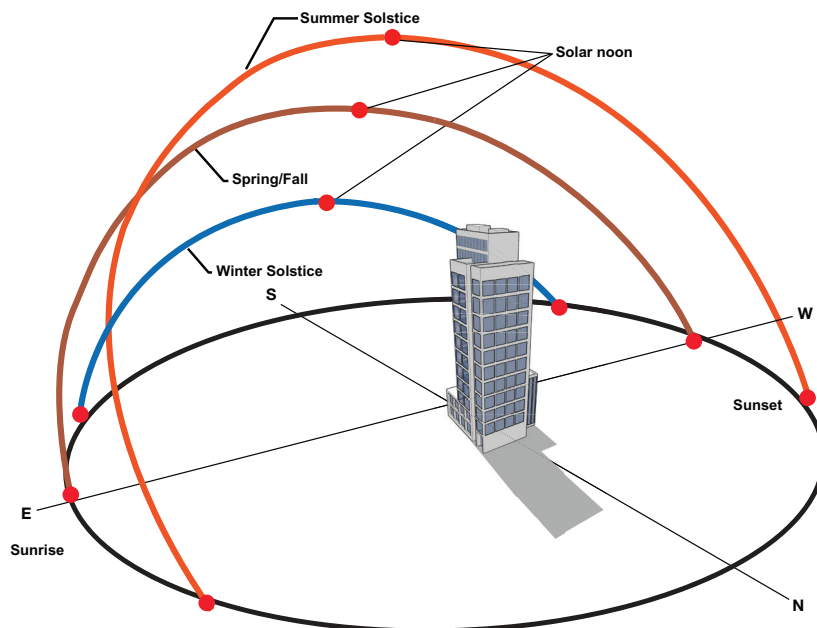# SolarTrac® — The ultimate WindowManagement® control system
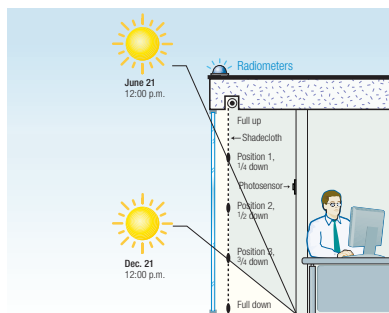
An intelligent controller that:

- Automatically and incrementally adjusts roller shades and other window treatments.
- Calculates sun angles and BTU loads on every inch of glass.
- Evaluates real-time sky conditions on a minute-by-minute basis.
- Minimizes solar-heat gain.
- Optimizes natural light and avoids glare.
- Interacts with lighting and HVAC.
- Maximizes views to the outside.
- Promotes wellness
- Fosters sustainability
- Offers optional Brightness-Override, Shadow-Override, and Reflective Modules for greater optimization.
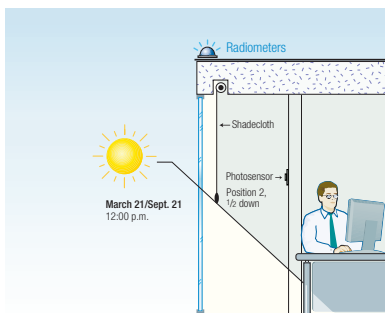- Facilitates peak-demand load-shedding strategies

This representation shows the dynamic sun and how its light impacts a building. SolarTrac calculates and matches the ASHRAE Clear-Sky model to effectively adjust shades.

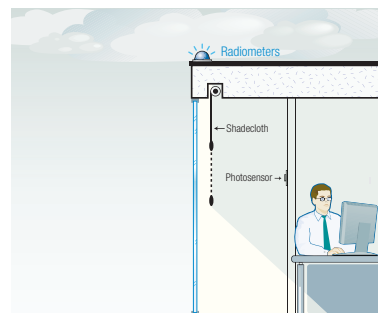**Allowable solar penetration summer/winter: June 21/Dec. 21**

Peak solar altitudes during the year on the south elevation, 40° north latitude. SolarTrac system preset to five or more positions plus user-defined solar penetration (3 ft./91cm shown here).

Allowable solar penetration spring/fall: Mar. 21/Sept. 21

Pre-defined shade position is set for the sun angle in the spring or the fall at 5 ft./152cm.
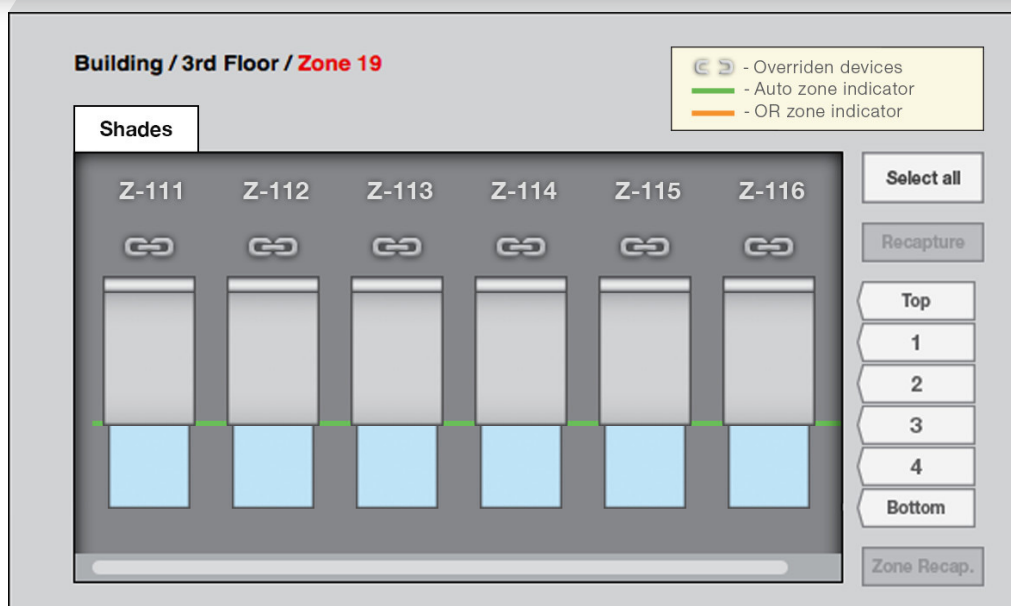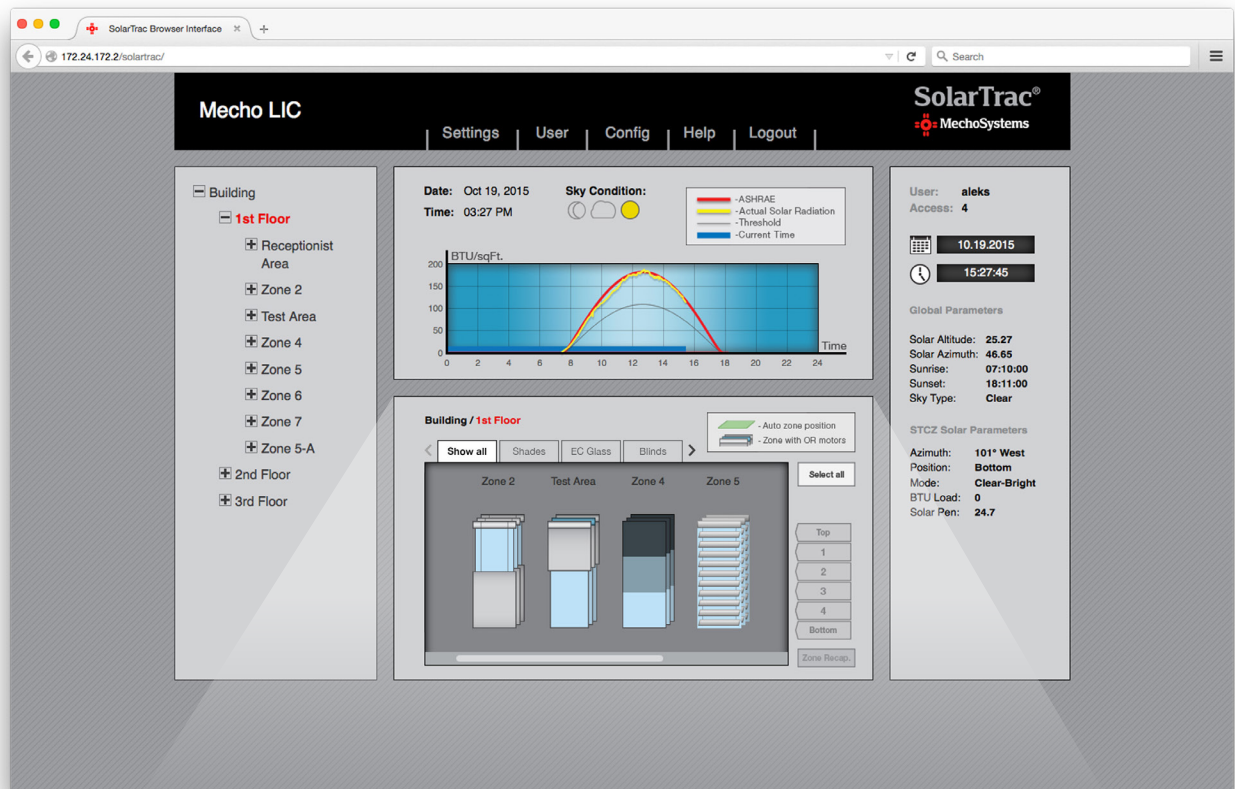
Overcast-sky condition

In the glare mode, the shade provides protection from the glare of a bright sky while offering a view to the outside.

SolarTrac® — The ultimate WindowManagement® control system

SolarTrac screen:

Option 1: Zone selector
Option 2: Select product and zones to be used