Spectral density curves

Typical densities for a mid-scale neutral subject

Minimum densities

Spectral density

Wavelength (nm)

Characteristic curves

Exposure: 3200K light source for 1/50 second with Fuji Filter SC-41
Processing: Specified standard conditions
Densitometry: Three color densities (status M)

B

G
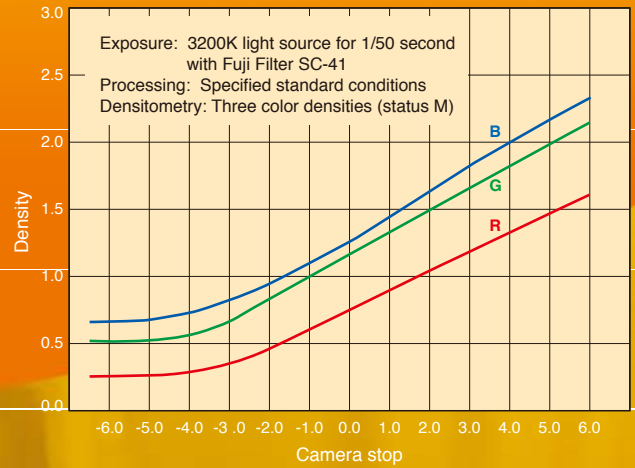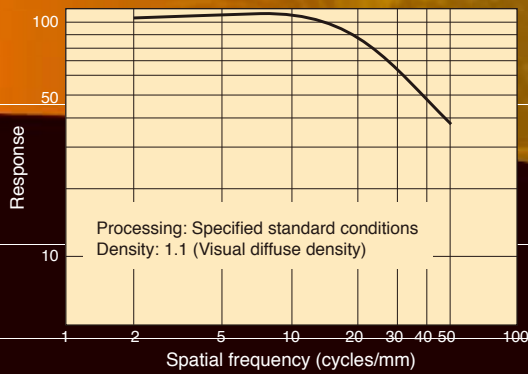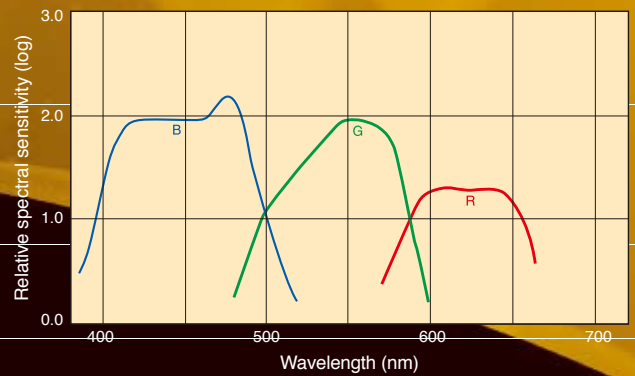
R

Density

Camera stop
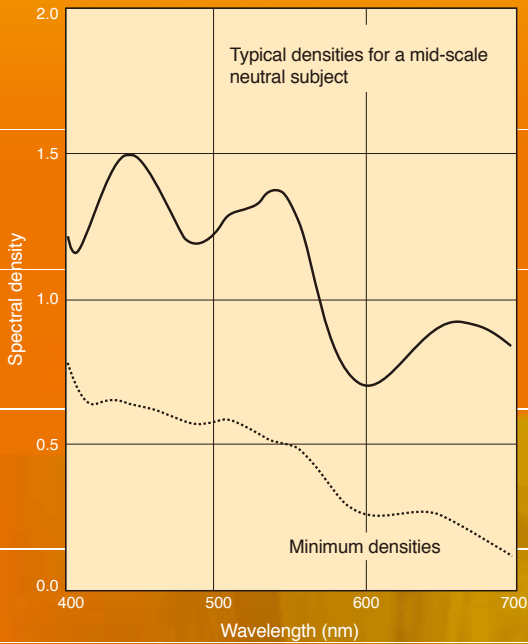
In order to simulate conditions closest to practical use, exposure was made under a 3200K tungsten light source, through a Fuji SC-41 ultraviolet absorbing filter. Processing was carried out under standard conditions and the three color densities were measured, producing the results indicated in the graph above.

Contrast transfer function*

Processing: Specified standard conditions
Density: 1.1 (Visual diffuse density)

Response

Spatial frequency (cycles/mm)

* Spatial frequency attenuation characteristic of amplitude relative to rectangular wave chart.
(Data is normalized for amplitude of zero frequency.)

Spectral sensitivity curves

B

G

R

Relative spectral sensitivity (log)

Wavelength (nm)

Processing: Specified standard conditions
Densitometry: Arbitrary three color densities
Density: 0.40 above minimum density
Sensitivity: Reciprocal of exposure (ergs/cm^2) required to produce specified density

RMS granularity

3.5 (1,000 times the data obtained from measurement taken at a visual diffuse density of 1.0 above minimum density, using a 48μm diameter aperture)