



TUB registration: 20101101-ME38/ME38L0N1.TXT /PS
application for measurement of printer or monitor systems

TUB material: code=Thata



See original or copy: http://web.me.com/Klaus_richter/ME38/ME38L0N1.TXT /PS
Technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

```
PSL2-program code: Kodak-photo-CD EPS-file with 17 CIE-test colors
%!PS-Adobe-3.0 B7380-7n.eps wrst1:W0419m1.eps
%%Creator: Kodak Photo CD Access Developer Toolkit
%%Pages: 1
%%BoundingBox: 0 0 192 128
%%LanguageLevel: 2
%%EndComments
%%EndProlog
%%Page: 1 1
/pictr 192 string def
gsave
/cols 192 def
/rows 128 def
/2 65536 mul 4915200 div dup
cols mul exch rows mul scale
cols rows 8
[cols 0 0 rows neg 0 rows]
[ currentfile pictr readhexstring pop ]
false 3
colorimage
000000000000000000000000000000000000000000000000000000000000000000
%ingsgesamt 192 x 128 x 2 hexadecimal characters (8 Bit) OLV*-data
000400000400000400000400000400000300000300000300000300000300000300
000300000300000300000300000300000300000300000300000300000300000300
0004000003000003000001000000000000000000000000000000000000000000
grestore
showpage
```

ME380-3, BR_44

```
PSL2-program code: color space transformation photo-CD-image with 17 CIE-test colors
%!PS-Adobe-3.0 B7381-7n.eps wrst1:W0419m2.eps
%%Creator: Kodak Photo CD Access Developer Toolkit
%%BoundingBox: 0 0 192 128
%%LanguageLevel: 2
%%EndComments
%%EndProlog
/pictr 192 string def
gsave
/cols 192 def
/rows 128 def
/2 65536 mul 4915200 div dup
cols mul exch rows mul scale
[
 /CIEBasedABC << %color space and limits for D65
 %vkl. Adobe techn. note #5122: Matching RGBcolor, page 4
 /WhitePoint [1.0000 1 1.0000] %CIEXYZ for illuminant E
 /DecodeABC [ [1.1591 mul 1.634 exp] %CIEXYZ for illuminant E
 [1.1486 mul 1.616 exp]
 [1.2085 mul 1.502 exp]
 /MatrixABC [ 0.3546 0.1495 -0.0403
 0.4319 0.7237 0.0972
 0.0399 -0.0405 0.7171
 /RangeABC [0 1 0 0 1]
 /DecodeLMN [ [ ] [ ] [ ]
 /MatrixLMN [ [1.0000 0.0000 0.0000
 0.0000 1.0000 0.0000
 0.0000 0.0000 1.0000]
 /RangeLMN [0 1 0 1 0 1] ]>> setcolorspace
 ]
<<
/ImageType 1
/Width 192 /Height 128
/BitsPerComponent 8
/Decode [0 1 0 1 0 1]
/DataMatrix [192 0 0 -128 0 128]
/ImageSource currentfile /ASCIIHexDecode filter
>>
image
000000000000000000000000000000000000000000000000000000000000000000
%ingsgesamt 192 x 128 x 2 hexadecimal characters (8 Bit) OLV*-data
000400000400000400000400000400000300000300000300000300000300000300
000300000300000300000300000300000300000300000300000300000300000300
0004000003000003000001000000000000000000000000000000000000000000
grestore
showpage
```

ME381-7

CIEBasedABC—color space in PSL2
LMN* / OLV* / RGB* -> XYZ
EBU-screen phosphors, D65

$$L = \text{Decode}L^* = \{2,2 \text{ exp}\}$$

$$M = \text{Decode}M^* = \{2,2 \text{ exp}\}$$

$$N = \text{Decode}N^* = \{2,2 \text{ exp}\}$$

$$\begin{pmatrix} X \\ Y \\ Z \end{pmatrix} = \begin{pmatrix} 0.4303 & 0.3416 & 0.1782 \\ 0.2219 & 0.7068 & 0.0713 \\ 0.0202 & 0.1296 & 0.9387 \end{pmatrix} \times \begin{pmatrix} L \\ M \\ N \end{pmatrix}$$

CIEBasedABC—color space in PSL2
OLV* -> XYZ
EBU-screen phosphors, D65

$$O = \text{Decode}O^* = \{2,2 \text{ exp}\}$$

$$L = \text{Decode}L^* = \{2,2 \text{ exp}\}$$

$$V = \text{Decode}V^* = \{2,2 \text{ exp}\}$$

$$\begin{pmatrix} X \\ Y \\ Z \end{pmatrix} = \begin{pmatrix} 0.4303 & 0.3416 & 0.1782 \\ 0.2219 & 0.7068 & 0.0713 \\ 0.0202 & 0.1296 & 0.9387 \end{pmatrix} \times \begin{pmatrix} O \\ L \\ V \end{pmatrix}$$

ME380-6, BR_43, 1

photo-CD with CIE-test colors: n=unormalized data

no.	O _n	L _n *	V _n *	X _{min,n}	Y _{min,n}	Z _{min,n}
1	141	109	95	0.2398	0.2976	0.2459
2	128	119	65	0.2749	0.2890	0.1501
3	102	129	45	0.2393	0.2643	0.0996
4	83	130	79	0.2045	0.2948	0.2127
5	82	132	190	0.2502	0.3087	0.4062
6	95	122	158	0.2826	0.2883	0.3791
7	116	115	160	0.3333	0.2939	0.5322
8	187	117	148	0.4855	0.2977	0.4582
9	173	140	43	0.2048	0.1120	0.0436
10	190	168	43	0.2487	0.5894	0.1208
11	67	55	106	0.1212	0.2615	0.1533
12	8	9	50	0.0628	0.0647	0.2773
13	204	166	124	0.5885	0.5709	0.4139
14	61	78	37	0.0935	0.1171	0.0543
15	X	39	42	0.0342	0.0359	0.0394
16	Z	88	88	0.1885	0.1983	0.2157
17	W	220	222	0.7239	0.7615	0.8289

ME380-7, BR_47, 1

photo-CD with CIE-test colors: n=unormalized data

no.	O _n	L _n *	V _n *	X _{min,n}	Y _{min,n}	Z _{min,n}	
1	163	125	114	0.4556	0.3908	0.2967	
2	148	136	78	0.3797	0.3795	0.1811	
3	118	148	54	0.2306	0.3996	0.2022	
4	96	149	95	0.2825	0.3871	0.2566	
5	95	151	157	0.3456	0.4054	0.4876	
6	110	140	190	0.3984	0.3917	0.6986	
7	157	132	193	0.4604	0.3859	0.6421	
8	216	134	178	0.5190	0.4112	0.5842	
9	R	200	45	0.2829	0.1471	0.0526	
10	T	220	192	0.51	0.7580	0.7440	0.1457
11	G	63	121	0.1674	0.2672	0.1849	
12	B	10	57	0.119	0.0868	0.0850	0.3345
13	236	190	149	0.8130	0.6957	0.4993	
14	70	80	44	0.1292	0.1538	0.0655	
15	X	45	48	0.0472	0.0471	0.0475	
16	Z	103	109	0.2604	0.2604	0.2602	
17	W	255	255	1.0000	1.0000	1.0000	

ME380-8, BR_47, 2

TUB-test chart ME38; Richter: Computer graphics, colorimetry input: *cmk setcmkcolor*
Colour book series: *PostScript* and CIE colour spaces no. 12 output: no colour data change

