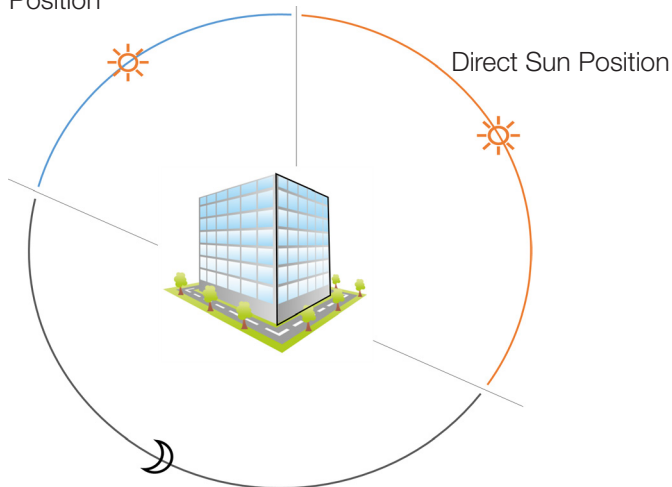# Athena Shade Automation Software

Athena shade automation is a solar adaptive shade adjustment schedule included with the Lutron Athena system. In response to calculated solar position, the Lutron shades are positioned throughout the day giving occupants a comfortable and productive visual environment that reduces glare, saves energy and maximizes the available views.

Athena Shade Automation Solar Adaptive Algorithm

Each day of the year, the Athena shade automation algorithm calculates the sun's location throughout the day relative to the building. A 3-position Natural Light Optimization (NLO) schedule is created based on the latitude and longitude of the building and the directional orientation of each shade.

When a window is calculated to be experiencing direct sunlight, the shades are scheduled to move to the Direct Sun Position (mostly closed) to reduce uncomfortable glare and heat gain.

When a window is calculated to be experiencing natural light but no direct sunlight, the shades are scheduled to move to the No Direct Sun Position (mostly open) to optimize exterior views.

When the system is outside the automation time window, the shades move to the Night Position.

Lutron Mobile App

Allows a building manager to control and monitor the shading system as follows:

- Shade automation within an area can be monitored for the status of the automation.
- Shade automation can be enabled or disabled on a per area basis.
- The position of the shades can be monitored and controlled remotely.

Automation Enable/Disable

Athena shade automation can be enabled or disabled on a button press, timeclock schedule or occupancy/vacancy. For example: An A/V conference scene for a meeting would disable the shade automation to prevent automatic shade motion while the scene is active.

Automation Settings in a Graphical User Interface

- Building location
- Façade orientation
- Preferred shade positions (Direct Sun, No Direct Sun, Night)
- Timing of when the automation starts and ends
- Ability to change shade grouping allowing different automation settings in a single area

  NOTE: These settings are not end user facing. Initial setup and settings changes made by Lutron service.

Required Hardware

- Lutron Athena processor
- No sensors are used as part of the shade automation

Job Name:	Model Numbers:
Job Number:	

Athena Shade Automation Software
(Continued)

Compatible Shade Types

- Lutron Contract Roller shades
- Lutron Sivoia QS Roller shades
- Lutron Palladiom Roller shades
- Non-Lutron shades are not supported

Licenses Required

- No software license required. Athena shade automation functionality is included with the Lutron Athena system and connected Lutron shades.

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Job Name:	Model Numbers:
Job Number:	