

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

For input olv^*_{30} (NRS18) 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);

		->NRS18		->NRS18		ORS18		TLS00		NRS18		SRS18	
no.	Colour	ol^*_{30}	rg^*_{30}	b^*_{30}	c^*	H^*_{si0}	$LCH^*_{a,M1}$	$LCH^*_{a,M1}$	$LCH^*_{a,M2}$	$LCH^*_{a,M2}$	$LCH^*_{a,M3}$	$LCH^*_{a,M3}$	$LCH^*_{a,M4}$
01	N	0.0	0.0	0.0	1.0	0.0	-	48.1 74.1 -	54.6 90.6 -	56.7 68.1 -	56.7 67.1 -		
02	Bn	0.0	0.0	0.5	0.5	0.5	270	41.5 44.8 272	48.0 29.5 272	56.7 77.2 272	56.7 75.9 272		
03	B	0.0	0.0	1.0	0.0	1.0	270	41.5 44.8 272	48.0 29.5 272	56.7 77.2 272	56.7 75.9 272		
04	Gn	0.0	0.5	0.0	0.5	0.5	150	51.9 62.1 162	85.0 99.7 162	56.7 77.2 162	56.7 70.5 162		
05	C'n	0.0	0.5	0.5	0.5	0.5	210	56.9 57.8 217	76.3 33.5 217	56.7 77.4 217	56.7 72.8 217		
06	-	0.0	0.5	1.0	0.0	1.0	240	54.8 50.0 244	62.4 27.9 244	56.7 68.7 244	56.7 67.2 244		
07	G	0.0	1.0	0.0	0.0	1.0	150	51.9 62.1 162	85.0 99.7 162	56.7 77.2 162	56.7 70.5 162		
08	-	0.0	1.0	0.5	0.0	1.0	180	54.4 53.1 190	86.5 109 190	56.7 68.7 190	56.7 68.1 190		
09	C'	0.0	1.0	1.0	0.0	1.0	210	56.9 57.8 217	76.3 33.5 217	56.7 77.4 217	56.7 72.8 217		
10	Rn	0.5	0.0	0.0	0.5	0.5	30	48.0 71.2 25	51.9 96.2 25	56.7 77.1 25	56.7 74.0 25		
11	M'n	0.5	0.0	0.5	0.5	0.5	330	36.8 49.4 329	57.2 110 329	56.7 77.1 329	56.7 76.6 329		
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	Gn	0.5	0.5	0.0	0.5	0.5	90	87.2 79.4 92	85.4 91.5 92	56.7 77.1 92	56.7 75.9 92		
14	Z	0.5	0.5	0.5	0.5	0.0	-	48.1 74.1 -	54.6 90.6 -	56.7 68.1 -	56.7 67.1 -		
15	Bw	0.5	0.5	1.0	0.0	0.5	270	41.5 44.8 272	48.0 29.5 272	56.7 77.2 272	56.7 75.9 272		
16	-	0.5	1.0	0.0	0.0	1.0	120	68.2 82.2 127	86.1 90.0 127	56.7 63.4 127	56.7 67.5 127		
17	Gw	0.5	1.0	0.5	0.0	0.5	150	51.9 62.1 162	85.0 99.7 162	56.7 77.2 162	56.7 70.5 162		
18	M'w	0.5	1.0	1.0	0.0	0.5	210	56.9 57.8 217	76.3 33.5 217	56.7 77.4 217	56.7 72.8 217		
19	R	1.0	0.0	0.0	0.0	1.0	30	48.0 71.2 25	51.9 96.2 25	56.7 77.1 25	56.7 74.0 25		
20	-	1.0	0.0	0.5	0.0	1.0	0	48.1 74.1 357	54.6 90.6 357	56.7 68.1 357	56.7 67.1 357		
21	M'	1.0	0.0	1.0	0.0	1.0	330	36.8 49.4 329	57.2 110 329	56.7 77.1 329	56.7 76.6 329		
22	-	1.0	0.5	0.0	0.0	1.0	60	63.3 72.7 59	63.2 87.7 59	56.7 64.6 59	56.7 67.0 59		
23	Rw	1.0	0.5	0.5	0.0	0.5	30	48.0 71.2 25	51.9 96.2 25	56.7 77.1 25	56.7 74.0 25		
24	M'w	1.0	0.5	1.0	0.0	0.5	330	36.8 49.4 329	57.2 110 329	56.7 77.1 329	56.7 76.6 329		
25	J	1.0	1.0	0.0	0.0	1.0	90	87.2 79.4 92	85.4 91.5 92	56.7 77.1 92	56.7 75.9 92		
26	Jw	1.0	1.0	0.5	0.0	0.5	90	87.2 79.4 92	85.4 91.5 92	56.7 77.1 92	56.7 75.9 92		
27	W	1.0	1.0	1.0	0.0	0.0	-	48.1 74.1 -	54.6 90.6 -	56.7 68.1 -	56.7 67.1 -		

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

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

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

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

ZE100-7

BAM-test chart ZE10; Transfer olv^*_{30} , $LCH^*_{a,M}$, nce^* , 2/12
NRS18, ORS18->ORS18, TLS00, NRS18, SRS18; 27 Colours

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

For input olv^*_{30} (ORS18) 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);

	->ORS18			->ORS18			ORS18			TLS00			NRS18			SRS18			
no.	Colour	olv^*_{30}	rgb^*_{30}	n^*	c^*	H^*_{si0}	$LCH^*_{a,M1}$	$LCH^*_{b,M1}$	$LCH^*_{g,M1}$	$LCH^*_{a,M2}$	$LCH^*_{b,M2}$	$LCH^*_{g,M2}$	$LCH^*_{a,M3}$	$LCH^*_{b,M3}$	$LCH^*_{g,M3}$	$LCH^*_{a,M4}$	$LCH^*_{b,M4}$	$LCH^*_{g,M4}$	
01	N	0.0	0.0	0.0	1.0	0.0	-	48.0	70.2	-	52.8	91.9	-	56.7	72.0	-	56.7	69.7	-
02	Vn	0.0	0.0	0.5	0.5	0.5	270	25.7	54.3	305	31.1	46.6	305	56.7	68.3	305	56.7	67.3	305
03	V	0.0	0.0	1.0	0.0	1.0	270	25.7	54.3	305	31.1	46.6	305	56.7	68.3	305	56.7	67.3	305
04	Ln	0.0	0.5	0.0	0.5	0.5	150	50.9	71.8	151	84.4	103	151	56.7	69.3	151	56.7	76.6	151
05	Cn	0.0	0.5	0.5	0.5	0.5	210	58.6	71.9	236	66.5	28.6	236	56.7	69.5	236	56.7	67.2	236
06	-	0.0	0.5	1.0	0.0	1.0	240	41.9	44.8	271	48.5	29.3	271	56.7	76.9	271	56.7	76.6	271
07	L	0.0	1.0	0.0	0.0	1.0	150	50.9	71.8	151	84.4	103	151	56.7	69.3	151	56.7	76.6	151
08	-	0.0	1.0	0.5	0.0	1.0	180	54.7	53.0	193	86.7	111	193	56.7	68.8	193	56.7	68.8	193
09	C	0.0	1.0	1.0	0.0	1.0	210	58.6	71.9	236	66.5	28.6	236	56.7	69.5	236	56.7	67.2	236
10	On	0.5	0.0	0.0	0.5	0.5	30	48.2	82.4	38	50.7	108	38	56.7	69.1	38	56.7	72.3	38
11	Mn	0.5	0.0	0.5	0.5	0.5	330	48.1	75.6	354	54.9	91.3	354	56.7	68.2	354	56.7	67.4	354
12	-	0.5	0.0	1.0	0.0	1.0	300	36.8	49.4	329	57.2	110	329	56.7	77.1	329	56.7	76.6	329
13	Ln	0.5	0.5	0.0	0.5	0.5	90	90.1	82.3	96	88.1	94.2	96	56.7	74.2	96	56.7	73.4	96
14	Z	0.5	0.5	0.5	0.5	0.0	-	48.0	70.2	-	52.8	91.9	-	56.7	72.0	-	56.7	69.7	-
15	Vw	0.5	0.5	1.0	0.0	0.5	270	25.7	54.3	305	31.1	46.6	305	56.7	68.3	305	56.7	67.3	305
16	-	0.5	1.0	0.0	0.0	1.0	120	70.4	82.1	124	86.9	89.5	124	56.7	63.5	124	56.7	67.2	124
17	Lw	0.5	1.0	0.5	0.0	0.5	150	50.9	71.8	151	84.4	103	151	56.7	69.3	151	56.7	76.6	151
18	Mw	0.5	1.0	1.0	0.0	0.5	210	58.6	71.9	236	66.5	28.6	236	56.7	69.5	236	56.7	67.2	236
19	O	1.0	0.0	0.0	0.0	1.0	30	48.2	82.4	38	50.7	108	38	56.7	69.1	38	56.7	72.3	38
20	-	1.0	0.0	0.5	0.0	1.0	0	48.0	70.2	16	52.8	91.9	16	56.7	72.0	16	56.7	69.7	16
21	M	1.0	0.0	1.0	0.0	1.0	330	48.1	75.6	354	54.9	91.3	354	56.7	68.2	354	56.7	67.4	354
22	-	1.0	0.5	0.0	0.0	1.0	60	69.1	72.0	67	68.6	85.9	67	56.7	65.3	67	56.7	67.5	67
23	Ow	1.0	0.5	0.5	0.0	0.5	30	48.2	82.4	38	50.7	108	38	56.7	69.1	38	56.7	72.3	38
24	Mw	1.0	0.5	1.0	0.0	0.5	330	48.1	75.6	354	54.9	91.3	354	56.7	68.2	354	56.7	67.4	354
25	Y	1.0	1.0	0.0	0.0	1.0	90	90.1	82.3	96	88.1	94.2	96	56.7	74.2	96	56.7	73.4	96
26	Yw	1.0	1.0	0.5	0.0	0.5	90	90.1	82.3	96	88.1	94.2	96	56.7	74.2	96	56.7	73.4	96
27	W	1.0	1.0	1.0	0.0	0.0	-	48.0	70.2	-	52.8	91.9	-	56.7	72.0	-	56.7	69.7	-

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

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

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

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

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input: rgb (-> olv^*_{30}) setrgbcolor

output: no change compared to input