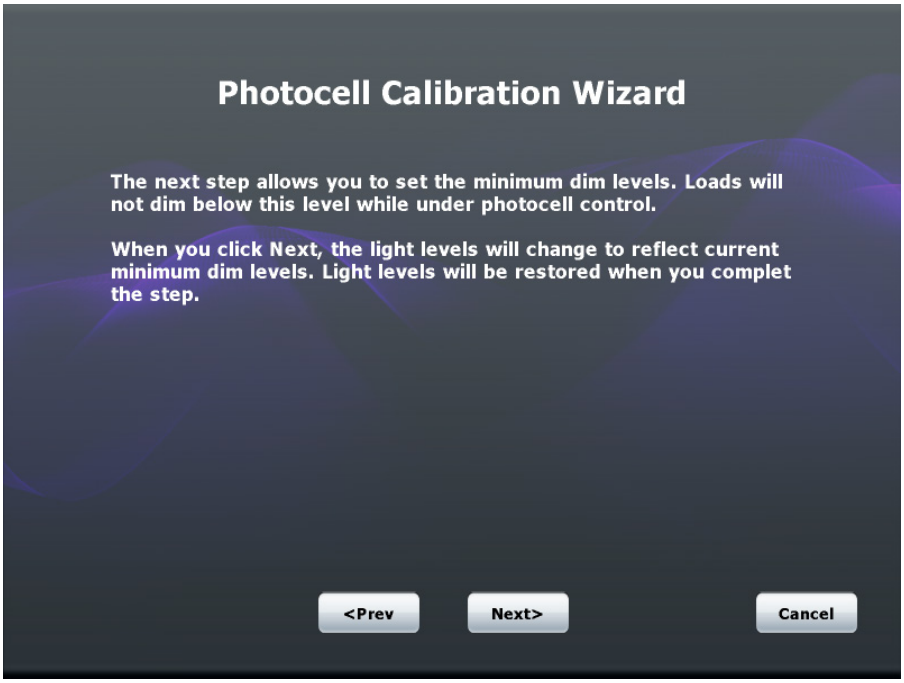
The following table explains the functions of the "Photocell Calibration Wizard – Step 2" screen controls.

"Photocell Calibration Wizard – Step 2 " Screen Controls

CONTROL	DESCRIPTION
Run	Click to perform an auto-calibration procedure that measures the contribution of electric lights to the photocell. When clicked, the following actions occur: • All loads in room turn off for 10 seconds· • Any harvested loads are turned full on for 10 seconds **NOTE:** During the procedure, all user input is ignored.
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

The next screen, shown in the illustration below, displays a message regarding minimum dim levels.

"Photocell Calibration Wizard" Screen (Minimum Dim Levels)



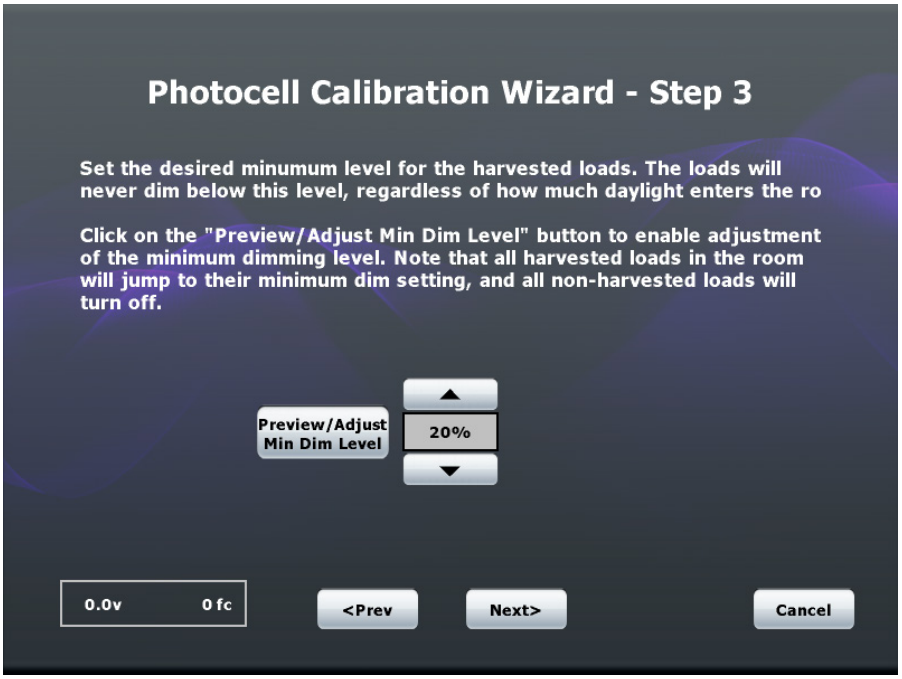
The following table explains the functions of the screen controls.

"Photocell Calibration Wizard" Screen (Minimum Dim Levels) Controls.

CONTROL	DESCRIPTION
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

In step 3, each load is displayed on the screen, as shown in the illustration below.

"Photocell Calibration Wizard – Step 3" Screen



The bottom left corner of the screen displays a readout of the current voltage and light level (in footcandles) seen by the photocell in the room. This is mainly for troubleshooting purposes, and helps to confirm the photocell is operating properly.

NOTE: Light level is extrapolated from voltage, based on the selected sensor type.

The following table explains the functions of the "Photocell Calibration Wizard – Step 3" screen controls.

"Photocell Calibration Wizard – Step 3" Screen Controls

CONTROL	DESCRIPTION
Preview/Adjust Min Dim Level	Enables adjustment of the minimum dim level setting. When clicked, adjustment controls appear for each load. All harvested loads jump to their current minimum setting, and all non-harvested loads turn off. **NOTE:** For closed-loop systems, there is a single minimum dim level setting that is applied to all harvested loads in the room. The control's label changes to **Exit Preview** (refer to description on next page). **NOTE:** When the *Sensors* tab is exited in any way when in *Preview* mode, *Preview* mode exits automatically.

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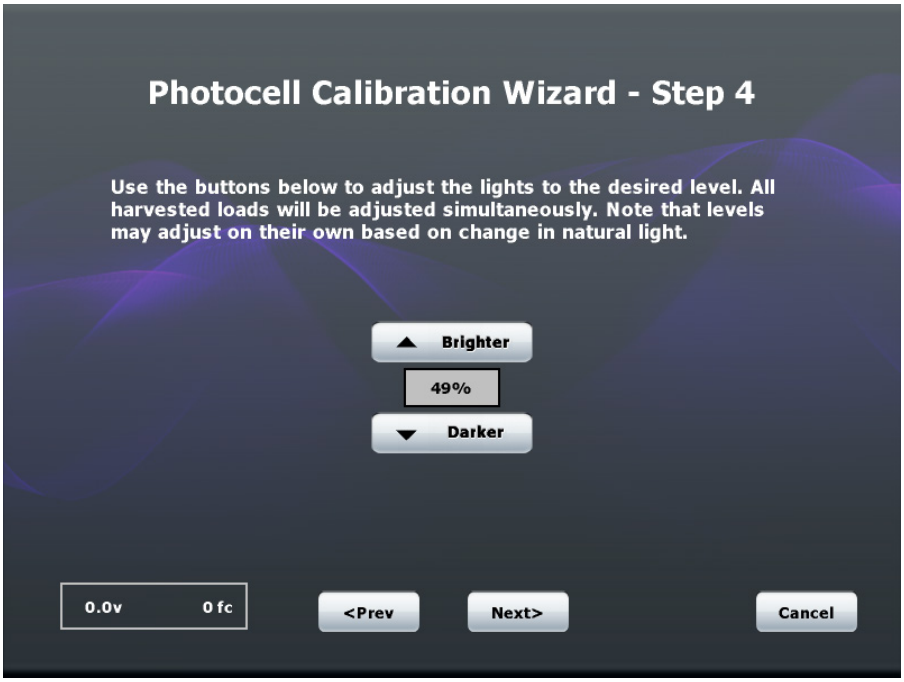
"Photocell Calibration Wizard – Step 3" Screen Controls (Continued)

CONTROL	DESCRIPTION
Exit Preview	Restores light levels to their normal state based on daylight harvesting parameters.
▲	When in *Preview* mode, this control is used to raise the minimum dim level for each load. Valid range is *0% – 50%.*
▼	When in *Preview* mode, this control is used to lower the minimum dim level for each load. Valid range is *0% – 50%.*
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

The next screen, shown in the illustration below, allows lights to be adjusted to the desired level.

"Photocell Calibration Wizard – Step 4" Screen



The bottom left corner of the screen displays a readout of the current voltage and light level (in footcandles) seen by the photocell in the room. This is mainly for troubleshooting purposes, and helps to confirm the photocell is operating properly.

NOTE: Light level is extrapolated from voltage, based on the selected sensor type.

The following table explains the functions of the "Photocell Calibration Wizard – Step 4" screen controls.

"Photocell Calibration Wizard – Step 4" Screen Controls

CONTROL	DESCRIPTION
▲ Brighter	Raises the sensitivity level to be applied to all harvested loads. Valid range is *20% – 80%.* This setting determines how much the light levels change in response to a change in daylight level. As the sensitivity is adjusted, the response time is set artificially fast (approximately two seconds) to allow the user to see the end result more quickly.
▼ Darker	Lowers the sensitivity level to be applied to all harvested loads. Valid range is *20% – 80%.* This setting determines how much the light levels changes in response to a change in daylight level. As the sensitivity is adjusted, the response time is set artificially fast (approximately two seconds) to allow the user to see the end result more quickly. Standard operating procedure is to adjust sensitivity up and down until the lights are at the desired intensity. The readout of the sensitivity level is mainly for reference, and to allow settings to be copied over to other loads or rooms.
<Prev	Returns to the previous screen.
Next>	Advances to the next screen.
Cancel	Opens a window which allows the user to save changes and exit the wizard, discard changes and exit the wizard, or cancel and return to the wizard.

"Photocell Calibration Wizard (Calibration is complete)" Screen

The following table explains the functions of the "Photocell Calibration Wizard (Calibration is complete)" screen controls.

"Photocell Calibration Wizard (Calibration is Complete)" Screen Controls

CONTROL	DESCRIPTION
Save Changes and Exit	Saves all changes and exits the Photocell Calibration Wizard.
Discard Changes	Deletes all changes and exits the wizard.
<Prev	Returns to the previous screen.

Keypads & Shades

Click the *Keypads & Shades* tab to view the "Keypads & Shades" screen, shown in the illustration below.

"Keypads & Shades" Screen

This screen is used to configure keypads and shade controllers. A table of keypads and shade controllers is displayed, along with a table of available keypad templates and their corresponding keypad programming buttons. Select the room to configure using the ◄ and ► buttons at the top of the screen. Click **Exit Setup** to save changes and return to the "Energy Usage" screen.

Keypads & Shades

The following table explains the functions of the *Keypads* controls available on the "Keypads & Shades" screen.

Keypads Section of the "Keypads & Shades" Screen Controls

CONTROL	DESCRIPTION
Delete	Removes the selected keypad from the room. The user is asked to confirm before completing this step. **NOTE:** This button only appears when a keypad is highlighted in the keypads table.
Copy	Copies all programming for the selected keypad. **NOTE:** This button only appears when a keypad is highlighted in the keypads table.

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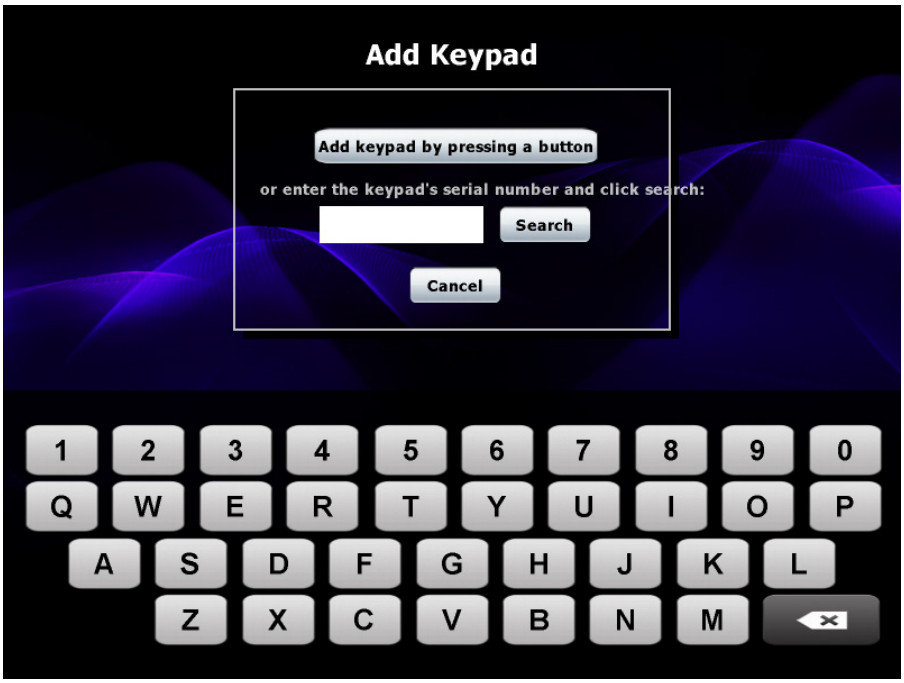
Keypads Section of the "Keypads & Shades" Screen Controls (Continued)

CONTROL	DESCRIPTION
Paste	Pastes all previously copied programming onto the selected keypad. Paste only copies as much programming as possible. For example, pasting a six button keypad program onto a four button keypad only copies the first four buttons. Likewise, pasting a four button keypad program onto a six button keypad only copies the first four buttons, and leave the remaining buttons unaffected. **NOTE:** This button only appears when a keypad has been selected in the list.
Identify	Causes all indicator LEDs of selected keypad to blink. This is used for troubleshooting purposes. When clicked, a dialog appears to allow the user to stop the blinking process. **NOTE:** This button only appears when a keypad has been selected in the list.
Add / Replace	Opens the "Add Keypad" screen. **NOTE:** The **Add** button only appears when there are fewer than two keypads already defined in the selected room. **NOTE:** The **Replace** button only appears if a keypad has already been added.
Scene recall checkbox	When checked, makes all scene and preset recall buttons "learnable".

Click the **Add** button to view the "Add Keypad" screen, shown in the illustration on the following page.

"Add Keypad" Screen



This screen is displayed when adding a keypad.

The following table explains the functions of the "Add Keypad" screen controls.

"Add Keypad" Screen Controls

CONTROL	DESCRIPTION
Add keypad by pressing a button	Causes all keypads connected to the system (in all rooms) to start flashing. The next keypad to have a button pressed is added to the current room. If a keypad is pressed that has already been added to the same room, a message appears. Nothing additional occurs and the *Add* process must be restarted. If a keypad is pressed that has already been added to a different room, a message appears asking the user if they want to move this keypad to the current room, or ignore. If they choose move, this keypad and all its programming is moved to the current room, and the *Add* process is considered complete. If they choose **Ignore**, the *Add* process is canceled and no other changes are made.
Serial Number field	Indicates the currently entered serial number (via the keyboard). This number can be any combination of letters and numbers up to a seven character maximum.
Search	Searches the network for the entered serial number. If it is found, the user is informed of this and the device is added to the current room. If the entered serial number is not found, the user is notified, and they can modify the serial number and try again.
Cancel	Cancels the *Add* process and returns to the "Keypads & Shades" screen.

Keypad Template

The following table explains the functions of the *Keypad Template* controls available on the "Keypads & Shades" screen.

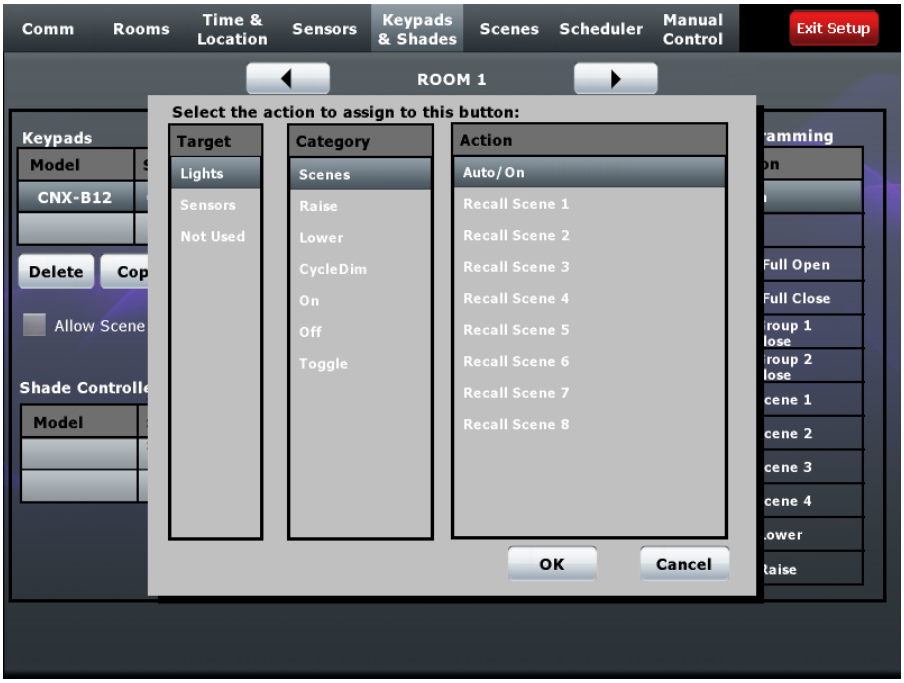
Keypad Template Section of the "Keypads & Shades" Screen Controls

CONTROL	DESCRIPTION
Lights Only/ Shades Only/ Lights and Shades/ Custom	Clicking on a list item updates keypad's programming to a predefined set of functions based on the selected keypad type. The user can then customize the programming using additional controls if desired. Once customization has been made, the template list is changed to **Custom**. **NOTE:** Whenever the template is changed from **Custom** to a predefined template, the user is prompted that this overrides some programming, and they have the option to cancel.

Keypad Programming

Click a button row in the *Keypad Programming* section to view the "Keypad Programming" screen, shown in the illustration below.

"Keypad Programming" Screen



This screen is displayed when assigning keypad buttons. The table on the following page explains the functions of the *Keypad Programming* controls available on the "Keypads & Shades" screen.

"Keypad Programming" Screen Controls

CONTROL	DESCRIPTION
Target list	Allows selection of the device being affected. **NOTE:** The current button programming should be reflected by appropriate selections in all lists when the dialog is opened.
Category list	Allows selection of the general category of function for the button. This list is filtered by the *Target* selection.
Action list	Allows selection of action to assign to button. This list is filtered based on the *Target* and *Category* selections.
OK/Cancel	Accepts or discards the selected programming.

Shade Controllers

The following table explains the functions of the *Shade Controllers* controls available on the "Keypads & Shades" screen.

Shade Controllers Section of the "Keypads & Shades" Screen Controls

CONTROL	DESCRIPTION
Delete	Removes the selected shade controller from the room. The user is asked to confirm before completing this step. **NOTE:** This button only appears when a shade controller has been selected in the list.
Identify	Causes the **Setup** LED of selected controller to blink. This is used for troubleshooting purposes. When clicked, a dialog appears to allow the user to stop the blinking process. **NOTE:** This button only appears when a shade controller has been selected in the list.
Add / Replace	Opens the "Add Shade Controller" screen. **NOTE:** The **Add** button only appears when there are fewer than two shade controllers already defined in the selected room. **NOTE:** The **Replace** button only appears if a shade controller has already been added.
Output 1	Toggles controller *Output 1* between *Shades Groups* **Group 1** and **Group 2**.
Output 2	Toggles controller *Output 2* between *Shades Groups* **Groups 1** and **Group 2.**

Click the **Add** button to view the "Add Shade Controller" screen, shown in the illustration on the following page.

"Add Shade Controller" Screen

This screen is displayed when adding a shade controller.

The following table explains the functions of the "Add Shade Controller" screen controls.

"Add Shade Controller" Screen Controls

CONTROL	DESCRIPTION
Add shade by pressing a button	Causes all shade controllers connected to the system (in all rooms) to start flashing. The next shade controller to have a button pressed is added to the current room. If a shade controller is pressed that has already been added to the same room, a message appears. Nothing additional occurs and the *Add* process must be restarted. If a shade controller is pressed that has already been added to a different room, a message appears asking the user if they want to move this shade controller to the current room, or ignore. If they choose move, this shade controller and all its programming is moved to the current room, and the *Add* process is considered complete. If they choose **Ignore**, the *Add* process is canceled and no other changes are made.
Serial Number field	Indicates the currently entered serial number (via the keyboard). This number can be any combination of letters and numbers up to a seven character maximum.
Search	Searches the network for the entered serial number. If it is found, the user is informed of this and the device is added to the current room. If the entered serial number is not found, the user is notified, and they can modify the serial number and try again.
Cancel	Cancels the *Add* process and returns to the "Keypads & Shades" screen.

Scenes

Click the *Scenes* tab to view the "Scenes" screen, shown in the illustration below.

"Scenes" Screen

The *Scenes* tab is used to define scenes for lights and shades.

To configure lights for a scene, click the *Lights* tab. To configure shades for a scene, click the *Shades* tab.

Click **Exit Setup** to save changes and return to the "Energy Usage" screen.

NOTE: Scenes 1 – 4 enable photocell control. The target level of the scene is used in conjunction with the photocell reading to calculate the light output level. Target levels for photocell controlled loads can only be set from a keypad or the master control system. For more information on keypad programming, refer to the latest version of the GLPAC-DIMFLV Series Installation Guide (Doc. 7004).

The following table explains the functions of the "Scenes" screen controls (excluding those within the *Lights* and *Shades* tabs).

"Scenes" Screen Controls

CONTROL	DESCRIPTION
Room	Select the room to configure using the ◄ Room ► buttons at the top of the screen.
Scene (1-8)	A single tap of a scene button recalls a saved scene. Holding a scene button for five seconds displays a save dialog box allowing the user to save lights and shades, save the current light levels/fade times, save the current shade settings, or reset the scene to the factory default setting. **NOTE:** To copy a scene, click the source scene once, then click and hold the destination scene for five seconds. The save dialog box appears.
All Off	Deactivates all loads. **NOTE:** This button is not programmable.
Save	Saves the current settings to the selected scene. Button is enabled only when a scene has been selected for editing.

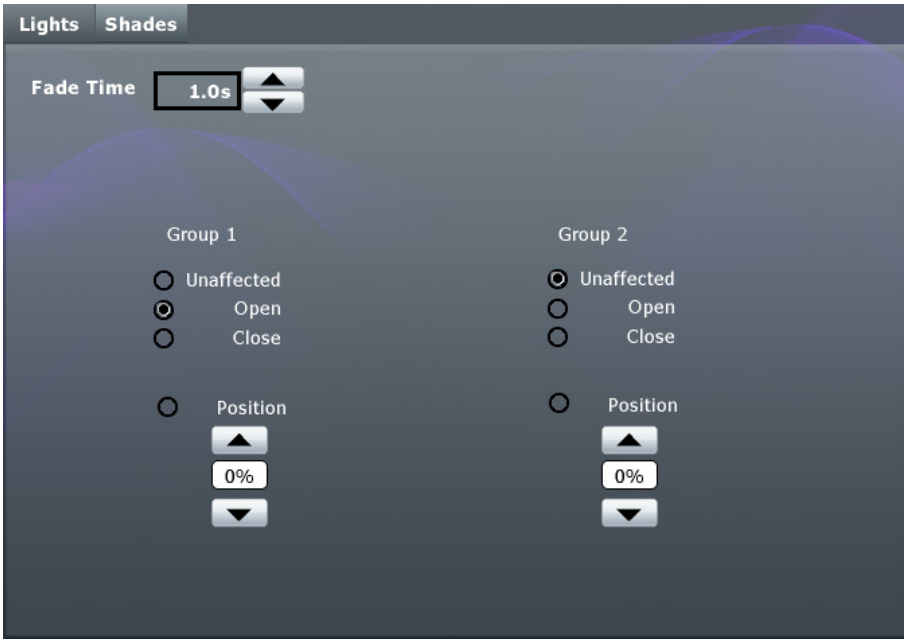
The following table explains the functions of the controls available on the *Lights* tab on the "Scenes" screen, which is shown on page 31.

Lights Section of the "Scenes" Screen Controls

CONTROL	DESCRIPTION
Fade Time	Sets the fade time for the selected scene. Values are: *0s, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 45, 60, 90*. Values should not wrap around at top or bottom. **NOTE:** Fade times only govern lighting loads.
Load (Raise) ▲	This button raises the dim level for each load. Valid range is *0% – 100%.*
Load (Lower) ▼	This button lowers the dim level for each load. Valid range is *0% – 100%.*
On/Off	Toggles the power on and off for the selected load.
Include/Exclude	Includes or excludes the selected load when recalling a scene.

When the *Shades* tab on the "Scenes" screen is selected, the following screen appears.

Shades Tab On The "Scenes" Screen



The following table explains the functions of the controls available on the *Shades* tab on the "Scenes" screen.

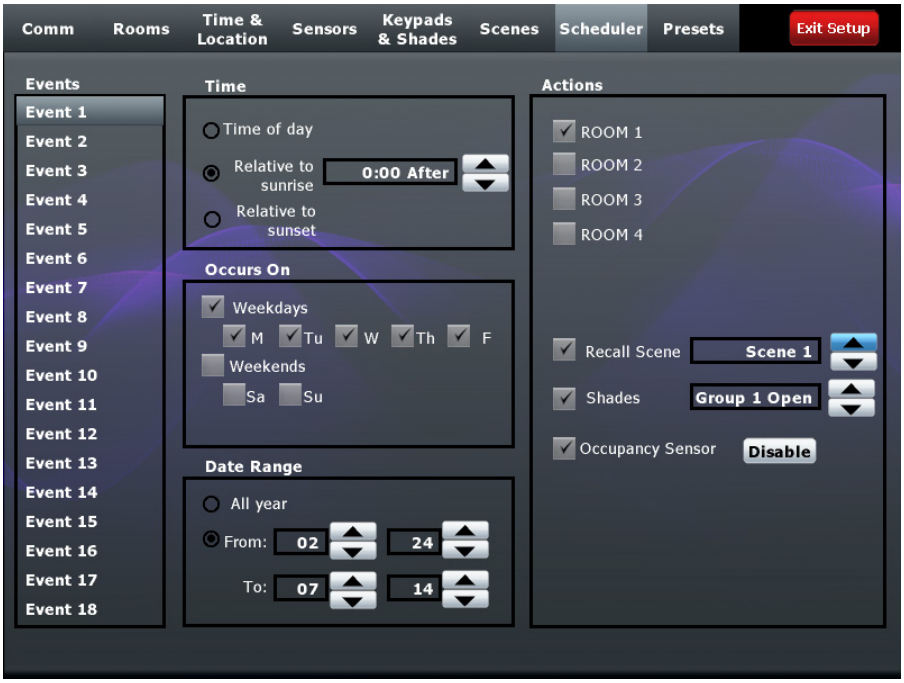
Shades Section of the "Scenes" Screen Controls

CONTROL	DESCRIPTION
Fade Time	Sets the fade time for the selected scene. Values are: *0s, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 45, 60, 90*. Values should not wrap around at top or bottom. **NOTE:** Fade times only govern lighting loads.
Unaffected (Group 1 and 2)	Indicates the shade group is unaffected by the selected scene.
Open (Group 1 and 2)	Indicates the shade group goes to the full open position when the scene is recalled. Selecting this option causes the shade group to change "live".
Close (Group 1 and 2)	Indicates the shade group goes to the full closed position when the scene is recalled. Selecting this option causes the shade group to change "live".
Position (Group 1 and 2)	Allows manual adjustment of shade position using the raise ▲ and lower▼ buttons. These controls are only enabled if at least one of the shade controls used for this group are of type C2N-SSC-2. **NOTE:** If there are more than one shade of this type in the group, the feedback percentage represents the position of first controller of this type in the shade group.

Scheduler

Click the *Scheduler* tab to view the "Scheduler" screen, shown in the illustration below.

"Scheduler" Screen



This screen is used for scheduling events. Click **Exit Setup** to save changes and return to the "Energy Usage" screen.

The following table explains the functions of the "Scheduler" screen options.

"Scheduler" Screen Options

CONTROL	DESCRIPTION
Events (1 – 18)	Selects the event to edit. Once an event has been selected, any changes made via the other controls are saved automatically.
Time Of Day	Sets the selected event to be based on absolute time of day. Once selected, time of day controls appear, allowing the user to specify the time.
Relative to sunrise	Sets the event to be based on sunrise for the current day. Offsets range from three hours before to three hours after. Allows adjustment in 15-minute increments using the raise ▲ and lower▼ buttons.
Relative to sunset	Sets the event to be based on sunset for the current day. Offsets range from three hours before to three hours after. Allows adjustment in 15-minute increments using the raise ▲ and lower▼ buttons.

(Continued on following page)

"Scheduler" Screen Options (Continued)

CONTROL	DESCRIPTION
Weekdays	When checked, this event is active for all weekdays (Mon – Fri). When unchecked, all individual weekdays are cleared (unchecked). An event can be selected for certain weekdays by checking the appropriate checkbox.
M, Tu, W, Th, F	Sets/indicates whether the event is active on weekdays.
Weekends	Sets/indicates whether the event is active on the entire weekend.
Sa, Su	Sets/indicates whether the event is active on a Saturday or Sunday.
Date Range	Sets the selected event to be active all year round or between a range of calendar dates. When a range is checked, allows adjustment of month and date using the raise ▲ and lower ▼ buttons.
Room checkboxes	Selects which rooms are affected by this event. **NOTE:** All rooms are affected in the same way.
Recall Scene	Determines which scene is recalled when the event is fired.
Shades	Determines which shade action occurs when the event is fired.
Occupancy Sensor	Allows enabling or disabling of occupancy sensor when an event is triggered.

Presets

Click the *Presets* tab to view the "Presets" screen, shown in the illustration below.

"Presets" Screen

This screen is used for configuring shade behavior presets. Click **Exit Setup** to save changes and return to the "Energy Usage" screen.

The following table explains the functions of the "Presets" screen options.

"Presets" Screen Options

CONTROL	DESCRIPTION
Room	Select the room to configure using the ◄ Room ► buttons at the top of the screen.
Preset (1 – 4)	Click and hold the appropriate preset button for five seconds to display a dialog allowing the user to save the current settings or reset to the factory default.
Unaffected (Group 1 – 2)	Indicates the shade group is unaffected by the selected scene.
Open (Group 1 – 2)	Indicates the shade group goes to the full open position when the scene is recalled. Selecting this option causes the shade group to change "live".
Close (Group 1 – 2)	Indicates the shade group goes to the full closed position when the scene is recalled. Selecting this option causes the shade group to change "live".
Position (Group 1 – 2)	Allows manual adjustment of shade position using the raise ▲ and lower ▼ buttons. These controls are only enabled if at least one of the shade controls used for this group are of type C2N-SSC-2. **NOTE:** If there are more than one shade of this type in the group, the feedback percentage represents the position of first controller of this type in the shade group.

Resources

Reference Documents

The latest version of all documents mentioned within the guide can be obtained from the Crestron Web site (www.crestron.com/manuals).

List of Related Reference Documents

DOCUMENT TITLE
GLPAC-DIMFLV Series (Installation)

Further Inquiries

If you cannot locate specific information or have questions after reviewing this guide, please take advantage of Crestron's award winning customer service team by calling Crestron at 1-888-CRESTRON [1-888-273-7876]. For assistance in your region, please refer to the Crestron Web site (www.crestron.com) for a listing of Crestron worldwide offices.

You can also log onto the online help section of the Crestron Web site (www.crestron.com/onlinehelp) to ask questions about Crestron products. First-time users must establish a user account to fully benefit from all available features.

Future Updates

As Crestron improves functions, adds new features and extends the capabilities of the GLPAC-DIMFLV, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron Web site periodically for manual update availability and its relevance. Updates are identified as an “Addendum” in the Download column.

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