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TLS00 Reflection colorimetry, System WCGa, L*ABJND-L*ABCh, Y_N=0.0, L*_N=0.0, Y_W=88.6

Colour	r	g	b	X	Y	Z	x	y
R _d	1.0	0.0	0.0	29.02(±29.02+0.0)	16.25(±16.25+0.0)	4.27(±4.27+0.0)	0.5858	0.328
Y _d	1.0	1.0	0.0	63.74(±63.74+0.0)	72.68(±72.69+0.0)	8.28(±8.28+0.0)	0.4405	0.5023
G _d	1.0	1.0	0.0	8.54(±8.54+0.0)	20.06(±20.06+0.0)	9.58(±9.59+0.0)	0.2236	0.5253
C _d	0.0	1.0	1.0	18.75(±18.75+0.0)	26.28(±26.28+0.0)	69.02(±69.02+0.0)	0.1644	0.2304
B _d	0.0	1.0	0.0	6.23(±6.23+0.0)	4.52(±4.52+0.0)	22.66(±22.66+0.0)	0.1865	0.1353
M _d	1.0	0.0	1.0	32.47(±32.47+0.0)	16.96(±16.96+0.0)	23.05(±23.05+0.0)	0.448	0.234
N _{0d}	0.0	0.0	0.0	0.02(±0.02+0.0)	0.02(±0.02+0.0)	0.02(±0.02+0.0)	0.3328	0.3328
W _{0d}	1.0	1.0	1.0	84.21(±84.21+0.0)	88.6(±88.6+0.0)	96.48(±96.48+0.0)	0.3127	0.329
N1 _d	0.0	0.0	0.0	0.02(±0.02+0.0)	0.02(±0.02+0.0)	0.02(±0.02+0.0)	0.3328	0.3328
W1 _d	1.13	1.13	1.13	95.05(±95.05+0.0)	100(±100.0+0.0)	108.9(±108.9+0.0)	0.3127	0.329
Z1 _d	0.18	0.18	0.18	17.12(±17.12+0.0)	18.01(±18.01+0.0)	19.61(±19.61+0.0)	0.3127	0.329

TLS06 Reflection colorimetry, System WCGa, L*ABJND-L*ABCh, Y_N=0.63, L*_N=5.69, Y_W=88.6

Colour	r	g	b	X	Y	Z	x	y
R _d	1.0	0.0	0.0	29.4(±28.8+0.6)	16.75(±16.12+0.63)	4.92(±4.23+0.69)	0.5757	0.328
Y _d	1.0	1.0	0.0	63.89(±63.29+0.6)	72.82(±72.17+0.63)	8.9(±8.21+0.69)	0.4388	0.5001
G _d	0.0	1.0	0.0	9.07(±8.47+0.6)	20.54(±19.91+0.63)	10.2(±9.52+0.69)	0.2278	0.5159
C _d	0.0	1.0	1.0	19.21(±18.61+0.6)	26.71(±26.08+0.63)	69.22(±68.53+0.69)	0.1668	0.232
B _d	0.0	1.0	0.0	6.78(±6.18+0.6)	5.11(±4.48+0.63)	23.18(±22.49+0.69)	0.1933	0.1457
M _d	1.0	0.0	1.0	32.83(±32.23+0.6)	17.46(±16.83+0.63)	23.57(±22.88+0.69)	0.4445	0.2364
N _{0d}	0.0	0.0	0.0	0.61(±0.01+0.6)	0.64(±0.01+0.63)	0.7(±0.01+0.69)	0.3128	0.3282
W _{0d}	1.0	1.0	1.0	84.21(±83.61+0.6)	88.6(±87.97+0.63)	96.48(±95.79+0.69)	0.3127	0.329
N1 _d	0.0	0.0	0.0	0.61(±0.01+0.6)	0.64(±0.01+0.63)	0.7(±0.01+0.69)	0.3128	0.3282
W1 _d	1.13	1.13	1.13	94.97(±94.37+0.6)	99.92(±99.29+0.63)	108.81(±108.13+0.69)	0.3127	0.329
Z1 _d	0.18	0.18	0.18	17.59(±16.99+0.6)	18.5(±17.87+0.63)	20.15(±19.46+0.69)	0.3127	0.329

TLS11 Reflection colorimetry, System WCGa, L*ABJND-L*ABCh, Y_N=1.26, L*_N=11.0, Y_W=88.6

Colour	r	g	b	X	Y	Z	x	y
R _d	1.0	0.0	0.0	29.8(±28.6+1.2)	17.27(±16.01+1.26)	5.57(±4.2+1.37)	0.5661	0.3281
Y _d	1.0	1.0	0.0	64.03(±62.83+1.2)	72.92(±71.66+1.26)	9.52(±8.15+1.37)	0.4372	0.4978
G _d	0.0	1.0	0.0	9.61(±8.41+1.2)	21.02(±19.76+1.26)	10.81(±9.44+1.37)	0.2318	0.5073
C _d	0.0	1.0	1.0	19.67(±18.48+1.2)	27.16(±25.91+1.26)	69.41(±68.04+1.37)	0.1692	0.2336
B _d	0.0	1.0	0.0	7.33(±6.13+1.2)	5.71(±4.45+1.26)	23.7(±22.33+1.37)	0.1996	0.1553
M _d	1.0	0.0	1.0	33.2(±32.0+1.2)	17.97(±16.71+1.26)	24.08(±22.71+1.37)	0.4412	0.2388
N _{0d}	0.0	0.0	0.0	1.21(±0.01+1.2)	1.27(±0.01+1.26)	1.38(±0.01+1.37)	0.3135	0.329
W _{0d}	1.0	1.0	1.0	84.21(±83.01+1.2)	88.6(±87.34+1.26)	96.48(±95.11+1.37)	0.3127	0.329
N1 _d	0.0	0.0	0.0	1.21(±0.01+1.2)	1.27(±0.01+1.26)	1.38(±0.01+1.37)	0.3135	0.329
W1 _d	1.13	1.13	1.13	94.74(±93.7+1.2)	99.84(±98.58+1.26)	108.72(±107.35+1.37)	0.3127	0.329
Z1 _d	0.18	0.18	0.18	18.07(±16.87+1.2)	19.0(±17.74+1.26)	20.69(±19.32+1.37)	0.3128	0.329

TLS18 Reflection colorimetry, System WCGa, L*ABJND-L*ABCh, Y_N=2.52, L*_N=18.01, Y_W=88.6

Colour	r	g	b	X	Y	Z	x	y
R _d	1.0	0.0	0.0	30.58(±28.19+2.4)	18.3(±15.78+2.52)	6.88(±4.14+2.74)	0.5485	0.3282
Y _d	1.0	1.0	0.0	64.32(±61.93+2.4)	73.14(±70.62+2.52)	10.78(±8.03+2.74)	0.4339	0.4934
G _d	0.0	1.0	0.0	10.69(±8.29+2.4)	22.0(±19.48+2.52)	12.05(±9.3+2.74)	0.2389	0.4918
C _d	0.0	1.0	1.0	20.61(±18.21+2.4)	28.04(±25.52+2.52)	69.8(±67.06+2.74)	0.174	0.2368
B _d	0.0	1.0	0.0	8.44(±6.05+2.4)	6.9(±4.38+2.52)	24.75(±22.0+2.74)	0.2106	0.1722
M _d	1.0	0.0	1.0	33.93(±31.54+2.4)	18.99(±16.71+2.52)	25.13(±22.38+2.74)	0.4348	0.2433
N _{0d}	0.0	0.0	0.0	2.41(±0.01+2.4)	2.53(±0.01+2.52)	2.75(±0.01+2.74)	0.3134	0.329
W _{0d}	1.0	1.0	1.0	84.21(±81.82+2.4)	88.6(±86.08+2.52)	96.48(±93.74+2.74)	0.3127	0.329
N1 _d	0.0	0.0	0.0	2.41(±0.01+2.4)	2.53(±0.01+2.52)	2.75(±0.01+2.74)	0.3134	0.329
W1 _d	1.13	1.13	1.13	94.74(±92.35+2.4)	99.88(±97.16+2.52)	108.55(±105.8+2.74)	0.3127	0.329
Z1 _d	0.18	0.18	0.18	19.02(±16.63+2.4)	20.01(±17.49+2.52)	21.78(±19.04+2.74)	0.3128	0.329

TLS27 Reflection colorimetry, System WCGa, L*ABJND-L*ABCh, Y_N=5.04, L*_N=26.85, Y_W=88.6

Colour	r	g	b	X	Y	Z	x	y
R _d	1.0	0.0	0.0	32.15(±27.36+4.79)	20.36(±15.32+5.04)	9.51(±4.02+5.49)	0.5184	0.3283
Y _d	1.0	1.0	0.0	64.9(±60.11+4.79)	73.6(±68.56+5.04)	13.28(±9.78+5.49)	0.4276	0.4849
G _d	0.0	1.0	0.0	12.83(±8.04+4.79)	23.95(±18.91+5.04)	14.52(±9.04+5.49)	0.2820	0.4668
C _d	0.0	1.0	1.0	22.46(±17.67+4.79)	29.82(±24.78+5.04)	70.88(±65.15+5.49)	0.1858	0.2427
B _d	0.0	1.0	0.0	10.66(±5.87+4.79)	9.29(±4.25+5.04)	26.85(±21.36+5.49)	0.2272	0.1986
M _d	1.0	0.0	1.0	35.4(±30.61+4.79)	21.03(±15.99+5.04)	27.22(±21.73+5.49)	0.4324	0.2514
N _{0d}	0.0	0.0	0.0	4.8(±0.01+4.79)	5.05(±0.01+5.04)	5.5(±0.01+5.49)	0.3127	0.329
W _{0d}	1.0	1.0	1.0	84.21(±79.42+4.79)	88.6(±83.56+5.04)	96.48(±90.99+5.49)	0.3127	0.329
N1 _d	0.0	0.0	0.0	4.8(±0.01+4.79)	5.05(±0.01+5.04)	5.5(±0.01+5.49)	0.3127	0.329
W1 _d	1.13	1.13	1.13	94.43(±89.64+4.79)	99.35(±94.31+5.04)	108.19(±102.71+5.49)	0.3127	0.329
Z1 _d	0.18	0.18	0.18	20.93(±16.14+4.79)	22.02(±16.98+5.04)	23.97(±18.49+5.49)	0.3127	0.329

TLS38 Reflection colorimetry, System WCGa, L*ABJND-L*ABCh, Y_N=10.08, L*_N=37.99, Y_W=88.6

Colour	r	g	b	X	Y	Z	x	y
R _d	1.0	0.0	0.0	34.63(±25.05+9.58)	24.47(±14.39+10.08)	14.76(±7.38+10.98)	0.4689	0.3313
Y _d	1.0	1.0	0.0	65.83(±56.56+9.58)	74.5(±64.42+10.08)	18.31(±7.33+10.98)	0.413	0.4366
G _d	0.0	1.0	0.0	16.24(±6.66+9.58)	27.85(±17.77+10.08)	19.47(±8.49+10.98)	0.2555	0.4382
C _d	0.0	1.0	1.0	25.41(±16.83+9.58)	33.36(±23.28+10.08)	72.15(±61.17+10.98)	0.1941	0.2548
B _d	0.0	1.0	0.0	14.17(±4.59+9.58)	14.08(±4.0+10.08)	31.05(±20.08+10.98)	0.2899	0.2374
M _d	1.0	0.0	1.0	37.73(±28.15+9.58)	25.1(±15.02+10.08)	31.4(±20.42+10.98)	0.4004	0.2664
N _{0d}	0.0	0.0	0.0	8.59(±0.98+9.58)	10.09(±0.01+10.08)	10.99(±0.01+10.98)	0.2895	0.3401
W _{0d}	1.0	1.0	1.0	84.21(±78.34+9.58)	88.6(±78.52+10.08)	96.48(±85.51+10.98)	0.3127	0.329
N1 _d	0.0	0.0	0.0	8.59(±0.98+9.58)	10.09(±0.01+10.08)	10.99(±0.01+10.98)	0.2895	0.3401
W1 _d	1.13	1.13	1.13	93.95(±84.37+9.58)	98.7(±88.62+10.08)	109.49(±96.51+10.98)	0.313	0.3289
Z1 _d	0.18	0.18	0.18	23.95(±14.37+9.58)	26.03(±15.95+10.08)	28.35(±17.37+10.98)	0.3057	0.3323

TLS52 Reflection colorimetry, System WCGa, L*ABJND-L*ABCh, Y_N=20.16, L*_N=52.02, Y_W=88.6

Colour	r	g	b	X	Y	Z	x	y
R _d	1.0	0.0	0.0	41.57(±22.41+19.16)	32.7(±12.54+20.16)	25.24(±3.29+21.95)	0.4177	0.3286
Y _d	1.0	1.0	0.0	68.4(±49.24+19.16)	76.31(±56.15+20.16)	28.34(±6.39+21.95)	0.3953	0.441
G _d	0.0	1.0	0.0	25.75(±6.59+19.16)	35.65(±15.49+20.16)	29.37(±7.21+21.95)	0.2883	0.3928
C _d	0.0	1.0	1.0	33.64(±14.48+19.16)	40.45(±20.29+20.16)	75.27(±53.32+21.95)	0.2252	0.2708
B _d	0.0	1.0	0.0	23.96(±8.48+19.16)	23.64(±3.48+20.16)	39.45(±17.5+21.95)	0.2753	0.2716
M _d	1.0	0.0	1.0	44.23(±25.07+19.16)	33.25(±13.09+20.16)	38.75(±7.81+21.95)	0.3773	0.2836
N _{0d}	0.0	0.0	0.0	19.17(±0.01+19.16)	20.17(±0.01+20.16)	21.96(±0.01+21.95)	0.3127	0.329
W _{0d}	1.0	1.0	1.0	84.21(±65.05+19.16)	88.6(±68.44+20.16)	96.48(±74.53+21.95)	0.3127	0.329
N1 _d	0.0	0.0	0.0	19.17(±0.01+19.16)	20.17(±0.01+20.16)	21.96(±0.01+21.95)	0.3127	0.329
W1 _d	1.13	1.13	1.13	92.58(±73.42+19.16)	97.41(±77.25+20.16)	106.08(±84.13+21.95)	0.3127	0.329
Z1 _d	0.18	0.18	0.18	32.38(±13.22+19.16)	34.06(±13.9+20.16)	37.09(±15.14+21.95)	0.3127	0.329

TLS70 Reflection colorimetry, System WCGa, L*ABJND-L*ABCh, Y _N =40.32, L* _N =69.7, Y _W =88.6								
Colour	r	g	b	X	Y	Z	x	y
R _d	1.0	0.0	0.0	54.13(±15.81+38.32)	49.17(±8.85+40.32)	46.22(±2.32+43.9)	0.362	0.3288
Y _d	1.0	1.0	0.0	73.06(±34.74+38.32)	79.93(±39.61+40.32)	48.41(±4.51+43.9)	0.3628	0.3969
G _d	0.0	1.0	0.0	42.97(±4.65+38.32)	51.25(±10.93+40.32)	49.12(±5.22+43.9)	0.2998	0.3575
C _d	0.0	1.0	1.0	48.53(±10.21+38.32)	54.64(±14.32+40.32)	81.52(±3.76+43.9)	0.2628	0.2958
B _d	0.0	0.0	1.0	41.71(±3.39+38.32)	42.78(±2.46+40.32)	56.24(±1.24+43.9)	0.2964	0.304
M _d	1.0	0.0	1.0	56.01(±17.69+38.32)	49.56(±9.24+40.32)	56.46(±12.56+43.9)	0.3457	0.3059
N _{0d}	0.0	0.0	0.0	38.33(±0.01+38.32)	40.33(±0.01+40.32)	43.91(±0.01+43.9)	0.3127	0.329
W _{0d}	1.0	1.0	1.0	84.21(±45.89+38.32)	88.6(±48.29+40.32)	96.48(±52.58+43.9)	0.3127	0.329
N1 _d	0.0	0.0	0.0	38.33(±0.01+38.32)	40.33(±0.01+40.32)	43.91(±0.01+43.9)	0.3127	0.329
W1 _d	1.13	1.13	1.13	90.12(±51.8+38.32)	94.81(±54.49+40.32)	103.25(±59.35+43.9)	0.3127	0.329
N2 _d	0.18	0.18	0.18	47.64(±9.37+38.32)	50.13(±9.81+40.32)	54.58(±10.68+43.9)	0.3127	0.329