

$\Delta Y / \Delta Y_u$ 

HAULAB tristimulus value difference

 $\Delta Y / \Delta Y_u$  $\Delta Y$  normalized to  $\Delta Y_u$ 

6

$$L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=37, s=134,6, n=0,31, d=49,5) \quad [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r - d = 29,5) \quad [1b]$$

$$dY = [Y_n / (n s)] (Y / Y_n)^{1-n} \quad [2c]$$

$$dY_u = [Y_n / (n s)] (Y_u / Y_n)^{1-n} = 1,4083 \quad [2d]$$

$$dY / dY_u = (Y / Y_u)^{1-n} \quad [2e]$$

4

2

0

 $m_{u90} = 0,022, f_{90} = 2, f_4 = 0$ 
 $m_u = 1,583$ 

0,1

1,0081

1,0

1,022

1,058

 $\theta = 120'$   
 $L_{aw} = 1000 \text{ cd/m}^2$ 

application range

 $Y_u = 18100$   
 $Y_u = 37$ 

log Y