

Interpretation $rgb \rightarrow rgb^*$ and CIELAB data of a 48 step elementary hue circle
for a LECD low glossy display with the luminance reflection $L_r=5\%$ compared to the white reference (100%)
48 step elementary hue circle with hues: $RJGB: h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and $C^*M^* = 217.0, 328.6$
comparison with six device hues $OYL\bar{C}VM: h_{ab,a} = 34.5, 102.3, 133.6, 196.8, 302.4, 326.4$
9 step equidistant grey scale: $L^* = 26.6, 35.2, 43.8, 52.4, 61.0, 69.6, 78.2, 86.8, 95.4$

u^*Ma	h_{rgb}	olv^*Ma_e	$A2$	$h_{ab}Ma_e$	$rgb \rightarrow rgb^*Ma$	u^*Ma	h_{rgb}	olv^*Ma_e	$A2$	$h_{ab}Ma_e$	$rgb \rightarrow rgb^*Ma$
r00=R	30.0	1.0	0.0	0.17	0.644 25.5	0.000 0.000 0.000	c'00b=C'	210.0	0.0	0.926	1.0
r12j	36.6	1.0	0.0	0.017	0.862 33.8	1.000 0.125 0.000	c'12b	216.6	0.0	0.901	1.0
r25j	43.9	1.0	0.222	0.0	0.774 42.2	1.000 0.250 0.000	c'25b	223.9	0.0	0.876	1.0
r37j	51.8	1.0	0.353	0.0	0.828 50.5	1.000 0.375 0.000	c'37b	231.8	0.0	0.84	1.0
r50j	60.0	1.0	0.466	0.0	0.724 58.9	1.000 0.500 0.000	c'50b	240.0	0.0	0.804	1.0
r62j	68.2	1.0	0.573	0.0	0.584 67.2	1.000 0.625 0.000	c'62b	248.2	0.0	0.768	1.0
r75j	76.1	1.0	0.677	0.0	0.418 75.6	1.000 0.750 0.000	c'75b	256.1	0.0	0.723	1.0
r87j	83.4	1.0	0.78	0.0	0.238 84.0	1.000 0.875 0.000	c'87b	263.4	0.0	0.67	1.0
j00g=J	90.0	1.0	0.883	0.0	0.064 92.3	1.000 1.000 0.000	b00m'=B	270.0	0.0	0.613	1.0
j12g	96.6	1.0	0.985	0.0	0.882 101.1	0.875 1.000 0.000	b12m'	276.6	0.0	0.531	1.0
j25g	103.9	0.893	1.0	0.0	0.859 109.8	0.750 1.000 0.000	b25m'	283.9	0.0	0.432	1.0
j37g	111.8	0.708	1.0	0.0	0.339 118.5	0.625 1.000 0.000	b37m'	291.8	0.0	0.308	1.0
j50g	120.0	0.43	1.0	0.0	0.562 127.3	0.500 1.000 0.000	b50m'	300.0	0.0	0.139	1.0
j62g	128.2	0.0	1.0	0.145	0.164 136.0	0.375 1.000 0.000	b62m'	308.2	0.386	0.0	1.0
j75g	136.1	0.0	1.0	0.409	0.274 144.7	0.250 1.000 0.000	b75m'	316.1	0.683	0.0	1.0
j87g	143.4	0.0	1.0	0.621	0.967 153.5	0.125 1.000 0.000	b87m'	323.4	0.896	0.0	1.0
g00c=G	150.0	0.0	1.0	0.775	0.196 162.2	0.000 1.000 0.000	m'00r=M	330.0	1.0	0.0	0.974
g12c	156.6	0.0	1.0	0.865	0.92 169.1	0.000 1.000 0.125	m'12r	336.6	1.0	0.0	0.888
g25c	163.9	0.0	1.0	0.903	0.226 175.9	0.000 1.000 0.250	m'25r	343.9	1.0	0.0	0.766
g37c	171.8	0.0	1.0	0.935	0.479 182.8	0.000 1.000 0.375	m'37r	351.8	1.0	0.0	0.641
g50c	180.0	0.0	1.0	0.967	0.733 189.6	0.000 1.000 0.500	m'50r	360.0	1.0	0.0	0.529
g62c	188.2	0.0	1.0	0.998	0.987 196.4	0.000 1.000 0.625	m'62r	368.2	1.0	0.0	0.431
g75c	196.1	0.0	0.976	1.0	0.191 203.3	0.000 1.000 0.750	m'75r	376.1	1.0	0.0	0.339
g87c	203.4	0.0	0.951	1.0	0.392 210.1	0.000 1.000 0.875	m'87r	383.4	1.0	0.0	0.251

LE030-3N,2

Interpretation $rgb \rightarrow rgb^*$ and CIELAB data of a 48 step elementary hue circle
for a LECD low glossy display with the luminance reflection $L_r=10\%$ compared to the white reference (100%)
48 step elementary hue circle with hues: $RJGB: h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and $C^*M^* = 217.0, 328.6$
comparison with six device hues $OYL\bar{C}VM: h_{ab,a} = 30.5, 103.2, 135.3, 197.0, 300.0, 326.0$
9 step equidistant grey scale: $L^* = 37.9, 45.1, 52.2, 59.4, 66.6, 73.8, 81.0, 88.2, 95.4$

u^*Ma	h_{rgb}	olv^*Ma_e	$A2$	$h_{ab}Ma_e$	$rgb \rightarrow rgb^*Ma$	u^*Ma	h_{rgb}	olv^*Ma_e	$A2$	$h_{ab}Ma_e$	$rgb \rightarrow rgb^*Ma$
r00j=R	30.0	1.0	0.0	0.138	0.899 25.5 1.000 0.000 0.000	c'00b=C'	210.0	0.0	0.928	1.0	0.58 217.0 0.000 1.000 1.000
r12j	36.6	1.0	0.142	0.0	0.134 33.8 1.000 0.125 0.000	c'12b	216.6	0.0	0.903	1.0	0.778 223.8 0.000 0.875 1.000
r25j	43.9	1.0	0.286	0.0	0.288 42.2 1.000 0.250 0.000	c'25b	223.9	0.0	0.878	1.0	0.977 230.7 0.000 0.750 1.000
r37j	51.8	1.0	0.402	0.0	0.214 50.5 1.000 0.375 0.000	c'37b	231.8	0.0	0.843	1.0	0.257 237.5 0.000 0.625 1.000
r50j	60.0	1.0	0.503	0.0	0.023 58.9 1.000 0.500 0.000	c'50b	240.0	0.0	0.807	1.0	0.547 244.4 0.000 0.500 1.000
r62j	68.2	1.0	0.6	0.0	0.799 67.2 1.000 0.625 0.000	c'62b	248.2	0.0	0.77	1.0	0.837 251.2 0.000 0.375 1.000
r75j	76.1	1.0	0.693	0.0	0.546 75.6 1.000 0.750 0.000	c'75b	256.1	0.0	0.726	1.0	0.193 258.0 0.000 0.250 1.000
r87j	83.4	1.0	0.786	0.0	0.292 84.0 1.000 0.875 0.000	c'87b	263.4	0.0	0.671	1.0	0.632 264.9 0.000 0.125 1.000
j00g=J	90.0	1.0	0.881	0.0	0.047 92.3 1.000 1.000 0.000	b00m'=B	270.0	0.0	0.612	1.0	0.108 271.7 0.000 0.000 1.000
j12g	96.6	1.0	0.977	0.0	0.814 101.1 0.875 1.000 0.000	b12m'	276.6	0.0	0.525	1.0	0.797 278.8 0.125 0.000 1.000
j25g	103.9	0.91	1.0	0.0	0.721 109.8 0.750 1.000 0.000	b25m'	283.9	0.0	0.418	1.0	0.656 286.0 0.250 0.000 1.000
j37g	111.8	0.748	1.0	0.0	0.013 118.5 0.625 1.000 0.000	b37m'	291.8	0.0	0.278	1.0	0.78 293.1 0.375 0.000 1.000
j50g	120.0	0.498	1.0	0.0	0.013 127.3 0.500 1.000 0.000	b50m'	300.0	0.033	0.0	1.0	0.26 300.2 0.500 0.000 1.000
j62g	128.2	0.0	1.0	0.059	0.472 136.0 0.375 1.000 0.000	b62m'	308.2	0.467	0.0	1.0	0.736 307.3 0.625 0.000 1.000
j75g	136.1	0.0	1.0	0.396	0.167 144.7 0.250 1.000 0.000	b75m'	316.1	0.721	0.0	1.0	0.765 314.4 0.750 0.000 1.000
j87g	143.4	0.0	1.0	0.619	0.948 153.5 0.125 1.000 0.000	b87m'	323.4	0.91	0.0	1.0	0.276 321.5 0.875 0.000 1.000
g00c=G	150.0	0.0	1.0	0.775	0.2 162.2 0.000 1.000 0.000	m'00r=M	330.0	1.0	0.0	0.97	0.239 328.6 1.000 0.000 1.000
g12c	156.6	0.0	1.0	0.866	0.927 169.1 0.000 1.000 0.125	m'12r	336.6	1.0	0.0	0.887	0.902 335.7 1.000 0.000 0.875
g25c	163.9	0.0	1.0	0.903	0.226 175.9 0.000 1.000 0.250	m'25r	343.9	1.0	0.0	0.767	0.86 342.8 1.000 0.000 0.750
g37c	171.8	0.0	1.0	0.935	0.477 182.8 0.000 1.000 0.375	m'37r	351.8	1.0	0.0	0.644	0.848 349.9 1.000 0.000 0.625
g50c	180.0	0.0	1.0	0.966	0.728 189.6 0.000 1.000 0.500	m'50r	360.0	1.0	0.0	0.531	0.756 357.0 1.000 0.000 0.500
g62c	188.2	0.0	1.0	0.997	0.979 196.4 0.000 1.000 0.625	m'62r	368.2	1.0	0.0	0.428	0.578 4.2 1.000 0.000 0.375
g75c	196.1	0.0	0.977	1.0	0.182 203.3 0.000 1.000 0.750	m'75r	376.1	1.0	0.0	0.329	0.366 11.3 1.000 0.000 0.250
g87c	203.4	0.0	0.952	1.0	0.381 210.1 0.000 1.000 0.875	m'87r	383.4	1.0	0.0	0.233	0.14 18.4 1.000 0.000 0.125

LE030-7N,2

TUB-test chart LE03; 48 step LECD elementary hue circle
Interpretation $rgb \rightarrow rgb^*$ and rgb^* data of colours Ma

Interpretation $rgb \rightarrow rgb^*$ and CIELAB data of a 48 step elementary hue circle
for a LECD low glossy display with the luminance reflection $L_r=20\%$ compared to the white reference (100%)
48 step elementary hue circle with hues: $RJGB: h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and $C^*M^* = 217.0, 328.6$
comparison with six device hues $OYL\bar{C}VM: h_{ab,a} = 26.5, 104.5, 137.5, 197.4, 296.7, 325.4$
9 step equidistant grey scale: $L^* = 51.9, 57.4, 62.8, 68.2, 73.7, 79.1, 84.5, 90.0, 95.4$

u^*Ma	h_{rgb}	olv^*Ma_e	$A2$	$h_{ab}Ma_e$	$rgb \rightarrow rgb^*Ma$	u^*Ma	h_{rgb}	olv^*Ma_e	$A2$	$h_{ab}Ma_e$	$rgb \rightarrow rgb^*Ma$
r00=R	30.0	1.0	0.0	0.04	0.68 25.5	1.000 0.000 0.000	c'00b=C'	210.0	0.0	0.931	1.0
r12j	36.6	1.0	0.22	0.0	0.761 33.8	1.000 0.125 0.000	c'12b	216.6	0.0	0.906	1.0
r25j	43.9	1.0	0.347	0.0	0.778 42.2	1.000 0.250 0.000	c'25b	223.9	0.0	0.882	1.0
r37j	51.8	1.0	0.449	0.0	0.59 50.5	1.000 0.375 0.000	c'37b	231.8	0.0	0.849	1.0
r50j	60.0	1.0	0.541	0.0	0.329 58.9	1.000 0.500 0.000	c'50b	240.0	0.0	0.812	1.0
r62j	68.2	1.0	0.629	0.0	0.033 67.2	1.000 0.625 0.000	c'62b	248.2	0.0	0.775	1.0
r75j	76.1	1.0	0.711	0.0	0.689 75.6	1.000 0.750 0.000	c'75b	256.1	0.0	0.731	1.0
r87j	83.4	1.0	0.794	0.0	0.354 84.0	1.000 0.875 0.000	c'87b	263.4	0.0	0.673	1.0
j00g=J	90.0	1.0	0.878	0.0	0.026 92.3	1.000 1.000 0.000	b00m'=B	270.0	0.0	0.61	1.0
j12g	96.6	1.0	0.965	0.0	0.724 101.1	0.875 1.000 0.000	b12m'	276.6	0.0	0.516	1.0
j25g	103.9	0.933	1.0	0.0	0.535 109.8	0.750 1.000 0.000	b25m'	283.9	0.0	0.393	1.0
j37g	111.8	0.793	1.0	0.0	0.652 118.5	0.625 1.000 0.000	b37m'	291.8	0.0	0.212	1.0
j50g	120.0	0.576	1.0	0.0	0.389 127.3	0.500 1.000 0.000	b50m'	300.0	0.27	0.0	1.0
j62g	128.2	0.182	1.0	0.0	0.547 136.0	0.375 1.000 0.000	b62m'	308.2	0.557	0.0	1.0
j75g	136.1	0.0	1.0	0.371	0.968 144.7	0.250 1.000 0.000	b75m'	316.1	0.769	0.0	1.0
j87g	143.4	0.0	1.0	0.614	0.914 153.5	0.125 1.000 0.000	b87m'	323.4	0.929	0.0	1.0
g00c=G	150.0	0.0	1.0	0.776	0.207 162.2	0.000 1.000 0.000	m'00r=M	330.0	1.0	0.0	0.964
g12c	156.6	0.0	1.0	0.867	0.939 169.1	0.000 1.000 0.125	m'12r	336.6	1.0	0.0	0.886
g25c	163.9	0.0	1.0	0.903	0.226 175.9	0.000 1.000 0.250	m'25r	343.9	1.0	0.0	0.77
g37c	171.8	0.0	1.0	0.934	0.472 182.8	0.000 1.000 0.375	m'37r	351.8	1.0	0.0	0.648
g50c	180.0	0.0	1.0	0.965	0.719 189.6	0.000 1.000 0.500	m'50r	360.0	1.0	0.0	0.532
g62c	188.2	0.0	1.0	0.996	0.965 196.4	0.000 1.000 0.625	m'62r	368.2	1.0	0.0	0.423
g75c	196.1	0.0	0.979	1.0	0.167 203.3	0.000 1.000 0.750	m'75r	376.1	1.0	0.0	0.315
g87c	203.4	0.0	0.955	1.0	0.361 210.1	0.000 1.000 0.875	m'87r	383.4	1.0	0.0	0.203

LE031-3N,2

Interpretation $rgb \rightarrow rgb^*$ and CIELAB data of a 48 step elementary hue circle
for a LECD low glossy display with the luminance reflection $L_r=40\%$ compared to the white reference (100%)
48 step elementary hue circle with hues: $RJGB: h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and $C^*M^* = 217.0, 328.6$
comparison with six device hues $OYL\bar{C}VM: h_{ab,a} = 23.2, 106.5, 139.9, 198.2, 293.2, 324.2$
9 step equidistant grey scale: $L^* = 69.7, 72.9, 76.1, 79.3, 82.5, 85.8, 89.0, 92.2, 95.4$

u^*_Ma	h_rgb	$olv^*_\text{Ma,e}$	$A2$	$h_{ab,\text{Ma,e}}$	$rgb \rightarrow rgb^*_\text{Ma}$	u^*_Ma	h_rgb	$olv^*_\text{Ma,e}$	$A2$	$h_{ab,\text{Ma,e}}$	$rgb \rightarrow rgb^*_\text{Ma}$
r00j=R	30.0	1.0	0.128	0.0	0.027 25.5 1.000 0.000 0.000	c'00b=C'	210.0	0.0	0.935	1.0	0.518 217.0 0.000 1.000 1.000
r12j	36.6	1.0	0.285	0.0	0.28 33.8 1.000 0.125 0.000	c'12b	216.6	0.0	0.912	1.0	0.706 223.8 0.000 0.875 1.000
r25j	43.9	1.0	0.401	0.0	0.205 42.2 1.000 0.250 0.000	c'25b	223.9	0.0	0.888	1.0	0.894 230.7 0.000 0.750 1.000
r37j	51.8	1.0	0.495	0.0	0.959 50.5 1.000 0.375 0.000	c'37b	231.8	0.0	0.858	1.0	0.134 237.5 0.000 0.625 1.000
r50j	60.0	1.0	0.578	0.0	0.621 58.9 1.000 0.500 0.000	c'50b	240.0	0.0	0.82	1.0	0.438 244.4 0.000 0.500 1.000
r62j	68.2	1.0	0.656	0.0	0.247 67.2 1.000 0.625 0.000	c'62b	248.2	0.0	0.782	1.0	0.743 251.2 0.000 0.375 1.000
r75j	76.1	1.0	0.729	0.0	0.831 75.6 1.000 0.750 0.000	c'75b	256.1	0.0	0.74	1.0	0.08 258.0 0.000 0.250 1.000
r87j	83.4	1.0	0.802	0.0	0.416 84.0 1.000 0.875 0.000	c'87b	263.4	0.0	0.677	1.0	0.584 264.9 0.000 0.125 1.000
j00g=J	90.0	1.0	0.875	0.0	0.003 92.3 1.000 1.000 0.000	b00m=B	270.0	0.0	0.607	1.0	0.143 271.7 0.000 0.000 1.000
j12g	96.6	1.0	0.952	0.0	0.618 101.1 0.875 1.000 0.000	b12m'	276.6	0.0	0.502	1.0	0.985 278.8 0.125 0.000 1.000
j25g	103.9 0.961 1.0	0.0	0.311 109.8	0.750 1.000 0.000	b25m'	283.9	0.0	0.345	1.0	0.238 286.0 0.250 0.000 1.000	
j37g	111.8 0.848 1.0	0.0	0.216 118.5	0.625 1.000 0.000	b37m'	291.8	0.0	0.011	1.0	0.912 293.1 0.375 0.000 1.000	
j50g	120.0 0.661 1.0	0.0	0.71 127.3	0.500 1.000 0.000	b50m'	300.0 0.419 0.0	1.0	0.352 300.2	0.500 0.000 1.000		
j62g	128.2 0.344 1.0	0.0	0.251 136.0	0.375 1.000 0.000	b62m'	308.2 0.648 0.0	1.0	0.186 307.3	0.625 0.000 1.000		
j75g	136.1 0.0 1.0	0.321	0.566 144.7	0.250 1.000 0.000	b75m'	316.1 0.824 0.0	1.0	0.589 314.4	0.750 0.000 1.000		
j87g	143.4 0.0 1.0	0.607	0.856 153.5	0.125 1.000 0.000	b87m'	323.4 0.955 0.0	1.0	0.641 321.5	0.875 0.000 1.000		
g00c=G	150.0 0.0 1.0	0.777	0.218 162.2	0.000 1.000 0.000	m'00r=M	330.0 0.0 1.0	0.956	0.354 328.6	1.000 0.000 1.000		
g12c'	156.6 0.0 1.0	0.87	0.959 169.1	0.000 1.000 0.125	m'12r	336.6 1.0 0.0	0.884	0.928 335.7	1.000 0.000 0.875		
g25c'	163.9 0.0 1.0	0.903	0.225 175.9	0.000 1.000 0.250	m'25r	343.9 1.0 0.0	0.774	0.812 342.8	1.000 0.000 0.750		
g37c'	171.8 0.0 1.0	0.933	0.464 182.8	0.000 1.000 0.375	m'37r	351.8 1.0 0.0	0.654	0.771 349.9	1.000 0.000 0.625		
g50c'	180.0 0.0 1.0	0.963	0.702 189.6	0.000 1.000 0.500	m'50r	360.0 1.0 0.0	0.534	0.726 357.0	1.000 0.000 0.500		
g62c'	188.2 0.0 1.0	0.993	0.941 196.4	0.000 1.000 0.625	m'62r	368.2 1.0 0.0	0.417	0.661 4.2	1.000 0.000 0.375		
g75c'	196.1 0.0 1.0	0.982	1.0 201.3	0.000 1.000 0.750	m'75r	376.1 1.0 0.0	0.296	0.634 11.3	1.000 0.000 0.250		
g87c'	203.4 0.0 1.0	0.959	1.0 210.1	0.000 1.000 0.875	m'87r	383.4 1.0 0.0	0.165	0.678 18.4	1.000 0.000 0.125		