

ABSTRACT

A light source for categorical color perception has major light emitting bands in ranges from 530 to 580 [nm] and from 600 to 650 [nm], with correlated color temperature of the lamp light color in a range from 1700 to 6500 [K] and with DUV (distance from perfect radiator locus on UV coordinates) in a range from 0 to 70, and allows categorical perception of at least red, green, blue, yellow and white of surface colors of an illuminated object.