

$$XYZ_{W,10} = 99.99, 99.99, 100.0$$

$$A_{2,10} = 2.5 (a_{2,10} - a_{2,n,10}) Y_{10}$$

$$B_{2,10} = 2.5 B_c (b_{2,10} - b_{2,n,10}) Y_{10}$$

$$a_{2,10} = a_{20} [(x_{10} - x_c) / y_{10}]$$

$$b_{2,10} = b_{20} [z_{10} / y_{10}]$$

$$a_{20} = 1, b_{20} = -0.4$$

$$x_c = 0.110, B_c = 0.900$$

$$C_{AB,2,10} = [A_{2,10}^2 + B_{2,10}^2]^{1/2}$$

6 Ostwald colours (o)

of maximum (m)  $C_{AB,10}$  in

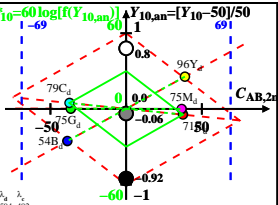
linear colour space ( $C_{AB,2,10}, Y_{10}$ )

Illumin. E00,  $Y_{W,10} = 100, Y_{N,10} = 50$

Name	Range	$X_{d,10}$	$Y_{d,10}$	$Z_{d,10}$	$x_{d,10}$	$y_{d,10}$	$\lambda_d$	$\lambda_c$
R <sub>d</sub>	564_775	83.13	71.23	50.1	0.4065	0.3484	594	482
Y <sub>d</sub>	487_775	91.62	96.31	53.24	0.3799	0.3993	568	459
G <sub>d</sub>	487_564	58.59	75.17	53.24	0.3133	0.402	530	530c
C <sub>d</sub>	380_564	67.0	78.91	100.05	0.2724	0.3208	482	594
B <sub>d</sub>	380_487	58.5	53.83	96.92	0.2795	0.2572	459	568
M <sub>d</sub>	564_487	91.54	74.97	96.92	0.3474	0.2845	530c	530
W <sub>d</sub>	380_775	99.99	99.99	100.0	0.3333	0.3333	100%	
N <sub>d</sub>	380_775	49.99	49.99	50.0	0.3333	0.3333	50%	
Z <sub>d</sub>	380_775	17.99	17.99	18.0	0.3333	0.3333	18%	

$$L^*_{10} = 60 \log[f(Y_{10,an})]$$

$$Y_{10,an} = [Y_{10} - 50] / 50$$



$$f(Y_{10,an}) = \pm [1 + 10 |Y_{10,an}|^n]$$

n increases to 1 for:

1. decreasing of the contrast C
2. adjacent compared to separate colours.

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