

$\log(Y/\Delta Y)$

CIELAB-

tristimulus value contrast

$\log(S_r)$

$S_r = (Y/\Delta Y)$

2 100

$$L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16 \quad (s=66, Y_u=18, 1 < Y \leq 100)$$

CIELAB-tristimulus value contrast

$$\begin{aligned} \log(Y/dY) &= \log[(1/3) (116/Y_u)] + (1/3) \log(Y/Y_u) \\ &= \log[(1/3) 116/(Y_u^{1/3})] + (1/3) \log(Y) \end{aligned}$$

1 10

0 1

$$L^*_u=50, Y_u=18, dY_u=0,83, Y_u/dY_u=21$$

$$\log(Y/dY)=1,33, m_u=0,33$$

application
range

