While observers recognize the significant influence of viewing conditions on their perception of medical images, authors have reported this influence in the literature, and researchers have proposed quantitative recommendations for the viewing of radiographs and medical imaging films, medical imaging professionals and regulators in the United States have not adopted a standard method for characterizing viewing conditions. The International Imaging Industry Association Technical Committee on Image Evaluation, IT2, has processed, approved, and submitted to the American National Standards Institute for approval a new standard method for characterizing viewing conditions for transilluminated monochrome medical images. The standard sets forth definitions for viewing terms, specifications for measuring instruments, testing procedures for viewing environment illuminance and illuminator luminance, and a standard method for calculating and reporting average luminance, luminance spatial uniformity, and illuminance, with a suggested data presentation format.

After studying the poster, the viewer should be able to understand the scope of the standard, the definition of viewing concepts, the capabilities of the required measuring instruments, and, following a written copy of the standard, perform the described test procedures for measuring viewing conditions and reporting viewing conditions test results in a suggested format.