

$\Delta Y / \Delta Y_u$ 

HAULAB tristimulus value difference

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

6

$$L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=30, s=163,9, n=0,31, d=63,9) \quad [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 96,32, L^*_u = r - d = 32,4) \quad [1b]$$

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

$$dY_u = [Y_n / (n s)] (Y_u / Y_n)^{1-n} = 1,1565 \quad [2d]$$

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

4

2

0

$$m_{u90} = 1,179, f_{90} = 1, f_4 = 0$$

$$m_u = 1,575$$

0,1

1,0,093

1,024

2,247

 $\varphi = 10^\circ$   
 $L_{aw} = 300 \text{ cd/m}^2$ 

application range

 $Y_u = 18$   
 $Y_u = 30$ 

log Y