

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

For input olv^*_{30} (NRS18) and output olv^*_{3m} 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	olv^*_{30}	rgb^*_{30}	n^*, c^*, H^*_{si}	olv^*_{31}	rgb^*_{31}	n^*, c^*, H^*_{si}	olv^*_{32}	rgb^*_{32}	n^*, c^*, H^*_{si}	olv^*_{33}	rgb^*_{33}	n^*, c^*, H^*_{si}	olv^*_{34}	rgb^*_{34}	n^*, c^*, H^*_{si}	olv^*_{35}	rgb^*_{35}	n^*, c^*, H^*_{si}
01	N	0.0	0.0	0.0	1.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
02	Bn	0.0	0.0	0.5	0.5	0.5	270	0.0	0.24	0.5	0.0	0.16	0.5	0.0	0.5	0.02	0.0	0.5	
03	B	0.0	0.0	1.0	0.0	1.0	270	0.0	0.48	1.0	0.0	0.31	1.0	0.0	1.0	0.03	0.0	1.0	
04	Gn	0.0	0.5	0.0	0.5	0.5	150	0.0	0.5	0.07	0.0	0.5	0.22	0.0	0.5	0.0	0.5	0.1	
05	C'n	0.0	0.5	0.5	0.5	0.5	210	0.0	0.5	0.39	0.0	0.41	0.5	0.0	0.5	0.5	0.0	0.44	0.5
06	-	0.0	0.5	1.0	0.0	1.0	240	0.0	0.88	1.0	0.0	0.57	1.0	0.0	0.51	1.0	0.0	0.43	1.0
07	G	0.0	1.0	0.0	0.0	1.0	150	0.0	1.0	0.13	0.0	1.0	0.43	0.0	1.0	0.0	0.0	1.0	0.2
08	-	0.0	1.0	0.5	0.0	1.0	180	0.0	1.0	0.46	0.0	1.0	0.89	0.0	1.0	0.51	0.0	1.0	0.67
09	C'	0.0	1.0	1.0	0.0	1.0	210	0.0	1.0	0.78	0.0	0.81	1.0	0.0	1.0	1.0	0.0	0.88	1.0
10	Rn	0.5	0.0	0.0	0.5	0.5	30	0.5	0.0	0.14	0.5	0.0	0.1	0.5	0.0	0.0	0.5	0.0	0.04
11	M'n	0.5	0.0	0.5	0.5	0.5	330	0.25	0.0	0.5	0.5	0.0	0.49	0.5	0.0	0.5	0.49	0.0	0.5
12	-	0.5	0.0	1.0	0.0	1.0	300	0.0	0.07	1.0	0.0	0.06	1.0	0.5	0.0	1.0	0.5	0.0	1.0
13	Gn	0.5	0.5	0.0	0.5	0.5	90	0.5	0.46	0.0	0.5	0.41	0.0	0.5	0.5	0.0	0.48	0.5	0.0
14	Z	0.5	0.5	0.5	0.5	0.0	-	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
15	Bw	0.5	0.5	1.0	0.0	0.5	270	0.5	0.74	1.0	0.5	0.66	1.0	0.5	0.5	1.0	0.52	0.5	1.0
16	-	0.5	1.0	0.0	0.0	1.0	120	0.44	1.0	0.0	0.27	1.0	0.0	0.5	1.0	0.0	0.38	1.0	0.0
17	Gw	0.5	1.0	0.5	0.0	0.5	150	0.5	1.0	0.57	0.5	1.0	0.72	0.5	1.0	0.5	0.5	1.0	0.6
18	M'w	0.5	1.0	1.0	0.0	0.5	210	0.5	1.0	0.89	0.5	0.91	1.0	0.5	1.0	1.0	0.5	0.94	1.0
19	R	1.0	0.0	0.0	0.0	1.0	30	1.0	0.0	0.29	1.0	0.0	0.21	1.0	0.0	0.01	1.0	0.0	0.08
20	-	1.0	0.0	0.5	0.0	1.0	0	1.0	0.0	0.92	1.0	0.0	0.6	1.0	0.0	0.5	1.0	0.0	0.55
21	M'	1.0	0.0	1.0	0.0	1.0	330	0.49	0.0	1.0	1.0	0.0	0.99	1.0	0.0	0.99	0.98	0.0	1.0
22	-	1.0	0.5	0.0	0.0	1.0	60	1.0	0.36	0.0	1.0	0.3	0.0	1.0	0.5	0.0	1.0	0.48	0.0
23	Rw	1.0	0.5	0.5	0.0	0.5	30	1.0	0.5	0.64	1.0	0.5	0.6	1.0	0.5	0.5	1.0	0.5	0.54
24	M'w	1.0	0.5	1.0	0.0	0.5	330	0.75	0.5	1.0	1.0	0.5	0.99	1.0	0.5	1.0	0.99	0.5	1.0
25	J	1.0	1.0	0.0	0.0	1.0	90	1.0	0.93	0.0	1.0	0.83	0.0	1.0	1.0	0.0	0.97	1.0	0.0
26	Jw	1.0	1.0	0.5	0.0	0.5	90	1.0	0.96	0.5	1.0	0.91	0.5	1.0	1.0	0.5	0.98	1.0	0.5
27	W	1.0	1.0	1.0	0.0	0.0	-	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

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

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

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

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

ZE100-7

BAM-test chart ZE10; Transfer olv^*_{3} , LCH*a, nce*, 1/12
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 olv^*_{3m} 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);
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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^*_{si}	olv^*_{31}	rgb^*_{31}	n^*, c^*, H^*_{si}	olv^*_{32}	rgb^*_{32}	n^*, c^*, H^*_{si}	olv^*_{33}	rgb^*_{33}	n^*, c^*, H^*_{si}	olv^*_{34}	rgb^*_{34}	n^*, c^*, H^*_{si}	olv^*_{35}	rgb^*_{35}	n^*, c^*, H^*_{si}
01	N	0.0	0.0	0.0	1.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
02	Vn	0.0	0.0	0.5	0.5	0.5	270	0.0	0.5	0.0	0.5	0.01	0.5	0.29	0.0	0.5	0.29	0.0	0.5
03	V	0.0	0.0	1.0	0.0	1.0	270	0.0	1.0	0.0	0.01	1.0	0.58	0.0	1.0	0.58	0.0	1.0	
04	Ln	0.0	0.5	0.0	0.5	0.5	150	0.0	0.5	0.0	0.5	0.12	0.08	0.5	0.0	0.0	0.5	0.01	
05	Cn	0.0	0.5	0.5	0.5	0.5	210	0.0	0.5	0.5	0.0	0.32	0.5	0.0	0.33	0.5	0.0	0.28	0.5
06	-	0.0	0.5	1.0	0.0	1.0	240	0.0	0.49	1.0	0.0	0.32	1.0	0.0	0.01	1.0	0.02	0.0	1.0
07	L	0.0	1.0	0.0	0.0	1.0	150	0.0	1.0	0.0	0.0	1.0	0.25	0.16	1.0	0.0	0.0	1.0	0.02
08	-	0.0	1.0	0.5	0.0	1.0	180	0.0	1.0	0.49	0.0	1.0	0.94	0.0	1.0	0.56	0.0	1.0	0.72
09	C	0.0	1.0	1.0	0.0	1.0	210	0.0	1.0	1.0	0.0	0.64	1.0	0.0	0.65	1.0	0.0	0.57	1.0
10	On	0.5	0.0	0.0	0.5	0.5	30	0.5	0.0	0.0	0.5	0.0	0.01	0.5	0.09	0.0	0.5	0.07	0.0
11	Mn	0.5	0.0	0.5	0.5	0.5	330	0.5	0.0	0.5	0.5	0.0	0.32	0.5	0.0	0.28	0.5	0.0	0.3
12	-	0.5	0.0	1.0	0.0	1.0	300	0.49	0.0	1.0	1.0	0.0	0.99	1.0	0.0	0.99	0.98	0.0	1.0
13	Ln	0.5	0.5	0.0	0.5	0.5	90	0.5	0.5	0.0	0.5	0.45	0.0	0.47	0.5	0.0	0.45	0.5	0.0
14	Z	0.5	0.5	0.5	0.5	0.0	-	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
15	Vw	0.5	0.5	1.0	0.0	0.5	270	0.5	0.5	1.0	0.5	0.51	1.0	0.79	0.5	1.0	0.79	0.5	1.0
16	-	0.5	1.0	0.0	0.0	1.0	120	0.49	1.0	0.0	0.36	1.0	0.0	0.55	1.0	0.0	0.43	1.0	0.0
17	Lw	0.5	1.0	0.5	0.0	0.5	150	0.5	1.0	0.5	0.5	1.0	0.62	0.58	1.0	0.5	0.5	1.0	0.51
18	Mw	0.5	1.0	1.0	0.0	0.5	210	0.5	1.0	1.0	0.5	0.82	1.0	0.5	0.83	1.0	0.5	0.78	1.0
19	O	1.0	0.0	0.0	0.0	1.0	30	1.0	0.01	0.0	1.0	0.0	0.03	1.0	0.19	0.0	1.0	0.13	0.0
20	-	1.0	0.0	0.5	0.0	1.0	0	1.0	0.0	0.49	1.0	0.0	0.33	1.0	0.0	0.17	1.0	0.0	0.23
21	M	1.0	0.0	1.0	0.0	1.0	330	1.0	0.0	0.99	1.0	0.0	0.64	1.0	0.0	0.55	1.0	0.0	0.6
22	-	1.0	0.5	0.0	0.0	1.0	60	1.0	0.5	0.0	1.0	0.43	0.0	1.0	0.62	0.0	1.0	0.62	0.0
23	Ow	1.0	0.5	0.5	0.0	0.5	30	1.0	0.5	0.5	1.0	0.5	0.51	1.0	0.59	0.5	1.0	0.57	0.5
24	Mw	1.0	0.5	1.0	0.0	0.5	330	1.0	0.5	1.0	1.0	0.5	0.82	1.0	0.5	0.78	1.0	0.5	0.8
25	Y	1.0	1.0	0.0	0.0	1.0	90	1.0	0.99	0.0	1.0	0.89	0.0	0.95	1.0	0.0	0.9	1.0	0.0
26	Yw	1.0	1.0	0.5	0.0	0.5	90	1.0	1.0	0.5	1.0	0.95	0.5	0.97	1.0	0.5	0.95	1.0	0.5
27	W	1.0	1.0	1.0	0.0	0.0	-	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

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

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

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

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

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input: rgb (-> olv^*_{3}) setrgbcolor

output: no change compared to input