

Permissible Exposure Time (PET) Table

The American National Standards Institute (ANSI) has proposed a new standard entitled "Photobiological Safety for Lamps - Risk Group Classification and Labeling," which establishes a Permissible Exposure Time (PET) for existing lamps. Lamps with a PET rating of greater than 8 hours are not considered by ANSI to be a cause for concern.

Light Source Type PET: (hours)

Sun, at 30° from zenith (near noon at 40° N latitude): 0.2

Sun, at 60° from zenith (~5:00 p.m. in summer): 0.6

Sun, at 80° from zenith (10° above horizon): 0.8

Incandescent & Halogen Incandescent Lamps

MR 16 50W halogen lamp, without cover glass: 18

MR 16 50W halogen lamp, with cover glass: 600

120 Volt/500W linear quartz halogen: 4.6

120 Volt/350W linear quartz halogen-IR^a: 540

PAR38 120W incandescent: 250

PAR38 90W glass halogen: 720

PAR 38 60W quartz halogen-IR: 5,000

Fluorescent Lamps

F40 T12 cool white fluorescent: 16

F32 T8 SP41 (made in US): 30

F32 T8 SP41 (made in UK): 108

High Intensity Discharge (HID) Lamps

400W mercury vapor: 72

400W metal halide: 260

400W high pressure sodium (HPS): 6,800