XYZ$_W$=97.06 , 99.99 , 104.57
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /\ y]$
$b_2 = b_{20}\ [\ z\ /\ y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 0{,}800$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2} = 0{,}8$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2}$, *Y*)
Illumin. P60, Y_W=100, Y_N=0

Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_d	λ_c
R_o	568_775	62.81	40.12	0.26	0.6086	0.3888	596	489
Y_o	494_775	79.75	94.58	6.61	0.4407	0.5227	571	463
G_o	494_568	17.12	54.66	6.56	0.2186	0.6976	535	535c
C_o	380_568	34.44	60.07	104.52	0.1173	0.3018	489	496
B_o	380_494	17.51	5.61	98.17	0.1443	0.0462	463	571
M_o	568_494	80.13	45.53	98.22	0.3579	0.2033	535c	535
W_o	380_775	97.06	99.99	104.57	0.3218	0.3315	100%	
N_o	380_775	0.09	0.09	0.1	0.3216	0.3314	0%	
Z_o	380_775	17.47	17.99	18.82	0.3218	0.3315	18%	

$L^* = 80\log(f(Y_{an}))$ $Y_{an}=[Y-50]/50$
$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
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=0

BEP01-1A

XYZ$_W$=97.45 , 100.0 , 95.98
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /\ y]$
$b_2 = b_{20}\ [\ z\ /\ y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 0{,}900$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2} = 0{,}9$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2}$, *Y*)
Illumin. P55, Y_W=100, Y_N=0

Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_d	λ_c
R_o	569_775	64.09	40.3	0.24	0.6124	0.3851	597	490
Y_o	494_775	81.66	94.73	6.1	0.4474	0.519	572	464
G_o	494_569	17.76	54.62	6.05	0.2264	0.6963	536	536c
C_o	380_569	33.55	59.89	95.93	0.1771	0.3162	490	497
B_o	380_494	15.98	5.46	90.06	0.1433	0.0489	464	572
M_o	569_494	79.88	45.57	90.11	0.3705	0.2113	536c	536
W_o	380_775	97.45	100.0	95.98	0.3321	0.3407	100%	
N_o	380_775	0.09	0.1	0.09	0.332	0.3406	0%	
Z_o	380_775	17.54	18.0	17.27	0.3321	0.3407	18%	

$L^* = 80\log(f(Y_{an}))$ $Y_{an}=[Y-50]/50$
$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
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=0

BEP01-2A

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

Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_d	λ_c
R_o	570_775	62.23	36.23	0.21	0.6306	0.3671	601	491
Y_o	495_775	83.94	93.94	4.2	0.4609	0.5159	573	467
G_o	495_570	21.9	57.9	4.16	0.2608	0.6895	542	542c
C_o	380_570	36.08	63.96	86.46	0.1934	0.3429	491	601
B_o	380_495	14.37	6.25	82.46	0.1394	0.0607	467	573
M_o	570_495	76.41	42.29	82.5	0.3797	0.2101	542c	542
W_o	380_775	98.12	100.0	86.5	0.3447	0.3513	100%	
N_o	380_775	0.09	0.1	0.08	0.3446	0.3512	0%	
Z_o	380_775	17.66	18.0	15.57	0.3447	0.3513	18%	

$L^* = 80\log(f(Y_{an}))$ $Y_{an}=[Y-50]/50$
$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
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=0

BEP01-3A

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

Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_d	λ_c
R_o	572_775	66.26	39.05	0.19	0.628	0.3701	600	492
Y_o	497_775	86.88	94.74	4.35	0.4671	0.5094	574	467
G_o	497_572	20.81	55.88	4.31	0.2569	0.6898	541	541c
C_o	380_572	33.13	61.14	76.02	0.1945	0.359	492	600
B_o	380_497	12.52	5.45	71.86	0.1393	0.0607	467	574
M_o	572_497	78.58	44.31	71.91	0.4034	0.2274	541c	541
W_o	380_775	99.2	100.0	76.07	0.3603	0.3632	100%	
N_o	380_775	0.09	0.1	0.07	0.3602	0.3631	0%	
Z_o	380_775	17.85	18.0	13.69	0.3603	0.3632	18%	

$L^* = 80\log(f(Y_{an}))$ $Y_{an}=[Y-50]/50$
$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
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=0

BEP01-4A

XYZ$_W$=100.93 , 100.0 , 64.68
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /\ y]$
$b_2 = b_{20}\ [\ z\ /\ y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}300$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2} = 1{,}3$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2}$, *Y*)
Illumin. P40, Y_W=100, Y_N=0

Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_d	λ_c
R_o	573_775	70.25	41.25	0.17	0.629	0.3694	600	493
Y_o	498_775	90.6	95.35	4.18	0.4765	0.5014	576	468
G_o	498_573	20.55	54.29	4.13	0.2602	0.6873	540	540c
C_o	380_573	30.88	58.94	64.64	0.1999	0.3815	493	600
B_o	380_498	10.52	4.84	60.63	0.1384	0.0637	468	576
M_o	573_498	80.57	45.9	60.68	0.4305	0.2452	540c	540
W_o	380_775	100.93	100.0	64.68	0.3799	0.3764	100%	
N_o	380_775	0.1	0.1	0.06	0.3798	0.3763	0%	
Z_o	380_775	18.16	18.0	11.64	0.3799	0.3764	18%	

$L^* = 80\log(f(Y_{an}))$ $Y_{an}=[Y-50]/50$
$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
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=0

BEP01-5A

XYZ$_W$=103.66 , 99.99 , 52.43
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /\ y]$
$b_2 = b_{20}\ [\ z\ /\ y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}800$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2} = 1{,}8$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2}$, *Y*)
Illumin. P35, Y_W=100, Y_N=0

Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_d	λ_c
R_o	575_775	69.96	37.93	0.14	0.6475	0.3511	605	496
Y_o	500_775	95.43	94.52	2.55	0.4957	0.491	578	472
G_o	500_575	25.67	56.78	2.51	0.3021	0.6682	548	548c
C_o	380_575	33.9	62.26	52.39	0.2282	0.419	496	605
B_o	380_500	8.43	5.67	49.98	0.1316	0.0884	472	578
M_o	575_500	78.19	43.41	50.02	0.4556	0.2529	548c	548
W_o	380_775	103.66	99.99	52.43	0.4047	0.3904	100%	
N_o	380_775	0.1	0.09	0.05	0.4046	0.3903	0%	
Z_o	380_775	18.66	18.0	9.43	0.4047	0.3904	18%	

$L^* = 80\log(f(Y_{an}))$ $Y_{an}=[Y-50]/50$
$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
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=0

BEP01-6A

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

Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_d	λ_c
R_o	578_775	78.22	42.76	0.12	0.6459	0.353	604	498
Y_o	503_775	102.01	95.91	2.64	0.5086	0.4782	580	473
G_o	503_578	24.0	53.35	2.59	0.3001	0.6672	546	546c
C_o	380_578	30.03	57.43	39.5	0.2365	0.4523	498	604
B_o	380_503	6.24	4.28	36.98	0.1314	0.0901	473	580
M_o	578_503	84.25	46.84	37.03	0.5011	0.2786	546c	546
W_o	380_775	108.04	100.0	39.55	0.4363	0.4038	100%	
N_o	380_775	0.1	0.1	0.03	0.4361	0.4037	0%	
Z_o	380_775	19.44	18.0	7.11	0.4363	0.4038	18%	

$L^* = 80\log(f(Y_{an}))$ $Y_{an}=[Y-50]/50$
$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
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=0

BEP01-7A

XYZ$_W$=115.18 , 100.0 , 26.59
$A_2 = 2{,}5\ (a_2 - a_{2n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2n})\ Y$
$a_2 = a_{20}\ [\ (x - x_c)\ /\ y]$
$b_2 = b_{20}\ [\ z\ /\ y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 3{,}700$
$C_{AB2} = [A_2^2 + B_2^2]^{1/2} = 3{,}7$
6 *Ostwald* colours (o)
of maximum (m) C_{AB} in
linear colour space ($C_{AB,2}$, *Y*)
Illumin. P25, Y_W=100, Y_N=0

Name	Range	X_n	Y_n	Z_n	x_n	y_n	λ_d	λ_c
R_o	582_775	82.98	42.42	0.08	0.6612	0.338	608	502
Y_o	506_775	111.2	995.77	1.6	0.5333	0.4589	583	478
G_o	506_582	28.53	53.55	1.57	0.3411	0.64	552	552c
C_o	380_582	32.43	57.77	26.55	0.2777	0.4948	502	608
B_o	380_506	4.12	4.42	25.03	0.1227	0.1317	478	583
M_o	582_506	86.87	46.64	25.07	0.5477	0.2941	552c	552
W_o	380_775	115.18	100.0	26.59	0.4764	0.4136	100%	
N_o	380_775	0.11	0.1	0.02	0.4762	0.4134	0%	
Z_o	380_775	20.73	18.0	4.78	0.4764	0.4136	18%	

$L^* = 80\log(f(Y_{an}))$ $Y_{an}=[Y-50]/50$
$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
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=0

BEP01-8A

BEP00-7R