

Figure 1. Diagram of colorimetric prediction of skin color image under various illuminants.

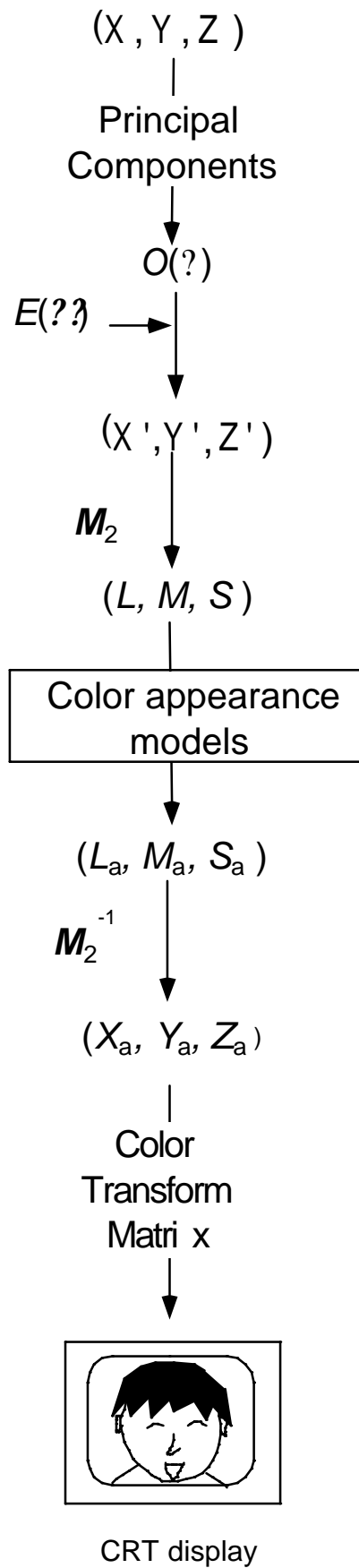


Figure 2. Diagram of corresponding color reproduction method of skin color image under various illuminants.

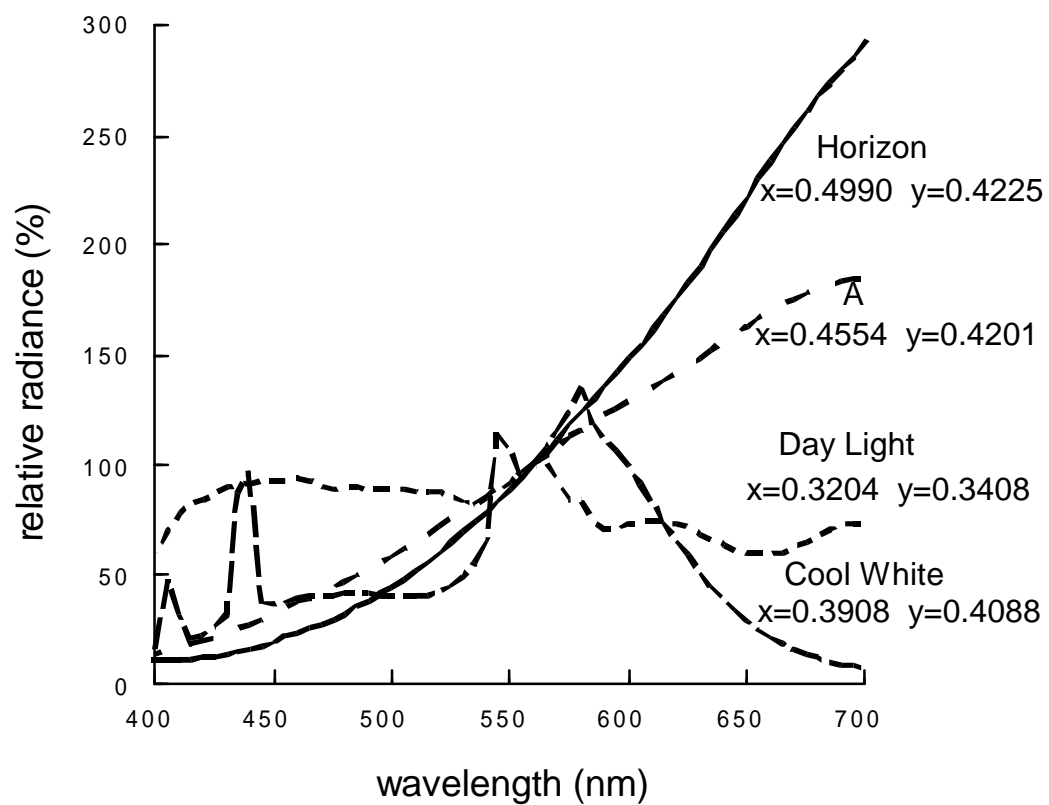


Figure 3. Measured relative spectral radiance of the illumination lamps in the experimental booth.



Figure 4. Predicted color appearance of skin color patches under various illuminants; (a) Prediction for illuminant "A", (b) Prediction for illuminant "Horizon", (c) Prediction for illuminant "Cool White", (d) Prediction for illuminant "Day Light"



a)XYZ (Colorimetric)



b)CIELAB



c)von Kries



d)Fairchild

Figure 5. Color appearance predictions of a facial pattern image under illuminant “A”, (a) XYZ image, (b) CIELAB image, (c) von Kries image, (d) Fairchild image.

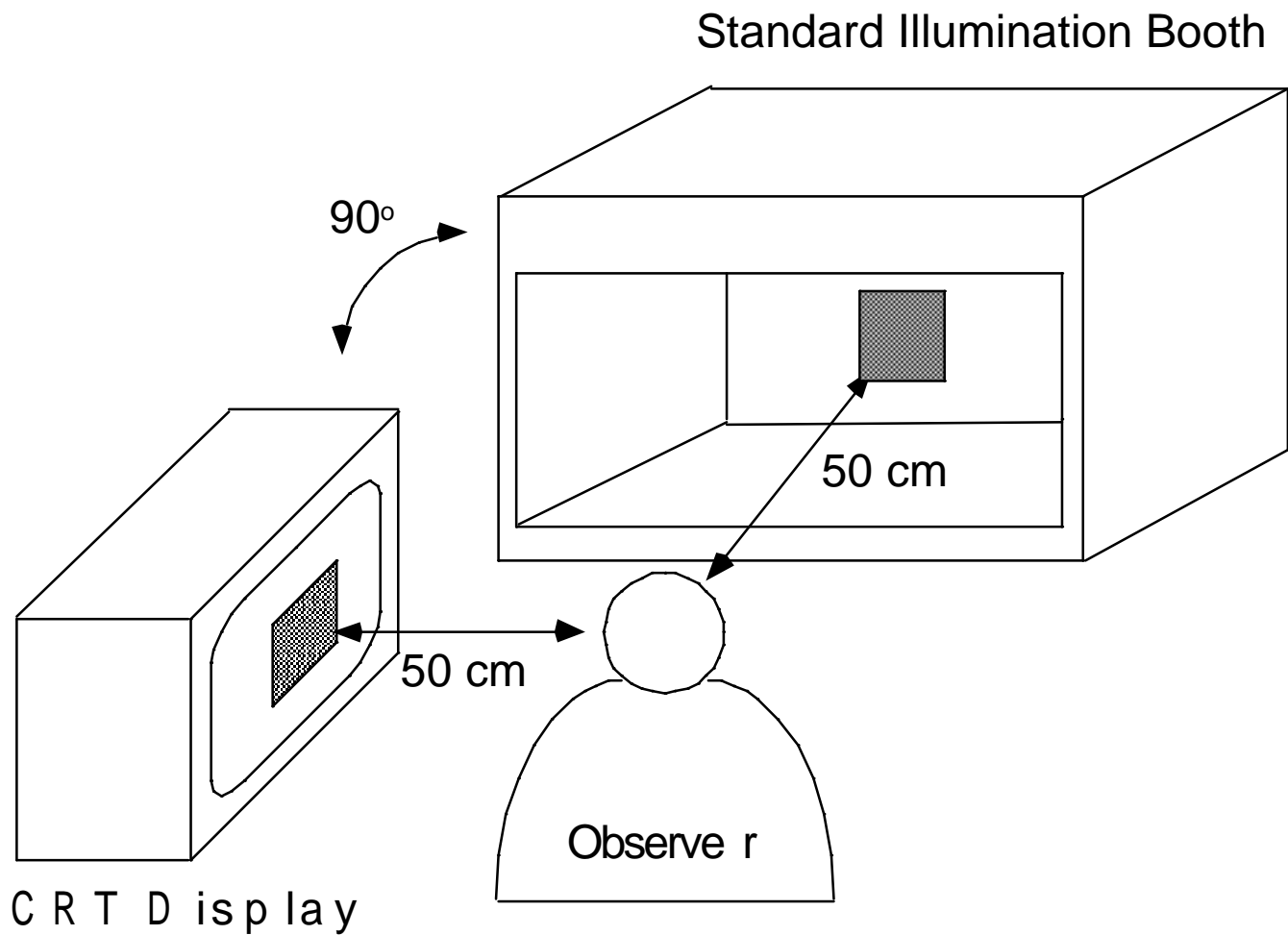
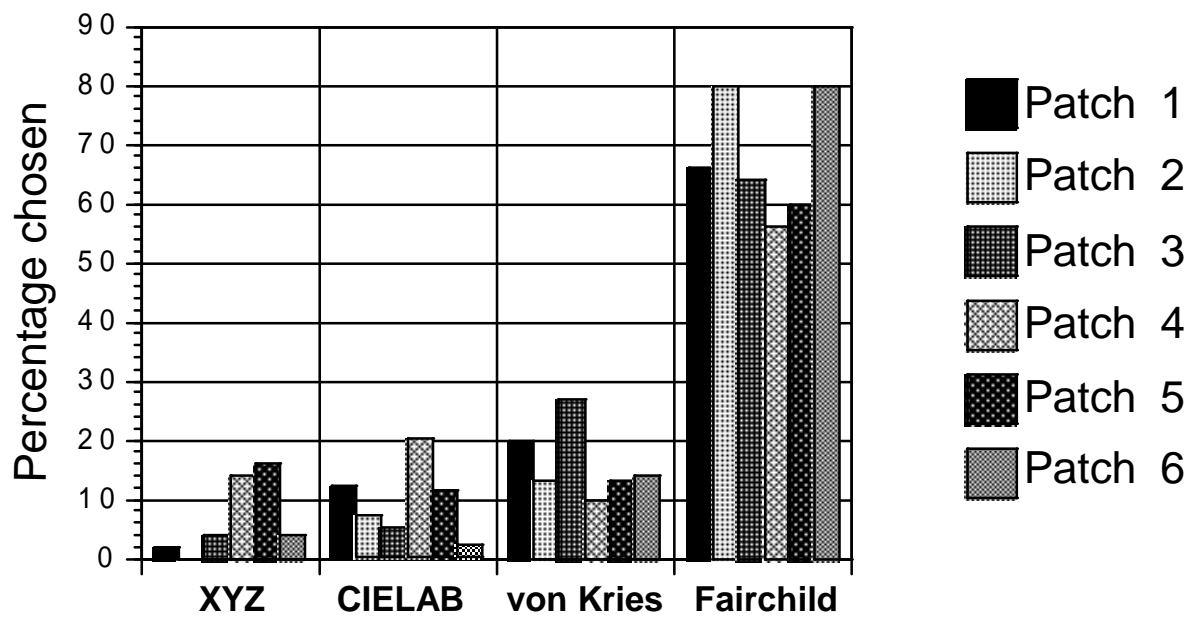
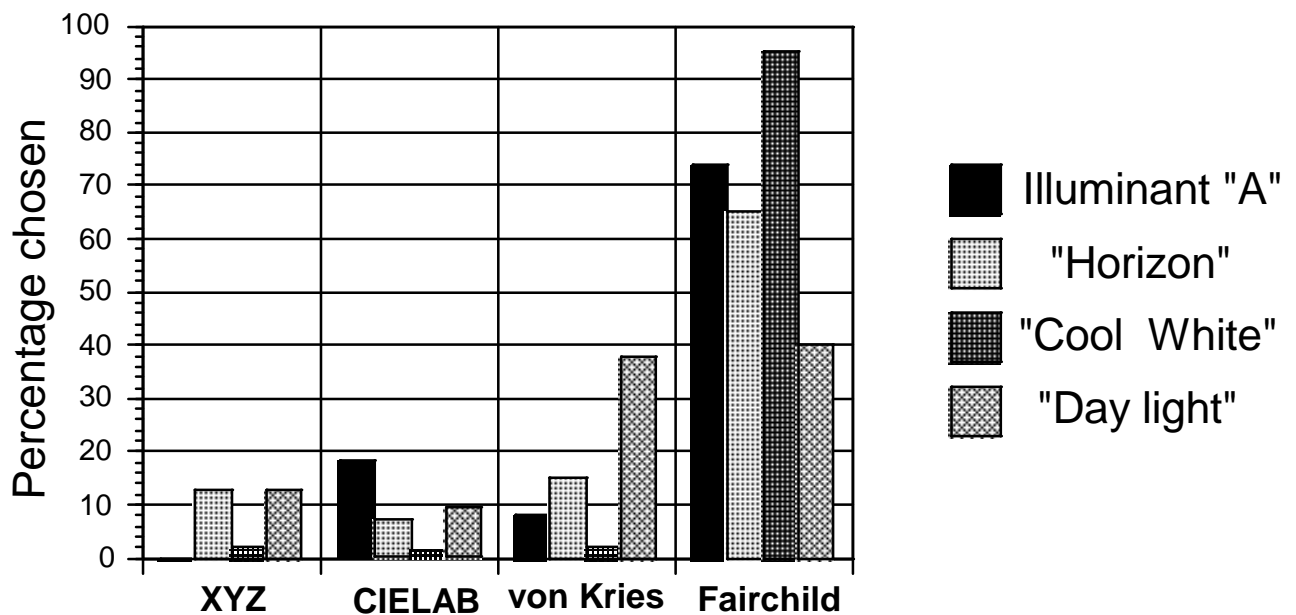


Figure 6. Psychophysical experimental arrangement to compare skin color images on a self-luminous display and a reflection print in a standard illumination booth.

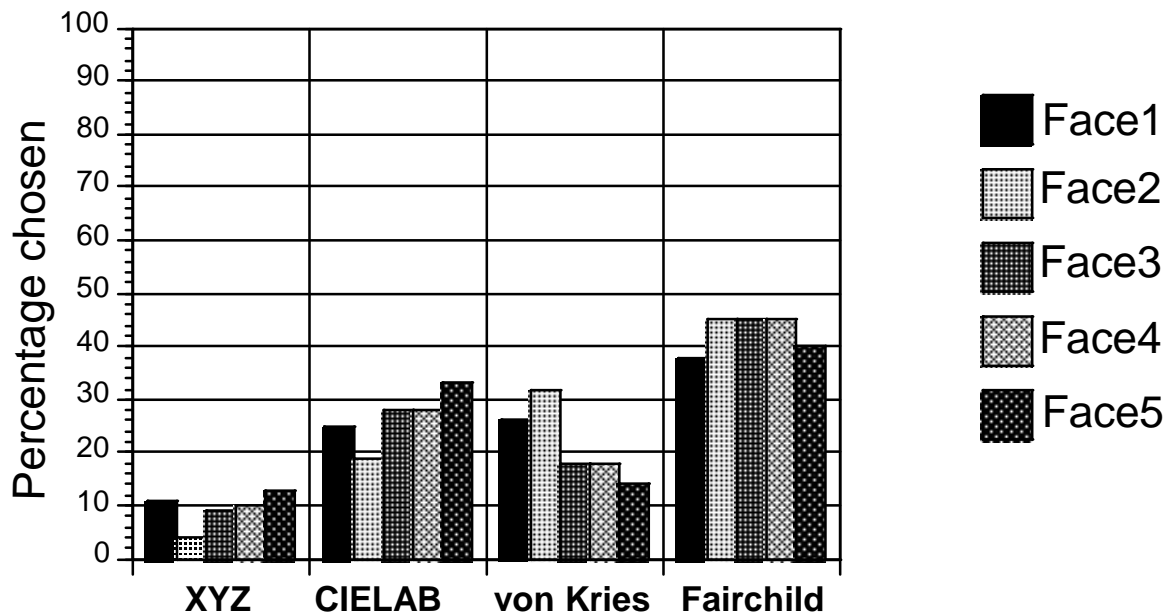


(a) Selected model in the prediction of the color appearance for each skin color patch under various illuminants.

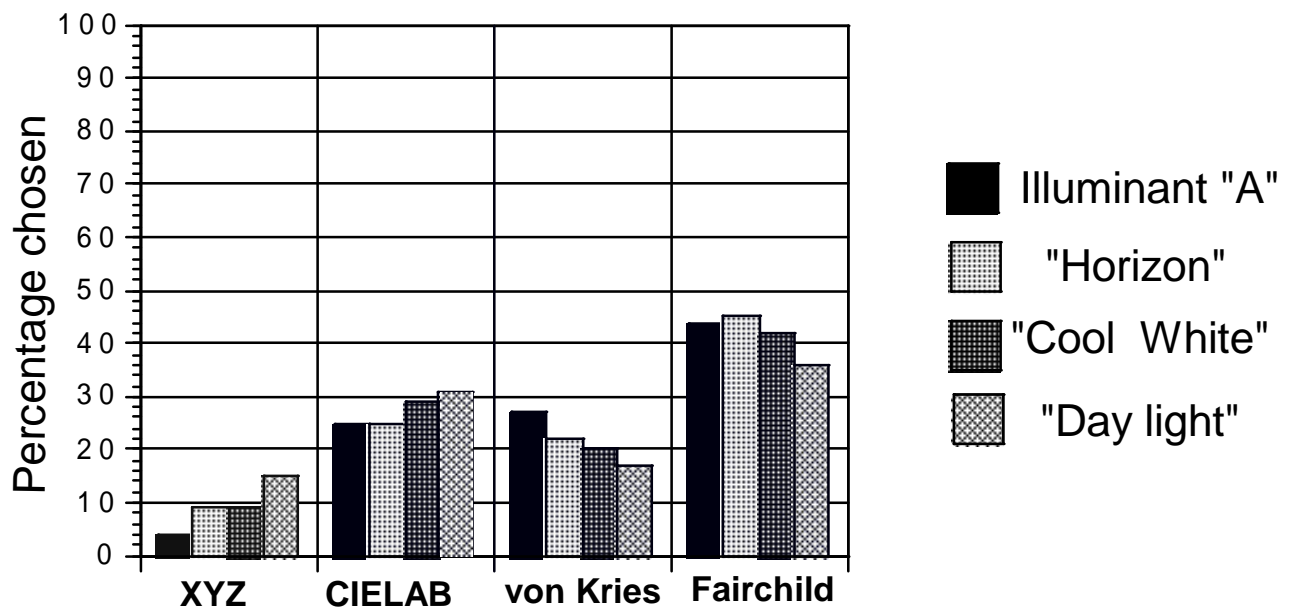


(b) Selected model in the prediction of the color appearance of six skin color patches for each considered illuminant.

Figure 7. Percentage of trials on which each reproduced skin color patch was selected on a CRT display compared with a hardcopy under various illuminants.



(a) Selected model in the prediction of the color appearance for each facial pattern image under various illuminants.



(b) Selected model in the prediction of the color appearance of five facial pattern images for each considered illuminant.

Figure 8. Percentage of trials on which each reproduced facial pattern image was selected on a CRT display compared with a hardcopy under various compared with a hardcopy under various illuminants.