

**HAULAB-Helligkeit  $L^*_{80}$  normiert für die Umgebungshelligkeit  $L^*_{80,u}$**

$\log(L^*_{80}/L^*_{80,u})$

$L^*/L^*_{80,u}$

**100**  $L^* = s(Y/Y_u)^n - d$  ( $Y_n=100, Y_u=22, s=134,6, n=0,31, d=34,6$ ) [1a]

$L^* = r(Y/Y_u)^n - d$  ( $r = s(Y_u/Y_n)^n = 79,10, L^*_u = r - d = 44,5$ ) [1b]

$L^*/L^*_u = g(Y/Y_u)^n - h$  ( $g = r/(r-d) = 1,77, h = d/(r-d) = 0,77$ ) [1c]

$\log[(L^*/L^*_u + h)/g] = n \log(Y/Y_u) = 0,31 \log(Y/22)$  [1d]

**10**  $\ln[(L^*/L^*_u + h)/g] = n \ln(10) \log(Y/Y_u) = 0,71 \log(Y/22)$  [1e]

$(L^*/L^*_u + h)/g = e^{n \ln(10) \log(Y/Y_u)} = e^{0,71 \log(Y/22)}$  [1f]

