

Colorimetric data for system lines TLS00 -> ORS18, TLS00, NRS18, SRS18

For input olv^*_{30} (TLS00) and output $LCH^*_{a,Mm}$ for 4 systems ($m=0$ to 4)
Six CIELAB hue angles of device ORS18: (37.7 96.4 150.9 236.0 305.0 353.7);
Six CIELAB hue angles of device TLS00: (40.0 102.8 136.0 196.4 306.3 328.2);
Six CIELAB hue angles of device NRS18: (25.5 92.3 162.2 217.0 271.7 328.6);
Six CIELAB hue angles of device SRS18: (30.0 90.0 150.0 210.0 270.0 330.0);

no.	Colour	->TLS00 olv^*_{30}	->TLS00 n^*, c^*, H^*_{si0}	ORS18 $LCH^*_{a,M1}$	TLS00 $LCH^*_{a,M2}$	NRS18 $LCH^*_{a,M3}$	SRS18 $LCH^*_{a,M4}$
01	N	0.0 0.0 0.0	1.0 0.0 -	48.1 71.7 -	53.9 89.9 -	56.7 68.6 -	56.7 67.2 -
02	Vn	0.0 0.0 0.5	0.5 0.5 0.5	270 26.2 53.8	306 30.5 47.8	306 56.7 68.4	306 56.7 67.4
03	V	0.0 0.0 1.0	0.0 1.0 270	26.2 53.8 306	30.5 47.8 306	56.7 68.4 306	56.7 67.4 306
04	Ln	0.0 0.5 0.0	0.5 0.5 150	61.7 84.0 136	83.6 93.1 136	56.7 64.2 136	56.7 69.7 136
05	Cn	0.0 0.5 0.5	0.5 0.5 210	55.0 53.0 196	86.9 115 196	56.7 69.1 196	56.7 69.7 196
06	-	0.0 0.5 1.0	0.0 1.0 240	51.5 47.5 251	58.8 27.6 251	56.7 69.2 251	56.7 68.3 251
07	L	0.0 1.0 0.0	0.0 1.0 150	61.7 84.0 136	83.6 93.1 136	56.7 64.2 136	56.7 69.7 136
08	-	0.0 1.0 0.5	0.0 1.0 180	52.3 59.7 166	85.2 99.4 166	56.7 75.0 166	56.7 69.1 166
09	C	0.0 1.0 1.0	0.0 1.0 210	55.0 53.0 196	86.9 115 196	56.7 69.1 196	56.7 69.7 196
10	On	0.5 0.0 0.0	0.5 0.5 30	49.6 80.9 40	50.5 111 40	56.7 68.3 40	56.7 71.3 40
11	Mn	0.5 0.0 0.5	0.5 0.5 329	36.3 49.4 328	57.0 128 328	56.7 76.9 328	56.7 75.9 328
12	-	0.5 0.0 1.0	0.0 1.0 299	31.2 50.6 317	43.5 126 317	56.7 71.1 317	56.7 70.1 317
13	Ln	0.5 0.5 0.0	0.5 0.5 90	85.6 87.7 103	92.6 93.0 103	56.7 69.6 103	56.7 70.1 103
14	Z	0.5 0.5 0.5	0.5 0.0 -	48.1 71.7 -	53.9 89.9 -	56.7 68.6 -	56.7 67.2 -
15	Vw	0.5 0.5 1.0	0.0 0.5 270	26.2 53.8 306	30.5 47.8 306	56.7 68.4 306	56.7 67.4 306
16	-	0.5 1.0 0.0	0.0 1.0 119	74.0 82.3 119	88.3 89.2 119	56.7 64.1 119	56.7 67.0 119
17	Lw	0.5 1.0 0.5	0.0 0.5 150	61.7 84.0 136	83.6 93.1 136	56.7 64.2 136	56.7 69.7 136
18	Mw	0.5 1.0 1.0	0.0 0.5 210	55.0 53.0 196	86.9 115 196	56.7 69.1 196	56.7 69.7 196
19	O	1.0 0.0 0.0	0.0 1.0 30	49.6 80.9 40	50.5 111 40	56.7 68.3 40	56.7 71.3 40
20	-	1.0 0.0 0.5	0.0 1.0 0	48.1 71.7 4	53.9 89.9 4	56.7 68.6 4	56.7 67.2 4
21	M	1.0 0.0 1.0	0.0 1.0 329	36.3 49.4 328	57.0 128 328	56.7 76.9 328	56.7 75.9 328
22	-	1.0 0.5 0.0	0.0 1.0 60	72.0 72.2 71	71.3 85.7 71	56.7 66.1 71	56.7 68.3 71
23	Ow	1.0 0.5 0.5	0.0 0.5 30	49.6 80.9 40	50.5 111 40	56.7 68.3 40	56.7 71.3 40
24	Mw	1.0 0.5 1.0	0.0 0.5 329	36.3 49.4 328	57.0 128 328	56.7 76.9 328	56.7 75.9 328
25	Y	1.0 1.0 0.0	0.0 1.0 90	85.6 87.7 103	92.6 93.0 103	56.7 69.6 103	56.7 70.1 103
26	Yw	1.0 1.0 0.5	0.0 0.5 90	85.6 87.7 103	92.6 93.0 103	56.7 69.6 103	56.7 70.1 103
27	W	1.0 1.0 1.0	0.0 0.0 -	48.1 71.7 -	53.9 89.9 -	56.7 68.6 -	56.7 67.2 -

$$a^*_{r0} = o^*_{30} \cos(30) + l^*_{30} \cos(150)$$

$$H^*_{s0} = \text{atan} (b^*_{r0} / a^*_{r0})$$

$$b^*_{r0} = o^*_{30} \sin(30) + l^*_{30} \sin(150) - v^*_{30} \sin(270)$$

$$H^*_{si0} = \text{round} (H^*_{s0})$$

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BAM-test chart ZE11; Transfer olv^*_{30} , $LCH^*_{a,M}$, nce^* , 2/12
TLS00, SRS18->ORS18, TLS00, NRS18, SRS18; 27 Colours

Colorimetric data for system lines SRS18 -> ORS18, TLS00, NRS18, SRS18

For input olv^*_{30} (SRS18) and output $LCH^*_{a,Mm}$ for 4 systems ($m=0$ to 4)
Six CIELAB hue angles of device ORS18: (37.7 96.4 150.9 236.0 305.0 353.7);
Six CIELAB hue angles of device TLS00: (40.0 102.8 136.0 196.4 306.3 328.2);
Six CIELAB hue angles of device NRS18: (25.5 92.3 162.2 217.0 271.7 328.6);
Six CIELAB hue angles of device SRS18: (30.0 90.0 150.0 210.0 270.0 330.0);

no.	Colour	->SRS18 olv^*_{30}	->SRS18 n^*, c^*, H^*_{si0}	ORS18 $LCH^*_{a,M1}$	TLS00 $LCH^*_{a,M2}$	NRS18 $LCH^*_{a,M3}$	SRS18 $LCH^*_{a,M4}$
01	N	0.0 0.0 0.0	1.0 0.0 -	48.1 72.9 -	54.3 90.1 -	56.7 68.2 -	56.7 67.0 -
02	Vn	0.0 0.0 0.5	0.5 0.5 0.5	270 42.4 44.8	270 49.0 29.2	270 56.7 76.2	270 56.7 77.4
03	V	0.0 0.0 1.0	0.0 1.0 270	42.4 44.8 270	49.0 29.2 270	56.7 76.2 270	56.7 77.4 270
04	Ln	0.0 0.5 0.0	0.5 0.5 150	51.6 91.6 150	84.4 104 150	56.7 68.8 150	56.7 77.4 150
05	Cn	0.0 0.5 0.5	0.5 0.5 210	56.3 55.3 210	79.9 36.8 210	56.7 73.3 210	56.7 77.4 210
06	-	0.0 0.5 1.0	0.0 1.0 240	56.7 51.9 240	64.5 28.2 240	56.7 68.9 240	56.7 67.0 240
07	L	0.0 1.0 0.0	0.0 1.0 150	51.6 91.6 150	84.4 104 150	56.7 68.8 150	56.7 77.4 150
08	-	0.0 1.0 0.5	0.0 1.0 180	53.5 54.5 180	86.0 102 180	56.7 69.7 180	56.7 67.0 180
09	C	0.0 1.0 1.0	0.0 1.0 210	56.3 55.3 210	79.9 36.8 210	56.7 73.3 210	56.7 77.4 210
10	On	0.5 0.0 0.0	0.5 0.5 30	48.0 72.5 30	51.4 99.9 30	56.7 73.8 30	56.7 77.4 30
11	Mn	0.5 0.0 0.5	0.5 0.5 330	37.2 49.4 330	57.1 109 330	56.7 76.4 330	56.7 77.4 330
12	-	0.5 0.0 1.0	0.0 1.0 300	28.1 51.4 300	33.6 41.8 300	56.7 68.0 300	56.7 67.0 300
13	Ln	0.5 0.5 0.0	0.5 0.5 90	85.8 78.2 90	84.0 90.4 90	56.7 75.5 90	56.7 77.4 90
14	Z	0.5 0.5 0.5	0.5 0.0 -	48.1 72.9 -	54.3 90.1 -	56.7 68.2 -	56.7 67.0 -
15	Vw	0.5 0.5 1.0	0.0 0.5 270	42.4 44.8 270	49.0 29.2 270	56.7 76.2 270	56.7 77.4 270
16	-	0.5 1.0 0.0	0.0 1.0 120	73.3 82.2 120	88.0 89.2 120	56.7 63.9 120	56.7 67.0 120
17	Lw	0.5 1.0 0.5	0.0 0.5 150	51.6 91.6 150	84.4 104 150	56.7 68.8 150	56.7 77.4 150
18	Mw	0.5 1.0 1.0	0.0 0.5 210	56.3 55.3 210	79.9 36.8 210	56.7 73.3 210	56.7 77.4 210
19	O	1.0 0.0 0.0	0.0 1.0 30	48.0 72.5 30	51.4 99.9 30	56.7 73.8 30	56.7 77.4 30
20	-	1.0 0.0 0.5	0.0 1.0 0	48.1 72.9 0	54.3 90.1 0	56.7 68.2 0	56.7 67.0 0
21	M	1.0 0.0 1.0	0.0 1.0 330	37.2 49.4 330	57.1 109 330	56.7 76.4 330	56.7 77.4 330
22	-	1.0 0.5 0.0	0.0 1.0 60	64.1 72.6 60	63.9 87.4 60	56.7 64.6 60	56.7 67.0 60
23	Ow	1.0 0.5 0.5	0.0 0.5 30	48.0 72.5 30	51.4 99.9 30	56.7 73.8 30	56.7 77.4 30
24	Mw	1.0 0.5 1.0	0.0 0.5 330	37.2 49.4 330	57.1 109 330	56.7 76.4 330	56.7 77.4 330
25	Y	1.0 1.0 0.0	0.0 1.0 90	85.8 78.2 90	84.0 90.4 90	56.7 75.5 90	56.7 77.4 90
26	Yw	1.0 1.0 0.5	0.0 0.5 90	85.8 78.2 90	84.0 90.4 90	56.7 75.5 90	56.7 77.4 90
27	W	1.0 1.0 1.0	0.0 0.0 -	48.1 72.9 -	54.3 90.1 -	56.7 68.2 -	56.7 67.0 -

$$a^*_{r0} = o^*_{30} \cos(30) + l^*_{30} \cos(150)$$

$$H^*_{s0} = \text{atan} (b^*_{r0} / a^*_{r0})$$

$$b^*_{r0} = o^*_{30} \sin(30) + l^*_{30} \sin(150) - v^*_{30} \sin(270)$$

$$H^*_{si0} = \text{round} (H^*_{s0})$$

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input: rgb (-> olv^*_{30}) setrgbcolor
output: no change compared to input