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Cod.	i	[X, Y, Z, x, y] ₁₀₀	[L*, a*, b*, C _{ab} [*] , h _{ab} [*] , a', b', c' _{ab} ¹⁰⁰]	[Y, A, B, C _{AB} [*] , h _{AB} [*] , a, b, c _{AB} ¹⁰⁰]	[i _d , e, i, λ _d , λ _e , λ _c] ₁₀₀	[X, Y, Z] ₈₉	[L*, a*, b*, C _{ab} [*] , h _{ab} [*] , a', b', c' _{ab} ⁸⁹]	[Y, A, B, C _{AB} [*] , h _{AB} [*] , a, b, c _{AB} ⁸⁹]
0099-R00B	00	27.2 11.6 1.4	0.677 0.289	40.6 85.6 50.8 99.6 30.7 0.291	-0.102 0.136	24.1 10.3 1.2	38.3 82.3 48.8 95.6 30.7	10.3 14.3 4.0 14.9 15.5
0099-Y95R	01	29.8 13.2 0.4	0.687 0.305	43.1 85.0 69.3 109.6 39.2 0.287	-0.061 0.169	26.4 11.7 0.3	40.7 81.6 65.8 104.9 38.9	11.7 15.3 5.0 16.0 18.0
0099-Y90R	02	32.3 15.0 0.0	0.683 0.317	45.6 83.2 78.7 114.5 43.4 0.283	0.0 0.226	28.6 13.3 0.0	43.2 79.9 74.5 109.3 43.0	13.3 16.0 5.8 17.0 19.9
0099-Y85R	03	34.4 16.9 0.0	0.671 0.329	48.1 80.2 82.9 115.4 46.0 0.278	0.0 0.225	30.5 15.0 0.0	45.6 77.0 78.6 110.0 45.6	15.0 16.3 6.5 17.5 21.8
0099-Y80R	04	36.3 18.8 0.0	0.659 0.341	50.5 76.4 86.7 115.6 48.6 0.273	-0.02 0.203	32.1 16.7 0.0	47.8 73.4 82.2 110.2 48.2	16.7 16.3 7.2 17.9 23.9
0099-Y75R	05	38.2 20.7 0.1	0.647 0.352	52.7 73.0 89.5 115.5 50.8 0.269	-0.033 0.189	33.8 18.4 0.1	49.9 70.1 85.0 110.2 50.5	18.4 16.4 8.0 18.2 25.9
0099-Y70R	06	40.0 22.7 0.0	0.638 0.362	54.8 69.8 94.4 117.4 53.5 0.265	0.0 0.221	35.4 20.1 0.0	52.0 67.1 89.6 111.9 53.2	20.1 16.3 8.7 18.5 28.2
0099-Y65R	07	41.7 24.7 0.0	0.628 0.372	56.8 66.5 97.8 118.3 55.8 0.261	0.0 0.22	36.9 21.9 0.0	53.9 63.9 92.9 112.7 55.5	21.9 16.2 9.5 18.8 30.4
0099-Y60R	08	43.2 26.7 0.0	0.618 0.382	58.7 62.7 101.2 119.0 58.2 0.257	0.0 0.22	38.3 23.7 0.0	55.7 60.2 96.1 113.4 57.9	23.7 15.8 10.3 18.9 33.0
0099-Y55R	09	44.6 28.9 0.1	0.607 0.392	60.6 58.4 103.9 119.2 60.6 0.254	-0.024 0.194	39.5 25.6 0.0	57.6 56.1 98.7 113.5 60.4	25.6 15.3 11.1 18.9 36.0
0099-Y50R	10	46.2 31.2 0.1	0.596 0.403	62.7 54.1 107.1 119.9 63.2 0.25	-0.026 0.191	40.9 27.6 0.1	59.6 51.9 101.8 114.3 63.0	27.6 14.7 12.0 18.9 39.3
0099-Y45R	11	48.1 33.9 0.1	0.586 0.413	64.9 50.0 110.8 121.6 65.7 0.246	-0.026 0.192	42.6 30.0 0.1	61.7 48.0 105.4 115.8 65.5	30.0 14.1 13.0 19.2 42.8
0099-Y40R	12	50.4 37.0 0.1	0.576 0.423	67.3 46.0 115.3 124.1 68.3 0.243	-0.022 0.195	44.7 32.8 0.0	64.0 44.2 109.7 118.2 68.1	32.8 13.6 14.2 19.7 46.4
0099-Y35R	13	53.3 40.7 0.1	0.566 0.433	70.0 41.9 119.3 126.5 70.7 0.24	-0.026 0.19	47.2 36.0 0.1	66.6 40.2 113.6 120.5 70.5	36.0 13.0 15.7 20.3 50.4
0099-Y30R	14	56.3 44.8 0.1	0.557 0.443	72.8 37.5 124.3 129.8 73.2 0.237	-0.024 0.191	49.9 39.7 0.1	69.2 36.0 118.4 123.7 73.1	39.7 12.2 17.2 21.1 54.7
0099-Y25R	15	59.4 49.3 0.1	0.546 0.453	75.6 32.6 128.7 132.8 75.8 0.233	-0.027 0.188	52.6 43.7 0.1	72.0 31.3 122.6 126.6 75.7	43.7 11.1 19.0 22.0 59.6
0099-Y20R	16	63.0 54.8 0.1	0.534 0.465	78.9 27.0 134.9 137.6 78.7 0.23	-0.023 0.192	55.8 48.5 0.1	75.2 25.9 128.6 131.2 78.6	48.5 9.7 21.1 23.2 65.3
0099-Y15R	17	67.3 61.6 0.2	0.522 0.477	82.7 20.5 140.1 141.6 81.7 0.226	-0.028 0.187	59.6 54.5 0.2	78.8 19.6 133.7 135.1 81.6	54.5 7.8 23.7 24.9 71.7
0099-Y10R	18	70.7 68.0 0.3	0.508 0.489	86.0 13.5 143.8 144.5 84.7 0.222	-0.034 0.181	62.6 60.2 0.3	82.0 12.9 137.4 138.0 84.6	60.2 5.4 26.1 26.7 78.3
0099-Y05R	19	71.8 72.4 0.5	0.496 0.5	88.2 6.5 144.9 145.0 87.4 0.219	-0.039 0.176	63.6 64.2 0.4	84.1 6.3 138.6 138.7 87.4	64.2 2.7 27.7 27.9 84.5
0099-Y00R	20	70.8 74.5 0.7	0.485 0.51	89.2 0.1 143.7 143.7 90.0 0.215	-0.043 0.172	62.7 66.0 0.6	85.0 0.1 137.7 137.7 90.0	66.0 0.0 28.5 28.5 89.9
0099-G95Y	21	68.0 74.4 0.8	0.475 0.519	89.1 -5.5 141.7 141.8 92.3 0.213	-0.046 0.169	63.4 -2.5 32.0	84.6 0.915 -0.003 0.432	33 14 569 470
0099-G90Y	22	64.7 73.1 0.8	0.467 0.527	88.5 -10.4 140.5 140.9 94.3 0.21	-0.046 0.169	73.1 -4.6 31.5	88.6 0.885 -0.004 0.435	33 13 568 468
0099-G85Y	23	61.7 71.8 0.9	0.459 0.534	87.9 -14.6 138.5 139.2 96.1 0.208	-0.048 0.167	71.8 -6.4 30.9	88.6 0.885 -0.004 0.435	33 13 567 465
0099-G80Y	24	58.8 70.3 0.8	0.453 0.541	87.1 -18.3 138.4 139.6 97.6 0.207	-0.047 0.168	70.3 -7.8 30.3	88.6 0.885 -0.004 0.435	33 12 566 463
0099-G75Y	25	55.8 68.4 0.6	0.447 0.548	86.2 -21.6 140.2 141.8 98.8 0.205	-0.042 0.173	68.4 -9.0 29.5	88.6 0.885 -0.004 0.435	33 12 565 460
0099-G70Y	26	52.6 66.0 0.6	0.441 0.554	85.0 -24.5 138.4 140.6 100.1 0.203	-0.042 0.173	66.0 -10.0 28.5	88.6 0.885 -0.004 0.435	33 11 564 456
0099-G65Y	27	49.2 63.2 0.6	0.435 0.559	83.6 -27.4 135.8 138.5 101.4 0.202	-0.043 0.172	63.2 -10.7 27.3	88.6 0.885 -0.004 0.435	33 10 563 451
0099-G60Y	28	45.5 60.0 0.7	0.429 0.565	81.8 -30.2 131.8 135.2 103.0 0.2	-0.045 0.17	60.0 -11.3 25.8	88.6 0.885 -0.004 0.435	33 8 563 443
0099-G55Y	29	41.5 56.2 0.5	0.422 0.573	79.8 -33.3 130.1 134.3 104.4 0.198	-0.043 0.173	56.2 -11.8 24.3	88.6 0.885 -0.004 0.435	32 5 562 427
0099-G50Y	30	37.1 52.2 0.4	0.414 0.582	77.4 -36.8 127.4 132.7 106.2 0.196	-0.041 0.175	52.2 -12.3 22.5	88.6 0.885 -0.004 0.435	32 -1 560 560
0099-G45Y	31	32.8 48.2 0.4	0.403 0.592	75.0 -40.1 123.4 130.0 108.4 0.193	-0.042 0.174	48.2 -12.9 20.8	88.6 0.885 -0.004 0.435	31 -1 559 559
0099-G40Y	32	28.6 44.5 0.4	0.389 0.606	72.6 -46.4 119.8 128.5 111.2 0.189	-0.041 0.175	44.5 -13.5 19.2	88.6 0.885 -0.004 0.435	31 -1 557 557
0099-G35Y	33	24.6 41.3 0.3	0.372 0.624	70.4 -53.4 117.7 129.3 114.4 0.184	-0.037 0.18	41.3 -14.5 17.8	88.6 0.885 -0.004 0.435	31 -1 554 554
0099-G30Y	34	20.9 38.5 0.3	0.35 0.645	68.4 -61.8 113.3 129.1 118.6 0.179	-0.041 0.177	38.5 -15.6 16.6	88.6 0.885 -0.004 0.435	31 -1 551 551
0099-G25Y	35	17.5 36.2 0.6	0.322 0.667	66.7 -71.9 106.1 128.2 124.2 0.172	-0.053 0.168	36.2 -16.8 15.5	88.6 0.885 -0.004 0.435	29 -1 547 547
0099-G20Y	36	13.9 34.3 0.6	0.285 0.703	65.2 -86.4 103.7 135.0 129.9 0.162	-0.054 0.17	34.3 -18.6 14.7	88.6 0.885 -0.004 0.435	29 -1 542 542
0099-G15Y	37	10.0 32.8 0.6	0.231 0.755	64.0 -108.2 102.0 148.8 136.7 0.148	-0.054 0.175	32.8 -21.0 14.0	88.6 0.885 -0.004 0.435	27 -1 535 535
0099-G10Y	38	6.7 31.5 2.2	0.166 0.781	62.9 -133.6 82.0 156.8 148.5 0.131	-0.085 0.155	31.5 -23.1 12.8	88.6 0.885 -0.004 0.435	25 -1 525 525
0099-G05Y	39	4.6 30.4 6.0	0.113 0.741	62.0 -155.5 58.4 164.3 159.2 0.117	-0.121 0.136	30.4 -24.2 10.8	88.6 0.885 -0.004 0.435	22 -1 514 514
0099-G00Y	40	3.7 29.5 11.7	0.083 0.668	61.2 -163.1 38.2 167.6 166.8 0.11	-0.153 0.123	29.5 -24.2 8.2	88.6 0.885 -0.004 0.435	21 -1 505 505
0099-B95G	41	3.7 28.8 18.4	0.073 0.565	60.6 -159.9 21.3 161.4 172.4 0.111	-0.18 0.111	28.8 -23.5 5.1	88.6 0.885 -0.004 0.435	21 -1 499 499
0099-B90G	42	4.6 28.2 24.5	0.08 0.492	60.1 -145.6 9.4 146.0 176.3 0.12	-0.199 0.098	28.2 -22.1 2.5	88.6 0.885 -0.004 0.435	21 -1 495 495
0099-B85G	43	5.2 27.9 28.5	0.085 0.452	59.8 -136.2 2.7 136.3 178.9 0.126	-0.21 0.091	27.9 -21.1 0.7	88.6 0.885 -0.004 0.435	21 -1 493 493
0099-B80G	44	5.4 27.7 31.3	0.084 0.43	59.6 -133.4 1.6 133.5 180.7 0.127	-0.217 0.089	27.7 -20.8 0.4	88.6 0.885 -0.004 0.435	21 -1 491 491
0099-B75G	45	5.7 27.6 34.0	0.085 0.41	59.5 -129.7 5.5 129.9 182.5 0.13	-0.224 0.087	27.6 -20.4 1.5	88.6 0.885 -0.004 0.435	21 -1 490 490
0099-B70G	46	6.2 27.5 36.7	0.088 0.391	59.4 -123.7 9.1 124.1 184.3 0.133	-0.23 0.084	27.5 -19.8 2.6	88.6 0.885 -0.004 0.435	21 -1 489 489
0099-B65G	47	6.6 27.5 39.5	0.09 0.373	59.4 -119.0 12.6 119.8 186.1 0.136	-0.236 0.082	27.5 -19.3 3.8	88.6 0.885 -0.004 0.435	21 -1 488 488
0099-B60G	48	7.1 27.4 42.4	0.092 0.356	59.3 -114.0 16.1 115.2 188.1 0.14	-0.241 0.081	27.4 -18.8 4.9	88.6 0.885 -0.004 0.435	21 47 488 637
0099-B55G	49	7.5 27.3 45.3	0.094 0.341	59.2 -109.3 19.5 111.2 190.2 0.143	-0.247 0.08	27.3 -18.3 6.1	88.6 0.885 -0.004 0.435	21 42 487 614
0099-B50G	50	8.0 27.0 48.1	0.096 0.325	59.0 -104.3 23.0 106.9 192.5 0.146	-0.253 0.08	27.0 -17.6 7.4	88.6 0.885 -0.004 0.435	21 40 486 604
0099-B45G	51	8.4 26.6 50.7	0.098 0.31	58.9 -98.9 26.4 102.5 195.0 0.149	-0.259 0.08	26.6 -16.8 8.6	88.6 0.885 -0.004 0.435	21 39 485 598
0099-B40G	52	8.8 26.0 53.3	0.099 0.295	58.0 -93.2 29.9 98.0 197.9 0.152	-0.265 0.081	26.0 -15.8 9.9	88.6 0.885 -0.004 0.435	21 38 484 593
0099-B35G	53	9.1 25.4 56.1	0.1 0.28	57.4 -87.7 33.7 94.1 201.1 0.156	-0.272 0.084	25.4 -14.9 11.3	88.6 0.885 -0.004 0.435	21 37 483 589
0099-B30G	54	9.4 24.6 59.0						

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Cod.	i	[X, Y, Z, x, y] ₁₀₀	[L*, a*, b*, C*, h _{ab} , a', b', c', c _{ab}] ₁₀₀	[Y, A, B, C _{AB} , h _{AB} , a, b, c _{AB}] ₁₀₀	[i _a ', i _c ', λ _a ', λ _c '] ₁₀₀	[X, Y, Z] ₈₉	[L*, a*, b*, C*, h _{ab}] ₈₉	[Y, A, B, C _{AB} , h _{AB}] ₈₉	
9900-W99N	80	0.7 0.8 0.9	0.312 0.329	7.0 0.0 0.0 0.0 227.8 0.215 -0.215 0.01	0.8 0.0 0.0 0.0 229.9 0.949 -0.435 0.01	16 36 481 583	0.7 0.7 0.8	6.2 0.0 0.0 0.0 227.8	0.7 0.0 0.0 0.0 229.7
9500-W95N	81	2.4 2.5 2.8	0.312 0.329	18.1 0.0 0.0 0.0 164.0 0.215 -0.214 0.01	2.5 0.0 0.0 0.0 160.6 0.949 -0.434 0.01	20 -1 504 504c	2.1 2.2 2.4	16.7 0.0 0.0 0.0 164.0	2.2 0.0 0.0 0.0 160.5
9000-W90N	82	4.2 4.4 4.8	0.313 0.329	25.0 0.0 0.0 0.0 329.0 0.215 -0.215 0.01	4.4 0.0 0.0 0.0 326.1 0.95 -0.434 0.01	-1 27 537c 537	3.7 3.9 4.2	23.3 0.0 0.0 0.0 329.0	3.9 0.0 0.0 0.0 326.2
8500-W85N	83	6.1 6.4 7.0	0.313 0.329	30.4 0.0 0.0 0.1 325.8 0.215 -0.215 0.01	6.4 0.0 0.0 0.0 322.4 0.95 -0.435 0.01	-1 28 542c 542	5.4 5.7 6.2	28.6 0.0 0.0 0.1 325.8	5.7 0.0 0.0 0.0 322.5
8000-W80N	84	8.1 8.6 9.3	0.313 0.329	35.1 0.0 0.0 0.0 318.5 0.215 -0.215 0.01	8.6 0.0 0.0 0.0 314.9 0.95 -0.434 0.01	-1 30 550c 550	7.2 7.6 8.3	33.1 0.0 0.0 0.0 318.5	7.6 0.0 0.0 0.0 315.0
7500-W75N	85	10.4 10.9 11.9	0.313 0.329	39.4 0.1 0.0 0.1 351.1 0.216 -0.214 0.01	10.9 0.0 0.0 0.0 350.1 0.95 -0.434 0.01	-1 19 497c 497	9.2 9.7 10.5	37.2 0.1 0.0 0.1 351.1	9.7 0.0 0.0 0.0 350.1
7000-W70N	86	12.8 13.4 14.6	0.313 0.329	43.4 0.1 0.0 0.1 331.0 0.215 -0.215 0.01	13.4 0.0 0.0 0.0 327.7 0.95 -0.434 0.01	-1 26 533c 533	11.3 11.9 12.9	41.0 0.1 0.0 0.1 331.0	11.9 0.0 0.0 0.0 327.8
6500-W65N	87	15.4 16.1 17.6	0.313 0.329	47.2 0.1 0.0 0.1 342.8 0.216 -0.215 0.01	16.1 0.0 0.0 0.0 340.6 0.95 -0.434 0.01	-1 21 506c 506	13.6 14.3 15.6	44.7 0.1 0.0 0.1 342.8	14.3 0.0 0.0 0.0 340.6
6000-W60N	88	18.2 19.1 20.8	0.313 0.329	50.8 0.1 0.0 0.1 334.8 0.216 -0.215 0.01	19.1 0.0 0.0 0.0 331.8 0.95 -0.435 0.01	-1 24 523c 523	16.1 16.9 18.5	48.2 0.1 0.0 0.1 334.8	16.9 0.0 0.0 0.0 331.8
5500-W55N	89	21.3 22.4 24.4	0.313 0.329	54.4 0.1 0.0 0.1 344.2 0.216 -0.214 0.01	22.4 0.0 0.0 0.0 342.1 0.95 -0.434 0.01	-1 20 504c 504	18.9 19.8 21.6	51.7 0.1 0.0 0.1 344.2	19.8 0.0 0.0 0.0 342.1
5000-W50N	90	24.7 26.0 28.3	0.313 0.329	58.0 0.1 0.0 0.2 339.5 0.216 -0.215 0.01	26.0 0.0 0.0 0.0 336.9 0.951 -0.435 0.01	-1 22 512c 512	21.9 23.0 25.0	55.1 0.1 0.0 0.1 339.5	23.0 0.0 0.0 0.0 336.9
4500-W45N	91	28.4 29.9 32.6	0.313 0.329	61.6 0.1 0.0 0.1 337.4 0.216 -0.215 0.01	29.9 0.0 0.0 0.0 334.6 0.951 -0.435 0.01	-1 23 517c 517	25.2 26.5 28.9	58.5 0.1 0.0 0.1 337.4	26.5 0.0 0.0 0.0 334.6
4000-W40N	92	32.6 34.3 37.3	0.313 0.329	65.2 0.1 0.0 0.1 340.2 0.216 -0.215 0.01	34.3 0.0 0.0 0.0 337.6 0.95 -0.434 0.01	-1 22 511c 511	28.9 30.4 33.1	62.0 0.1 0.0 0.1 340.2	30.4 0.0 0.0 0.0 337.6
3500-W35N	93	37.2 39.2 42.7	0.313 0.329	68.9 0.1 0.0 0.1 338.0 0.216 -0.215 0.01	39.2 0.0 0.0 0.0 335.2 0.95 -0.435 0.01	-1 23 515c 515	33.0 34.7 37.8	65.5 0.1 0.0 0.1 338.0	34.7 0.0 0.0 0.0 335.2
3000-W30N	94	42.4 44.7 48.6	0.313 0.329	72.7 0.1 0.0 0.2 341.0 0.216 -0.215 0.01	44.7 0.0 0.0 0.1 338.5 0.951 -0.434 0.01	-1 21 509c 509	37.6 39.6 43.1	69.2 0.1 0.0 0.2 341.0	39.6 0.0 0.0 0.0 338.5
2500-W25N	95	48.3 50.8 55.4	0.313 0.329	76.6 0.1 0.0 0.2 336.2 0.216 -0.215 0.01	50.8 0.1 0.0 0.1 333.2 0.95 -0.435 0.01	-1 24 520c 520	42.8 45.0 49.0	72.9 0.1 0.0 0.2 336.2	45.0 0.0 0.0 0.1 333.2
2000-W20N	96	55.0 57.9 63.1	0.313 0.329	80.7 0.2 0.0 0.2 338.8 0.216 -0.215 0.01	57.9 0.1 0.0 0.1 336.0 0.95 -0.435 0.01	-1 22 514c 514	48.8 51.3 55.9	76.9 0.1 0.0 0.2 338.8	51.3 0.1 0.0 0.1 336.0
1500-W15N	97	62.8 66.0 71.9	0.313 0.329	85.0 0.2 0.0 0.2 339.6 0.216 -0.215 0.01	66.0 0.1 0.0 0.1 336.9 0.95 -0.434 0.01	-1 22 512c 512	55.6 58.5 63.7	81.0 0.2 0.0 0.2 339.6	58.5 0.1 0.0 0.1 337.0
1000-W10N	98	71.7 75.5 82.2	0.313 0.329	89.6 0.2 0.0 0.2 338.8 0.216 -0.215 0.01	75.5 0.1 0.0 0.1 336.1 0.95 -0.435 0.01	-1 22 513c 513	63.6 66.9 72.8	85.4 0.2 0.0 0.2 338.8	66.9 0.1 0.0 0.1 336.1
0500-W05N	99	82.3 86.6 94.3	0.313 0.329	94.6 0.2 0.0 0.2 338.5 0.216 -0.215 0.01	86.6 0.1 0.0 0.1 335.7 0.95 -0.435 0.01	-1 22 514c 514	72.9 76.7 83.5	90.2 0.2 0.0 0.2 338.5	76.7 0.1 0.0 0.1 335.7
0000-W00N	100	94.9 99.9 108.8	0.313 0.329	100.0 0.2 0.0 0.2 338.2 0.216 -0.215 0.01	99.9 0.1 0.0 0.1 335.4 0.95 -0.435 0.01	-1 23 515c 515	84.1 88.5 96.4	95.4 0.2 0.0 0.2 338.2	88.5 0.1 0.0 0.1 335.4

TE030-7, NCS colours, normalized: Yn = Yw = 100

TUB-test chart TE03; ; CIE data: hue circle and greys

Calculated from XYZ of NCS-Standard SS019104:1998, 3D=0, data transfer to rgb_dinput: w/rgb/cmyk -> rgb_doutput: transfer to rgb_dTUB registration: 20130201-TE03/TE03L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta