



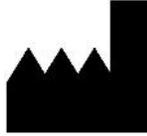
Gulden Ophthalmics

225 Cadwalader Avenue
Elkins Park, PA 19027-2020, USA

Web: www.guldenophthalmics.com

Email: info@guldenophthalmics.com

Phone: +1(215) 884-8105



Qarad B.V.

Flight Forum 40
5657 DB Eindhoven
The Netherlands



Accurate color vision testing requires daylight illumination as provided by as standard "illuminant-C" source such as the Macbeth easel lamp (color temperature 6425°K). However, due to the unavailability of such sources, it is common practice to use bare tungsten incandescent bulbs (illuminant-A 2854°K), which are inaccurate, thus causing incorrect color testing scores and misclassification of color deficiencies. Although both natural daylight and fluorescent tubes are closer to illuminant-C, neither is a consistent, reliable source of standardized daylight illumination. In addition, fluorescent tubes contain significant short wavelength power spikes and are often unstable over time.

Subtractive Color Correction. C-Daylight™ Glasses take advantage of the fact that the light from a tungsten (illuminant-A) bulb can be accurately color corrected to illuminant C either before or after illuminating the color test target. **C-Daylight™ Glasses** enable the clinician to properly test patients for both congenital and acquired color vision disorders using any ordinary 60-75-100 Watt household bulb, thus making such testing convenient anywhere in the typical office.

Using C-Daylight™ Glasses. Use C-Daylight™ Glasses to conduct color testing with Ishihara and other pseudo-isochromatic plates (PIP), Farnsworth panel D-15, Lanthony's Desaturated D-15 and the FM 100-Hue test. Depending on the visual requirements of the patient, use **C-Daylight™ Glasses** either alone or over the patient's clear spectacles. Color testing should be avoided if the patient's glasses are tinted unless the goal of the test is to assess the patient's color vision through the tint. Color testing with **C-Daylight™ Glasses** should always be performed under a 60, 75 or 100-watt soft white or standard household bulb. Illuminate the test surface at a 45° angle of incidence and at a distance of 21 cm using a 60 watt bulb, 24 cm using a 75 watt bulb, and 36 cm using a 100 watt bulb. Remember that **C-Daylight™ Glasses** are designed for incandescent illumination only and that other room illumination, especially fluorescent and window illumination, should be excluded from the testing area. Finally, after the patient's donning the glasses, each test should be conducted according to the instructions of that particular test.

Care of C-Daylight™ Glasses. A coating process on the acetate lenses accomplishes the calibrated filtration of C-Daylight™ Glasses. Although this is a reasonably durable coating and lens material, it can be scratched. Therefore, these glasses should be protected from fingerprints and other sources of debris. Cleaning should be as infrequent as possible and should be done by first dusting off any particulate matter, and then by wiping gently with a water (never alcohol) moistened soft cotton cloth. To protect the lenses from any possible fading, they should never be exposed to direct sunlight or left lying under test lamps or other sources of illumination. Always store the glasses in the UV protective sleeve.