

$\log(Y/\Delta Y)$

$\log(S_r)$ $S_r = (Y/\Delta Y)$

IECsRGB-

tristimulus value contrast

2-100

$$L^*_{\text{IECsRGB}} = 100 (Y/Y_n)^{1/2,4}$$

IECsRGB–tristimulus value contrast

1-10

$$\begin{aligned}\log(Y/dY) &= \log[(1/2,4) (100/Y_n)] + (1/2,4) \log(Y/Y_n) \\ &= \log[(1/2,4) 100/(Y_n^{1/2,4})] + (1/2,4) \log(Y)\end{aligned}$$

$$L^*_u = 50, Y_u = 18, dY_u = 0,90, Y_u/dY_u = 20$$

0-1

$$\log(Y/dY) = 1,30, m_u = 0,41$$

application range

