

$L^*/L_u^*$   
CIELAB

relative lightness  $L^*/L_u^*$   
normalized to the  
background lightness  $L_u^*$

$L_{CIELAB}^* = 116 (Y/Y_n)^{1/3} - 16 \quad (Y_n=100, 0,89 \leq Y) \quad [2a]$

$L_{CIELAB}^* = 65,4 (Y/Y_u)^{1/3} - 16 \quad (Y_u=18, 0,89 \leq Y) \quad [2b]$

regularity index:  $g_5^* = 99, g_9^* = 99,$  [ISO 15775]

intended output: white

equally spaced 9 steps in CIELAB  
for contrast  $C_Y = 25:1$

$L_{CIELAB,r}^* = 1, m_u = 1,02$

$L_{CIELAB,u}^* = 49, Y_u = 18$

application range

black

