

$XYZ_w=95.0443, 100.0, 108.89$ b^*

$a^* = 500 (a' - a'_n) Y^{1/3}$

$b^* = 500 (b' - b'_n) Y^{1/3}$

$a' = a_2 [x/y]^{1/3}$

$b' = b_2 [z/y]^{1/3}$

$a_2 = [1/X_{D65}]^{1/3} = 0.2191$

$b_2 = -[1/Z_{D65}]^{1/3} = -0.08376$

$n = D65$

CIELAB D65

Name and spectral range

R_m 565_770 Y_m 495_770

G_o 495_565 C_m 380_565

B_m 380_495 M_o 565_495

Optimal colours (o), $Y_w=100$

4 of maximum (m) C_{AB} for D65

in chroma diagram (a^*_{D65}, b^*_{D65})

