See original or copy: http://web.me.com/klaus.richter/ME38/ME38L0NP.PDF /.PS
Technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20101101-ME38/ME38L0NP.PDF /.PS
application for measurement of printer or monitor systems
TUB material: code=rha4ta

PSL2-program code: *Kodak*-photo-CD EPS-file with 17 CIE-test colors

```
%!PS-Adobe-3.0 B7380-7n.eps wrstl:W0419m1.eps
%%Creator: Kodak Photo CD Access Developer Toolkit
%%Pages: 1
%%BoundingBox: 0 0 192 128
%%LanguageLevel: 2
%%EndComments
%%EndProlog
%%Page: 1 1
/picstr 192 string def
gsave
/cols 192 def
/rows 128 def
72 65536 mul 4915200 div dup
cols mul exch rows mul scale
cols rows 8
[cols 0 0 rows neg 0 rows]
{ currentfile picstr readhexstring pop }
false 3
colorimage
000000000000000000000000000000000000000000000000000000000000000000
%insgesamt 192 x 128 x 2 hexadecimal characters (8 Bit) OLV*-data
000400000400000400000400000400000300000300000300000300000300000300
000300000300000300000300000300000300000300000300000300000300000300
000400000300000300000100000000000000
grestore
showpage
```

ME380−3, B8_44

CIEBased*ABC*−color space in PSL2
LMN / OLV* / RGB* −> XYZ*
EBU-screen phosphors, D65

$$L = \text{Decode}L^* = \{2.2\ \text{exp}\}$$
$$M = \text{Decode}M^* = \{2.2\ \text{exp}\}$$
$$N = \text{Decode}N^* = \{2.2\ \text{exp}\}$$

$$\begin{pmatrix} X \\ Y \\ Z \end{pmatrix} = \begin{pmatrix} 0{,}4303 & 0{,}3416 & 0{,}1782 \\ 0{,}2219 & 0{,}7068 & 0{,}0713 \\ 0{,}0202 & 0{,}1296 & 0{,}9387 \end{pmatrix} \times \begin{pmatrix} L \\ M \\ N \end{pmatrix}$$

ME380−5, B8_45_1

CIEBased*ABC*−color space in PSL2
OLV −> 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, B8_45_2

photo-CD with CIE-test colors: *u*=unnormalized data

no.		O^*_u	L^*_u	V^*_u	$X_{\text{aim},u}$	$Y_{\text{aim},u}$	$Z_{\text{aim},u}$
1		141	109	95	0,3298	0,2976	0,2459
2		128	119	65	0,2749	0,2890	0,1501
3		102	129	45	0,2393	0,3043	0,0996
4		83	130	79	0,2045	0,2948	0,2127
5		82	132	130	0,2502	0,3087	0,4042
6		95	122	158	0,2826	0,2983	0,5791
7		136	115	160	0,3333	0,2939	0,5322
8		187	117	148	0,3757	0,3131	0,4544
9	*R*	173	40	43	0,2048	0,1120	0,0436
10	*J*	190	168	43	0,5487	0,5894	0,1208
11	*G*	55	106	64	0,1212	0,2035	0,1533
12	*B*	9	50	99	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	*N*	39	42	39	0,0342	0,0359	0,0394
16	*Z*	89	95	88	0,1885	0,1983	0,2157
17	*W*	220	222	211	0,7239	0,7615	0,8289

ME380−7, B8_47_1

photo-CD with CIE-test colors: *n*=normalized data

no.		O^*_n	L^*_n	V^*_n	$X_{\text{aim},n}$	$Y_{\text{aim},n}$	$Z_{\text{aim},n}$
1		163	125	114	0,4556	0,3908	0,2967
2		148	136	78	0,3797	0,3795	0,1811
3		118	148	54	0,3306	0,3996	0,1202
4		96	149	95	0,2825	0,3871	0,2566
5		95	151	157	0,3456	0,4054	0,4876
6		110	140	190	0,3904	0,3917	0,6986
7		157	132	193	0,4604	0,3859	0,6421
8		216	134	178	0,5190	0,4112	0,5482
9	*R*	200	45	51	0,2829	0,1471	0,0526
10	*J*	220	192	51	0,7580	0,7740	0,1457
11	*G*	63	121	77	0,1674	0,2672	0,1849
12	*B*	10	57	119	0,0868	0,0850	0,3345
13		236	190	149	0,8130	0,7497	0,4993
14		70	89	44	0,1292	0,1538	0,0655
15	*N*	45	48	47	0,0472	0,0471	0,0475
16	*Z*	103	109	106	0,2604	0,2604	0,2602
17	*W*	255	255	255	1,0000	1,0000	1,0000

ME380−8, B8_47_2

PSL2-program code: color space transformation photo-CD-image with 17 CIE-test colors

```
%!PS-Adobe-3.0 B7381-7n.eps wrstl:W0419m2.eps
%%Creator: Kodak Photo CD Access Developer Toolkit
%%BoundingBox: 0 0 192 128
%%LanguageLevel: 2
%%EndComments
%%EndProlog
/picstr 192 string def
gsave
/cols 192 def
/rows 128 def
72 65536 mul 4915200 div dup
cols mul exch rows mul scale

[ /CIEBasedABC << %color space and limits for D65
   %vgl. 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}
       {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 1  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]
 /ImageMatrix [192 0 0 -128 0 128]
 /DataSource currentfile /ASCIIHexDecode filter
>>
image
000000000000000000000000000000000000000000000000000000000000000000
%insgesamt 192 x 128 x 2 hexadecimal-characters (8 Bit) OLV*-data
000400000400000400000400000400000300000300000300000300000300000300
000300000300000300000300000300000300000300000300000300000300000300
000400000300000300000100000000000000
grestore
showpage
```

ME381−7