

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	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	400	0.0 to <5.0	0.11	4.94	1.67		43.3	33.8	31.5	29.4	44.5
RD_0312	312	0.0 to <5.0	0.77	4.4	1.43		17.6	17.7	14.1	13.4	15.3
LE_0307	307	0.0 to <5.0	0.39	4.73	1.63		29.8	20.1	24.4	17.5	26.0
BF_2776	2325	0.0 to <5.0	0.03	4.99	2.14		39.0	29.8	32.1	28.7	43.2
SS_0446	385	0.0 to <5.0	0.17	4.96	2.57		31.7	24.6	24.2	22.5	31.1
WI_0418	18	5.0 to <99.0	5.03	10.62	6.15		19.4	22.8	22.0	20.2	27.5
RD_0312	0										
LE_0307	0										
BF_2776	451	5.0 to <99.0	5.0	18.2	7.43		34.4	28.9	28.7	27.3	33.7
SS_0446	61	5.0 to <99.0	5.0	7.97	5.93		32.0	21.5	17.5	17.0	26.1
WI_0418	17	5.0 to <10.0	5.03	8.75	5.89		20.4	24.1	23.0	21.3	27.9
RD_0312	0										
LE_0307	0										
BF_2776	389	5.0 to <10.0	5.0	9.91	6.65		35.4	29.3	29.9	27.6	34.5
SS_0446	61	5.0 to <10.0	5.0	7.97	5.93		32.0	21.5	17.5	17.0	26.1
WI_0418	1	10.0 to <20.0	10.62	10.62	10.62		0.1	0.1	0.1	0.1	0.1
RD_0312	0										
LE_0307	0										
BF_2776	62	10.0 to <20.0	10.05	18.2	12.35		30.3	27.5	23.9	25.8	25.1
SS_0446	0										
WI_0418	0										
RD_0312	0										
LE_0307	0										
BF_2776	0										
SS_0446	0										
WI_0418	0										
RD_0312	0										
LE_0307	0										
BF_2776	0										
SS_0446	0										

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									
	Difference $\Delta E^*_{CIEDE2000}$					Colour difference formula and STRESS value				
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	418	0.0 to <5.0	0.11	10.62	1.86	41.5	32.7	30.6	28.5	43.9
RD_0312	312	0.0 to <5.0	0.77	4.4	1.43	17.6	17.7	14.1	13.4	15.3
LE_0307	307	0.0 to <5.0	0.39	4.73	1.63	29.8	20.1	24.4	17.5	26.0
BF_2776	2709	0.0 to <5.0	0.03	16.07	2.82	37.7	30.2	31.5	28.8	43.1
SS_0446	443	0.0 to <5.0	0.17	7.97	3.01	32.3	24.9	23.7	22.7	29.7
WI_0418	0	5.0 to <99.0	3.61	18.2	10.29	28.0	27.1	25.1	25.8	29.0
RD_0312	0									
LE_0307	0									
BF_2776	67									
SS_0446	3									
WI_0418	0	5.0 to <10.0	3.61	18.15	10.17	27.3	26.2	24.2	24.9	29.1
RD_0312	0									
LE_0307	0									
BF_2776	66									
SS_0446	3									
WI_0418	0	10.0 to <20.0	18.2	18.2	18.2	0.1	0.1	0.1	0.1	0.1
RD_0312	0									
LE_0307	0									
BF_2776	1									
SS_0446	0									
WI_0418	0									
RD_0312	0									
LE_0307	0									
BF_2776	0									
SS_0446	0									
WI_0418	0									
RD_0312	0									
LE_0307	0									
BF_2776	0									
SS_0446	0									

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	189	0.0 to <5.0	0.11	4.39	1.11	46.3	33.6	34.1	30.7	49.8
RD_0312	87	0.0 to <5.0	0.79	4.4	1.56	19.1	12.4	9.5	11.2	9.0
LE_0307	86	0.0 to <5.0	0.39	2.5	1.39	34.8	21.9	23.9	20.0	28.0
BF_2776	851	0.0 to <5.0	0.03	6.06	1.09	43.7	32.8	33.1	29.7	51.9
SS_0446	90	0.0 to <5.0	0.17	5.15	1.44	39.9	35.0	31.9	31.4	28.6
WI_0418	229	5.0 to <99.0	0.59	10.62	2.48	39.7	32.4	29.1	27.7	41.7
RD_0312	225	5.0 to <99.0	0.77	3.64	1.38	16.6	19.3	14.4	14.1	9.1
LE_0307	221	5.0 to <99.0	0.52	4.73	1.72	28.1	19.6	23.6	16.8	23.4
BF_2776	1925	5.0 to <99.0	0.55	18.2	3.84	35.8	29.4	30.6	28.1	40.9
SS_0446	356	5.0 to <99.0	0.65	7.97	3.43	31.4	22.6	21.1	20.3	30.5
WI_0418	132	5.0 to <10.0	0.59	6.68	2.3	40.4	30.1	29.0	27.9	42.8
RD_0312	171	5.0 to <10.0	0.77	3.64	1.33	15.6	18.5	13.2	13.8	6.3
LE_0307	94	5.0 to <10.0	0.52	3.67	1.49	33.8	19.1	22.8	19.0	27.6
BF_2776	799	5.0 to <10.0	0.55	12.92	2.66	36.8	28.0	28.2	23.9	41.8
SS_0446	173	5.0 to <10.0	0.65	7.27	2.97	32.8	26.7	23.1	23.3	27.6
WI_0418	87	10.0 to <20.0	1.08	10.62	2.67	38.9	34.8	30.0	28.2	41.7
RD_0312	54	10.0 to <20.0	0.93	3.21	1.56	17.6	16.6	11.7	14.7	3.8
LE_0307	110	10.0 to <20.0	0.92	3.66	1.75	24.5	19.9	21.7	15.6	20.1
BF_2776	617	10.0 to <20.0	0.93	14.39	3.92	33.3	27.5	28.9	25.7	44.0
SS_0446	154	10.0 to <20.0	1.45	7.94	3.55	31.0	20.9	21.0	19.8	33.1
WI_0418	10	20.0 to <99.0	2.12	5.67	3.34	36.8	32.3	19.9	20.8	30.1
RD_0312	0									
LE_0307	17	20.0 to <99.0	1.89	4.73	2.77	22.1	16.6	18.5	12.8	13.1
BF_2776	509	20.0 to <99.0	2.0	18.2	5.6	34.7	30.8	32.2	31.0	38.1
SS_0446	29	20.0 to <99.0	2.7	7.97	5.59	18.8	13.5	12.3	10.4	25.8
WI_0418	10	20.0 to <99.0	2.12	5.67	3.34	36.8	32.3	19.9	20.8	30.1
RD_0312	0									
LE_0307	17	20.0 to <99.0	1.89	4.73	2.77	22.1	16.6	18.5	12.8	13.1
BF_2776	509	20.0 to <99.0	2.0	18.2	5.6	34.7	30.8	32.2	31.0	38.1
SS_0446	29	20.0 to <99.0	2.7	7.97	5.59	18.8	13.5	12.3	10.4	25.8

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