Top left panel:

$\Delta Y/\Delta Y_u$
$\Delta Y/\Delta Y_u$

HAULAB-Normfarbwertdifferenz
ΔY normiert für ΔY_u

$L^* = s(Y/Y_n)^n - d$ ($Y_n = 100$, $Y_u = 22$, $s = 134,6$, $n = 0,31$, $d = 34,6$)[1a]
$L^* = r(Y/Y_n)^n - d$ ($r = s(Y_u/Y_n)^n = 79,10$, $L^*_u = r - d = 44,4$) [1b]
$dY = [Y_n/(n\,s)](Y/Y_n)^{1-n}$ [2c]
$dY_u = [Y_n/(n\,s)](Y_u/Y_n)^{1-n} = 1,4083$ [2d]
$dY/dY_u = (Y/Y_u)^{1-n}$ [2e]

2,811
$\varphi = 120°$
$L_{aw} = 300\,cd/m^2$
1,019
$m_{u90\_4} = 0,022$, $f_{90} = 2$, $f_4 = 0$
Anwendungs-bereich
$m_u = 1,548$
0,1 · **1·0,117** · **10** $Y_u = 22$ · **100** · Y · **log** Y
-2 · -1 · 0 · 1 · 2

hgn80–5a

Top right panel:

$\Delta Y/\Delta Y_u$
$\Delta Y/\Delta Y_u$
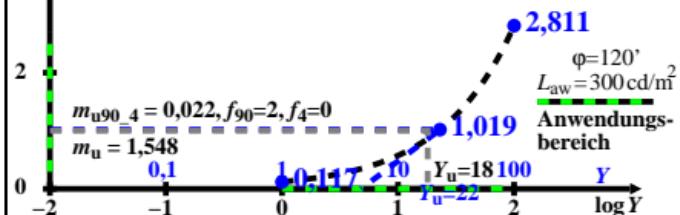
HAULAB-Normfarbwertdifferenz
ΔY normiert für ΔY_u

$L^* = s(Y/Y_n)^n - d$ ($Y_n = 100$, $Y_u = 37$, $s = 134,6$, $n = 0,31$, $d = 49,5$)[1a]
$L^* = r(Y/Y_n)^n - d$ ($r = s(Y_u/Y_n)^n = 79,10$, $L^*_u = r - d = 29,5$) [1b]
$dY = [Y_n/(n\,s)](Y/Y_n)^{1-n}$ [2c]
$dY_u = [Y_n/(n\,s)](Y_u/Y_n)^{1-n} = 1,4083$ [2d]
$dY/dY_u = (Y/Y_u)^{1-n}$ [2e]

1,958
$\varphi = 120°$
$L_{aw} = 1000\,cd/m^2$
1,022
$m_{u90\_4} = 0,022$, $f_{90} = 2$, $f_4 = 0$
Anwendungs-bereich
$m_u = 1,583$
0,1 · **1·0,08** · **10** $Y_u = 37$ · **100** · Y · **log** Y
-2 · -1 · 0 · 1 · 2

hgn80–6a

Bottom left panel:

$\Delta Y/\Delta Y_u$
$\Delta Y/\Delta Y_u$
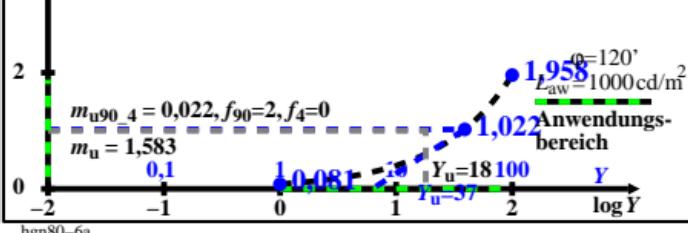
HAULAB-Normfarbwertdifferenz
ΔY normiert für ΔY_u

$L^* = s(Y/Y_n)^n - d$ ($Y_n = 100$, $Y_u = 19$, $s = 134,6$, $n = 0,31$, $d = 30,7$)[1a]
$L^* = r(Y/Y_n)^n - d$ ($r = s(Y_u/Y_n)^n = 79,10$, $L^*_u = r - d = 48,3$) [1b]
$dY = [Y_n/(n\,s)](Y/Y_n)^{1-n}$ [2c]
$dY_u = [Y_n/(n\,s)](Y_u/Y_n)^{1-n} = 1,4083$ [2d]
$dY/dY_u = (Y/Y_u)^{1-n}$ [2e]

3,121
$\varphi = 120°$
$L_{aw} = 200\,cd/m^2$
1,028
$m_{u90\_4} = 0,022$, $f_{90} = 2$, $f_4 = 0$
Anwendungs-bereich
$m_u = 1,550$
0,1 · **1·0,150** · **10** $Y_u = 19$ · **100** · Y · **log** Y
-2 · -1 · 0 · 1 · 2

hgn80–7a

hgn80–7n

Bottom right panel:

$\Delta Y/\Delta Y_u$
$\Delta Y/\Delta Y_u$
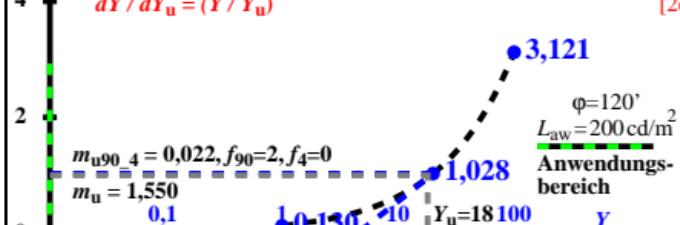
HAULAB-Normfarbwertdifferenz
ΔY normiert für ΔY_u

$L^* = s(Y/Y_n)^n - d$ ($Y_n = 100$, $Y_u = 11$, $s = 134,6$, $n = 0,31$, $d = 19,2$)[1a]
$L^* = r(Y/Y_n)^n - d$ ($r = s(Y_u/Y_n)^n = 79,10$, $L^*_u = r - d = 59,8$) [1b]
$dY = [Y_n/(n\,s)](Y/Y_n)^{1-n}$ [2c]
$dY_u = [Y_n/(n\,s)](Y_u/Y_n)^{1-n} = 1,4083$ [2d]
$dY/dY_u = (Y/Y_u)^{1-n}$ [2e]

4,383
$\varphi = 120°$
$L_{aw} = 40\,cd/m^2$
1,072
$m_{u90\_4} = 0,022$, $f_{90} = 2$, $f_4 = 0$
Anwendungs-bereich
$m_u = 1,569$
0,1 · **1·0,182** · **10** $Y_u = 11$ · **100** · Y · **log** Y
-2 · -1 · 0 · 1 · 2

hgn80–8a