

$(\Delta Y/Y) / (\Delta Y/Y)_u$
CIELAB & TUBJND

CIE-Y sensitivity
normalized to $(\Delta Y/Y)_u$

3

$$L^*_{TUBJND} = d \ln [1 + b(Y/Y_u)] \quad d=25,6 \quad b=6,141 \quad [2a]$$

$$L^*_{CIELAB} = 116 (Y/Y_n)^{1/3} - 16 \quad (Y_n=100, 0,89 \leq Y) \quad [2b]$$

2

1,65

1,00

0,58

black
application range

1

$L^*_{r,CIELAB}=1, m_u=-0,76$

$L^*_{u,CIELAB}=49, Y_u=18$

0

0,1

1

$Y_N=3,6 \quad Y_u=18 \quad Y_W=90$

10 100 1000

$\log Y$

ceff60-5a

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

ceff60-6a

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application range

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$L^*_{u,CIELAB}=49, Y_u=18$

0

0,1

1

$Y_N=3,6 \quad Y_u=18 \quad Y_W=90$

10 100 1000

$\log Y$

ceff60-7a

$(\Delta Y/Y) / (\Delta Y/Y)_u$
CIELAB & TUBJND

CIE-Y sensitivity
normalized to $(\Delta Y/Y)_u$

3

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1,65

1,00

0,58

black
application range

1

$L^*_{r,CIELAB}=1, m_u=-0,76$

$L^*_{u,CIELAB}=49, Y_u=18$

0

0,1

1

$Y_N=3,6 \quad Y_u=18 \quad Y_W=90$

10 100 1000

$\log Y$

ceff60-8a

ceff60-7n