

## **Instructions for Use: C-Daylight™ Glasses (15115)**

Contents: C-Daylight™ Glasses and UV Bag

The intended purpose of C-Daylight™ Glasses is to filter light from illuminant A – to Illuminant C for patients undergoing color vision testing. Accurate color vision testing requires daylight illumination as provided by a standard “illuminant-C” source such as the Macbeth easel lamp (color temperature 6425°K). However, due to the inaccessibility of such sources, it is common practice to use 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 60-75-100-Watt incandescent 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 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 incandescent 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. 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. After the patient’s wearing the glasses, each test should be conducted according to the instructions of that 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. The glasses should be protected from fingerprints and other sources of debris. As needed by first dusting off any particulate matter, and then by wiping gently with water (never alcohol) moistened soft cotton cloth. To protect the lenses from any possible fading, they should never be exposed to direct sunlight nor left lying under test lamps or other sources of illumination. Always store the reusable glasses in the UV Bag.

Any serious incident that has occurred in relation to this device should be reported to Gulden Ophthalmics and the competent authority of the Member State in which the user and/or patient is established in the EU.