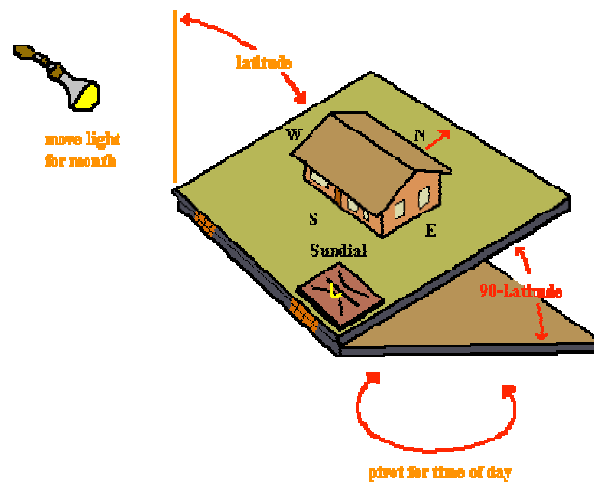


## Parsons Lighting Lab - Heliodon

The top light is summer, middle is spring/fall and bottom is winter.

The colors of the dichroic lamps should be summer-red, equinox-blue and winter-green. this sequence works best with viewing either the equinox alone (blue), the solstices together (yellow), or all three at once (white). it will also put your knowledge of additive color mixing to the test as students ask which shadow are from which solar position.

*hint: shadows are the compliment color.*



The table top should be tilted so that the angle between the plane of the table and the plane of the floor corresponds to the co-latitude ( $90 - \text{latitude}$ ) of the study site. This will produce an equinox noon altitude that is also the co-latitude.

Some other notes:

- 1) The study area of the model should be level with the equinox lamp position
- 2) Make sure the table is in the right position- the ground should be marked with the center of the table.
- 3) Make sure the lamps are pointing at the tabletop
- 4) Mount a sundial on the model level in the proper orientation, at a height level with the equinox lamp position, to verify tabletop alignment by rotating the tabletop through a day

**Matthew Tanteri**

**TANTERI + ASSOCIATES, LLC**  
*daylighting consultants*  
665 Broadway, Suite 706E  
New York, NY 10012  
tel: 212.674.4488 ext. 13