



Commercial roller shade selection guide



Introduction

Lutron® offers the most advanced shading solutions for commercial spaces, with a large variety of product options and features. From individual electronically controlled roller shades to self-adjusting automated shading solutions, we offer the right system for any need.

Lutron is the industry leader in technological innovation offering:

- smooth, quiet, precise, low-voltage drive technology
- hardware that affords flexible installation in a variety of architectural configurations
- a wide range of fabric options to ensure the shades complement the décor and offer suitable daylight control

Specify a Lutron roller shading solution in just four simple steps:

Step 1

Select the shade fabric – Consider the needs of the space when choosing a fabric. Depending on how a space is used, you may want to provide access to views, or you may need to darken the area for A/V presentations.

Step 2

Select the drive unit and top treatment – The drive and top treatment differ depending upon the size of the window and the architecture of the building.

Step 3

Select the power supply – Choose from several options for powering a shade, depending upon the number and placement of shades in the space.

Step 4

Select the controls – Shade controls range from personal wireless remote controls to publicly accessible wall-mounted keypads to a completely automated system.



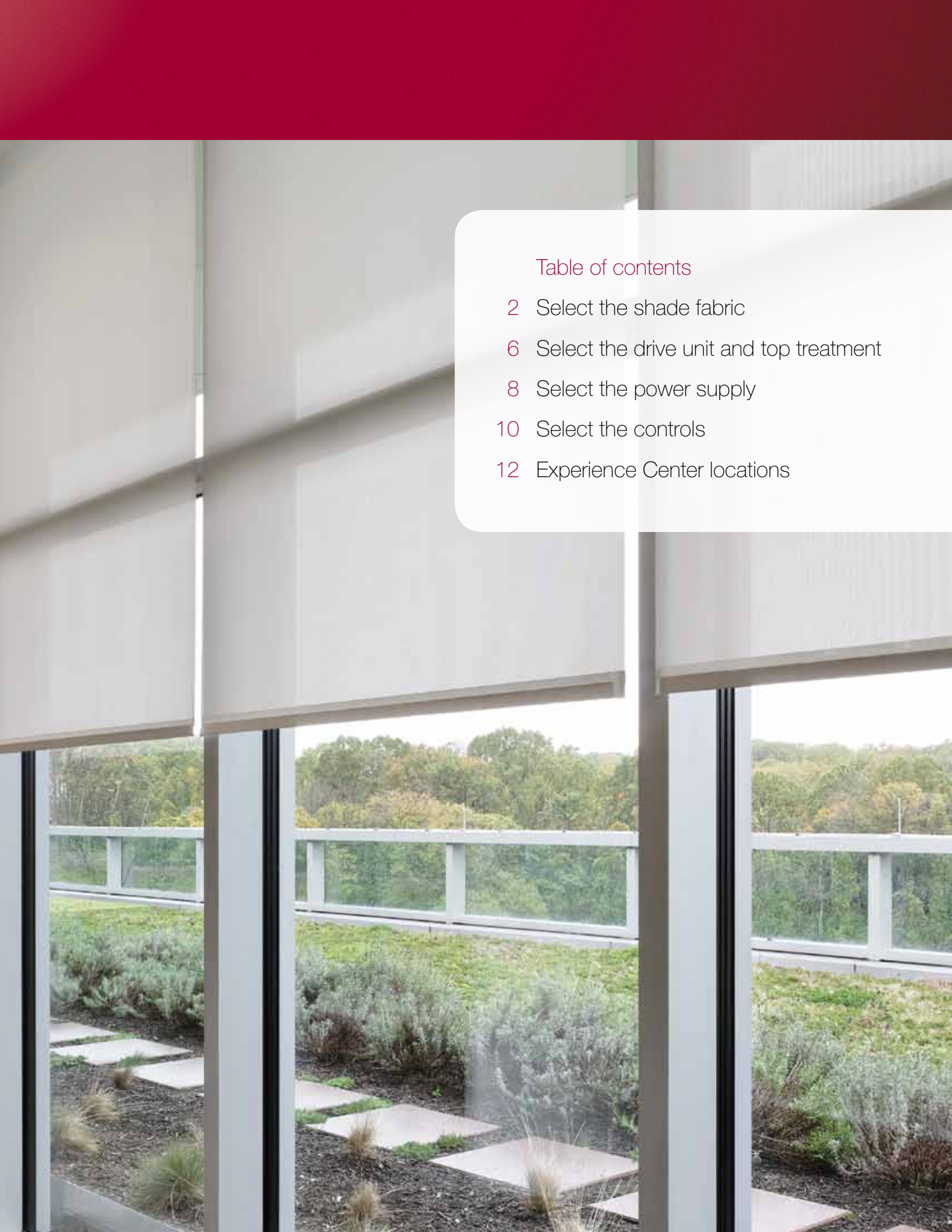


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Select the shade fabric

1 Fabric

2 Drive

3 Power

4 Controls

Lutron® roller shades are available in three fabric categories—sheer, dim-out and blackout. Select the type that best meets the needs of your space.



Sheer

Sheer fabrics feature open weaves, so sunlight is filtered while preserving the view. Sheer fabrics are measured by “openness factor,” which describes the ratio of open space to fabric yarn in a weave.



Dim-out

Dim-out fabrics permit some light penetration, but are not open weaves, so the view is limited to shapes and shadows.



Blackout

Blackout fabrics prevent all light from passing through the material.

Blackout fabrics are often combined with special side channels, top treatments, and other system components to ensure a complete light seal.

Fabric selection

Because daylight interacts with shade fabric in a number of ways, you should also consider solar performance metrics when choosing a fabric.

Solar metrics: For each fabric, $T_s + A_s + R_s = 100\%$.

Solar transmittance (T_s)

percentage of solar radiation that passes through the fabric

Solar absorptance (A_s)

percentage of solar radiation absorbed by the fabric

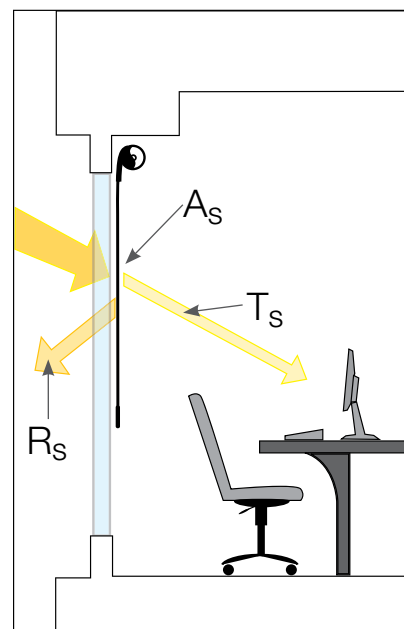
Solar reflectance (R_s)

percentage of solar radiation reflected back out by the fabric

Visual transmittance (T_v) (not shown)

percentage of glare-causing visible light that passes through the fabric; lower values indicate greater glare reduction.

(For example, a T_v of 14% indicates a glare reduction of 86%.)



If you need to:	Choose a fabric with:	In openness factors of:	Also important:
Control glare Enhance visual comfort	Low visual transmittance ($T_v < 10\%$)	$< 5\%$	Use dark fabric colors facing room
Maintain view outside	Low visual transmittance ($T_v < 10\%$)	$> 5\%$	Use dark fabric colors facing room
Protect interiors from fading	Low solar transmittance ($T_s < 10\%$)	$< 1\%$	Select a fabric with an openness factor of 1% or less to minimize UV damage
Optimize energy efficiency	High solar reflectance ($R_s > 50\%$)	$< 5\%$	Use dual-sided fabrics (light color facing window)

For more information about fabric selection and choices, visit www.lutron.com/fabrics

Select the shade fabric

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Top specified commercial fabrics

Shade Fabric	Openness Factors	Description
Basketweave 90 ●	Sheer 1%, 3%, 5%, 10%	A wide variety of glare control options and Microban antimicrobial treatment made from 2x2 basketweave PVC-coated fiberglass
Basketweave 27 ●	Sheer 1%, 3%, 5%, 10%	Dual sided fabric for maximum performance in heat reduction, glare control and improved visibility made from PVC-coated fiberglass with twill weave
Sheerlite	Sheer 3%, 5%	Economically priced 2x2 basketweave made from PVC-coated polyester
Basketweave 4000 ●	Sheer 3%, 5%, 10%	PVC-coated polyester 2x2 basketweave with Microban antimicrobial treatment
Basketweave MS ●	Sheer 3%, 5%	A wide variety of colors made from 1x2 PVC-coated fiberglass weave
Basketweave ES ●	Sheer 1%, 3%, 5%, 10%	2x2 basketweave made from a PVC-coated fiberglass
Translucent P ●	Dim-out 1%	Translucent material you can use when you don't need complete blackout
Blackout Standard ●	Blackout 0%	High durability made from entry level PVC-coated fiberglass blackout fabric
Blackout Value Premiere ●	Blackout 0%	Mid-range price point blackout fabric for commercial blackout applications
Blackout Premiere	Blackout 0%	Premiere blackout fabric with a texture and flocked backing for commercial blackout applications

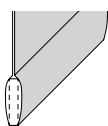
Specialized fabric options

Fabric Family	Openness Factors	Description
Basketweave Silver ●	Sheer 4%	Energy-saving solar reflectance featuring a metalized layer made from a PVC-coated fiberglass
Basketweave Eco ●	Sheer 3%, 5%	A wide variety of colors made from PVC-free fabric consisting of 100% recycled content (thermoplastic olefin)
GreenScreen® Revive ■	Sheer 1%, 5%	A truly green option made from cradle-to-cradle PVC-free fabric consisting of 89% recycled content

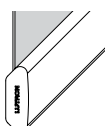
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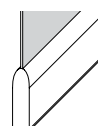
Hembar and accessories – Note: Fabric may not be compatible with all hembar options



Sealed hembar



Architectural hembar



Exposed hembar

Select drive unit and top treatment

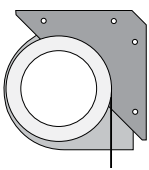
1 Fabric

2 Drive

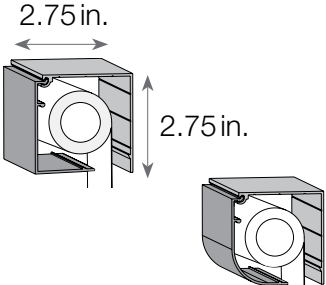
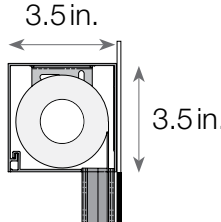
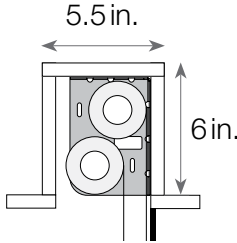
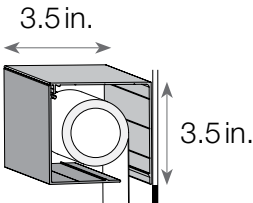
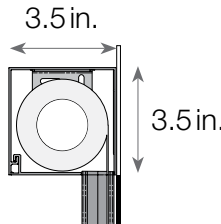
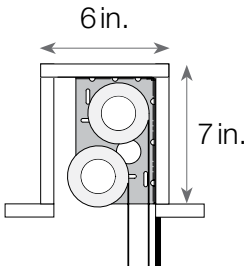
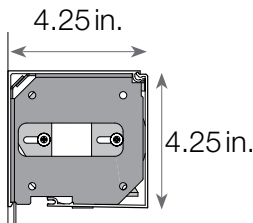
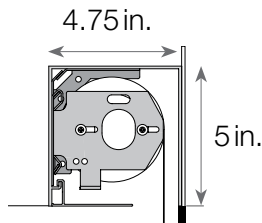
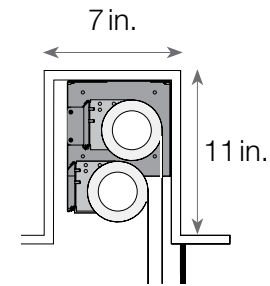
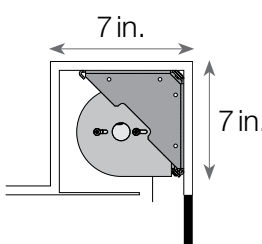
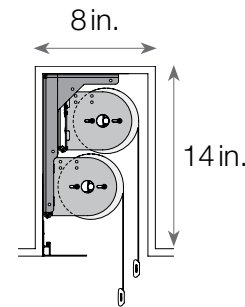
3 Power

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Electronic drive unit selection

	Tube size	Typical maximum window size	Bracket options
roller 20	 1.25 in. (32 mm)	5 ft. x 4 ft. (or up to 20 sq. ft.)	 Universal
roller 64	 1.625 in. (41 mm)	8 ft. x 8 ft. (or up to 64 sq. ft.)	 Universal
roller 100™ roller 150™ roller 200CW NEW! roller 300™	 2.5 in. (65 mm)	10 ft. x 10 ft. (R100) to 12 ft. x 16 ft. (R150) or up to 100-200 sq. ft. (200CW) or 300 sq. ft. (R300)	 Wall  Ceiling  Jamb
roller 225	 3.75 in. (95 mm)	15 ft. x 15 ft. (or up to 225 sq. ft.)	 Jamb

Top treatment options

Fascia and top back cover [†] (round and square fascia)	Pocket	Dual pocket	
 2.75 in. 2.75 in. round fascia	 3.5 in. 3.5 in.	 5.5 in. 6 in.	
 3.5 in. 3.5 in.	 3.5 in. 3.5 in.	 6 in. 7 in.	Private Office
 4.25 in. 4.25 in.	 4.75 in. 5 in.	 7 in. 11 in.	Conference Room
N/A	 7 in. 7 in.	 8 in. 14 in.	Open Office

[†]




 (available in bronze, clear anodized, black, and white, custom)

Select the power supply

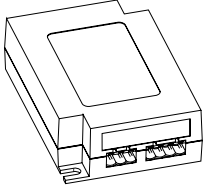
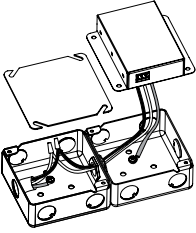
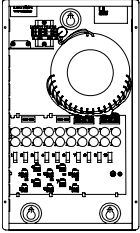
1 Fabric

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Power options for roller shades

* All 120V	Plug-in	J-box	Power panel
			
Sivoia® QS	●	●	●
Sivoia QS Wireless	●	●	●
Powers number of shades	1+1 keypad	1+1 keypad	10 + up to 10 keypads
Peak power consumption	1 A	1 A	8A per panel
Dimensions	Width: 2.36in. (66mm) Length: 2.88in. (73mm) Depth: 1.75in. (44mm)	Width: 2.36in. (66mm) Length: 2.88in. (73mm) Depth: 1.75in. (44mm)	Width: 10.3in. (262mm) Length: 17.5in. (445mm) Depth: 3.9in. (99mm)
Wiring distance 12AWG	250 ft.	250 ft.	500 ft.
16AWG	100 ft.	100 ft.	200 ft.
18AWG	50 ft.	50 ft.	100 ft.

The Sivoia QS power panel uses 8A.
Maximum of one (1) power panel per 15A circuit, two (2) panels per 20A circuit.
Lutron® recommends using high magnetic circuit breakers for power panels.

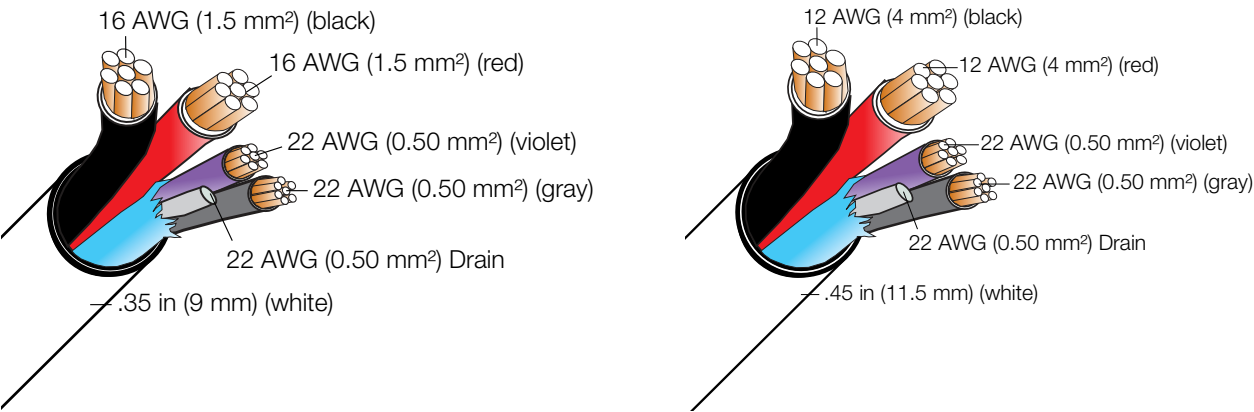
● = Available

Integration options

Controls	Sivoia® QS wired 4-conductor	Sivoia QS Wireless wireless control, 2-conductor wired power
Contact closure interface compatibility	●	●
RS232/ethernet interface	●	●
Quantum® integration	●	●

Sivoia QS cable

Lutron offers two types of QS cable which incorporate both power and communications into the same bundle.



Select the controls

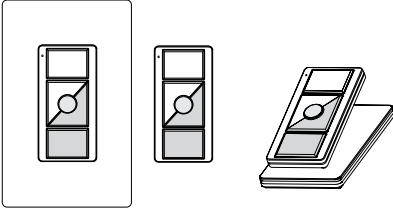
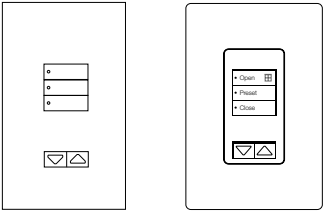
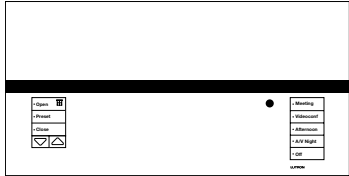
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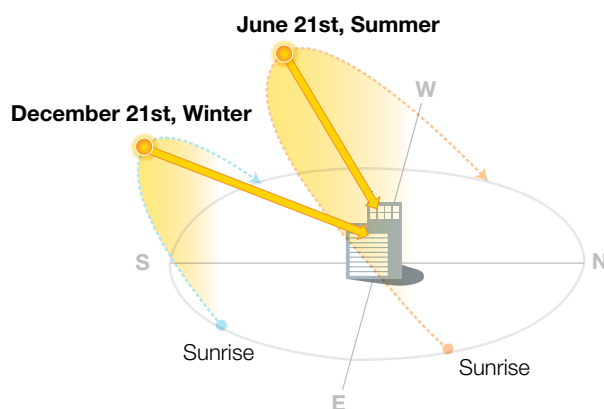
Control options for roller shades

Type	Button Configurations	Compatibility
Pico® wireless control (RF wireless)  Available in 6 colors	5-button	Sivoia® QS Sivoia QS wireless
Keypads  Architectural (non-insert only) Designer (insert-style) Available in 41 colors/finishes	Up to 3 presets* + raise/lower IR receiver Multi-group button options available * Shade keypads only. For system keypad button configurations, please go to www.lutron.com	Sivoia QS Sivoia QS wireless
GRAFIK Eye® QS  Available in 39 colors/finishes	Up to 3 shade groups and 16 zones of light	Sivoia QS Sivoia QS wireless

Hyperion™

Hyperion solar-adaptive shading is an available feature that automatically adjusts Lutron® Sivoia® QS shades to reduce glare and heat gain throughout the day in response to the changing position of the sun. This provides effective daylighting to maximize comfort and productivity.

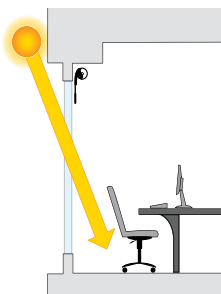
Customized shade adjustment schedules are developed by combining information gathered about the building such as location and facade orientation.



Seasonal solar variation

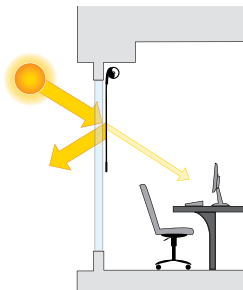
The angle and intensity of daylight changes throughout the year. Hyperion manages these variations by incrementally altering the shade adjustment schedule of each facade on a daily basis.

June 21st, 11:00 a.m.



Hyperion software automatically positions shades to let useful daylight into the space. Lights near windows can be dimmed to save energy.

December 21st, 11:00 a.m.



Shades position to block harsh low-angled winter sun. Lights near windows remain bright, maintaining preferred light levels.

The Lutron® Experience – schedule a tour today

Lutron experience centers showcase the very best in lighting controls and shading solutions. Schedule a tour today to show your customers how Lutron solutions can enhance any space and save energy.



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Additional shades resources

Commercial



Shading Solutions Product Catalog

P/N 367-1455

Specifier's complete resource for Lutron shading systems



The Classico™ Collection

P/N 367-1593

Information on all commercial roller shade fabrics



Hyperion™ Brochure

P/N 367-1626

Introduction to Hyperion solar-adaptive shading for commercial applications

Residential



The Avant Collection™

P/N 367-1678

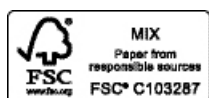
Residential shading solutions for Venetians blinds, Roman shades, the Kirbé® vertical drapery system, and cornices



NEW Sivoia® QS Wireless Cellular shades

P/N 367-2208

Information on the latest addition to Lutron shading solutions



www.lutron.com

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Technical Support Center 1.800.523.9466 (Available 24/7)

Customer Service/Quotes 1.888.LUTRON1

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