

$\Delta Y / \Delta Y_u$  $\Delta Y / \Delta Y_u$ 

# HAULAB tristimulus value difference

## $\Delta Y$ normalized to $\Delta Y_u$

6

$$L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=19, s=137,2, n=0,31, d=33,1) [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 80,63, L^*_u = r-d = 47,5) \quad [1b]$$

4

 $Y_{\text{curve}}, ij=16, Y_{uij}=19, L^*_{uij}=50$  $k=99, Y_{kij}=200, L^*_{kij}=136,1, \Delta Y / \Delta Y_u = 3,05$  $k=19, Y_{kij}=120, L^*_{kij}=111,7, \Delta Y / \Delta Y_u = 1,00$  $k=1, Y_{kij}=102, L^*_{kij}=104,7, \Delta Y / \Delta Y_u = 0,20$  $k=0, Y_{kij}=101, L^*_{kij}=104,3, \Delta Y / \Delta Y_u = 0,12$ 

2

$$m_{u90,4} = 0,022, f_{90}=2, f_4=0$$

$$m_u = 1,572$$

0,1

1

0,6,20,50

1

Y<sub>u</sub>=18

100

Y<sub>u</sub>=19

2

Y

 $\log Y$ 

$\varphi=90^\circ$   
 $L_{aw}=200 \text{ cd/m}^2$   
 application range