

Performance (STRESS values) for small colour difference data (SCD)

data set	Calculations with data for grey surrounds (D65) and 0,1 < Y < 190						Colour difference formula and STRESS value				
	Difference $\Delta E^*_{\text{CIELAB}}$										
	Name	Pairs	ΔE^*_{ab} range	min	max	mean	CIELAB $\Delta E_{\text{ab_PF}}$	CMC $\Delta E_{\text{CMs_PF}}$	CIE94 ΔE_{94_PF}	CIEDE2000 ΔE_{00_PF}	LABJND ΔE_{85_PF}
WI_0418 RD_0312 LE_0307 BF_2776 SS_0446	WI_0418	418	0.0 to <99.0	0.11	10.62	1.86	41.5	32.7	30.6	28.5	43.9
	RD_0312	312	0.0 to <99.0	0.77	4.4	1.43	17.6	17.7	14.1	13.4	15.3
	LE_0307	307	0.0 to <99.0	0.39	4.73	1.63	29.8	20.1	24.4	17.5	26.0
	BF_2776	2776	0.0 to <99.0	0.03	18.2	3.0	37.2	29.9	30.8	28.4	43.1
	SS_0446	446	0.0 to <99.0	0.17	7.97	3.03	32.5	24.6	23.4	22.4	30.3
WI_0418 RD_0312 LE_0307 BF_2776 SS_0446	WI_0418	126	0.0 to <1.0	0.11	0.99	0.62	43.6	31.9	31.6	27.9	46.6
	RD_0312	48	0.0 to <1.0	0.77	0.99	0.92	3.4	14.3	7.7	12.1	13.5
	LE_0307	52	0.0 to <1.0	0.39	0.99	0.79	26.7	21.3	25.9	19.4	35.4
	BF_2776	546	0.0 to <1.0	0.03	0.99	0.53	51.7	43.6	44.9	43.0	54.0
	SS_0446	37	0.0 to <1.0	0.17	0.96	0.71	26.8	32.5	34.3	31.8	31.4
WI_0418 RD_0312 LE_0307 BF_2776 SS_0446	WI_0418	274	0.0 to <2.0	0.11	1.99	1.07	43.3	31.1	30.7	27.1	45.8
	RD_0312	280	0.0 to <2.0	0.77	1.94	1.31	12.2	17.9	13.3	12.8	14.9
	LE_0307	232	0.0 to <2.0	0.39	1.99	1.34	28.2	20.6	25.4	18.1	28.3
	BF_2776	1154	0.0 to <2.0	0.03	1.99	1.06	39.6	32.4	33.5	30.1	46.5
	SS_0446	130	0.0 to <2.0	0.17	1.99	1.3	31.2	30.1	33.0	29.3	32.9
WI_0418 RD_0312 LE_0307 BF_2776 SS_0446	WI_0418	38	0.0 to <0.5	0.11	0.49	0.36	41.0	34.5	33.0	30.4	45.1
	RD_0312	0									
	LE_0307	3	0.0 to <0.5	0.39	0.42	0.4	25.9	28.9	33.0	27.2	29.1
	BF_2776	253	0.0 to <0.5	0.03	0.49	0.32	59.6	56.3	56.9	55.0	60.1
	SS_0446	7	0.0 to <0.5	0.17	0.48	0.38	17.8	28.4	29.2	34.0	22.3
WI_0418 RD_0312 LE_0307 BF_2776 SS_0446	WI_0418	88	0.5 to <1.0	0.51	0.99	0.74	44.1	31.4	31.3	27.2	46.3
	RD_0312	48	0.5 to <1.0	0.77	0.99	0.92	3.4	14.3	7.7	12.1	13.5
	LE_0307	49	0.5 to <1.0	0.52	0.99	0.81	26.6	21.1	25.7	19.2	35.3
	BF_2776	293	0.5 to <1.0	0.5	0.99	0.72	48.5	39.1	40.8	39.0	49.0
	SS_0446	30	0.5 to <1.0	0.57	0.96	0.79	25.2	30.3	31.9	28.3	31.9
WI_0418 RD_0312 LE_0307 BF_2776 SS_0446	WI_0418	91	1.0 to <1.5	1.01	1.49	1.26	43.8	31.9	31.3	28.4	45.0
	RD_0312	148	1.0 to <1.5	1.0	1.49	1.23	6.5	18.7	11.7	12.6	15.1
	LE_0307	89	1.0 to <1.5	1.0	1.49	1.25	27.2	20.7	22.8	17.6	29.7
	BF_2776	266	1.0 to <1.5	1.0	1.49	1.26	38.2	29.6	31.8	27.9	42.4
	SS_0446	41	1.0 to <1.5	1.0	1.49	1.26	33.2	27.3	30.0	27.2	35.4
WI_0418 RD_0312 LE_0307 BF_2776 SS_0446	WI_0418	57	1.5 to <2.0	1.51	1.99	1.74	42.5	29.5	29.2	24.7	43.6
	RD_0312	84	1.5 to <2.0	1.5	1.94	1.67	3.6	15.0	13.4	11.4	15.0
	LE_0307	91	1.5 to <2.0	1.5	1.99	1.75	24.7	18.4	23.0	15.5	22.6
	BF_2776	342	1.5 to <2.0	1.5	1.99	1.75	33.0	28.7	29.4	25.6	36.4
	SS_0446	52	1.5 to <2.0	1.5	1.99	1.74	24.2	24.5	26.2	22.8	28.7

data sets: WI=WITT, RD=RIT_DUPONT, LE=LEEDS, BF=BFD_ALL, SS=BIGC_SSG

Performance (STRESS values) for small colour difference data (SCD)

data set	Calculations with data for grey surrounds (D65) and 0,1 < Y < 190					Colour difference formula and STRESS value				
	Difference $\Delta E^*_{CIEDE2000}$									
Name	Pairs	ΔE^*_{C00} range	min	max	mean	CIELAB ΔE	CMC ΔE	CIE94 ΔE	CIEDE2000 ΔE	LABJND ΔE
WI_0418	418	0.0 to <99.0	0.11	10.62	1.86	41.5	32.7	30.6	28.5	43.9
RD_0312	312	0.0 to <99.0	0.77	4.4	1.43	17.6	17.7	14.1	13.4	15.3
LE_0307	307	0.0 to <99.0	0.39	4.73	1.63	29.8	20.1	24.4	17.5	26.0
BF_2776	2776	0.0 to <99.0	0.03	18.2	3.0	37.2	29.9	30.8	28.4	43.1
SS_0446	446	0.0 to <99.0	0.17	7.97	3.03	32.5	24.6	23.4	22.4	30.3
WI_0418	221	0.0 to <1.0	0.11	3.69	1.08	46.4	41.1	38.3	33.9	44.9
RD_0312	184	0.0 to <1.0	0.77	3.21	1.29	14.0	17.1	11.3	6.6	12.7
LE_0307	128	0.0 to <1.0	0.39	2.94	1.37	30.5	21.7	23.5	20.8	24.8
BF_2776	815	0.0 to <1.0	0.03	4.13	0.92	44.3	39.9	39.9	39.4	47.3
SS_0446	110	0.0 to <1.0	0.17	3.9	1.46	35.4	31.3	32.4	30.7	29.2
WI_0418	386	0.0 to <2.0	0.11	5.72	1.68	42.7	35.1	32.7	30.4	43.8
RD_0312	312	0.0 to <2.0	0.77	4.4	1.43	17.6	17.7	14.1	13.4	15.3
LE_0307	305	0.0 to <2.0	0.39	4.73	1.62	29.9	20.2	24.6	17.7	26.1
BF_2776	1851	0.0 to <2.0	0.03	7.84	1.84	34.6	29.3	30.0	27.3	39.3
SS_0446	313	0.0 to <2.0	0.17	6.65	2.39	33.8	29.4	29.1	27.5	29.1
WI_0418	94	0.0 to <0.5	0.11	1.67	0.65	44.3	41.4	39.1	33.7	42.5
RD_0312	0	0.0 to <0.5	0.39	0.67	0.53	29.0	28.4	32.7	26.4	27.4
LE_0307	10	0.0 to <0.5	0.03	2.09	0.48	53.6	51.0	51.5	50.8	53.4
BF_2776	417	0.0 to <0.5	0.03	2.09	0.48	53.6	51.0	51.5	50.8	53.4
SS_0446	23	0.0 to <0.5	0.17	1.79	0.76	35.6	35.0	35.6	31.1	28.2
WI_0418	127	0.5 to <1.0	0.44	3.69	1.4	46.3	40.8	38.0	33.9	42.7
RD_0312	184	0.5 to <1.0	0.77	3.21	1.29	14.0	17.1	11.3	6.6	12.7
LE_0307	118	0.5 to <1.0	0.52	2.94	1.44	30.1	20.9	22.9	20.2	24.6
BF_2776	398	0.5 to <1.0	0.35	4.13	1.38	39.9	35.6	35.6	35.5	37.7
SS_0446	87	0.5 to <1.0	0.48	3.9	1.64	34.0	28.0	29.4	27.8	29.2
WI_0418	102	1.0 to <1.5	0.76	5.67	2.18	40.9	33.8	31.8	29.6	37.2
RD_0312	122	1.0 to <1.5	0.79	4.4	1.61	18.1	12.6	11.8	6.9	18.3
LE_0307	147	1.0 to <1.5	0.85	3.67	1.7	28.4	19.7	25.3	17.2	26.5
BF_2776	606	1.0 to <1.5	0.81	6.06	2.31	33.6	28.4	28.5	25.8	32.3
SS_0446	124	1.0 to <1.5	0.83	5.15	2.58	31.9	27.1	27.9	24.1	30.1
WI_0418	63	1.5 to <2.0	1.17	5.72	3.0	36.9	28.6	26.0	27.6	32.1
RD_0312	6	1.5 to <2.0	1.35	3.64	2.39	18.2	9.1	6.2	6.2	11.3
LE_0307	30	1.5 to <2.0	1.25	4.73	2.3	24.5	18.5	23.3	13.6	19.0
BF_2776	430	1.5 to <2.0	1.1	7.84	2.93	27.9	24.1	26.7	22.7	31.2
SS_0446	79	1.5 to <2.0	1.67	6.65	3.4	34.1	27.9	24.8	24.7	26.7

data sets: WI=WITT, RD=RIT_DUPONT, LE=LEEDS, BF=BFD_ALL, SS=BIGC_SSG

Performance (STRESS values) for small colour difference data (SCD)

data set	Calculations with data for grey surrounds (D65) and 0,1 < Y < 190					Colour difference formula and STRESS value				
	Difference ΔE^*_{LABJND}									
Name	Pairs	ΔE^*_{C85} range	min	max	mean	CIELAB ΔE	CMC ΔE	CIE94 ΔE	CIEDE2000 ΔE	LABJND ΔE
WI_0418	418	0.0 to <99.0	0.11	10.62	1.86	41.5	32.7	30.6	28.5	43.9
RD_0312	312	0.0 to <99.0	0.77	4.4	1.43	17.6	17.7	14.1	13.4	15.3
LE_0307	307	0.0 to <99.0	0.39	4.73	1.63	29.8	20.1	24.4	17.5	26.0
BF_2776	2776	0.0 to <99.0	0.03	18.2	3.0	37.2	29.9	30.8	28.4	43.1
SS_0446	446	0.0 to <99.0	0.17	7.97	3.03	32.5	24.6	23.4	22.4	30.3
WI_0418	8	0.0 to <1.0	0.11	0.56	0.31	39.1	32.5	29.2	29.9	33.6
RD_0312	0									
LE_0307	0									
BF_2776	65	0.0 to <1.0	0.03	1.5	0.27	66.6	63.1	64.5	64.0	68.1
SS_0446	1	0.0 to <1.0	0.41	0.41	0.41	0.1	0.1	0.1	0.1	0.1
WI_0418	46	0.0 to <2.0	0.11	1.12	0.6	42.9	28.9	27.0	24.2	46.9
RD_0312	4	0.0 to <2.0	0.86	1.02	0.94	4.3	7.1	6.3	6.8	2.0
LE_0307	0									
BF_2776	239	0.0 to <2.0	0.03	2.57	0.43	54.6	46.5	48.5	45.6	59.4
SS_0446	7	0.0 to <2.0	0.17	0.84	0.61	35.1	39.9	33.6	38.8	24.2
WI_0418	0									
RD_0312	0									
LE_0307	0									
BF_2776	12	0.0 to <0.5	0.03	0.33	0.14	62.2	64.7	64.7	67.2	53.5
SS_0446	0									
WI_0418	8	0.5 to <1.0	0.11	0.56	0.31	39.1	32.5	29.2	29.9	33.6
RD_0312	0									
LE_0307	0									
BF_2776	53	0.5 to <1.0	0.05	1.5	0.3	67.0	62.8	64.4	63.6	69.6
SS_0446	1	0.5 to <1.0	0.41	0.41	0.41	0.1	0.1	0.1	0.1	0.1
WI_0418	18	1.0 to <1.5	0.23	1.03	0.61	40.2	30.2	26.4	25.4	43.0
RD_0312	0									
LE_0307	0									
BF_2776	92	1.0 to <1.5	0.11	1.72	0.41	56.9	47.7	50.0	46.3	61.0
SS_0446	3	1.0 to <1.5	0.17	0.84	0.6	28.1	25.8	28.3	34.1	8.8
WI_0418	20	1.5 to <2.0	0.24	1.12	0.72	44.8	27.0	26.8	21.5	50.1
RD_0312	4	1.5 to <2.0	0.86	1.02	0.94	4.3	7.1	6.3	6.8	2.0
LE_0307	0									
BF_2776	82	1.5 to <2.0	0.17	2.57	0.57	45.9	35.3	37.7	33.4	53.1
SS_0446	3	1.5 to <2.0	0.43	0.81	0.68	39.0	44.3	34.2	39.7	24.8

data sets: WI=WITT, RD=RIT_DUPONT, LE=LEEDS, BF=BFD_ALL, SS=BIGC_SSG