

Performance (STRESS values) for Small Colour Difference data (SCD)

data set	Calculations with data for grey backgrounds (chromaticity near D65)									
	Colour difference $\Delta E^*_{\text{CIELAB}}$					Colour difference formula and STRESS value				
Name	Pairs	ΔE^*_{ab} range	min	max	mean	CIELAB ΔE^*_{ab}	CMC ΔE^*_{CM}	CIE94 ΔE^*_{94}	CIEDE2000 ΔE^*_{00}	LABJND ΔE^*_{85}
WI_0418	418	0.0 to <99.0	0.11	10.62	1.86	51.7	35.0	31.6	30.1	55.1
RD_0312	312	0.0 to <99.0	0.77	4.4	1.43	33.4	27.3	20.3	19.5	38.3
LE_0307	307	0.0 to <99.0	0.39	4.73	1.63	40.0	24.8	30.4	19.2	45.1
BF_2776	2776	0.0 to <99.0	0.03	18.2	3.0	42.4	30.6	33.7	29.5	52.9
SS_0446	446	0.0 to <99.0	0.17	7.97	3.03	42.1	31.7	28.7	29.3	45.8
WI_0418	400	0.0 to <5.0	0.11	4.94	1.67	50.6	35.9	32.4	30.7	55.9
RD_0312	312	0.0 to <5.0	0.77	4.4	1.43	33.4	27.3	20.3	19.5	38.3
LE_0307	307	0.0 to <5.0	0.39	4.73	1.63	40.0	24.8	30.4	19.2	45.1
BF_2776	2325	0.0 to <5.0	0.03	4.99	2.14	40.0	28.7	33.3	27.7	55.0
SS_0446	385	0.0 to <5.0	0.17	4.96	2.57	38.9	32.1	28.6	28.2	47.2
WI_0418	18	5.0 to <99.0	5.03	10.62	6.15	21.8	24.0	23.2	22.1	47.4
RD_0312	0									
LE_0307	0									
BF_2776	451	5.0 to <99.0	5.0	18.2	7.43	37.4	30.6	31.8	29.8	49.4
SS_0446	61	5.0 to <99.0	5.0	7.97	5.93	33.2	20.0	16.7	17.4	36.7
WI_0418	17	5.0 to <10.0	5.03	8.75	5.89	21.8	25.2	24.5	23.1	49.3
RD_0312	0									
LE_0307	0									
BF_2776	389	5.0 to <10.0	5.0	9.91	6.65	35.4	29.8	32.4	28.9	51.1
SS_0446	61	5.0 to <10.0	5.0	7.97	5.93	33.2	20.0	16.7	17.4	36.7
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	32.4	29.6	27.3	29.0	41.7
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_P, SS=BIGC-S-SG

Performance (STRESS values) for Small Colour Difference data (SCD)

data set	Calculations with data for grey backgrounds (chromaticity near D65)									
	Colour 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	51.7	35.0	31.6	30.1	55.1
RD_0312	312	0.0 to <99.0	0.77	4.4	1.43	33.4	27.3	20.3	19.5	38.3
LE_0307	307	0.0 to <99.0	0.39	4.73	1.63	40.0	24.8	30.4	19.2	45.1
BF_2776	2776	0.0 to <99.0	0.03	18.2	3.0	42.4	30.6	33.7	29.5	52.9
SS_0446	446	0.0 to <99.0	0.17	7.97	3.03	42.1	31.7	28.7	29.3	45.8
WI_0418	418	0.0 to <5.0	0.11	10.62	1.86	51.7	35.0	31.6	30.1	55.1
RD_0312	312	0.0 to <5.0	0.77	4.4	1.43	33.4	27.3	20.3	19.5	38.3
LE_0307	307	0.0 to <5.0	0.39	4.73	1.63	40.0	24.8	30.4	19.2	45.1
BF_2776	2709	0.0 to <5.0	0.03	16.07	2.82	42.9	29.3	32.9	27.7	53.1
SS_0446	443	0.0 to <5.0	0.17	7.97	3.01	42.4	31.7	29.0	28.8	46.0
WI_0418	0									
RD_0312	0									
LE_0307	0									
BF_2776	67	5.0 to <99.0	3.61	18.2	10.29	35.4	29.5	27.4	28.3	44.5
SS_0446	3	5.0 to <99.0	5.35	7.13	6.19	21.3	11.7	9.0	6.1	21.5
WI_0418	0									
RD_0312	0									
LE_0307	0									
BF_2776	66	5.0 to <10.0	3.61	18.15	10.17	34.2	27.5	25.9	26.7	44.7
SS_0446	3	5.0 to <10.0	5.35	7.13	6.19	21.3	11.7	9.0	6.1	21.5
WI_0418	0									
RD_0312	0									
LE_0307	0									
BF_2776	1	10.0 to <20.0	18.2	18.2	18.2	0.1	0.1	0.1	0.1	0.1
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_P, SS=BIGC-S-SG

Performance (STRESS values) for Small Colour Difference data (SCD)

data set	Calculations with data for grey backgrounds (chromaticity near D65)									
	Colour difference ΔE^*_{LABJND}					Colour difference formula and STRESS value				
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	51.7	35.0	31.6	30.1	55.1
RD_0312	312	0.0 to <99.0	0.77	4.4	1.43	33.4	27.3	20.3	19.5	38.3
LE_0307	307	0.0 to <99.0	0.39	4.73	1.63	40.0	24.8	30.4	19.2	45.1
BF_2776	2776	0.0 to <99.0	0.03	18.2	3.0	42.4	30.6	33.7	29.5	52.9
SS_0446	446	0.0 to <99.0	0.17	7.97	3.03	42.1	31.7	28.7	29.3	45.8
WI_0418	189	0.0 to <5.0	0.11	4.39	1.11	54.9	34.8	33.7	32.2	53.4
RD_0312	87	0.0 to <5.0	0.79	4.4	1.56	36.1	18.7	13.2	16.0	23.7
LE_0307	86	0.0 to <5.0	0.39	2.5	1.39	44.7	22.9	24.8	20.6	30.5
BF_2776	851	0.0 to <5.0	0.03	6.06	1.09	51.7	31.2	30.2	28.2	48.1
SS_0446	90	0.0 to <5.0	0.17	5.15	1.44	56.2	43.9	37.5	38.1	35.7
WI_0418	229	5.0 to <99.0	0.59	10.62	2.48	49.3	34.0	28.3	28.8	49.3
RD_0312	225	5.0 to <99.0	0.77	3.64	1.38	31.2	29.7	20.6	20.6	26.0
LE_0307	221	5.0 to <99.0	0.52	4.73	1.72	38.5	24.8	29.2	18.6	35.5
BF_2776	1925	5.0 to <99.0	0.55	18.2	3.84	41.6	30.2	33.2	29.3	51.5
SS_0446	356	5.0 to <99.0	0.65	7.97	3.43	39.2	28.2	24.4	25.8	42.5
WI_0418	132	5.0 to <10.0	0.59	6.68	2.3	50.1	31.9	28.2	30.5	43.8
RD_0312	171	5.0 to <10.0	0.77	3.64	1.33	29.5	29.0	19.0	20.3	17.9
LE_0307	94	5.0 to <10.0	0.52	3.67	1.49	46.3	23.3	23.7	19.6	32.3
BF_2776	799	5.0 to <10.0	0.55	12.92	2.66	44.5	28.1	25.7	22.5	41.8
SS_0446	173	5.0 to <10.0	0.65	7.27	2.97	44.8	33.5	26.0	27.9	29.5
WI_0418	87	10.0 to <20.0	1.08	10.62	2.67	49.0	36.3	26.8	27.6	41.9
RD_0312	54	10.0 to <20.0	0.93	3.21	1.56	32.5	25.3	16.7	21.2	11.5
LE_0307	110	10.0 to <20.0	0.92	3.66	1.75	32.7	21.8	24.7	16.0	19.8
BF_2776	617	10.0 to <20.0	0.93	14.39	3.92	40.7	27.3	26.5	24.1	46.4
SS_0446	154	10.0 to <20.0	1.45	7.94	3.55	37.2	26.8	21.3	24.2	35.2
WI_0418	10	20.0 to <99.0	2.12	5.67	3.34	45.3	33.0	16.3	19.8	30.0
RD_0312	0									
LE_0307	17	20.0 to <99.0	1.89	4.73	2.77	32.2	19.7	21.1	14.0	13.0
BF_2776	509	20.0 to <99.0	2.0	18.2	5.6	40.4	31.1	32.9	32.4	38.9
SS_0446	29	20.0 to <99.0	2.7	7.97	5.59	19.3	12.2	13.2	14.4	30.8
WI_0418	10	20.0 to <99.0	2.12	5.67	3.34	45.3	33.0	16.3	19.8	30.0
RD_0312	0									
LE_0307	17	20.0 to <99.0	1.89	4.73	2.77	32.2	19.7	21.1	14.0	13.0
BF_2776	509	20.0 to <99.0	2.0	18.2	5.6	40.4	31.1	32.9	32.4	38.9
SS_0446	29	20.0 to <99.0	2.7	7.97	5.59	19.3	12.2	13.2	14.4	30.8

data sets: WI=WITT, RD=RIT-DUPONT, LE=LEEDS, BF=BFD_P, SS=BIGC-S-SG