see similar files: http://130.149.60.45/~farbmetrik/XE22/XE22.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-XE22/XE22L0N1.TXT /.PS
application for measurement of display output
TUB material: code=fha4a

Names and colorimetric charateristics of colour difference data sets

Group	Name	Short name and number of pairs	Mean colour difference ΔE^*_{ab}	Background Tristimulus value and lightness Y	L^*	Background Illuminance and luminance E [lux] L [cd/m]^2	
LCD	OSA_Separate	OS_L0128	14,3	18,4	50,0	1000	58
	MUNSELL_Separ.	MU_L0844	10,0	18,4	50,0	1000	58
	POINTER_Adjac.?	PO_L1308	8,9	18,4	50,0	1000	58
	GUAN_Adjacent?	GU_L0292	11,4	18,4	50,0	1000	58
	ZHU_Adjacent?	ZH_L0144	9,9	18,4	50,0	1000	58
	BADU−P_Adjac.?	BA_L0238	11,7	18,4	50,0	1000	58
ELCD RS	WANG_Adjacent	WA_EW060	50,2	18,4	50,0	1000	58
	VIK_Adjacent	VA_EV060	40,6	18,4	50,0	1000	58
	RICHTER_Separate	RS_ER032	50,0	18,4	50,0	1000	58
ELCD IS&RS	VIK_Adjacent	VA_EW098	41,1	18,4	50,0	1000	58
	KIT_Adjacent	KA_EW098	41,1	18,4	50,0	1000	58
	KIT_Separate	KS_EW098	41,1	18,4	50,0	1000	58
	MEL_Adjacent	MA_EW098	41,1	18,4	50,0	1000	58
	VIK_Adjacent	VA_EV098	41,1	18,4	50,0	1000	58
	KIT_Adjacent	KA_EV098	41,1	18,4	50,0	1000	58
	KIT_Separate	KS_EV098	41,1	18,4	50,0	1000	58
	MEL_Adjacent	MA_EV098	41,1	18,4	50,0	1000	58

Remarks: RS = ratio scaling, IS&PS = interval and ratio scaling
Group LCD = Large Colour Differences , ELCD = Extra Large Colour Differences
MUNSELL and POINTER use the CIE 2 degree observer
OSA, GUAN, ZHU, and BADU−P use the CIE 10 degree observer
Group ELCD uses CIE 2 degree observer

1−000030−L0 XE220−3N

Name of data set, data file folder in internet, reference for the data set

Short Name, number of pairs	data file folder in internet *ABCD*[1) 2)]	line range of CIE *XYZ* data of pairs in internet file *ABCD*0−7N.PS [3)]	Publication reference for the data set Author(s) and publication year
OS_L0128	YE81	0238 to 0373	*MACADAM, D. L. (1974)*
MU_L0844	YE82	0238 to 1089	*NEWHALL, S. M. et al (1940, 1943)*
PO_L1308	YE83	0238 to 1553	*POINTER, M. R. (1997)*
GU_L0292	YE84	0238 to 0537	*GUAN, S. S. (1999)*
ZH_L0144	YE85	0238 to 0389	*ZHU, S. Y. et al (2001)*
BA_L0238	YE86	0238 to 0483	*BADU, A. S. (1986)*
WA_EW060	YE87	0238 to 305	*WANG et al (2012)*
VA_EV98	YE88	0238 to 325	*VIK, M. (2016?)*
RS_ER032	YE89	0238 to 325	*RICHTER, K. (1985)*
VA_EW098	YE61	0238 to 352	*VIK, M. (2009?)*
KA_EW098	YE62	0238 to 352	*KITTELMANN, P. (2005)*
KS_EW098	YE63	0238 to 352	*KITTELMANN, P. (2005)*
MA_EW098	YE64	0238 to 341	*HUERTAS, R. & MELGOSA, M. (2008)*
VA_EV098	YE65	0238 to 352	*VIK, M. (2009?)*
KA_EV098	YE66	0238 to 352	*KITTELMANN, P. (2005)*
KS_EV098	YE67	0238 to 352	*KITTELMANN, P. (2005)*
MA_EV098	YE68	0238 to 341	*HUERTAS, R. & MELGOSA, M. (2008)*

1) Two servers allow the download of the data sets with the CIE *XYZ* and DV data:
http://130.149.60.45/~farbmetrik/ and/or http://farbe.li.tu-berlin.de/
2) Data files are given in the formats: .TXT (text), .PS/.EPS (*PostScript*), and .PDF
3) See the files for download for example in: http://farbe.li.tu-berlin.de/YE61/
Use for download for example: http://farbe.li.tu-berlin.de/YE61/YE610-7T.TXT

1−000030−L0 XE221−3N

Visual and other characteristiCS of colour difference data sets

Short name, number of pairs	Number of observers and repli−cations	Chromaticity of the grey surround	Material properties	Scaling and comparison method[4)]
OS_L0128	?	near CIE D65	Tiles	scaling: RS
MU_L0844	?	near CIE C	Gloss Paint	scaling: RS
PO_L1308	?	near CIE D65?	Photo paper	scaling: ?
GU_L0292	?	near CIE D65?	Wool Dyeing	scaling: ?
ZH_L0144	?	near CIE D65?	CRT colours	scaling: ?
BA_L0238	?	near CIE D65?	Nylon Dyeing	scaling: ?
WA_EW060	31x3?	near CIE D65	Photo paper	scaling: RS[3)]
VA_EV098	14x3	near CIE D65	Photo paper	scaling: RS[3) 2)]
RS_ER032	6x3	near CIE D65	Light colours	scaling: RS[3)]
VA_EW098	14x3; 31x3	near CIE D65	Photo paper	scaling: IS&RS[1)]
KA_EW098	17x3; 31x3	near CIE D65	Photo paper	scaling: IS&RS[1)]
KS_EW098	17x3; 31x3	near CIE D65	Photo paper	scaling: IS&RS[1)]
MA_EW098	20x3; 31x3	near CIE D65	Photo paper	scaling: IS&RS[1)]
VA_EV098	14x3; 14x3	near CIE D65	Photo paper	scaling: IS&RS[1)]
KA_EV098	17x3; 14x3	near CIE D65	Photo paper	scaling: IS&RS[1)]
KS_EV098	17x3; 14x3	near CIE D65	Photo paper	scaling: IS&RS[1)]
MA_EV098	20x3; 14x3	near CIE D65	Photo paper	scaling: IS&RS[1)]

Remarks:
1) Interval and ratio scaling, EW (WANG ratio), EV (VIK ratio), ER (RICHTER ratio)
2) Interval and ratio scaling of same viewing condition
3) Ratio scaling
4) See section 1: terms and defintions

1−000030−L0 XE220−7N

Content of a file with the example ELCD data set: VA_EW098

see for example the following folder for VA_EW098 with many files for the download:
http://farbe.li.tu-berlin.de/YE61/

see the following file with the *PostScript* programming text
http://farbe.li.tu-berlin.de/YE61/YE610-7R.TXT

one can study the output of the coresponding PDF file
http://farbe.li.tu-berlin.de/YE61/YE610-7R.PDF

the ASCII text output of the preceeding PDF file is in the file:
http://farbe.li.tu-berlin.de/YE61/YE610-7T.TXT

This output includes the following text and numerical data:
1000*CIEXYZ & 1000*DV data for all colours (a) of all colour difference data pairs
The XYZn data are for the experimental reference white of the 2 or 10 degree observer
The reference white is for example Xn =95,05, Yn =100,00, Zn =108,90 for D65

```
Xn      Yn      Zn      X0      Y0      Z0      X1      Y1      Z1      DV*     Nr
0095050 0100000 0108900 0043074 0051427 0077399 0081895 0087159 0084892 0005684 %61000001
0095050 0100000 0108900 0043074 0051427 0077399 0019343 0027473 0069838 0007426 %61000002
```

If the decimal comma for the CIEXYZ and DV* data is considered, then for example
X0=43,074 and DV*=5,684

1−000030−L0 XE221−7N