

$$\log [(\Delta Y/Y) / (\Delta Y/Y)_u]$$

CIELABu8 relative
tistimulus value sensitivity

$$S_r/S_{ru} = (\Delta Y/Y) / (\Delta Y/Y)_u \quad Y_{nc} = Y_W \text{RGB}_{nc} = 100, 21, 72, 7$$
$$f^*_{\text{CIELABu8}} = 50(Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$
$$\log[(dY/Y)/(dY/Y)_u] = - (1/2,0) \log(Y/Y_u)$$

1-10

0-1

-1

-2

0,1

1

10

$Y_u = 18$ 100 Y

$Y_N = 3,6$

$Y_W = 90$

2

1

-1

0

Y

application
range

$$\log[(dY/Y)/(dY/Y)_u] = 0, m_u = -0,43$$

$$f^*_{u} = 50, dY_u = 4,06, dY_u/Y_u = 0,2257$$