

irradiating lamp, to vary as desired the intensity of irradiation applied to said samples.

7. The testing chamber of claim 1 in which reflecting mirrors are provided above said lamp to direct light from said lamp toward said samples, some of said reflecting mirrors being concave to at least partially focus reflected light toward said samples, and other of said reflecting mirrors being substantially flat to direct broad areas of reflected light toward said samples.

8. The testing chamber of claim 7 in which at least a pair of lamps are positioned in side-by-side relation, said reflecting mirrors comprising a plurality of flat mirrors forming a pair of sections extending in cross-section laterally from a region essentially between said lamps in a direction extending above and outwardly of said lamps, with each lamp occupying an approximate focus of one of said sections, and at least one curved, generally cylindrically sectioned mirror positioned laterally outwardly from said flat mirrors.

9. In a lightfastness testing chamber which comprises an enclosure for samples being tested, a plurality of lamps for irradiating samples in said enclosure, and means for monitoring the light intensity from said lamps, the improvement comprising, in combination: a plurality of separate light transmission rods, each respectively having one end positioned adjacent to a separate lamp of said plurality of lamps, each of said light transmission rods being in communication with light intensity measuring means positioned more remotely from its associated lamp than the one end of said light transmission rod, each light transmission rod being positioned on a side of its associated lamp that is substantially opposed to portions of that lamp that directly irradiate samples in said enclosure, said light transmission rods being each equipped with means for limiting light transmission therethrough to substantially that light which is emitted by the lamp with which each light transmission rod is associated; and control means for independently controlling the light intensity from each lamp.

10. The testing chamber of claim 9 in which said enclosure carries means for retaining in predetermined positions said samples being tested, plus means for moving said samples being tested toward and away from said irradiating lamps, to vary as desired the intensity of irradiation applied to said samples.

11. The testing chamber of claim 10 in which reflecting mirrors are provided above said lamps to direct light from said lamps toward said samples, some of said reflecting mirrors being concave to at least partially focus reflected light toward said samples, and other of said reflecting mirrors being substantially flat to direct broad areas of reflected light toward said samples.

12. The testing chamber of claim 11 in which at least a pair of said lamps are positioned in side-by-side relation, said reflecting mirrors comprising a plurality of flat mirrors forming a pair of sections extending in cross-section laterally from a region essentially between said lamps in a direction extending above and outwardly of said lamps, with each lamp occupying an

approximate focus of one of said sections, and at least one curved, generally cylindrically sectioned mirror positioned laterally outwardly from said flat mirrors.

13. A lightfastness testing chamber which comprises an enclosure for samples being tested, a plurality of lamps for irradiating samples in said enclosure, and means for monitoring the light intensity from said lamps, said means comprising separate light transmission rods, each respectively having one end thereof positioned adjacent a separate lamp, each said rod communicating with light intensity measuring means at its other end, and control means for independently controlling the light intensity from each lamp in a manner responsive to the light intensity measuring means.

14. The testing chamber of claim 13 in which said light transmission are equipped with means for limiting light transmission therethrough to substantially that light which is emitted by the lamp with which said rod is associated.

15. In a lightfastness testing chamber which comprises an enclosure for samples being tested, at least one lamp for irradiating samples in said enclosure, the improvement comprising, in combination: said enclosure carrying means for retaining in predetermined positions said samples being tested; plus means for moving said samples being tested toward and away from the irradiating lamp to vary as desired the intensity of irradiation applied to said samples, said means for retaining in predetermined positions the samples being tested and said moving means comprising a raisable and lowerable platform, whereby said samples may be moved to varying distances from said lamp without shutting off power to said lamp; and reflecting mirrors provided above said lamp, to direct light from said lamp toward said samples, some of said reflecting mirrors being concave to at least partially focus reflected light toward said samples, and other of said reflecting mirrors being substantially flat to direct broad areas of reflected light toward same samples.

16. In a lightfastness testing chamber which comprises an enclosure for samples being tested, at least a pair of lamps for irradiating samples in said enclosure, reflecting mirrors positioned to direct light from said lamps toward said samples, some of said reflecting mirrors comprising a plurality of flat mirrors forming a pair of sections extending in cross-section laterally from a region essentially between said lamps in a direction above and outwardly of said lamps, with each lamp occupying an approximate focus of one of said sections, and curved, generally cylindrically sectioned mirrors positioned laterally outwardly from said flat mirrors.

17. The testing chamber of claim 16 which includes separate light transmission rods, each respectively having one end positioned adjacent a separate lamp, each said rod communicating through its other end with light intensity measuring means, and control means for independently controlling the light intensity from each lamp in a manner responsive to the light intensity means.

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