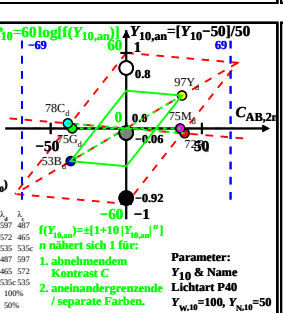
$XYZ_{W,10}$=94.81 , 100.0 , 107.33 L^*_{10}=60log[f($Y_{10,an}$)] $Y_{10,an}$=[Y_{10}−50]/50

$A_{2,10}$ = 2,5 ($a_{2,10}$ − $a_{2,n10}$) Y_{10}
$B_{2,10}$ = 2,5 B_n ($b_{2,10}$ − $b_{2,n10}$) Y_{10}
$a_{2,10}$ = a_{20} [(x_{10} − x_n) / y_{10}]
$b_{2,10}$ = b_{20} [z_{10} / y_{10}]
a_{20} = 1, b_{20} = −0,4
x_n = 0,110, B_n = 0,800
$C_{AB,2,10}$=[$A_{2,10}^2$+$B_{2,10}^2$]$^{1/2}$
6 *Ostwald*-Farben (o)
von maximalem (m) $C_{AB,10}$
linearen Farbenraum ($C_{AB,2,10}$, Y_{10})
Lichtart D65, $Y_{W,10}$=100, $Y_{N,10}$=50

Name	Bereich	$X_{A,10}$	$Y_{A,10}$	$Z_{A,10}$	$x_{A,10}$	$y_{A,10}$	λ_d	λ_c
R_d	561..775	77.35	69.58	53.77	0.3854	0.3466	593	482
Y_d	487..775	85.93	95.77	57.07	0.3598	0.4011	566	461
G_d	487..561	56.07	76.29	57.07	0.296	0.4027	529	529c
C_d	380..561	65.0	80.56	107.38	0.2569	0.3185	482	593
B_d	380..487	56.42	54.37	104.09	0.2625	0.253	461	566
M_d	561..487	86.28	73.85	104.09	0.3265	0.2795	529c	529
W_d	380..775	94.81	100.0	107.33	0.3137	0.3309	100%	
N_d	380..775	47.4	50.0	53.66	0.3137	0.3309	50%	
Z_d	380..775	17.06	18.0	19.32	0.3137	0.3309	18%	



f($Y_{10,an}$)=±[1+10 |$Y_{10,an}$|^n]
n nähert sich 1 für:
1. abnehmendem Kontrast *C*
2. aneinandergrenzende / separate Farben.

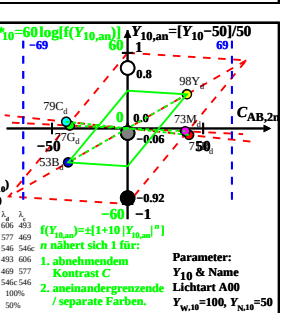
Parameter:
Y_{10} & Name
Lichtart D65
$Y_{W,10}$=100, $Y_{N,10}$=50

BGQ90−1A

$XYZ_{W,10}$=96.72 , 99.99 , 81.41 L^*_{10}=60log[f($Y_{10,an}$)] $Y_{10,an}$=[Y_{10}−50]/50

$A_{2,10}$ = 2,5 ($a_{2,10}$ − $a_{2,n10}$) Y_{10}
$B_{2,10}$ = 2,5 B_n ($b_{2,10}$ − $b_{2,n10}$) Y_{10}
$a_{2,10}$ = a_{20} [(x_{10} − x_n) / y_{10}]
$b_{2,10}$ = b_{20} [z_{10} / y_{10}]
a_{20} = 1, b_{20} = −0,4
x_n = 0,110, B_n = 1,000
$C_{AB,2,10}$=[$A_{2,10}^2$+$B_{2,10}^2$]$^{1/2}$
6 *Ostwald*-Farben (o)
von maximalem (m) $C_{AB,10}$
linearen Farbenraum ($C_{AB,2,10}$, Y_{10})
Lichtart D50, $Y_{W,10}$=100, $Y_{N,10}$=50

Name	Bereich	$X_{A,10}$	$Y_{A,10}$	$Z_{A,10}$	$x_{A,10}$	$y_{A,10}$	λ_d	λ_c
R_d	565..775	81.33	71.08	40.78	0.4209	0.3679	594	484
Y_d	490..775	90.15	96.38	43.46	0.3919	0.419	568	463
G_d	490..565	57.28	75.39	43.46	0.3251	0.428	531	531c
C_d	380..565	63.89	79.06	81.45	0.2847	0.3523	484	594
B_d	380..490	55.07	53.76	78.77	0.2935	0.2865	463	568
M_d	565..490	87.95	74.75	78.77	0.3642	0.3095	531c	531
W_d	380..775	96.72	99.99	81.41	0.3477	0.3595	100%	
N_d	380..775	48.36	49.99	40.7	0.3477	0.3595	50%	
Z_d	380..775	17.41	17.99	14.65	0.3477	0.3595	18%	



f($Y_{10,an}$)=±[1+10 |$Y_{10,an}$|^n]
n nähert sich 1 für:
1. abnehmendem Kontrast *C*
2. aneinandergrenzende / separate Farben.

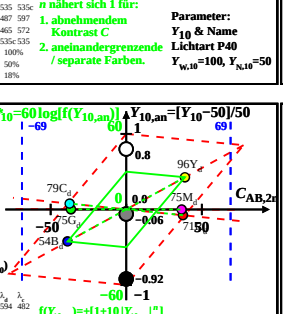
Parameter:
Y_{10} & Name
Lichtart D50
$Y_{W,10}$=100, $Y_{N,10}$=50

BGQ90−2A

$XYZ_{W,10}$=101.75 , 100.0 , 64.44 L^*_{10}=60log[f($Y_{10,an}$)] $Y_{10,an}$=[Y_{10}−50]/50

$A_{2,10}$ = 2,5 ($a_{2,10}$ − $a_{2,n10}$) Y_{10}
$B_{2,10}$ = 2,5 B_n ($b_{2,10}$ − $b_{2,n10}$) Y_{10}
$a_{2,10}$ = a_{20} [(x_{10} − x_n) / y_{10}]
$b_{2,10}$ = b_{20} [z_{10} / y_{10}]
a_{20} = 1, b_{20} = −0,4
x_n = 0,110, B_n = 1,300
$C_{AB,2,10}$=[$A_{2,10}^2$+$B_{2,10}^2$]$^{1/2}$
6 *Ostwald*-Farben (o)
von maximalem (m) $C_{AB,10}$
linearen Farbenraum ($C_{AB,2,10}$, Y_{10})
Lichtart A40, $Y_{W,10}$=100, $Y_{N,10}$=50

Name	Bereich	$X_{A,10}$	$Y_{A,10}$	$Z_{A,10}$	$x_{A,10}$	$y_{A,10}$	λ_d	λ_c
R_d	569..775	86.63	71.77	32.28	0.4543	0.3763	597	487
Y_d	492..775	96.57	96.76	34.15	0.4244	0.4253	572	465
G_d	492..569	60.91	75.09	34.15	0.3579	0.4413	535	535c
C_d	380..569	66.14	78.37	64.47	0.3164	0.375	487	597
B_d	380..492	56.2	53.38	62.6	0.3264	0.3099	465	572
M_d	569..492	91.86	75.05	62.6	0.4002	0.3269	535c	535
W_d	380..775	101.75	100.0	64.44	0.3822	0.3756	100%	
N_d	380..775	50.87	50.0	32.22	0.3822	0.3756	50%	
Z_d	380..775	18.31	18.0	11.6	0.3822	0.3756	18%	



f($Y_{10,an}$)=±[1+10 |$Y_{10,an}$|^n]
n nähert sich 1 für:
1. abnehmendem Kontrast *C*
2. aneinandergrenzende / separate Farben.

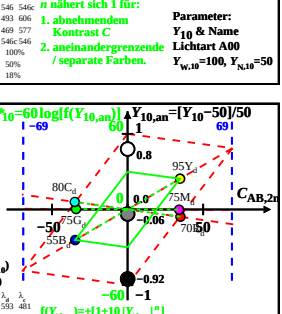
Parameter:
Y_{10} & Name
Lichtart P40
$Y_{W,10}$=100, $Y_{N,10}$=50

BGQ90−3A

$XYZ_{W,10}$=111.15 , 99.99 , 35.19 L^*_{10}=60log[f($Y_{10,an}$)] $Y_{10,an}$=[Y_{10}−50]/50

$A_{2,10}$ = 2,5 ($a_{2,10}$ − $a_{2,n10}$) Y_{10}
$B_{2,10}$ = 2,5 B_n ($b_{2,10}$ − $b_{2,n10}$) Y_{10}
$a_{2,10}$ = a_{20} [(x_{10} − x_n) / y_{10}]
$b_{2,10}$ = b_{20} [z_{10} / y_{10}]
a_{20} = 1, b_{20} = −0,4
x_n = 0,110, B_n = 2,500
$C_{AB,2,10}$=[$A_{2,10}^2$+$B_{2,10}^2$]$^{1/2}$
6 *Ostwald*-Farben (o)
von maximalem (m) $C_{AB,10}$
linearen Farbenraum ($C_{AB,2,10}$, Y_{10})
Lichtart A00, $Y_{W,10}$=100, $Y_{N,10}$=50

Name	Bereich	$X_{A,10}$	$Y_{A,10}$	$Z_{A,10}$	$x_{A,10}$	$y_{A,10}$	λ_d	λ_c
R_d	575..775	94.04	70.71	17.63	0.5156	0.3877	606	493
Y_d	498..775	108.49	97.58	18.73	0.4825	0.434	577	469
G_d	498..575	70.13	76.97	18.73	0.4229	0.4641	546	546c
C_d	380..575	72.84	79.43	35.21	0.3885	0.4236	493	606
B_d	380..498	58.39	52.56	34.11	0.4025	0.3623	469	577
M_d	575..498	96.75	73.17	34.11	0.4741	0.3586	546c	546
W_d	380..775	111.15	99.99	35.19	0.4511	0.4059	100%	
N_d	380..775	55.57	49.99	17.59	0.4511	0.4059	50%	
Z_d	380..775	20.0	18.0	6.33	0.4511	0.4059	18%	



f($Y_{10,an}$)=±[1+10 |$Y_{10,an}$|^n]
n nähert sich 1 für:
1. abnehmendem Kontrast *C*
2. aneinandergrenzende / separate Farben.

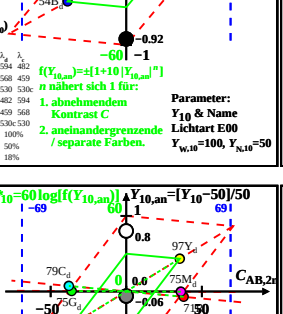
Parameter:
Y_{10} & Name
Lichtart A00
$Y_{W,10}$=100, $Y_{N,10}$=50

BGQ90−4A

$XYZ_{W,10}$=99.99 , 99.99 , 100.0 L^*_{10}=60log[f($Y_{10,an}$)] $Y_{10,an}$=[Y_{10}−50]/50

$A_{2,10}$ = 2,5 ($a_{2,10}$ − $a_{2,n10}$) Y_{10}
$B_{2,10}$ = 2,5 B_n ($b_{2,10}$ − $b_{2,n10}$) Y_{10}
$a_{2,10}$ = a_{20} [(x_{10} − x_n) / y_{10}]
$b_{2,10}$ = b_{20} [z_{10} / y_{10}]
a_{20} = 1, b_{20} = −0,4
x_n = 0,110, B_n = 0,900
$C_{AB,2,10}$=[$A_{2,10}^2$+$B_{2,10}^2$]$^{1/2}$
6 *Ostwald*-Farben (o)
von maximalem (m) $C_{AB,10}$
linearen Farbenraum ($C_{AB,2,10}$, Y_{10})
Lichtart E00, $Y_{W,10}$=100, $Y_{N,10}$=50

Name	Bereich	$X_{A,10}$	$Y_{A,10}$	$Z_{A,10}$	$x_{A,10}$	$y_{A,10}$	λ_d	λ_c
R_d	564..775	83.13	71.23	50.1	0.4065	0.3484	594	482
Y_d	487..775	91.62	96.31	53.24	0.3799	0.3993	568	459
G_d	487..564	58.59	75.17	53.24	0.3133	0.402	530	530c
C_d	380..564	67.0	78.91	100.05	0.2724	0.3208	482	594
B_d	380..487	58.5	53.83	96.92	0.2795	0.2572	459	568
M_d	564..487	91.54	74.97	96.92	0.3474	0.2845	530c	530
W_d	380..775	99.99	99.99	100.0	0.3333	0.3333	100%	
N_d	380..775	49.99	49.99	50.0	0.3333	0.3333	50%	
Z_d	380..775	17.99	17.99	18.0	0.3333	0.3333	18%	



f($Y_{10,an}$)=±[1+10 |$Y_{10,an}$|^n]
n nähert sich 1 für:
1. abnehmendem Kontrast *C*
2. aneinandergrenzende / separate Farben.

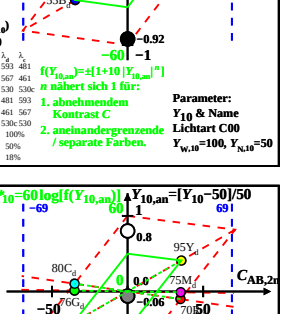
Parameter:
Y_{10} & Name
Lichtart E00
$Y_{W,10}$=100, $Y_{N,10}$=50

BGQ90−5A

$XYZ_{W,10}$=97.28 , 99.99 , 116.14 L^*_{10}=60log[f($Y_{10,an}$)] $Y_{10,an}$=[Y_{10}−50]/50

$A_{2,10}$ = 2,5 ($a_{2,10}$ − $a_{2,n10}$) Y_{10}
$B_{2,10}$ = 2,5 B_n ($b_{2,10}$ − $b_{2,n10}$) Y_{10}
$a_{2,10}$ = a_{20} [(x_{10} − x_n) / y_{10}]
$b_{2,10}$ = b_{20} [z_{10} / y_{10}]
a_{20} = 1, b_{20} = −0,4
x_n = 0,110, B_n = 0,700
$C_{AB,2,10}$=[$A_{2,10}^2$+$B_{2,10}^2$]$^{1/2}$
6 *Ostwald*-Farben (o)
von maximalem (m) $C_{AB,10}$
linearen Farbenraum ($C_{AB,2,10}$, Y_{10})
Lichtart C00, $Y_{W,10}$=100, $Y_{N,10}$=50

Name	Bereich	$X_{A,10}$	$Y_{A,10}$	$Z_{A,10}$	$x_{A,10}$	$y_{A,10}$	λ_d	λ_c
R_d	561..775	79.25	70.14	58.18	0.3817	0.3379	593	481
Y_d	486..775	87.59	95.32	61.25	0.3587	0.3903	567	461
G_d	486..561	57.08	75.28	61.25	0.2948	0.3888	530	530c
C_d	380..561	66.82	80.0	116.2	0.254	0.3041	481	593
B_d	380..486	58.48	54.82	113.13	0.2582	0.2421	461	567
M_d	561..486	88.99	74.86	113.13	0.3212	0.2702	530c	530
W_d	380..775	97.28	99.99	116.14	0.3103	0.319	100%	
N_d	380..775	48.64	49.99	58.07	0.3103	0.319	50%	
Z_d	380..775	17.51	18.0	20.9	0.3103	0.319	18%	



f($Y_{10,an}$)=±[1+10 |$Y_{10,an}$|^n]
n nähert sich 1 für:
1. abnehmendem Kontrast *C*
2. aneinandergrenzende / separate Farben.

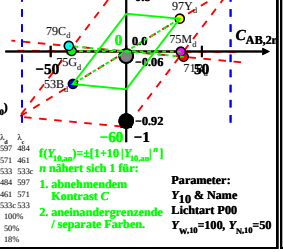
Parameter:
Y_{10} & Name
Lichtart C00
$Y_{W,10}$=100, $Y_{N,10}$=50

BGQ90−6A

$XYZ_{W,10}$=102.37 , 99.99 , 81.25 L^*_{10}=60log[f($Y_{10,an}$)] $Y_{10,an}$=[Y_{10}−50]/50

$A_{2,10}$ = 2,5 ($a_{2,10}$ − $a_{2,n10}$) Y_{10}
$B_{2,10}$ = 2,5 B_n ($b_{2,10}$ − $b_{2,n10}$) Y_{10}
$a_{2,10}$ = a_{20} [(x_{10} − x_n) / y_{10}]
$b_{2,10}$ = b_{20} [z_{10} / y_{10}]
a_{20} = 1, b_{20} = −0,4
x_n = 0,110, B_n = 1,000
$C_{AB,2,10}$=[$A_{2,10}^2$+$B_{2,10}^2$]$^{1/2}$
6 *Ostwald*-Farben (o)
von maximalem (m) $C_{AB,10}$
linearen Farbenraum ($C_{AB,2,10}$, Y_{10})
Lichtart P00, $Y_{W,10}$=100, $Y_{N,10}$=50

Name	Bereich	$X_{A,10}$	$Y_{A,10}$	$Z_{A,10}$	$x_{A,10}$	$y_{A,10}$	λ_d	λ_c
R_d	567..775	86.21	71.48	40.7	0.4345	0.3662	597	484
Y_d	489..775	95.67	96.67	43.24	0.4061	0.4103	571	461
G_d	489..567	60.75	75.28	43.24	0.3388	0.4199	533	533c
C_d	380..567	67.49	78.66	81.29	0.2967	0.3458	484	597
B_d	380..489	58.03	53.47	78.75	0.305	0.281	461	571
M_d	567..489	92.96	74.86	78.75	0.377	0.3035	533c	533
W_d	380..775	102.37	99.99	81.25	0.3609	0.3525	100%	
N_d	380..775	51.18	49.99	40.62	0.3609	0.3525	50%	
Z_d	380..775	18.42	18.0	14.62	0.3609	0.3525	18%	



f($Y_{10,an}$)=±[1+10 |$Y_{10,an}$|^n]
n nähert sich 1 für:
1. abnehmendem Kontrast *C*
2. aneinandergrenzende / separate Farben.

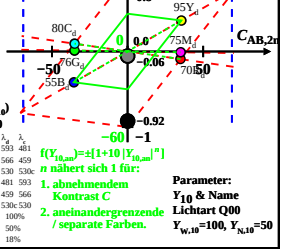
Parameter:
Y_{10} & Name
Lichtart P00
$Y_{W,10}$=100, $Y_{N,10}$=50

BGQ90−7A

$XYZ_{W,10}$=97.65 , 100.0 , 118.42 L^*_{10}=60log[f($Y_{10,an}$)] $Y_{10,an}$=[Y_{10}−50]/50

$A_{2,10}$ = 2,5 ($a_{2,10}$ − $a_{2,n10}$) Y_{10}
$B_{2,10}$ = 2,5 B_n ($b_{2,10}$ − $b_{2,n10}$) Y_{10}
$a_{2,10}$ = a_{20} [(x_{10} − x_n) / y_{10}]
$b_{2,10}$ = b_{20} [z_{10} / y_{10}]
a_{20} = 1, b_{20} = −0,4
x_n = 0,110, B_n = 0,700
$C_{AB,2,10}$=[$A_{2,10}^2$+$B_{2,10}^2$]$^{1/2}$
6 *Ostwald*-Farben (o)
von maximalem (m) $C_{AB,10}$
linearen Farbenraum ($C_{AB,2,10}$, Y_{10})
Lichtart Q00, $Y_{W,10}$=100, $Y_{N,10}$=50

Name	Bereich	$X_{A,10}$	$Y_{A,10}$	$Z_{A,10}$	$x_{A,10}$	$y_{A,10}$	λ_d	λ_c
R_d	561..775	79.32	69.97	59.33	0.3802	0.3354	593	481
Y_d	486..775	87.6	95.49	62.32	0.3569	0.3891	566	459
G_d	486..561	57.2	75.62	62.32	0.2931	0.3875	530	530c
C_d	380..561	67.29	80.17	118.48	0.253	0.3014	481	593
B_d	380..486	59.01	54.65	115.49	0.2575	0.2384	459	566
M_d	561..486	89.41	74.52	115.49	0.3199	0.2667	530c	530
W_d	380..775	97.65	100.0	118.42	0.3089	0.3163	100%	
N_d	380..775	48.82	50.0	59.21	0.3089	0.3163	50%	
Z_d	380..775	17.57	18.0	21.31	0.3089	0.3163	18%	



f($Y_{10,an}$)=±[1+10 |$Y_{10,an}$|^n]
n nähert sich 1 für:
1. abnehmendem Kontrast *C*
2. aneinandergrenzende / separate Farben.

Parameter:
Y_{10} & Name
Lichtart Q00
$Y_{W,10}$=100, $Y_{N,10}$=50

BGQ90−8A