Daylight Illumination for Color Vision Testing

Each of the color tests listed recommends daylight or equivalent for proper illumination. This includes Farnsworth D15, 100 Hue, SPP, HRR and Ishihara, for example. The True Daylight bulb gives off 6280 degree K light which closely matches the standards set by the International Commission of Illumination. The Tru-Daylight bulb has been the subject of numerous color vision testing studies (see list below) and has been the recommended light source since the MacBeth Lamp became unavailable. The Daylight Illuminators have been approved by the U.S. Food and Drug Administration and the U.S. Defense Personnel Support Center for the armed forces and provides a Color Rendering Index (CRI) of 94 as recommended in various clinical studies and the National Research Monograph. Daylight illumination has been found to be very important for acquired color vision defects (such as Plaquenil screening) and critical occupational applications. Consistency of lighting from exam to exam is very important in detection of drug interactions. Further, the use of daylight has been found to be very beneficial in stereopsis, and visual acuity testing.

References:

Illuminator for Pseudoisochromatic Tests with Easel

The Daylight Illuminator provides the proper angle and lighting for testing with Pseudoisochromatic plates. The easel helps avoid damaging fingerprints on the plates because the plates are presented standing on their own. The easel is removable for installation of a Flat Tray in order to use the Illuminator with arrangement tests.

The new Daylight Illuminator with Universal Power Supply adapts to any combination of 50 or 60 Hz and 110 or 220 volt. Kit includes slip in plug adapters for US, UK and Germany. Has UL, CSA and CE markings.

5137R Illuminator with removable easel 110V
5735R Illuminator with removable Easel 110/220V Universal PS

Illuminators for Arrangement Tests

The 100 Hue Flat Tray is specifically designed to be used with Farnsworth 100 Hue, Farnsworth D15 and Lanthony Desaturated D15 tests. The 100 Hue tray is removable and measures 22” by 6” (108 by 30 cm). The raised Tray for the Magnetic Farnsworth or Roth 28 tests is 10 x 18 x 1.75 inch (26 x 46 x 3.5 cm) and includes a black rubber dull mat. See above description of 110/220V Universal Power Supply version.

5139R Illuminator with removable Flat Tray 110V
5733R Illuminator with removable Flat Tray for Universal PS 110/220V
6123R Illuminator with Platform for Magnetic Farns or Roth 28 110V
6124R Illuminator with Platform for Mag Farns or Roth 28 110/220V

Accessories for Daylight Illuminators

The Daylight Bulbs are 15 watts. What is different about these bulbs is that they provide 6280K daylight which is what is required for accurate color vision testing.

5141R Easel for use with Pseudoisochromatic Plate tests
5142R Flat Tray for mounting in place of removable Easel
6122 Illuminator Platform for Magnetic Farnsworth or Roth 28
6665R Daylight 18 inch Replacement Bulb

Daylight Illuminator Common Features

Each Daylight Illuminator Includes convenient handle for ease of transport, light switch and 4 ft cord. Dimensions are 17.5” high, 10” deep and 19” wide (44.5 cm H x 25.4 cm D x 48.3 cm W). The Plug Adapter kit provides 4 plug adapters (see photo) which includes adapters for:
• Type G for United Kingdom, Ireland, Cyprus, Malta, Malaysia, Singapore and Hong Kong
• Type F and C for Germany, Austria, the Netherlands, Sweden, Norway, Finland, Portugal, Spain, Brazil, Argentina, Peru and Eastern Europe
• Type H and I for Israel, Australia, New Zealand, Papua New Guinea and Argentina
• Type A for North and Central America, Brazil, Peru

The power supply handle power inputs: 47 to 63 HZ and 100 to 240 volts. The Universal Power Supply version is designed for shipment outside of the U.S.

Note: 5141R Easel and 5142R Flat Tray come with Velcro™ for easy mounting. 5142R Flat Tray is the same as the tray included with the F100R kit. The 6122 raised Tray has rubber feet.