

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

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

$$S_r/S_{ru} = (\Delta Y/Y) / (\Delta Y/Y)_u$$

$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=37, s=134,6, n=0,31, d=49,5) \quad [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 79,10, L^*_u = r - d = 29,5) \quad [1b]$$

6

4

2

0

Y_curve, ij=1, Yuij=37, L*uij=50

k=99, Ykij=200, L*kij=117,3, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,73$

k=37, Ykij=138, L*kij=99,2, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,99$

k=1, Ykij=102, L*kij=85,9, $(\Delta Y/Y) / (\Delta Y/Y)_u = 2,48$

k=0, Ykij=101, L*kij=85,5, $(\Delta Y/Y) / (\Delta Y/Y)_u = 3,08$

$\phi = 120^\circ$

$L_{aw} = 1000 \text{ cd/m}^2$

application
range

$m_{u90_4} = -0,000, f_{90} = 0, f_4 = 0$

$m_u = -0,688$

0,1

1

10

$Y_u = 18$
 $Y_u = 37$

0,989

0,739

0,448

log Y