

Performance (STRESS values) for threshold colour difference data (TCD)

dataset	Calculations with data for grey surrounds (D65, P40) and 0,1 < Y < 190						Colour difference formula and STRESS value			
	Difference ΔE^*_{CIELAB}									
Name	Pairs	ΔE^*_{ab} range	min	max	mean	CIELAB	CMC	CIE94	CIEDE2000	LABJND
RI_0330	330	0.0 to <99.0	0.05	4.85	0.9	61.0	50.0	47.7	52.4	30.2
KI_0392	392	0.0 to <99.0	0.09	2.09	0.41	57.1	57.5	49.8	50.3	48.6
AV_0132	132	0.0 to <99.0	0.17	2.29	0.75	47.8	34.0	47.4	43.9	53.6
RI_0330	330	0.0 to <5.0	0.05	4.85	0.9	61.0	50.0	47.7	52.4	30.2
KI_0392	392	0.0 to <5.0	0.09	2.09	0.41	57.1	57.5	49.8	50.3	48.6
AV_0132	132	0.0 to <5.0	0.17	2.29	0.75	47.8	34.0	47.4	43.9	53.6
RI_0330	87	0.0 to <0.5	0.05	0.49	0.23	60.1	49.5	47.8	48.2	23.7
KI_0392	294	0.0 to <0.5	0.09	0.49	0.28	54.1	54.4	48.6	46.8	53.6
AV_0132	41	0.0 to <0.5	0.17	0.49	0.34	58.1	28.8	59.2	54.1	47.7
RI_0330	137	0.5 to <1.0	0.5	0.99	0.76	56.3	42.7	41.3	42.6	21.5
KI_0392	81	0.5 to <1.0	0.5	0.99	0.7	37.1	28.8	26.3	30.1	30.9
AV_0132	56	0.5 to <1.0	0.5	0.96	0.71	55.3	27.0	57.6	50.7	50.0
RI_0330	67	1.0 to <1.5	1.01	1.46	1.18	63.1	51.3	49.3	50.6	23.8
KI_0392	12	1.0 to <1.5	1.0	1.48	1.22	36.5	32.6	28.2	33.6	35.9
AV_0132	28	1.0 to <1.5	1.0	1.47	1.17	58.7	23.4	58.7	53.8	46.8
RI_0330	14	1.5 to <2.0	1.5	1.89	1.69	69.5	50.9	43.0	45.0	15.8
KI_0392	4	1.5 to <2.0	1.61	1.76	1.67	18.6	31.8	29.5	36.2	26.5
AV_0132	5	1.5 to <2.0	1.51	1.96	1.7	17.8	8.4	17.8	5.2	4.5
RI_0330	25	2.0 to <5.0	2.0	4.85	2.73	67.6	50.1	39.0	40.5	13.9
KI_0392	1	2.0 to <5.0	2.09	2.09	2.09	0.1	0.1	0.1	0.1	0.1
AV_0132	2	2.0 to <5.0	2.07	2.29	2.18	5.0	2.0	5.0	1.9	1.7

datasets: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS

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dataset	Calculations with data for grey surrounds (D65, P40) and 0,1 < Y < 190						Colour difference formula and STRESS value				
	Difference $\Delta E^*_{CIEDE2000}$										
Name	Pairs	ΔE^*_{C00} range	min	max	mean	CIELAB	CMC	CIE94	CIEDE2000	LABJND	
RI_0330	330	0.0 to <99.0	0.05	4.85	0.9	61.0	50.0	47.7	52.4	30.2	
KI_0392	392	0.0 to <99.0	0.09	2.09	0.41	57.1	57.5	49.8	50.3	48.6	
AV_0132	132	0.0 to <99.0	0.17	2.29	0.75	47.8	34.0	47.4	43.9	53.6	
RI_0330	330	0.0 to <5.0	0.05	4.85	0.9	61.0	50.0	47.7	52.4	30.2	
KI_0392	392	0.0 to <5.0	0.09	2.09	0.41	57.1	57.5	49.8	50.3	48.6	
AV_0132	132	0.0 to <5.0	0.17	2.29	0.75	47.8	34.0	47.4	43.9	53.6	
RI_0330	144	0.0 to <0.5	0.05	1.54	0.49	56.3	42.1	40.5	42.1	21.0	
KI_0392	338	0.0 to <0.5	0.09	2.09	0.34	55.6	55.5	48.8	48.0	51.0	
AV_0132	71	0.0 to <0.5	0.17	0.96	0.5	54.2	26.7	56.5	48.3	52.0	
RI_0330	128	0.5 to <1.0	0.49	3.78	1.23	57.5	43.4	41.5	42.0	22.1	
KI_0392	51	0.5 to <1.0	0.41	1.76	0.84	41.2	30.8	28.3	30.8	32.8	
AV_0132	49	0.5 to <1.0	0.49	2.29	0.99	55.3	28.0	57.7	51.9	47.1	
RI_0330	55	1.0 to <1.5	0.69	4.85	1.17	68.7	44.1	36.8	38.9	25.1	
KI_0392	2	1.0 to <1.5	1.13	1.63	1.38	17.7	8.4	14.0	12.2	5.0	
AV_0132	12	1.0 to <1.5	1.03	1.96	1.29	36.7	16.6	36.7	17.5	14.0	
RI_0330	3	1.5 to <2.0	1.13	1.75	1.41	10.3	19.9	19.0	19.7	9.7	
KI_0392	1	1.5 to <2.0	1.39	1.39	1.39	0.1	0.1	0.1	0.1	0.1	
AV_0132	0										
RI_0330	0										
KI_0392	0										
AV_0132	0										

datasets: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS

Performance (STRESS values) for threshold colour difference data (TCD)

dataset	Calculations with data for grey surrounds (D65, P40) and 0,1 < Y < 190						Colour difference formula and STRESS value				
	Difference ΔE^*_{LABJND}										
Name	Pairs	ΔE^*_{C85} range	min	max	mean	CIELAB	CMC	CIE94	CIEDE2000	LABJND	
RI_0330	330	0.0 to <99.0	0.05	4.85	0.9	61.0	50.0	47.7	52.4	30.2	
KI_0392	392	0.0 to <99.0	0.09	2.09	0.41	57.1	57.5	49.8	50.3	48.6	
AV_0132	132	0.0 to <99.0	0.17	2.29	0.75	47.8	34.0	47.4	43.9	53.6	
RI_0330	330	0.0 to <5.0	0.05	4.85	0.9	61.0	50.0	47.7	52.4	30.2	
KI_0392	391	0.0 to <5.0	0.09	2.09	0.41	57.2	57.5	49.8	50.3	48.6	
AV_0132	89	0.0 to <5.0	0.17	1.96	0.67	50.4	36.8	51.3	48.6	53.8	
RI_0330	0	0.0 to <0.5	0.09	0.25	0.16	41.1	32.2	29.8	32.3	37.7	
KI_0392	20										
AV_0132	0										
RI_0330	22	0.5 to <1.0	0.05	0.8	0.15	70.5	51.9	40.5	42.7	14.6	
KI_0392	89	0.5 to <1.0	0.14	0.51	0.27	36.6	29.0	26.6	30.2	31.0	
AV_0132	3	0.5 to <1.0	0.49	0.54	0.51	9.2	3.6	9.2	3.1	2.5	
RI_0330	70	1.0 to <1.5	0.09	1.54	0.48	61.9	50.7	48.9	50.1	23.3	
KI_0392	107	1.0 to <1.5	0.16	2.09	0.32	38.3	39.9	35.9	40.2	39.5	
AV_0132	9	1.0 to <1.5	0.22	0.68	0.42	29.3	12.3	29.3	6.0	6.5	
RI_0330	109	1.5 to <2.0	0.14	4.85	0.87	58.3	45.8	43.8	44.3	22.8	
KI_0392	81	1.5 to <2.0	0.16	1.2	0.37	37.1	28.8	26.3	30.1	30.9	
AV_0132	20	1.5 to <2.0	0.17	1.18	0.57	50.3	18.0	50.3	41.4	34.6	
RI_0330	129	2.0 to <5.0	0.19	3.78	1.27	57.4	43.4	41.6	42.1	22.0	
KI_0392	94	2.0 to <5.0	0.19	1.76	0.73	37.1	28.9	27.5	30.0	31.4	
AV_0132	57	2.0 to <5.0	0.22	1.96	0.75	55.1	26.9	57.4	50.3	50.1	

datasets: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS