**Supplemental Figure 1.** Emission spectrum of UVB fluorescent lamps equipped with a UV-C filter (Plexiglas G-UVT acrylic). The system emits predominantly in the UVB region (280-320nm) with a peak at 310-315 nm.
Supplemental Figure 2. Antibody binding in sections from control (unirradiated) eyes. Sagittal sections were incubated with anti-CPD or anti-6-4 PP (green). Nuclei were counterstained with DRAQ5 (red). Low levels of background fluorescence are detected in the retina and elsewhere. Boxed regions in A and C are shown at higher magnification in B and D. Note that fluorescence is generally diffuse and does not co-localize with the nuclear staining. Fluorescent puncta in the iris (arrowheads) do not correspond to nuclei and represent non-specific antibody binding to erythrocytes in irideal blood vessels. Scale Bars = 0.5 mm (A,C); 100 µm (B,D).
Supplemental Figure 3. Irradiance in Saint Louis, MO (located at 38° 38’ 07” N) on June 22, 2012.