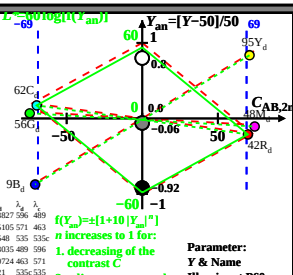
XYZ_W=97.06 , 99.99 , 104.57
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /y]$
$b_2 = b_{20}\ [\ z\ /y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 0{,}800$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2r}$ *Y*)
Illumin. P60, Y_W=100, Y_N=4



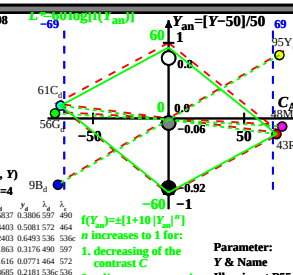
Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_n	λ_n
R_n	568,775	64.16	42.46	4.33	0.5781	0.3827	596	489
Y_n	494,775	80.43	94.8	10.44	0.4331	0.5105	571	463
G_n	494,568	20.25	56.43	10.39	0.2325	0.6481	535	535c
C_n	380,568	36.89	61.63	104.52	0.1816	0.3035	489	596
B_n	380,494	20.61	9.3	98.42	0.1606	0.0724	463	571
M_n	568,494	80.8	47.66	98.47	0.356	0.21	535c	535
W_n	380,775	97.06	99.99	104.57	0.3218	0.3315	100%	
N_n	380,775	3.88	3.99	4.18	0.3218	0.3315	4%	
Z_n	380,775	17.47	17.99	18.82	0.3218	0.3315	18%	

$f(Y_{an}) = \pm[1 + 10\,|Y_{an}|^n]$
n increases to 1 for:
1. decreasing of the contrast *C*
2. adjacent compared to separate colours.

Parameter:
Y & Name
Illuminant P60
Y_W=100, Y_N=4

BEP11–1A

XYZ_W=97.45 , 100.0 , 95.98
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /y]$
$b_2 = b_{20}\ [\ z\ /y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 0{,}900$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2r}$ *Y*)
Illumin. P55, Y_W=100, Y_N=4



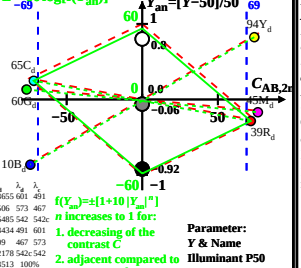
Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_n	λ_n
R_n	569,775	65.4	42.64	3.98	0.5837	0.3806	597	490
Y_n	494,775	82.28	94.94	9.62	0.4403	0.5081	572	464
G_n	494,569	20.87	56.4	9.57	0.2403	0.6493	536	536c
C_n	380,569	36.05	61.46	95.94	0.1863	0.3176	490	597
B_n	380,494	19.17	9.15	90.3	0.1616	0.0771	464	572
M_n	569,494	80.57	47.69	90.35	0.3685	0.2181	536c	536
W_n	380,775	97.45	100.0	95.98	0.3321	0.3407	100%	
N_n	380,775	3.89	4.0	3.83	0.3321	0.3407	4%	
Z_n	380,775	17.54	18.0	17.27	0.3321	0.3407	18%	

$f(Y_{an}) = \pm[1 + 10\,|Y_{an}|^n]$
n increases to 1 for:
1. decreasing of the contrast *C*
2. adjacent compared to separate colours.

Parameter:
Y & Name
Illuminant P55
Y_W=100, Y_N=4

BEP11–2A

XYZ_W=98.12 , 100.0 , 86.5
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /y]$
$b_2 = b_{20}\ [\ z\ /y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2r}$ *Y*)
Illumin. P50, Y_W=100, Y_N=4



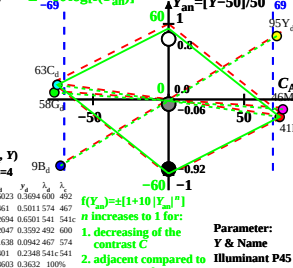
Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_n	λ_n
R_n	570,775	63.64	38.72	3.58	0.6006	0.3655	601	491
Y_n	495,775	84.5	94.18	7.42	0.454	0.506	573	467
G_n	495,570	24.88	59.55	7.38	0.2709	0.6485	542	542c
C_n	380,570	38.5	65.37	86.46	0.2023	0.3434	491	601
B_n	380,495	17.64	9.92	82.62	0.1601	0.09	467	573
M_n	570,495	77.26	44.54	82.66	0.3778	0.2178	542c	542
W_n	380,775	98.12	100.0	86.5	0.3447	0.3513	100%	
N_n	380,775	3.92	4.0	3.46	0.3447	0.3513	4%	
Z_n	380,775	17.66	18.0	15.57	0.3447	0.3513	18%	

$f(Y_{an}) = \pm[1 + 10\,|Y_{an}|^n]$
n increases to 1 for:
1. decreasing of the contrast *C*
2. adjacent compared to separate colours.

Parameter:
Y & Name
Illuminant P50
Y_W=100, Y_N=4

BEP11–3A

XYZ_W=99.2 , 100.0 , 76.07
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /y]$
$b_2 = b_{20}\ [\ z\ /y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}100$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2r}$ *Y*)
Illumin. P45, Y_W=100, Y_N=4



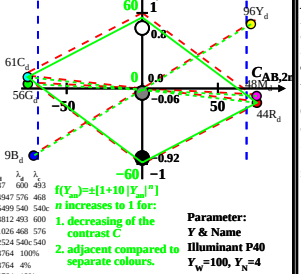
Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_n	λ_n
R_n	572,775	67.55	41.43	3.16	0.6023	0.3694	600	492
Y_n	497,775	87.36	94.95	7.15	0.461	0.5011	574	467
G_n	497,572	23.87	57.61	7.11	0.2694	0.6501	541	541c
C_n	380,572	35.72	62.66	76.03	0.2047	0.3592	492	600
B_n	380,497	15.9	9.15	72.03	0.1638	0.0942	467	574
M_n	572,497	79.39	46.49	72.07	0.4248	0.2348	541c	541
W_n	380,775	99.2	100.0	76.07	0.3603	0.3632	100%	
N_n	380,775	3.96	4.0	3.04	0.3603	0.3632	4%	
Z_n	380,775	17.85	18.0	13.69	0.3603	0.3632	18%	

$f(Y_{an}) = \pm[1 + 10\,|Y_{an}|^n]$
n increases to 1 for:
1. decreasing of the contrast *C*
2. adjacent compared to separate colours.

Parameter:
Y & Name
Illuminant P45
Y_W=100, Y_N=4

BEP11–4A

XYZ_W=100.93 , 100.0 , 64.68
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /y]$
$b_2 = b_{20}\ [\ z\ /y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}300$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2r}$ *Y*)
Illumin. P40, Y_W=100, Y_N=4



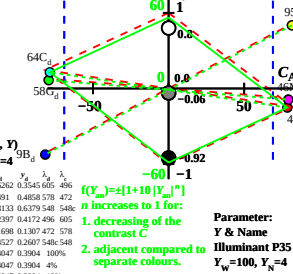
Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_n	λ_n
R_n	573,775	71.45	43.55	2.69	0.607	0.37	600	493
Y_n	498,775	91.01	95.54	6.54	0.4713	0.4947	576	468
G_n	498,573	23.69	56.08	6.5	0.2746	0.6489	540	540c
C_n	380,573	33.61	60.54	64.64	0.2116	0.3812	493	600
B_n	380,498	14.05	8.56	60.79	0.1685	0.1026	468	576
M_n	573,498	81.37	48.01	60.84	0.4277	0.2524	540c	540
W_n	380,775	100.93	100.0	64.68	0.3799	0.3764	100%	
N_n	380,775	4.03	4.0	2.58	0.3799	0.3764	4%	
Z_n	380,775	18.16	18.0	11.64	0.3799	0.3764	18%	

$f(Y_{an}) = \pm[1 + 10\,|Y_{an}|^n]$
n increases to 1 for:
1. decreasing of the contrast *C*
2. adjacent compared to separate colours.

Parameter:
Y & Name
Illuminant P40
Y_W=100, Y_N=4

BEP11–5A

XYZ_W=103.66 , 99.99 , 52.43
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /y]$
$b_2 = b_{20}\ [\ z\ /y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}800$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2r}$ *Y*)
Illumin. P35, Y_W=100, Y_N=4



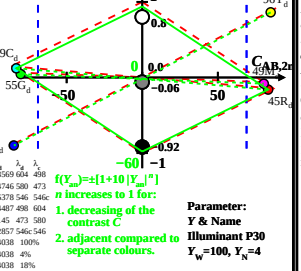
Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_n	λ_n
R_n	575,775	71.28	40.36	2.18	0.6262	0.3545	605	496
Y_n	500,775	95.76	94.74	4.5	0.491	0.4858	578	472
G_n	500,575	28.72	58.47	4.46	0.3133	0.6379	548	548c
C_n	380,575	36.63	63.73	52.4	0.2397	0.4172	496	605
B_n	380,500	12.15	9.35	50.08	0.1698	0.1307	472	578
M_n	575,500	79.19	45.62	50.11	0.4527	0.2607	548c	548
W_n	380,775	103.66	99.99	52.43	0.4047	0.3904	100%	
N_n	380,775	4.14	3.99	2.09	0.4047	0.3904	4%	
Z_n	380,775	18.66	18.0	9.43	0.4047	0.3904	18%	

$f(Y_{an}) = \pm[1 + 10\,|Y_{an}|^n]$
n increases to 1 for:
1. decreasing of the contrast *C*
2. adjacent compared to separate colours.

Parameter:
Y & Name
Illuminant P35
Y_W=100, Y_N=4

BEP11–6A

XYZ_W=108.04 , 100.0 , 39.55
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /y]$
$b_2 = b_{20}\ [\ z\ /y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 2{,}500$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2r}$ *Y*)
Illumin. P30, Y_W=100, Y_N=4



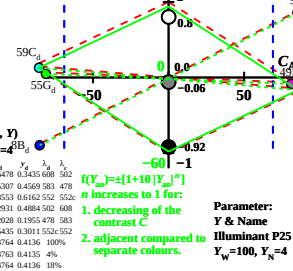
Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_n	λ_n
R_n	578,775	79.39	45.0	1.66	0.6298	0.3569	604	498
Y_n	503,775	102.24	96.07	4.08	0.5051	0.4746	580	473
G_n	503,578	27.28	55.17	4.04	0.3154	0.6378	546	546c
C_n	380,578	33.08	59.1	39.51	0.2512	0.4487	498	604
B_n	380,503	10.22	8.02	37.09	0.1847	0.145	473	580
M_n	578,503	85.18	48.92	37.13	0.4974	0.2857	546c	546
W_n	380,775	108.04	100.0	39.55	0.4363	0.4038	100%	
N_n	380,775	4.32	4.0	1.58	0.4363	0.4038	4%	
Z_n	380,775	19.44	18.0	7.11	0.4363	0.4038	18%	

$f(Y_{an}) = \pm[1 + 10\,|Y_{an}|^n]$
n increases to 1 for:
1. decreasing of the contrast *C*
2. adjacent compared to separate colours.

Parameter:
Y & Name
Illuminant P30
Y_W=100, Y_N=4

BEP11–7A

XYZ_W=115.18 , 100.0 , 26.59
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /y]$
$b_2 = b_{20}\ [\ z\ /y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 3{,}700$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2r}$ *Y*)
Illumin. P25, Y_W=100, Y_N=4



Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_n	λ_n
R_n	582,775	84.24	44.67	1.12	0.6478	0.3435	608	502
Y_n	506,775	111.44	95.94	2.58	0.5307	0.4569	583	478
G_n	506,582	31.92	55.36	2.55	0.3553	0.6162	552	552c
C_n	380,582	35.66	59.42	26.56	0.2931	0.4884	502	608
B_n	380,506	8.46	8.16	25.1	0.2028	0.1955	478	583
M_n	582,506	87.98	48.73	25.13	0.5435	0.3011	552c	552
W_n	380,775	115.18	100.0	26.59	0.4764	0.4136	100%	
N_n	380,775	4.6	4.0	1.06	0.4763	0.4135	4%	
Z_n	380,775	20.73	18.0	4.78	0.4764	0.4136	18%	

$f(Y_{an}) = \pm[1 + 10\,|Y_{an}|^n]$
n increases to 1 for:
1. decreasing of the contrast *C*
2. adjacent compared to separate colours.

Parameter:
Y & Name
Illuminant P25
Y_W=100, Y_N=4

BEP11–8A