

〈シンポジウム〉

『色彩から考える化粧品学～色がもつ不思議な力と効果～』

波長制御技術による肌の色を好ましく見せる LED 照明器具の開発

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**Development of LED Lighting Luminaire for Realizing Preferred Appearance
of Facial Skin Color by Spectrum Control**

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Abstract

This study aims to establish spectral characteristics in order to develop Light Emitting Diode (LED) light sources which improve the appearance of facial skin color, the important visual target for us. We conducted a subjective experiment with a novel index of the preference of facial skin color "PS" under various Correlated Color Temperature (CCT) and Duv (the distance from the blackbody curve for the color temperature) conditions. The results show the best ranges of PS and Duv differ depending on CCT. It is also found that the key spectral component for preferred appearance of facial skin color is in the range between 570 and 580 nm.

Key words: LED, skin color, lighting, Correlated Color Temperature, Duv.