

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

For input  $n_{ce}^*_{30}$  (NRS18) and output  $LCH^*_{am}$  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 | $n_{ce}^*_{30}$ |          | $n^*$ , $c^*$ , $H^*_{ei0}$ |         | $LCH^*_{a1}$ |          | $LCH^*_{a2}$ |          | $LCH^*_{a3}$ |          | $LCH^*_{a4}$ |          |  |
| 01  | N      | 1.0             | 0.0 -    | 1.0                         | 0.0 -   | 18.0         | 0.0 -    | 0.0          | 0.0 -    | 18.0         | 0.0 -    | 18.0         | 0.0 -    |  |
| 02  | Bn     | 0.5             | 0.5 0.75 | 0.5                         | 0.5 270 | 29.7         | 22.4 272 | 24.0         | 14.8 272 | 37.4         | 38.6 272 | 37.4         | 38.0 272 |  |
| 03  | B      | 0.0             | 1.0 0.75 | 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     | 0.5             | 0.5 0.5  | 0.5                         | 0.5 180 | 35.0         | 31.1 162 | 42.5         | 49.9 162 | 37.4         | 38.6 162 | 37.4         | 35.2 162 |  |
| 05  | C'n    | 0.5             | 0.5 0.63 | 0.5                         | 0.5 225 | 37.5         | 28.9 217 | 38.1         | 16.7 217 | 37.4         | 38.7 217 | 37.4         | 36.4 217 |  |
| 06  | -      | 0.0             | 1.0 0.69 | 0.0                         | 1.0 247 | 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 0.5  | 0.0                         | 1.0 180 | 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 0.56 | 0.0                         | 1.0 203 | 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 0.63 | 0.0                         | 1.0 225 | 56.9         | 57.8 217 | 76.3         | 33.5 217 | 56.7         | 77.4 217 | 56.7         | 72.8 217 |  |
| 10  | Rn     | 0.5             | 0.5 1.0  | 0.5                         | 0.5 359 | 33.0         | 35.6 25  | 26.0         | 48.1 25  | 37.4         | 38.5 25  | 37.4         | 37.0 25  |  |
| 11  | M'n    | 0.5             | 0.5 0.88 | 0.5                         | 0.5 315 | 27.4         | 24.7 329 | 28.6         | 55.0 329 | 37.4         | 38.6 329 | 37.4         | 38.3 329 |  |
| 12  | -      | 0.0             | 1.0 0.81 | 0.0                         | 1.0 292 | 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 0.25 | 0.5                         | 0.5 89  | 52.6         | 39.7 92  | 42.7         | 45.8 92  | 37.4         | 38.6 92  | 37.4         | 38.0 92  |  |
| 14  | Z      | 0.5             | 0.0 -    | 0.5                         | 0.0 -   | 56.7         | 0.0 -    | 47.7         | 0.0 -    | 56.7         | 0.0 -    | 56.7         | 0.0 -    |  |
| 15  | Bw     | 0.0             | 0.5 0.75 | 0.0                         | 0.5 270 | 68.4         | 22.4 272 | 71.7         | 14.8 272 | 76.1         | 38.6 272 | 76.1         | 38.0 272 |  |
| 16  | -      | 0.0             | 1.0 0.38 | 0.0                         | 1.0 135 | 68.2         | 82.2 127 | 86.1         | 90.0 127 | 56.7         | 63.4 127 | 56.7         | 67.5 127 |  |
| 17  | Gw     | 0.0             | 0.5 0.5  | 0.0                         | 0.5 180 | 73.7         | 31.1 162 | 90.2         | 49.9 162 | 76.1         | 38.6 162 | 76.1         | 35.2 162 |  |
| 18  | M'w    | 0.0             | 0.5 0.63 | 0.0                         | 0.5 225 | 76.2         | 28.9 217 | 85.8         | 16.7 217 | 76.1         | 38.7 217 | 76.1         | 36.4 217 |  |
| 19  | R      | 0.0             | 1.0 1.0  | 0.0                         | 1.0 359 | 48.0         | 71.2 25  | 51.9         | 96.2 25  | 56.7         | 77.1 25  | 56.7         | 74.0 25  |  |
| 20  | -      | 0.0             | 1.0 0.94 | 0.0                         | 1.0 337 | 48.1         | 74.1 357 | 54.6         | 90.6 357 | 56.7         | 68.1 357 | 56.7         | 67.1 357 |  |
| 21  | M'     | 0.0             | 1.0 0.88 | 0.0                         | 1.0 315 | 36.8         | 49.4 329 | 57.2         | 110 329  | 56.7         | 77.1 329 | 56.7         | 76.6 329 |  |
| 22  | -      | 0.0             | 1.0 0.13 | 0.0                         | 1.0 45  | 63.3         | 72.7 59  | 63.2         | 87.7 59  | 56.7         | 64.6 59  | 56.7         | 67.0 59  |  |
| 23  | Rw     | 0.0             | 0.5 1.0  | 0.0                         | 0.5 359 | 71.7         | 35.6 25  | 73.7         | 48.1 25  | 76.1         | 38.5 25  | 76.1         | 37.0 25  |  |
| 24  | M'w    | 0.0             | 0.5 0.88 | 0.0                         | 0.5 315 | 66.1         | 24.7 329 | 76.3         | 55.0 329 | 76.1         | 38.6 329 | 76.1         | 38.3 329 |  |
| 25  | J      | 0.0             | 1.0 0.25 | 0.0                         | 1.0 89  | 87.2         | 79.4 92  | 85.4         | 91.5 92  | 56.7         | 77.1 92  | 56.7         | 75.9 92  |  |
| 26  | Jw     | 0.0             | 0.5 0.25 | 0.0                         | 0.5 89  | 91.3         | 39.7 92  | 90.4         | 45.8 92  | 76.1         | 38.6 92  | 76.1         | 38.0 92  |  |
| 27  | W      | 0.0             | 0.0 -    | 0.0                         | 0.0 -   | 95.4         | 0.0 -    | 95.4         | 0.0 -    | 95.4         | 0.0 -    | 95.4         | 0.0 -    |  |

$H^*_{ei0} = \text{round} ( 360 e^* )$

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

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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 | $n_{ce}^*_{30}$ |          | $n^*$ , $c^*$ , $H^*_{ei0}$ |         | $LCH^*_{a1}$ |          | $LCH^*_{a2}$ |          | $LCH^*_{a3}$ |          | $LCH^*_{a4}$ |          |  |
| 01  | N      | 1.0             | 0.0 -    | 1.0                         | 0.0 -   | 18.0         | 0.0 -    | 0.0          | 0.0 -    | 18.0         | 0.0 -    | 18.0         | 0.0 -    |  |
| 02  | Vn     | 0.5             | 0.5 0.83 | 0.5                         | 0.5 297 | 21.9         | 27.1 305 | 15.5         | 23.3 305 | 37.4         | 34.1 305 | 37.4         | 33.6 305 |  |
| 03  | V      | 0.0             | 1.0 0.83 | 0.0                         | 1.0 297 | 25.7         | 54.3 305 | 31.1         | 46.6 305 | 56.7         | 68.3 305 | 56.7         | 67.3 305 |  |
| 04  | Ln     | 0.5             | 0.5 0.45 | 0.5                         | 0.5 163 | 34.5         | 35.9 151 | 42.2         | 51.5 151 | 37.4         | 34.6 151 | 37.4         | 38.3 151 |  |
| 05  | Cn     | 0.5             | 0.5 0.67 | 0.5                         | 0.5 240 | 38.3         | 35.9 236 | 33.3         | 14.3 236 | 37.4         | 34.7 236 | 37.4         | 33.6 236 |  |
| 06  | -      | 0.0             | 1.0 0.75 | 0.0                         | 1.0 270 | 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 0.45 | 0.0                         | 1.0 163 | 50.9         | 71.8 151 | 84.4         | 103 151  | 56.7         | 69.3 151 | 56.7         | 76.6 151 |  |
| 08  | -      | 0.0             | 1.0 0.57 | 0.0                         | 1.0 204 | 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 0.67 | 0.0                         | 1.0 240 | 58.6         | 71.9 236 | 66.5         | 28.6 236 | 56.7         | 69.5 236 | 56.7         | 67.2 236 |  |
| 10  | On     | 0.5             | 0.5 0.05 | 0.5                         | 0.5 18  | 33.1         | 41.2 38  | 25.3         | 54.2 38  | 37.4         | 34.6 38  | 37.4         | 36.1 38  |  |
| 11  | Mn     | 0.5             | 0.5 0.93 | 0.5                         | 0.5 336 | 33.1         | 37.8 354 | 27.4         | 45.7 354 | 37.4         | 34.1 354 | 37.4         | 33.7 354 |  |
| 12  | -      | 0.0             | 1.0 0.88 | 0.0                         | 1.0 316 | 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 0.26 | 0.5                         | 0.5 95  | 54.1         | 41.2 96  | 44.0         | 47.1 96  | 37.4         | 37.1 96  | 37.4         | 36.7 96  |  |
| 14  | Z      | 0.5             | 0.0 -    | 0.5                         | 0.0 -   | 56.7         | 0.0 -    | 47.7         | 0.0 -    | 56.7         | 0.0 -    | 56.7         | 0.0 -    |  |
| 15  | Vw     | 0.0             | 0.5 0.83 | 0.0                         | 0.5 297 | 60.6         | 27.1 305 | 63.2         | 23.3 305 | 76.1         | 34.1 305 | 76.1         | 33.6 305 |  |
| 16  | -      | 0.0             | 1.0 0.36 | 0.0                         | 1.0 130 | 70.4         | 82.1 124 | 86.9         | 89.5 124 | 56.7         | 63.5 124 | 56.7         | 67.2 124 |  |
| 17  | Lw     | 0.0             | 0.5 0.45 | 0.0                         | 0.5 163 | 73.2         | 35.9 151 | 89.9         | 51.5 151 | 76.1         | 34.6 151 | 76.1         | 38.3 151 |  |
| 18  | Mw     | 0.0             | 0.5 0.67 | 0.0                         | 0.5 240 | 77.0         | 35.9 236 | 81.0         | 14.3 236 | 76.1         | 34.7 236 | 76.1         | 33.6 236 |  |
| 19  | O      | 0.0             | 1.0 0.05 | 0.0                         | 1.0 18  | 48.2         | 82.4 38  | 50.7         | 108 38   | 56.7         | 69.1 38  | 56.7         | 72.3 38  |  |
| 20  | -      | 0.0             | 1.0 0.98 | 0.0                         | 1.0 353 | 48.0         | 70.2 16  | 52.8         | 91.9 16  | 56.7         | 72.0 16  | 56.7         | 69.7 16  |  |
| 21  | M      | 0.0             | 1.0 0.93 | 0.0                         | 1.0 336 | 48.1         | 75.6 354 | 54.9         | 91.3 354 | 56.7         | 68.2 354 | 56.7         | 67.4 354 |  |
| 22  | -      | 0.0             | 1.0 0.16 | 0.0                         | 1.0 57  | 69.1         | 72.0 67  | 68.6         | 85.9 67  | 56.7         | 65.3 67  | 56.7         | 67.5 67  |  |
| 23  | Ow     | 0.0             | 0.5 0.05 | 0.0                         | 0.5 18  | 71.8         | 41.2 38  | 73.0         | 54.2 38  | 76.1         | 34.6 38  | 76.1         | 36.1 38  |  |
| 24  | Mw     | 0.0             | 0.5 0.93 | 0.0                         | 0.5 336 | 71.8         | 37.8 354 | 75.1         | 45.7 354 | 76.1         | 34.1 354 | 76.1         | 33.7 354 |  |
| 25  | Y      | 0.0             | 1.0 0.26 | 0.0                         | 1.0 95  | 90.1         | 82.3 96  | 88.1         | 94.2 96  | 56.7         | 74.2 96  | 56.7         | 73.4 96  |  |
| 26  | Yw     | 0.0             | 0.5 0.26 | 0.0                         | 0.5 95  | 92.8         | 41.2 96  | 91.7         | 47.1 96  | 76.1         | 37.1 96  | 76.1         | 36.7 96  |  |
| 27  | W      | 0.0             | 0.0 -    | 0.0                         | 0.0 -   | 95.4         | 0.0 -    | 95.4         | 0.0 -    | 95.4         | 0.0 -    | 95.4         | 0.0 -    |  |

$H^*_{ei0} = \text{round} ( 360 e^* )$