

$XYZ_{w,10}=96.7256, 100.0, 81.41b^*_{D65,10}$

$a^*_{10} = 500 (a'_{10} - a'_{n,10}) Y_{10}^{1/3}$

$b^*_{10} = 500 (b'_{10} - b'_{n,10}) Y_{10}^{1/3}$

$a'_{10} = a_{20} [x_{10}/y_{10}]^{1/3}$

$b'_{10} = b_{20} [z_{10}/y_{10}]^{1/3}$

$a_{20} = [1/X_{D65,10}]^{1/3} = 0.21493$

$b_{210} = -[1/Z_{D65,10}]^{1/3} = -0.08418$

$n = D50$

CIELAB_D65; D50-120

Optimal colours (o);

6 of maximum (m) C_{AB} ;

chroma ($a^*_{D65,10}, b^*_{D65,10}$);

Name and spectral range:

R_{me} 570_770 Y_{me} 510_770

G_{me} 470_570 C_m 380_570

B_{me} 380_510 M_m 570_470

R_o 570_440 G_o 520_570

