

$\Delta Y / \Delta Y_u$

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HAULAB tristimulus value difference
 ΔY normalized to ΔY_u

$$L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=24, s=140,4, n=0,31, d=40,4) [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 82,55, L^*_u = r-d = 42,0) \quad [1b]$$

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

4

2

0

-2

-1

0

1

2

$\log Y$

$$m_{u90,4} = 1,376, f_{90}=2, f_4=0$$

$$m_u = 1,559$$

0,1

0,1

10

10

100

100

$Y_u = 18$

$Y_u = 24$

2,662

$\phi = 30^\circ$
 $L_{aw} = 300 \text{ cd/m}^2$

application
range