**48 step circle with interpretation *rgb −> olv** device hue steps of 1080 standard colours**

| *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 0.0 0.0 | 40.0 | 50.4 | 76.9 | 64.5 | 1.0 1.0 0.0 | 102.8 | 92.6 | −20.7 | 90.7 | 0.0 1.0 0.0 | 136.0 | 83.6 | −82.7 | 79.8 | 0.0 1.0 1.0 | 196.3 | 86.8 | −46.1 | −13.5 | 0.0 0.0 1.0 | 306.2 | 30.3 | 76.0 | −103.5 | 1.0 0.0 1.0 | 328.2 | 57.2 | 94.3 | −58.4 |
| 1.0 0.12 0.0 | 41.3 | 51.5 | 73.9 | 64.9 | 0.87 1.0 0.0 | 110.5 | 90.4 | −33.1 | 88.1 | 0.0 1.0 0.12 | 137.0 | 83.6 | −82.1 | 76.6 | 0.0 0.87 1.0 | 219.8 | 77.9 | −32.3 | −27.0 | 0.12 0.0 1.0 | 306.6 | 31.0 | 76.2 | −102.4 | 1.0 0.0 0.87 | 334.0 | 55.6 | 90.3 | −43.9 |
| 1.0 0.25 0.0 | 44.6 | 54.0 | 66.7 | 65.9 | 0.75 1.0 0.0 | 117.6 | 88.5 | −44.9 | 85.8 | 0.0 1.0 0.25 | 139.3 | 83.8 | −80.5 | 69.1 | 0.0 0.75 1.0 | 247.2 | 69.1 | −17.0 | −40.7 | 0.25 0.0 1.0 | 307.5 | 32.6 | 76.8 | −99.8 | 1.0 0.0 0.75 | 341.6 | 54.2 | 86.7 | −28.6 |
| 1.0 0.37 0.0 | 50.7 | 58.2 | 55.4 | 67.9 | 0.62 1.0 0.0 | 123.6 | 86.9 | −55.8 | 83.9 | 0.0 1.0 0.37 | 143.2 | 84.0 | −77.8 | 58.1 | 0.0 0.62 1.0 | 269.8 | 60.3 | −0.1 | −54.6 | 0.37 0.0 1.0 | 309.2 | 35.1 | 77.9 | −95.5 | 1.0 0.0 0.62 | 351.4 | 53.0 | 83.6 | −12.6 |
| 1.0 0.5 0.0 | 59.7 | 63.6 | 41.3 | 71.0 | 0.5 1.0 0.0 | 128.3 | 85.7 | −65.2 | 82.4 | 0.0 1.0 0.5 | 148.6 | 84.3 | −73.7 | 44.9 | 0.0 0.5 1.0 | 285.0 | 51.7 | 18.3 | −68.3 | 0.5 0.0 1.0 | 311.6 | 38.5 | 79.8 | −89.7 | 1.0 0.0 0.5 | 2.9 | 52.0 | 81.1 | 4.1 |
| 1.0 0.62 0.0 | 71.0 | 70.1 | 25.7 | 75.0 | 0.37 1.0 0.0 | 131.8 | 84.7 | −72.8 | 81.2 | 0.0 1.0 0.62 | 155.8 | 84.7 | −68.5 | 30.6 | 0.0 0.37 1.0 | 294.8 | 43.8 | 37.6 | −81.2 | 0.62 0.0 1.0 | 314.8 | 42.7 | 82.5 | −82.7 | 1.0 0.0 0.37 | 15.2 | 51.3 | 79.2 | 21.6 |
| 1.0 0.75 0.0 | 82.9 | 77.2 | 9.8 | 79.7 | 0.25 1.0 0.0 | 134.1 | 84.1 | −78.2 | 80.5 | 0.0 1.0 0.75 | 165.6 | 85.3 | −62.0 | 15.9 | 0.0 0.25 1.0 | 301.1 | 37.1 | 55.9 | −92.3 | 0.75 0.0 1.0 | 318.8 | 47.2 | 85.8 | −75.1 | 1.0 0.0 0.25 | 26.7 | 50.8 | 77.9 | 39.2 |
| 1.0 0.87 0.0 | 93.8 | 84.8 | −5.7 | 85.0 | 0.12 1.0 0.0 | 135.5 | 83.7 | −81.4 | 80.0 | 0.0 1.0 0.87 | 178.8 | 86.0 | −54.5 | 1.0 | 0.0 0.12 1.0 | 304.8 | 32.4 | 69.5 | −100.0 | 0.87 0.0 1.0 | 323.3 | 52.1 | 89.8 | −66.9 | 1.0 0.0 0.12 | 35.4 | 50.6 | 77.2 | 54.9 |

***RJGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:*** 0.0, 0.0, 0 ***LAB*Wio:*** 95.4, 0.0, 0.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.4 | 42.1 | 58.8 | 75.6 | 92.3 | 109.7 | 127.2 | 144.7 | 162.2 | 189.6 | 216.9 | 244.3 | 271.7 | 300.1 | 328.6 | 357.0 |
| 45 | 1 | 3 | 5 | 6 | 8 | 11 | 19 | 21 | 23 | 24 | 25 | 27 | 29 | 40 | 43 |
| 2.9 15.2 | 40.0 41.3 | 44.6 50.7 | 59.7 71.0 | 71.0 82.9 | 93.8 102.8 | 117.6 123.6 | 139.3 143.2 | 148.6 155.8 | 165.6 178.8 | 178.8 196.3 | 196.3 219.8 | 247.2 269.8 | 285.0 294.8 | 323.3 328.2 | 341.6 351.4 |
| 26.7 35.4 | 44.6 50.7 | 59.7 71.0 | 82.9 93.8 | 93.8 102.8 | 110.5 117.6 | 128.3 131.8 | 148.6 155.8 | 165.6 178.8 | 196.3 219.8 | 219.8 247.2 | 247.2 269.8 | 285.0 294.8 | 301.1 304.8 | 334.0 341.6 | 2.9 15.2 |
| 0.892 | 0.259 | 0.9 | 0.383 | 0.855 | 0.897 | 0.768 | 0.279 | 0.649 | 0.613 | 0.878 | 0.894 | 0.124 | 0.838 | 0.064 | 0.488 |
| 652 651 | 648 657 | 666 675 | 684 693 | 693 702 | 711 720 | 558 477 | 74 75 | 76 77 | 78 79 | 79 80 | 80 71 | 62 53 | 44 35 | 575 656 | 654 653 |
| 650 649 | 666 675 | 684 693 | 702 711 | 711 720 | 639 558 | 396 315 | 76 77 | 78 79 | 80 71 | 71 62 | 62 53 | 44 35 | 26 17 | 655 654 | 652 651 |
| 508 507 | 504 531 | 558 585 | 612 639 | 639 666 | 693 720 | 234 711 | 218 219 | 220 221 | 222 223 | 223 224 | 224 197 | 170 143 | 116 89 | 269 512 | 510 509 |
| 506 505 | 558 585 | 612 639 | 666 693 | 693 720 | 477 234 | 468 225 | 220 221 | 222 223 | 224 197 | 197 170 | 170 143 | 116 89 | 62 35 | 511 510 | 508 507 |

**16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7**

| *Code* | *iton* | *index* | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> olv** | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> rgb** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***r00j=R*** | 651 | 507 | 38.3 | 19.5 | 11.4 | 0.5520 | .552 | 51.3 | 79.2 | 21.6 | 51.3 | 79.2 | 21.6 | 82.1 | **15.2** | **1.0, 0.0, 0.37** | | | | | | | | | | | | | | |
| | 650 | 506 | 37.3 | 19.1 | 5.9 | 0.5970 | .597 | 50.8 | 77.9 | 39.2 | 50.8 | 77.9 | 39.2 | 87.2 | **26.7** | **1.0, 0.0, 0.25** | 37.4 | 19.1 | 6.5 | 0.592 | 0.303 | 50.9 | 78.1 | 37.1 | 50.9 | 78.1 | 37.1 | 86.4 | **25.4** | **1.00 0.00 0.00** |
| ***r25j*** | 657 | 531 | 36.9 | 19.7 | 1.8 | 0.6310 | .631 | 51.5 | 73.9 | 64.9 | 51.5 | 73.9 | 64.9 | 98.3 | **41.3** | **1.0, 0.12, 0.0** | | | | | | | | | | | | | | |
| | 666 | 558 | 38.1 | 22.0 | 2.2 | 0.610 | .61 | 54.0 | 66.7 | 65.9 | 54.0 | 66.7 | 65.9 | 93.8 | **44.6** | **1.0, 0.25, 0.0** | 37.2 | 20.3 | 1.9 | 0.625 | 0.341 | 52.2 | 71.9 | 65.2 | 52.2 | 71.9 | 65.2 | 97.1 | **42.1** | **1.00 0.25 0.00** |
| ***r50j*** | 675 | 585 | 40.2 | 26.1 | 2.9 | 0.5790 | .579 | 58.2 | 55.4 | 67.9 | 58.2 | 55.4 | 67.9 | 87.7 | **50.7** | **1.0, 0.37, 0.0** | | | | | | | | | | | | | | |
| | 684 | 612 | 43.3 | 32.3 | 3.9 | 0.5430 | .543 | 63.6 | 41.3 | 71.0 | 63.6 | 41.3 | 71.0 | 82.2 | **59.7** | **1.0, 0.5, 0.0** | 42.9 | 31.7 | 3.8 | 0.546 | 0.403 | 63.1 | 42.7 | 70.7 | 63.1 | 42.7 | 70.7 | 82.6 | **58.8** | **1.00 0.50 0.00** |
| ***r75j*** | 693 | 639 | 47.5 | 40.9 | 5.3 | 0.5060 | .506 | 70.1 | 25.7 | 75.0 | 70.1 | 25.7 | 75.0 | 79.3 | **71.0** | **1.0, 0.62, 0.0** | | | | | | | | | | | | | | |
| | 702 | 666 | 53.0 | 51.9 | 7.2 | 0.4720 | .472 | 77.2 | 9.8 | 79.7 | 77.2 | 9.8 | 79.7 | 80.4 | **82.9** | **1.0, 0.75, 0.0** | 49.5 | 44.7 | 6.0 | 0.493 | 0.446 | 72.7 | 19.7 | 76.7 | 72.7 | 19.7 | 76.7 | 79.2 | **75.5** | **1.00 0.75 0.00** |
| ***j00g=J*** | 702 | 666 | 53.0 | 51.9 | 7.2 | 0.4720 | .472 | 77.2 | 9.8 | 79.7 | 77.2 | 9.8 | 79.7 | 80.4 | **82.9** | **1.0, 0.75, 0.0** | | | | | | | | | | | | | | |
| | 711 | 693 | 59.9 | 65.6 | 9.5 | 0.4430 | .443 | 84.8 | −5.7 | 85.0 | 84.8 | −5.7 | 85.0 | 85.2 | **93.8** | **1.0, 0.87, 0.0** | 58.8 | 63.3 | 9.1 | 0.447 | 0.482 | 83.6 | −3.4 | 84.2 | 83.6 | −3.4 | 84.2 | 84.3 | **92.3** | **1.00 1.00 0.00** |
| ***j25g*** | 720 | 720 | 68.2 | 82.1 | 12.2 | 0.4190 | .419 | 92.6 | −20.7 | 90.7 | 92.6 | −20.7 | 90.7 | 93.0 | **102.8** | **1.0, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 639 | 477 | 58.6 | 77.2 | 11.8 | 0.3970 | .397 | 90.4 | −33.1 | 88.1 | 90.4 | −33.1 | 88.1 | 94.1 | **110.5** | **0.87, 1.0, 0.0** | 59.9 | 78.1 | 11.9 | 0.399 | 0.521 | 90.8 | −31.8 | 88.5 | 90.8 | −31.8 | 88.5 | 94.0 | **109.7** | **0.75 1.00 0.00** |
| ***j50g*** | 477 | 711 | 44.4 | 69.9 | 11.1 | 0.3530 | .353 | 86.9 | −55.8 | 83.9 | 86.9 | −55.8 | 83.9 | 100.7 | **123.6** | **0.62, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 396 | 468 | 39.4 | 67.3 | 10.9 | 0.3350 | .335 | 85.7 | −65.2 | 82.4 | 85.7 | −65.2 | 82.4 | 105.1 | **128.3** | **0.5, 1.0, 0.0** | 40.6 | 67.9 | 10.9 | 0.339 | 0.568 | 85.9 | −63.0 | 82.7 | 85.9 | −63.0 | 82.7 | 104.0 | **127.2** | **0.50 1.00 0.00** |
| ***j75g*** | 75 | 219 | 33.5 | 64.1 | 20.3 | 0.2840 | .284 | 84.0 | −77.8 | 58.1 | 84.0 | −77.8 | 58.1 | 97.1 | **143.2** | **0.0, 1.0, 0.37** | | | | | | | | | | | | | | |
| | 76 | 220 | 35.0 | 64.7 | 28.5 | 0.2730 | .273 | 84.3 | −73.7 | 44.9 | 84.3 | −73.7 | 44.9 | 86.4 | **148.6** | **0.0, 1.0, 0.5** | 33.9 | 64.2 | 22.6 | 0.281 | 0.531 | 84.1 | −76.6 | 54.1 | 84.1 | −76.6 | 54.1 | 93.8 | **144.7** | **0.25 1.00 0.00** |
| ***g00b=G*** | 77 | 221 | 37.2 | 65.5 | 39.8 | 0.260 | .26 | 84.7 | −68.5 | 30.6 | 84.7 | −68.5 | 30.6 | 75.0 | **155.8** | **0.0, 1.0, 0.62** | | | | | | | | | | | | | | |
| | 78 | 222 | 40.0 | 66.7 | 54.5 | 0.2480 | .248 | 85.3 | −62.0 | 15.9 | 85.3 | −62.0 | 15.9 | 64.0 | **165.6** | **0.0, 1.0, 0.75** | 39.0 | 66.3 | 49.5 | 0.252 | 0.428 | 85.1 | −64.2 | 20.5 | 85.1 | −64.2 | 20.5 | 67.4 | **162.2** | **0.00 1.00 0.00** |
| ***g25b*** | 79 | 223 | 43.4 | 68.0 | 72.7 | 0.2350 | .235 | 86.0 | −54.5 | 1.0 | 86.0 | −54.5 | 1.0 | 54.5 | **178.8** | **0.0, 1.0, 0.87** | | | | | | | | | | | | | | |
| | 80 | 224 | 47.6 | 69.7 | 94.7 | 0.2240 | .224 | 86.8 | −46.1 | −13.5 | 86.8 | −46.1 | −13.5 | 48.1 | **196.3** | **0.0, 1.0, 1.0** | 46.9 | 70.3 | 88.0 | 0.228 | 0.342 | 87.1 | −49.5 | −8.4 | 87.1 | −49.5 | −8.4 | 50.2 | **189.6** | **0.00 1.00 0.50** |
| ***g50b*** | 80 | 224 | 47.6 | 69.7 | 94.7 | 0.2240 | .224 | 86.8 | −46.1 | −13.5 | 86.8 | −46.1 | −13.5 | 48.1 | **196.3** | **0.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 71 | 197 | 39.3 | 53.2 | 91.9 | 0.2130 | .213 | 77.9 | −32.3 | −27.0 | 77.9 | −32.3 | −27.0 | 42.1 | **219.8** | **0.0, 0.87, 1.0** | 40.4 | 55.1 | 92.7 | 0.214 | 0.292 | 79.1 | −33.9 | −25.6 | 79.1 | −33.9 | −25.6 | 42.5 | **217.0** | **0.00 1.00 1.00** |
| ***g75b*** | 71 | 197 | 39.3 | 53.2 | 91.9 | 0.2130 | .213 | 77.9 | −32.3 | −27.0 | 77.9 | −32.3 | −27.0 | 42.1 | **219.8** | **0.0, 0.87, 1.0** | | | | | | | | | | | | | | |
| | 62 | 170 | 32.5 | 39.5 | 89.7 | 0.2010 | .201 | 69.1 | −17.0 | −40.7 | 69.1 | −17.0 | −40.7 | 44.1 | **247.2** | **0.0, 0.75, 1.0** | 33.2 | 40.9 | 89.9 | 0.202 | 0.249 | 70.1 | −18.8 | −39.1 | 70.1 | −18.8 | −39.1 | 43.4 | **244.2** | **0.00 0.50 1.00** |
| ***b00r=B*** | 53 | 143 | 27.0 | 28.4 | 87.8 | 0.1880 | .188 | 60.3 | −0.1 | −54.6 | 60.3 | −0.1 | −54.6 | 54.6 | **269.8** | **0.0, 0.62, 1.0** | | | | | | | | | | | | | | |
| | 44 | 116 | 22.7 | 19.9 | 86.4 | 0.1760 | .176 | 51.7 | 18.3 | −68.3 | 51.7 | 18.3 | −68.3 | 70.7 | **285.0** | **0.0, 0.5, 1.0** | 26.5 | 27.4 | 87.7 | 0.187 | 0.193 | 59.3 | 1.7 | −56.0 | 59.3 | 1.7 | −56.0 | 56.1 | **271.7** | **0.00 0.00 1.00** |
| ***b25r*** | 35 | 89 | 19.6 | 13.7 | 85.4 | 0.1650 | .165 | 43.8 | 37.6 | −81.2 | 43.8 | 37.6 | −81.2 | 89.5 | **294.8** | **0.0, 0.37, 1.0** | | | | | | | | | | | | | | |
| | 26 | 62 | 17.6 | 9.6 | 84.7 | 0.1570 | .157 | 37.1 | 55.9 | −92.3 | 37.1 | 55.9 | −92.3 | 107.9 | **301.1** | **0.0, 0.25, 1.0** | 17.9 | 10.2 | 84.8 | 0.158 | 0.09 | 38.3 | 52.5 | −90.3 | 38.3 | 52.5 | −90.3 | 104.4 | **300.1** | **0.50 0.00 1.00** |
| ***b50r*** | 656 | 512 | 52.5 | 25.2 | 85.9 | 0.320 | .32 | 57.2 | 94.3 | −58.4 | 57.2 | 94.3 | −58.4 | 110.9 | **328.2** | **1.0, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 655 | 511 | 48.3 | 23.5 | 63.9 | 0.3550 | .355 | 55.6 | 90.3 | −43.9 | 55.6 | 90.3 | −43.9 | 100.4 | **334.0** | **1.0, 0.0, 0.87** | 52.5 | 25.2 | 84.6 | 0.323 | 0.155 | 57.3 | 94.2 | −57.4 | 57.3 | 94.2 | −57.4 | 110.4 | **328.6** | **1.00 0.00 1.00** |
| ***b75r*** | 653 | 509 | 42.1 | 21.0 | 31.0 | 0.4460 | .446 | 53.0 | 83.6 | −12.6 | 53.0 | 83.6 | −12.6 | 84.6 | **351.4** | **1.0, 0.0, 0.62** | | | | | | | | | | | | | | |
| | 652 | 508 | 39.9 | 20.2 | 19.7 | 0.50 | .5 | 52.0 | 81.1 | 4.1 | 52.0 | 81.1 | 4.1 | 81.2 | **2.9** | **1.0, 0.0, 0.5** | 40.9 | 20.5 | 24.9 | 0.473 | 0.238 | 52.5 | 82.3 | −4.2 | 52.5 | 82.3 | −4.2 | 82.4 | **357.0** | **1.00 0.00 0.50** |

**5 step equidistant grey scale with intended lightness: *L** = 0.0, 23.8, 47.7, 71.5, 95.4**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***n000w=N*** | 999 | 999 | 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** | **0.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 999 | 999 | 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** | **0.0, 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 | 0.0 | 0.0 | **0.00 0.00 0.00** |
| ***n025w*** | 1000 | 1000 | 1.2 | 1.2 | 1.3 | 0.312 | 0.312 | 11.0 | 0.0 | 0.0 | 11.0 | 0.0 | 0.0 | 0.0 | **325.1** | **0.12, 0.12, 0.12** | | | | | | | | | | | | | | |
| | 1001 | 1001 | 4.2 | 4.5 | 4.9 | 0.312 | 0.312 | 25.2 | 0.0 | 0.0 | 25.2 | 0.0 | 0.0 | 0.0 | **325.4** | **0.25, 0.25, 0.25** | 3.8 | 4.0 | 4.4 | 0.312 | 0.329 | 23.8 | 0.0 | 0.0 | **23.8** | 0.0 | 0.0 | 0.0 | 325.3 | **0.25 0.25 0.25** |
| ***n050w*** | 1002 | 1002 | 9.7 | 10.2 | 11.1 | 0.312 | 0.312 | 38.3 | 0.0 | 0.0 | 38.3 | 0.0 | 0.0 | 0.0 | **325.2** | **0.37, 0.37, 0.37** | | | | | | | | | | | | | | |
| | 1003 | 1003 | 18.0 | 18.9 | 20.6 | 0.312 | 0.312 | 50.6 | 0.0 | 0.0 | 50.6 | 0.0 | 0.0 | 0.0 | **325.0** | **0.5, 0.5, 0.5** | 15.7 | 16.6 | 18.0 | 0.312 | 0.329 | 47.7 | 0.0 | 0.0 | **47.7** | 0.0 | 0.0 | 0.0 | 325.1 | **0.50 0.50 0.50** |
| ***n075w*** | 1004 | 1004 | 29.3 | 30.8 | 33.6 | 0.312 | 0.312 | 62.4 | 0.0 | 0.0 | 62.4 | 0.0 | 0.0 | 0.0 | **325.3** | **0.62, 0.62, 0.62** | | | | | | | | | | | | | | |
| | 1005 | 1005 | 43.9 | 46.2 | 50.4 | 0.312 | 0.312 | 73.7 | 0.0 | 0.0 | 73.7 | 0.0 | 0.0 | 0.0 | **324.2** | **0.75, 0.75, 0.75** | 40.7 | 42.8 | 46.6 | 0.312 | 0.329 | 71.4 | 0.0 | 0.0 | **71.4** | 0.0 | 0.0 | 0.0 | 325.1 | **0.75 0.75 0.75** |
| ***n100w=W*** | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | 84.1 | 88.5 | 96.4 | 0.312 | 0.329 | 95.4 | 0.0 | 0.0 | **95.4** | 0.0 | 0.0 | 0.0 | 0.0 | **1.00 1.00 1.00** |

KE140−7N, Page 4/11, LAB*la0, adapted=not adapted

**48 step circle with interpretation *rgb −> olv** device hue steps of 1080 standard colours**

| *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 0.0 0.0 | 38.3 | 51.0 | 75.5 | 59.6 | 1.0 1.0 0.0 | 102.9 | 92.6 | −20.5 | 89.2 | 0.0 1.0 0.0 | 136.2 | 83.7 | −81.8 | 78.3 | 0.0 1.0 1.0 | 196.4 | 86.9 | −45.7 | −13.4 | 0.0 0.0 1.0 | 305.7 | 31.7 | 72.9 | −101.2 | 1.0 0.0 1.0 | 328.1 | 57.7 | 93.0 | −57.7 |
| 1.0 0.12 0.0 | 39.7 | 52.0 | 72.6 | 60.3 | 0.87 1.0 0.0 | 110.7 | 90.4 | −32.8 | 86.5 | 0.0 1.0 0.12 | 137.2 | 83.7 | −81.2 | 75.1 | 0.0 0.87 1.0 | 219.9 | 78.1 | −32.0 | −26.7 | 0.12 0.0 1.0 | 306.1 | 32.3 | 73.2 | −100.2 | 1.0 0.0 0.87 | 334.0 | 56.1 | 89.0 | −43.3 |
| 1.0 0.25 0.0 | 43.3 | 54.5 | 65.6 | 61.8 | 0.75 1.0 0.0 | 117.8 | 88.5 | −44.5 | 84.3 | 0.0 1.0 0.25 | 139.5 | 83.8 | −79.6 | 67.9 | 0.0 0.75 1.0 | 247.3 | 69.3 | −16.8 | −40.3 | 0.25 0.0 1.0 | 307.1 | 33.8 | 73.9 | −97.7 | 1.0 0.0 0.75 | 341.7 | 54.7 | 85.4 | −28.2 |
| 1.0 0.37 0.0 | 49.7 | 58.6 | 54.6 | 64.4 | 0.62 1.0 0.0 | 123.8 | 87.0 | −55.2 | 82.3 | 0.0 1.0 0.37 | 143.3 | 84.1 | −76.9 | 57.2 | 0.0 0.62 1.0 | 269.8 | 60.6 | −0.1 | −54.0 | 0.37 0.0 1.0 | 308.8 | 36.2 | 75.4 | −93.6 | 1.0 0.0 0.62 | 351.4 | 53.5 | 82.3 | −12.4 |
| 1.0 0.5 0.0 | 59.0 | 63.9 | 40.8 | 68.1 | 0.5 1.0 0.0 | 128.6 | 85.7 | −64.5 | 80.8 | 0.0 1.0 0.5 | 148.6 | 84.4 | −72.9 | 44.3 | 0.0 0.5 1.0 | 284.9 | 52.3 | 17.9 | −67.4 | 0.5 0.0 1.0 | 311.3 | 39.5 | 77.6 | −88.1 | 1.0 0.0 0.5 | 2.9 | 52.6 | 79.8 | 4.0 |
| 1.0 0.62 0.0 | 70.6 | 70.3 | 25.4 | 72.6 | 0.37 1.0 0.0 | 132.1 | 84.8 | −72.0 | 79.7 | 0.0 1.0 0.62 | 155.9 | 84.8 | −67.7 | 30.3 | 0.0 0.37 1.0 | 294.6 | 44.6 | 36.6 | −79.9 | 0.62 0.0 1.0 | 314.6 | 43.5 | 80.5 | −81.4 | 1.0 0.0 0.37 | 15.0 | 51.9 | 77.9 | 20.9 |
| 1.0 0.75 0.0 | 82.8 | 77.4 | 9.7 | 77.7 | 0.25 1.0 0.0 | 134.4 | 84.2 | −77.4 | 78.9 | 0.0 1.0 0.75 | 165.6 | 85.4 | −61.4 | 15.7 | 0.0 0.25 1.0 | 300.8 | 38.1 | 54.0 | −90.6 | 0.75 0.0 1.0 | 318.6 | 47.9 | 84.2 | −74.0 | 1.0 0.0 0.25 | 26.1 | 51.4 | 76.6 | 37.5 |
| 1.0 0.87 0.0 | 93.9 | 84.8 | −5.7 | 83.3 | 0.12 1.0 0.0 | 135.7 | 83.8 | −80.5 | 78.4 | 0.0 1.0 0.87 | 178.8 | 86.1 | −54.0 | 1.0 | 0.0 0.12 1.0 | 304.3 | 33.7 | 66.9 | −97.9 | 0.87 0.0 1.0 | 323.2 | 52.7 | 88.4 | −66.0 | 1.0 0.0 0.12 | 34.2 | 51.1 | 75.8 | 51.7 |

***RJGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:*** 5.6, 0.0, 0.0 ***LAB*Wio:*** 95.4, 0.0, 0.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.4 | 42.1 | 58.8 | 75.6 | 92.3 | 109.7 | 127.2 | 144.7 | 162.2 | 189.6 | 216.9 | 244.3 | 271.7 | 300.1 | 328.6 | 357.0 |
| 45 | 1 | 3 | 5 | 6 | 8 | 11 | 19 | 21 | 23 | 24 | 25 | 27 | 29 | 40 | 43 |
| 2.9 15.0 | 38.3 39.7 | 43.3 49.7 | 59.0 70.6 | 70.6 82.8 | 93.9 102.9 | 117.8 123.8 | 139.5 143.3 | 148.6 155.9 | 165.6 178.8 | 178.8 196.4 | 196.4 219.9 | 247.3 269.8 | 284.9 294.6 | 323.2 328.1 | 341.7 351.4 |
| 26.1 34.2 | 43.3 49.7 | 59.0 70.6 | 82.8 93.9 | 93.9 102.9 | 110.7 117.8 | 128.6 132.1 | 148.6 155.9 | 165.6 178.8 | 196.4 219.9 | 219.9 247.3 | 247.3 269.8 | 284.9 294.6 | 300.8 304.3 | 334.0 341.7 | 2.9 15.0 |
| 0.941 | 0.687 | 0.981 | 0.405 | 0.853 | 0.875 | 0.717 | 0.264 | 0.65 | 0.612 | 0.875 | 0.891 | 0.125 | 0.896 | 0.071 | 0.488 |
| 652 651 | 648 657 | 666 675 | 684 693 | 693 702 | 711 720 | 558 477 | 74 75 | 76 77 | 78 79 | 79 80 | 80 71 | 62 53 | 44 35 | 575 656 | 654 653 |
| 650 649 | 666 675 | 684 693 | 702 711 | 711 720 | 639 558 | 396 315 | 76 77 | 78 79 | 80 71 | 71 62 | 62 53 | 44 35 | 26 17 | 655 654 | 652 651 |
| 508 507 | 504 531 | 558 585 | 612 639 | 639 666 | 693 720 | 234 711 | 218 219 | 220 221 | 222 223 | 223 224 | 224 197 | 170 143 | 116 89 | 269 512 | 510 509 |
| 506 505 | 558 585 | 612 639 | 666 693 | 693 720 | 477 234 | 468 225 | 220 221 | 222 223 | 224 197 | 197 170 | 170 143 | 116 89 | 62 35 | 511 510 | 508 507 |

**16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7**

| *Code* | *iton* | *index* | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> olv** | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> rgb** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***r00j=R*** | 651 | 507 | 38.7 | 20.0 | 12.0 | 0.5460.546 | | 51.9 | 77.9 | 20.9 | 51.9 | 77.9 | 20.9 | 80.6 | **15.0** | **1.0, 0.0, 0.37** | | | | | | | | | | | | | | |
| | 650 | 506 | 37.6 | 19.6 | 6.6 | 0.5890.589 | | 51.4 | 76.6 | 37.5 | 51.4 | 76.6 | 37.5 | 85.3 | **26.1** | **1.0, 0.0, 0.25** | 37.7 | 19.6 | 6.9 | 0.586 | 0.305 | 51.4 | 76.6 | 36.5 | 51.4 | 76.6 | 36.5 | 84.9 | **25.4** | **1.00 0.00 0.00** |
| ***r25j*** | 657 | 531 | 37.3 | 20.2 | 2.5 | 0.6210.621 | | 52.0 | 72.6 | 60.3 | 52.0 | 72.6 | 60.3 | 94.3 | **39.7** | **1.0, 0.12, 0.0** | | | | | | | | | | | | | | |
| | 666 | 558 | 38.4 | 22.5 | 2.9 | 0.6010.601 | | 54.5 | 65.6 | 61.8 | 54.5 | 65.6 | 61.8 | 90.1 | **43.3** | **1.0, 0.25, 0.0** | 38.1 | 21.8 | 2.7 | 0.607 | 0.347 | 53.8 | 67.7 | 61.3 | 53.8 | 67.7 | 61.3 | 91.3 | **42.1** | **1.00 0.25 0.00** |
| ***r50j*** | 675 | 585 | 40.5 | 26.6 | 3.5 | 0.5720.572 | | 58.6 | 54.6 | 64.4 | 58.6 | 54.6 | 64.4 | 84.5 | **49.7** | **1.0, 0.37, 0.0** | | | | | | | | | | | | | | |
| | 684 | 612 | 43.6 | 32.7 | 4.6 | 0.5380.538 | | 63.9 | 40.8 | 68.1 | 63.9 | 40.8 | 68.1 | 79.4 | **59.0** | **1.0, 0.5, 0.0** | 43.5 | 32.6 | 4.6 | 0.538 | 0.404 | 63.8 | 41.1 | 68.0 | 63.8 | 41.1 | 68.0 | 79.5 | **58.8** | **1.00 0.50 0.00** |
| ***r75j*** | 693 | 639 | 47.8 | 41.2 | 6.0 | 0.5020.502 | | 70.3 | 25.4 | 72.6 | 70.3 | 25.4 | 72.6 | 76.9 | **70.6** | **1.0, 0.62, 0.0** | | | | | | | | | | | | | | |
| | 702 | 666 | 53.3 | 52.2 | 7.8 | 0.470.47 | | 77.4 | 9.7 | 77.7 | 77.4 | 9.7 | 77.7 | 78.3 | **82.8** | **1.0, 0.75, 0.0** | 49.8 | 45.3 | 6.7 | 0.489 | 0.444 | 73.1 | 19.1 | 74.6 | 73.1 | 19.1 | 74.6 | 77.0 | **75.5** | **1.00 0.75 0.00** |
| ***j00g=J*** | 702 | 666 | 53.3 | 52.2 | 7.8 | 0.470.47 | | 77.4 | 9.7 | 77.7 | 77.4 | 9.7 | 77.7 | 78.3 | **82.8** | **1.0, 0.75, 0.0** | | | | | | | | | | | | | | |
| | 711 | 693 | 60.1 | 65.8 | 10.1 | 0.4410.441 | | 84.8 | −5.7 | 83.3 | 84.8 | −5.7 | 83.3 | 83.5 | **93.9** | **1.0, 0.87, 0.0** | 58.9 | 63.4 | 9.7 | 0.446 | 0.48 | 83.6 | −3.2 | 82.4 | 83.6 | −3.2 | 82.4 | 82.4 | **92.2** | **1.00 1.00 0.00** |
| ***j25g*** | 720 | 720 | 68.3 | 82.2 | 12.8 | 0.4180.418 | | 92.6 | −20.5 | 89.2 | 92.6 | −20.5 | 89.2 | 91.5 | **102.9** | **1.0, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 639 | 477 | 58.8 | 77.3 | 12.4 | 0.3950.395 | | 90.4 | −32.8 | 86.5 | 90.4 | −32.8 | 86.5 | 92.6 | **110.7** | **0.87, 1.0, 0.0** | 60.3 | 78.4 | 12.5 | 0.398 | 0.518 | 90.9 | −31.3 | 87.1 | 90.9 | −31.3 | 87.1 | 92.5 | **109.7** | **0.75 1.00 0.00** |
| ***j50g*** | 477 | 711 | 44.6 | 70.0 | 11.7 | 0.3530.353 | | 87.0 | −55.2 | 82.3 | 87.0 | −55.2 | 82.3 | 99.2 | **123.8** | **0.62, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 396 | 468 | 39.8 | 67.5 | 11.5 | 0.3340.334 | | 85.7 | −64.5 | 80.8 | 85.7 | −64.5 | 80.8 | 103.4 | **128.6** | **0.5, 1.0, 0.0** | 41.1 | 68.2 | 11.5 | 0.34 | 0.563 | 86.1 | −61.8 | 81.2 | 86.1 | −61.8 | 81.2 | 102.1 | **127.2** | **0.50 1.00 0.00** |
| ***j75g*** | 75 | 219 | 33.8 | 64.2 | 20.8 | 0.2840.284 | | 84.1 | −76.9 | 57.2 | 84.1 | −76.9 | 57.2 | 95.9 | **143.3** | **0.0, 1.0, 0.37** | | | | | | | | | | | | | | |
| | 76 | 220 | 35.4 | 64.8 | 29.0 | 0.2730.273 | | 84.4 | −72.9 | 44.3 | 84.4 | −72.9 | 44.3 | 85.4 | **148.6** | **0.0, 1.0, 0.5** | 34.3 | 64.4 | 23.0 | 0.281 | 0.529 | 84.1 | −75.8 | 53.5 | 84.1 | −75.8 | 53.5 | 92.9 | **144.7** | **0.25 1.00 0.00** |
| ***g00b=G*** | 77 | 221 | 37.5 | 65.7 | 40.2 | 0.2610.261 | | 84.8 | −67.7 | 30.3 | 84.8 | −67.7 | 30.3 | 74.2 | **155.9** | **0.0, 1.0, 0.62** | | | | | | | | | | | | | | |
| | 78 | 222 | 40.3 | 66.8 | 54.8 | 0.2480.248 | | 85.4 | −61.4 | 15.7 | 85.4 | −61.4 | 15.7 | 63.4 | **165.6** | **0.0, 1.0, 0.75** | 39.4 | 66.4 | 49.8 | 0.252 | 0.426 | 85.2 | −63.5 | 20.3 | 85.2 | −63.5 | 20.3 | 66.7 | **162.2** | **0.00 1.00 0.00** |
| ***g25b*** | 79 | 223 | 43.7 | 68.2 | 72.9 | 0.2360.236 | | 86.1 | −54.0 | 1.0 | 86.1 | −54.0 | 1.0 | 54.0 | **178.8** | **0.0, 1.0, 0.87** | | | | | | | | | | | | | | |
| | 80 | 224 | 47.9 | 69.8 | 94.7 | 0.2250.225 | | 86.9 | −45.7 | −13.4 | 86.9 | −45.7 | −13.4 | 47.6 | **196.4** | **0.0, 1.0, 1.0** | 47.1 | 70.5 | 87.9 | 0.229 | 0.342 | 87.2 | −49.1 | −8.2 | 87.2 | −49.1 | −8.2 | 49.8 | **189.5** | **0.00 1.00 0.50** |
| ***g50b*** | 80 | 224 | 47.9 | 69.8 | 94.7 | 0.2250.225 | | 86.9 | −45.7 | −13.4 | 86.9 | −45.7 | −13.4 | 47.6 | **196.4** | **0.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 71 | 197 | 39.7 | 53.4 | 92.0 | 0.2140.214 | | 78.1 | −32.0 | −26.7 | 78.1 | −32.0 | −26.7 | 41.7 | **219.9** | **0.0, 0.87, 1.0** | 40.7 | 55.3 | 92.7 | 0.215 | 0.293 | 79.2 | −33.5 | −25.3 | 79.2 | −33.5 | −25.3 | 42.1 | **217.0** | **0.00 1.00 1.00** |
| ***g75b*** | 71 | 197 | 39.7 | 53.4 | 92.0 | 0.2140.214 | | 78.1 | −32.0 | −26.7 | 78.1 | −32.0 | −26.7 | 41.7 | **219.9** | **0.0, 0.87, 1.0** | | | | | | | | | | | | | | |
| | 62 | 170 | 32.9 | 39.8 | 89.7 | 0.2020.202 | | 69.3 | −16.8 | −40.3 | 69.3 | −16.8 | −40.3 | 43.7 | **247.3** | **0.0, 0.75, 1.0** | 33.6 | 41.2 | 89.9 | 0.203 | 0.25 | 70.3 | −18.6 | −38.8 | 70.3 | −18.6 | −38.8 | 43.0 | **244.3** | **0.00 0.50 1.00** |
| ***b00r=B*** | 53 | 143 | 27.4 | 28.9 | 87.9 | 0.190.19 | | 60.6 | −0.1 | −54.0 | 60.6 | −0.1 | −54.0 | 54.0 | **269.8** | **0.0, 0.62, 1.0** | | | | | | | | | | | | | | |
| | 44 | 116 | 23.2 | 20.4 | 86.5 | 0.1780.178 | | 52.3 | 17.9 | −67.4 | 52.3 | 17.9 | −67.4 | 69.7 | **284.9** | **0.0, 0.5, 1.0** | 26.9 | 27.8 | 87.7 | 0.188 | 0.195 | 59.7 | 1.7 | −55.4 | 59.7 | 1.7 | −55.4 | 55.4 | **271.7** | **0.00 0.00 1.00** |
| ***b25r*** | 35 | 89 | 20.1 | 14.2 | 85.5 | 0.1670.167 | | 44.6 | 36.6 | −79.9 | 44.6 | 36.6 | −79.9 | 87.9 | **294.6** | **0.0, 0.37, 1.0** | | | | | | | | | | | | | | |
| | 26 | 62 | 18.0 | 10.1 | 84.8 | 0.1590.159 | | 38.1 | 54.0 | −90.6 | 38.1 | 54.0 | −90.6 | 105.5 | **300.8** | **0.0, 0.25, 1.0** | 18.2 | 10.6 | 84.8 | 0.16 | 0.093 | 38.9 | 52.0 | −89.4 | 38.9 | 52.0 | −89.4 | 103.4 | **300.1** | **0.50 0.00 1.00** |
| ***b50r*** | 656 | 512 | 52.7 | 25.6 | 85.9 | 0.320.32 | | 57.7 | 93.0 | −57.7 | 57.7 | 93.0 | −57.7 | 109.5 | **328.1** | **1.0, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 655 | 511 | 48.6 | 24.0 | 64.1 | 0.3550.355 | | 56.1 | 89.0 | −43.3 | 56.1 | 89.0 | −43.3 | 99.0 | **334.0** | **1.0, 0.0, 0.87** | 52.7 | 25.7 | 84.6 | 0.323 | 0.157 | 57.7 | 92.9 | −56.7 | 57.7 | 92.9 | −56.7 | 108.8 | **328.6** | **1.00 0.00 1.00** |
| ***b75r*** | 653 | 509 | 42.4 | 21.5 | 31.5 | 0.4440.444 | | 53.5 | 82.3 | −12.4 | 53.5 | 82.3 | −12.4 | 83.2 | **351.4** | **1.0, 0.0, 0.62** | | | | | | | | | | | | | | |
| | 652 | 508 | 40.2 | 20.6 | 20.2 | 0.4950.495 | | 52.6 | 79.8 | 4.0 | 52.6 | 79.8 | 4.0 | 79.9 | **2.9** | **1.0, 0.0, 0.5** | 41.2 | 21.0 | 25.4 | 0.469 | 0.24 | 53.0 | 80.9 | −4.1 | 53.0 | 80.9 | −4.1 | 81.0 | **357.0** | **1.00 0.00 0.50** |

**5 step equidistant grey scale with intended lightness: *L** = 5.6, 28.1, 50.5, 72.9, 95.4**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***n000w=N*** | 999 | 999 | 0.5 | 0.6 | 0.6 | 0.312 | 0.312 | 5.6 | 0.0 | 0.0 | 5.6 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 999 | 999 | 0.5 | 0.6 | 0.6 | 0.312 | 0.312 | 5.6 | 0.0 | 0.0 | 5.6 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | 0.5 | 0.6 | 0.6 | 0.312 | 0.329 | 5.6 | 0.0 | 0.0 | **5.6** | 0.0 | 0.0 | 0.0 | 0.0 | **0.00 0.00 0.00** |
| ***n025w*** | 1001 | 1001 | 4.8 | 5.1 | 5.5 | 0.312 | 0.312 | 27.0 | 0.0 | 0.0 | 27.0 | 0.0 | 0.0 | 0.0 | **325.1** | **0.25, 0.25, 0.25** | | | | | | | | | | | | | | |
| | 1002 | 1002 | 10.2 | 10.8 | 11.7 | 0.312 | 0.312 | 39.3 | 0.0 | 0.0 | 39.3 | 0.0 | 0.0 | 0.0 | **324.9** | **0.37, 0.37, 0.37** | 5.2 | 5.5 | 6.0 | 0.312 | 0.329 | 28.1 | 0.0 | 0.0 | **28.1** | 0.0 | 0.0 | 0.0 | 325.1 | **0.25 0.25 0.25** |
| ***n050w*** | 1002 | 1002 | 10.2 | 10.8 | 11.7 | 0.312 | 0.312 | 39.3 | 0.0 | 0.0 | 39.3 | 0.0 | 0.0 | 0.0 | **324.9** | **0.37, 0.37, 0.37** | | | | | | | | | | | | | | |
| | 1003 | 1003 | 18.4 | 19.4 | 21.1 | 0.312 | 0.312 | 51.2 | 0.0 | 0.0 | 51.2 | 0.0 | 0.0 | 0.0 | **324.7** | **0.5, 0.5, 0.5** | 17.9 | 18.8 | 20.5 | 0.312 | 0.329 | 50.5 | 0.0 | 0.0 | **50.5** | 0.0 | 0.0 | 0.0 | 324.8 | **0.50 0.50 0.50** |
| ***n075w*** | 1004 | 1004 | 29.7 | 31.2 | 34.0 | 0.312 | 0.312 | 62.7 | 0.0 | 0.0 | 62.7 | 0.0 | 0.0 | 0.0 | **324.2** | **0.62, 0.62, 0.62** | | | | | | | | | | | | | | |
| | 1005 | 1005 | 44.2 | 46.5 | 50.7 | 0.312 | 0.312 | 73.9 | 0.0 | 0.0 | 73.9 | 0.0 | 0.0 | 0.0 | **322.3** | **0.75, 0.75, 0.75** | 42.9 | 45.1 | 49.2 | 0.312 | 0.329 | 73.0 | 0.0 | 0.0 | **73.0** | 0.0 | 0.0 | 0.0 | 323.7 | **0.75 0.75 0.75** |
| ***n100w=W*** | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | 84.1 | 88.5 | 96.4 | 0.312 | 0.329 | 95.4 | 0.0 | 0.0 | **95.4** | 0.0 | 0.0 | 0.0 | 0.0 | **1.00 1.00 1.00** |

KE140−7N, Page 5/11, LAB*la1, adapted=not adapted

**48 step circle with interpretation *rgb −> olv** device hue steps of 1080 standard colours**

| *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 0.0 0.0 | 36.9 | 51.6 | 74.2 | 55.8 | 1.0 1.0 0.0 | 103.0 | 92.7 | −20.3 | 87.7 | 0.0 1.0 0.0 | 136.4 | 83.8 | −80.8 | 76.8 | 0.0 1.0 1.0 | 196.4 | 87.0 | −45.3 | −13.3 | 0.0 0.0 1.0 | 305.2 | 33.0 | 70.0 | −99.1 | 1.0 0.0 1.0 | 328.1 | 58.1 | 91.8 | −57.0 |
| 1.0 0.12 0.0 | 38.4 | 52.6 | 71.3 | 56.5 | 0.87 1.0 0.0 | 110.9 | 90.5 | −32.5 | 85.1 | 0.0 1.0 0.12 | 137.4 | 83.8 | −80.2 | 73.7 | 0.0 0.87 1.0 | 219.9 | 78.2 | −31.6 | −26.5 | 0.12 0.0 1.0 | 305.6 | 33.6 | 70.4 | −98.1 | 1.0 0.0 0.87 | 334.0 | 56.5 | 87.7 | −42.7 |
| 1.0 0.25 0.0 | 42.1 | 55.0 | 64.5 | 58.4 | 0.75 1.0 0.0 | 118.0 | 88.6 | −44.1 | 82.8 | 0.0 1.0 0.25 | 139.6 | 83.9 | −78.7 | 66.8 | 0.0 0.75 1.0 | 247.4 | 69.6 | −16.6 | −39.9 | 0.25 0.0 1.0 | 306.6 | 35.0 | 71.3 | −95.7 | 1.0 0.0 0.75 | 341.7 | 55.1 | 84.1 | −27.7 |
| 1.0 0.37 0.0 | 48.7 | 59.0 | 53.8 | 61.4 | 0.62 1.0 0.0 | 124.0 | 87.0 | −54.7 | 80.8 | 0.0 1.0 0.37 | 143.4 | 84.1 | −76.0 | 56.4 | 0.0 0.62 1.0 | 269.8 | 61.0 | −0.1 | −53.4 | 0.37 0.0 1.0 | 308.4 | 37.3 | 73.0 | −91.8 | 1.0 0.0 0.62 | 351.4 | 54.0 | 81.0 | −12.1 |
| 1.0 0.5 0.0 | 58.4 | 64.3 | 40.2 | 65.5 | 0.5 1.0 0.0 | 128.8 | 85.8 | −63.9 | 79.3 | 0.0 1.0 0.5 | 148.7 | 84.5 | −72.1 | 43.8 | 0.0 0.5 1.0 | 284.7 | 52.8 | 17.5 | −66.5 | 0.5 0.0 1.0 | 311.0 | 40.4 | 75.5 | −86.5 | 1.0 0.0 0.5 | 2.9 | 53.1 | 78.4 | 3.9 |
| 1.0 0.62 0.0 | 70.3 | 70.5 | 25.2 | 70.3 | 0.37 1.0 0.0 | 132.3 | 84.9 | −71.2 | 78.1 | 0.0 1.0 0.62 | 155.9 | 84.9 | −67.0 | 29.9 | 0.0 0.37 1.0 | 294.3 | 45.3 | 35.7 | −78.7 | 0.62 0.0 1.0 | 314.4 | 44.2 | 78.7 | −80.1 | 1.0 0.0 0.37 | 14.8 | 52.4 | 76.5 | 20.3 |
| 1.0 0.75 0.0 | 82.7 | 77.5 | 9.6 | 75.8 | 0.25 1.0 0.0 | 134.6 | 84.3 | −76.5 | 77.4 | 0.0 1.0 0.75 | 165.6 | 85.5 | −60.7 | 15.5 | 0.0 0.25 1.0 | 300.4 | 39.1 | 52.3 | −89.0 | 0.75 0.0 1.0 | 318.5 | 48.5 | 82.5 | −72.9 | 1.0 0.0 0.25 | 25.6 | 52.0 | 75.2 | 36.0 |
| 1.0 0.87 0.0 | 93.9 | 84.9 | −5.6 | 81.6 | 0.12 1.0 0.0 | 135.9 | 83.9 | −79.6 | 76.9 | 0.0 1.0 0.87 | 178.8 | 86.1 | −53.4 | 1.0 | 0.0 0.12 1.0 | 303.8 | 34.9 | 64.4 | −96.0 | 0.87 0.0 1.0 | 323.1 | 53.2 | 87.0 | −65.1 | 1.0 0.0 0.12 | 33.3 | 51.7 | 74.5 | 48.9 |

***RJGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:** 10.9, 0.0, 0.0 ***LAB*Wio:** 95.4, 0.0, 0.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.4 | 42.1 | 58.8 | 75.6 | 92.3 | 109.7 | 127.2 | 144.7 | 162.2 | 189.6 | 216.9 | 244.3 | 271.7 | 300.1 | 328.6 | 357.0 |
| 45 | 2 | 4 | 5 | 6 | 8 | 11 | 19 | 21 | 23 | 24 | 25 | 27 | 29 | 40 | 43 |
| 2.9 14.8 | 38.4 42.1 | 48.7 58.4 | 58.4 70.3 | 70.3 82.7 | 93.9 103.0 | 118.0 124.0 | 139.6 143.4 | 148.7 155.9 | 165.6 178.8 | 178.8 196.4 | 196.4 219.9 | 247.4 269.8 | 284.7 294.3 | 323.1 328.1 | 341.7 351.4 |
| 25.6 33.3 | 48.7 58.4 | 70.3 82.7 | 82.7 93.9 | 93.9 103.0 | 110.9 118.0 | 128.8 132.3 | 148.7 155.9 | 165.6 178.8 | 196.4 219.9 | 219.9 247.4 | 247.4 269.8 | 284.7 294.3 | 300.4 303.8 | 334.0 341.7 | 2.9 14.8 |
| 0.988 | 0.004 | 0.04 | 0.425 | 0.851 | 0.855 | 0.668 | 0.249 | 0.65 | 0.611 | 0.872 | 0.888 | 0.126 | 0.953 | 0.078 | 0.487 |
| 652 651 | 657 666 | 675 684 | 684 693 | 693 702 | 711 720 | 558 477 | 74 75 | 76 77 | 78 79 | 79 80 | 80 71 | 62 53 | 44 35 | 575 656 | 654 653 |
| 650 649 | 675 684 | 693 702 | 702 711 | 711 720 | 639 558 | 396 315 | 76 77 | 78 79 | 80 71 | 71 62 | 62 53 | 44 35 | 26 17 | 655 654 | 652 651 |
| 508 507 | 531 558 | 585 612 | 612 639 | 639 666 | 693 720 | 234 711 | 218 219 | 220 221 | 222 223 | 223 224 | 224 197 | 170 143 | 116 89 | 269 512 | 510 509 |
| 506 505 | 585 612 | 639 666 | 666 693 | 693 720 | 477 234 | 468 225 | 220 221 | 222 223 | 224 197 | 197 170 | 170 143 | 116 89 | 62 35 | 511 510 | 508 507 |

**16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7**

| *Code* | *iton* | *index* | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> olv** | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> rgb** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***r00j=R*** | 651 | 507 | 39.0 | 20.5 | 12.6 | 0.540.54 | | 52.4 | 76.5 | 20.3 | 52.4 | 76.5 | 20.3 | 79.2 | **14.8** | **1.0, 0.0, 0.37** | | | | | | | | | | | | | | |
| | 650 | 506 | 38.0 | 20.1 | 7.2 | 0.580.58 | | 52.0 | 75.2 | 36.0 | 52.0 | 75.2 | 36.0 | 83.4 | **25.6** | **1.0, 0.0, 0.25** | 38.0 | 20.1 | 7.3 | 0.58 | 0.307 | 52.0 | 75.2 | 35.9 | 52.0 | 75.2 | 35.9 | 83.4 | **25.4** | **1.00 0.00 0.00** |
| ***r25j*** | 666 | 558 | 38.7 | 23.0 | 3.5 | 0.5930.593 | | 55.0 | 64.5 | 58.4 | 55.0 | 64.5 | 58.4 | 87.0 | **42.1** | **1.0, 0.25, 0.0** | | | | | | | | | | | | | | |
| | 675 | 585 | 40.8 | 27.0 | 4.2 | 0.5650.565 | | 59.0 | 53.8 | 61.4 | 59.0 | 53.8 | 61.4 | 81.7 | **48.7** | **1.0, 0.37, 0.0** | 38.8 | 23.0 | 3.5 | 0.593 | 0.351 | 55.0 | 64.5 | 58.4 | 55.0 | 64.5 | 58.4 | 87.0 | **42.1** | **1.00 0.25 0.00** |
| ***r50j*** | 684 | 612 | 43.8 | 33.1 | 5.2 | 0.5320.532 | | 64.3 | 40.2 | 65.5 | 64.3 | 40.2 | 65.5 | 76.9 | **58.4** | **1.0, 0.5, 0.0** | | | | | | | | | | | | | | |
| | 693 | 639 | 48.0 | 41.5 | 6.6 | 0.4990.499 | | 70.5 | 25.2 | 70.3 | 70.5 | 25.2 | 70.3 | 74.7 | **70.3** | **1.0, 0.62, 0.0** | 44.0 | 33.5 | 5.3 | 0.531 | 0.404 | 64.5 | 39.6 | 65.7 | 64.5 | 39.6 | 65.7 | 76.7 | **58.8** | **1.00 0.50 0.00** |
| ***r75j*** | 693 | 639 | 48.0 | 41.5 | 6.6 | 0.4990.499 | | 70.5 | 25.2 | 70.3 | 70.5 | 25.2 | 70.3 | 74.7 | **70.3** | **1.0, 0.62, 0.0** | | | | | | | | | | | | | | |
| | 702 | 666 | 53.5 | 52.4 | 8.4 | 0.4670.467 | | 77.5 | 9.6 | 75.8 | 77.5 | 9.6 | 75.8 | 76.4 | **82.7** | **1.0, 0.75, 0.0** | 50.2 | 45.9 | 7.4 | 0.485 | 0.443 | 73.4 | 18.5 | 72.6 | 73.4 | 18.5 | 72.6 | 75.0 | **75.6** | **1.00 0.75 0.00** |
| ***j00g=J*** | 702 | 666 | 53.5 | 52.4 | 8.4 | 0.4670.467 | | 77.5 | 9.6 | 75.8 | 77.5 | 9.6 | 75.8 | 76.4 | **82.7** | **1.0, 0.75, 0.0** | | | | | | | | | | | | | | |
| | 711 | 693 | 60.2 | 65.9 | 10.7 | 0.440.44 | | 84.9 | −5.6 | 81.6 | 84.9 | −5.6 | 81.6 | 81.8 | **93.9** | **1.0, 0.87, 0.0** | 59.1 | 63.6 | 10.3 | 0.444 | 0.478 | 83.7 | −3.2 | 80.7 | 83.7 | −3.2 | 80.7 | 80.7 | **92.3** | **1.00 1.00 0.00** |
| ***j25g*** | 720 | 720 | 68.4 | 82.2 | 13.4 | 0.4160.416 | | 92.7 | −20.3 | 87.7 | 92.7 | −20.3 | 87.7 | 90.1 | **103.0** | **1.0, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 639 | 477 | 59.0 | 77.4 | 13.0 | 0.3940.394 | | 90.5 | −32.5 | 85.1 | 90.5 | −32.5 | 85.1 | 91.1 | **110.9** | **0.87, 1.0, 0.0** | 60.7 | 78.6 | 13.1 | 0.398 | 0.515 | 91.0 | −30.8 | 85.6 | 91.0 | −30.8 | 85.6 | 91.0 | **109.8** | **0.75 1.00 0.00** |
| ***j50g*** | 477 | 711 | 44.9 | 70.1 | 12.3 | 0.3520.352 | | 87.0 | −54.7 | 80.8 | 87.0 | −54.7 | 80.8 | 97.6 | **124.0** | **0.62, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 396 | 468 | 40.1 | 67.6 | 12.1 | 0.3340.334 | | 85.8 | −63.9 | 79.3 | 85.8 | −63.9 | 79.3 | 101.8 | **128.8** | **0.5, 1.0, 0.0** | 41.7 | 68.5 | 12.2 | 0.34 | 0.559 | 86.2 | −60.7 | 79.8 | 86.2 | −60.7 | 79.8 | 100.3 | **127.2** | **0.50 1.00 0.00** |
| ***j75g*** | 75 | 219 | 34.2 | 64.4 | 21.4 | 0.2850.285 | | 84.1 | −76.0 | 56.4 | 84.1 | −76.0 | 56.4 | 94.7 | **143.4** | **0.0, 1.0, 0.37** | | | | | | | | | | | | | | |
| | 76 | 220 | 35.7 | 65.0 | 29.5 | 0.2740.274 | | 84.5 | −72.1 | 43.8 | 84.5 | −72.1 | 43.8 | 84.4 | **148.7** | **0.0, 1.0, 0.5** | 34.6 | 64.6 | 23.4 | 0.282 | 0.526 | 84.2 | −75.0 | 53.0 | 84.2 | −75.0 | 53.0 | 91.9 | **144.7** | **0.25 1.00 0.00** |
| ***g00b=G*** | 77 | 221 | 37.9 | 65.9 | 40.7 | 0.2620.262 | | 84.9 | −67.0 | 29.9 | 84.9 | −67.0 | 29.9 | 73.4 | **155.9** | **0.0, 1.0, 0.62** | | | | | | | | | | | | | | |
| | 78 | 222 | 40.6 | 67.0 | 55.1 | 0.2490.249 | | 85.5 | −60.7 | 15.5 | 85.5 | −60.7 | 15.5 | 62.7 | **165.6** | **0.0, 1.0, 0.75** | 39.7 | 66.6 | 50.2 | 0.253 | 0.425 | 85.3 | −62.8 | 20.1 | 85.3 | −62.8 | 20.1 | 66.0 | **162.2** | **0.00 1.00 0.00** |
| ***g25b*** | 79 | 223 | 44.0 | 68.3 | 73.0 | 0.2370.237 | | 86.1 | −53.4 | 1.0 | 86.1 | −53.4 | 1.0 | 53.5 | **178.8** | **0.0, 1.0, 0.87** | | | | | | | | | | | | | | |
| | 80 | 224 | 48.1 | 70.0 | 94.7 | 0.2260.226 | | 87.0 | −45.3 | −13.3 | 87.0 | −45.3 | −13.3 | 47.2 | **196.4** | **0.0, 1.0, 1.0** | 47.4 | 70.6 | 88.0 | 0.23 | 0.342 | 87.3 | −48.6 | −8.2 | 87.3 | −48.6 | −8.2 | 49.3 | **189.5** | **0.00 1.00 0.50** |
| ***g50b*** | 80 | 224 | 48.1 | 70.0 | 94.7 | 0.2260.226 | | 87.0 | −45.3 | −13.3 | 87.0 | −45.3 | −13.3 | 47.2 | **196.4** | **0.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 71 | 197 | 40.0 | 53.7 | 92.0 | 0.2150.215 | | 78.2 | −31.6 | −26.5 | 78.2 | −31.6 | −26.5 | 41.2 | **219.9** | **0.0, 0.87, 1.0** | 41.1 | 55.7 | 92.8 | 0.216 | 0.293 | 79.4 | −33.3 | −25.0 | 79.4 | −33.3 | −25.0 | 41.7 | **216.9** | **0.00 1.00 1.00** |
| ***g75b*** | 71 | 197 | 40.0 | 53.7 | 92.0 | 0.2150.215 | | 78.2 | −31.6 | −26.5 | 78.2 | −31.6 | −26.5 | 41.2 | **219.9** | **0.0, 0.87, 1.0** | | | | | | | | | | | | | | |
| | 62 | 170 | 33.2 | 40.2 | 89.8 | 0.2030.203 | | 69.6 | −16.6 | −39.9 | 69.6 | −16.6 | −39.9 | 43.2 | **247.4** | **0.0, 0.75, 1.0** | 33.9 | 41.5 | 90.0 | 0.205 | 0.251 | 70.5 | −18.3 | −38.4 | 70.5 | −18.3 | −38.4 | 42.6 | **244.4** | **0.00 0.50 1.00** |
| ***b00r=B*** | 53 | 143 | 27.8 | 29.3 | 87.9 | 0.1910.191 | | 61.0 | −0.1 | −53.4 | 61.0 | −0.1 | −53.4 | 53.4 | **269.8** | **0.0, 0.62, 1.0** | | | | | | | | | | | | | | |
| | 44 | 116 | 23.6 | 20.9 | 86.5 | 0.180.18 | | 52.8 | 17.5 | −66.5 | 52.8 | 17.5 | −66.5 | 68.8 | **284.7** | **0.0, 0.5, 1.0** | 27.3 | 28.3 | 87.8 | 0.19 | 0.197 | 60.1 | 1.6 | −54.8 | 60.1 | 1.6 | −54.8 | 54.8 | **271.7** | **0.00 0.00 1.00** |
| ***b25r*** | 35 | 89 | 20.5 | 14.8 | 85.5 | 0.170.17 | | 45.3 | 35.7 | −78.7 | 45.3 | 35.7 | −78.7 | 86.4 | **294.3** | **0.0, 0.37, 1.0** | | | | | | | | | | | | | | |
| | 26 | 62 | 18.5 | 10.7 | 84.9 | 0.1620.162 | | 39.1 | 52.3 | −89.0 | 39.1 | 52.3 | −89.0 | 103.2 | **300.4** | **0.0, 0.25, 1.0** | 18.6 | 10.9 | 84.9 | 0.162 | 0.095 | 39.4 | 51.4 | −88.4 | 39.4 | 51.4 | −88.4 | 102.3 | **300.1** | **0.50 0.00 1.00** |
| ***b50r*** | 656 | 512 | 52.9 | 26.1 | 86.0 | 0.320.32 | | 58.1 | 91.8 | −57.0 | 58.1 | 91.8 | −57.0 | 108.0 | **328.1** | **1.0, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 655 | 511 | 48.8 | 24.4 | 64.3 | 0.3540.354 | | 56.5 | 87.7 | −42.7 | 56.5 | 87.7 | −42.7 | 97.5 | **334.0** | **1.0, 0.0, 0.87** | 52.9 | 26.1 | 84.5 | 0.323 | 0.159 | 58.1 | 91.6 | −55.9 | 58.1 | 91.6 | −55.9 | 107.3 | **328.6** | **1.00 0.00 1.00** |
| ***b75r*** | 653 | 509 | 42.7 | 22.0 | 31.9 | 0.4410.441 | | 54.0 | 81.0 | −12.1 | 54.0 | 81.0 | −12.1 | 81.9 | **351.4** | **1.0, 0.0, 0.62** | | | | | | | | | | | | | | |
| | 652 | 508 | 40.5 | 21.1 | 20.8 | 0.4910.491 | | 53.1 | 78.4 | 3.9 | 53.1 | 78.4 | 3.9 | 78.5 | **2.9** | **1.0, 0.0, 0.5** | 41.5 | 21.5 | 25.9 | 0.466 | 0.242 | 53.5 | 79.6 | −4.0 | 53.5 | 79.6 | −4.0 | 79.7 | **357.0** | **1.00 0.00 0.50** |

**5 step equidistant grey scale with intended lightness: *L** = 10.9, 32.0, 53.2, 74.3, 95.4**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***n000w=N*** | 999 | 999 | 1.1 | 1.2 | 1.3 | 0.312 | 0.312 | 10.9 | 0.0 | 0.0 | 10.9 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 999 | 999 | 1.1 | 1.2 | 1.3 | 0.312 | 0.312 | 10.9 | 0.0 | 0.0 | 10.9 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | 1.1 | 1.2 | 1.3 | 0.312 | 0.329 | 10.9 | 0.0 | 0.0 | **10.9** | 0.0 | 0.0 | 0.0 | 0.0 | **0.00 0.00 0.00** |
| ***n025w*** | 1001 | 1001 | 5.4 | 5.7 | 6.2 | 0.312 | 0.312 | 28.6 | 0.0 | 0.0 | 28.6 | 0.0 | 0.0 | 0.0 | **325.7** | **0.25, 0.25, 0.25** | | | | | | | | | | | | | | |
| | 1002 | 1002 | 10.8 | 11.3 | 12.4 | 0.312 | 0.312 | 40.2 | 0.0 | 0.0 | 40.2 | 0.0 | 0.0 | 0.0 | **325.1** | **0.37, 0.37, 0.37** | 6.7 | 7.1 | 7.7 | 0.312 | 0.329 | 32.1 | 0.0 | 0.0 | **32.1** | 0.0 | 0.0 | 0.0 | 325.6 | **0.25 0.25 0.25** |
| ***n050w*** | 1003 | 1003 | 18.9 | 19.9 | 21.7 | 0.312 | 0.312 | 51.7 | 0.0 | 0.0 | 51.7 | 0.0 | 0.0 | 0.0 | **325.5** | **0.5, 0.5, 0.5** | | | | | | | | | | | | | | |
| | 1004 | 1004 | 30.1 | 31.6 | 34.5 | 0.312 | 0.312 | 63.0 | 0.0 | 0.0 | 63.0 | 0.0 | 0.0 | 0.0 | **324.9** | **0.62, 0.62, 0.62** | 20.1 | 21.1 | 23.0 | 0.312 | 0.329 | 53.1 | 0.0 | 0.0 | **53.1** | 0.0 | 0.0 | 0.0 | 325.5 | **0.50 0.50 0.50** |
| ***n075w*** | 1005 | 1005 | 44.5 | 46.8 | 51.0 | 0.312 | 0.312 | 74.1 | 0.0 | 0.0 | 74.1 | 0.0 | 0.0 | 0.0 | **323.5** | **0.75, 0.75, 0.75** | | | | | | | | | | | | | | |
| | 1006 | 1006 | 62.5 | 65.7 | 71.6 | 0.312 | 0.312 | 84.8 | 0.0 | 0.0 | 84.8 | 0.0 | 0.0 | 0.0 | **324.2** | **0.87, 0.87, 0.87** | 44.8 | 47.1 | 51.3 | 0.312 | 0.329 | 74.2 | 0.0 | 0.0 | **74.2** | 0.0 | 0.0 | 0.0 | 323.5 | **0.75 0.75 0.75** |
| ***n100w=W*** | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | 84.1 | 88.5 | 96.4 | 0.312 | 0.329 | 95.4 | 0.0 | 0.0 | **95.4** | 0.0 | 0.0 | 0.0 | 0.0 | **1.00 1.00 1.00** |

KE140−7N, Page 6/11, LAB*la2, adapted=not adapted

**48 step circle with interpretation *rgb −> olv** device hue steps of 1080 standard colours**

| *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 0.0 0.0 | 34.8 | 52.7 | 71.6 | 49.8 | 1.0 1.0 0.0 | 103.2 | 92.7 | −20.0 | 84.9 | 0.0 1.0 0.0 | 136.9 | 84.0 | −79.0 | 73.9 | 0.0 1.0 1.0 | 196.4 | 87.1 | −44.4 | −13.1 | 0.0 0.0 1.0 | 304.3 | 35.4 | 64.9 | −95.0 | 1.0 0.0 1.0 | 328.0 | 59.0 | 89.3 | −55.7 |
| 1.0 0.12 0.0 | 36.3 | 53.7 | 68.9 | 50.7 | 0.87 1.0 0.0 | 111.2 | 90.5 | −31.9 | 82.2 | 0.0 1.0 0.12 | 137.7 | 84.0 | −78.4 | 71.1 | 0.0 0.87 1.0 | 220.1 | 78.5 | −30.9 | −26.0 | 0.12 0.0 1.0 | 304.7 | 35.9 | 65.4 | −94.2 | 1.0 0.0 0.87 | 333.9 | 57.4 | 85.2 | −41.5 |
| 1.0 0.25 0.0 | 40.2 | 56.0 | 62.4 | 52.9 | 0.75 1.0 0.0 | 118.4 | 88.7 | −43.3 | 79.9 | 0.0 1.0 0.25 | 139.9 | 84.1 | −76.9 | 64.6 | 0.0 0.75 1.0 | 247.5 | 70.1 | −16.1 | −39.1 | 0.25 0.0 1.0 | 305.8 | 37.2 | 66.6 | −92.1 | 1.0 0.0 0.75 | 341.7 | 56.1 | 81.5 | −26.9 |
| 1.0 0.37 0.0 | 47.2 | 59.8 | 52.2 | 56.4 | 0.62 1.0 0.0 | 124.5 | 87.2 | −53.6 | 78.0 | 0.0 1.0 0.37 | 143.5 | 84.3 | −74.3 | 54.8 | 0.0 0.62 1.0 | 269.8 | 61.8 | −0.1 | −52.2 | 0.37 0.0 1.0 | 307.8 | 39.3 | 68.6 | −88.5 | 1.0 0.0 0.62 | 351.5 | 55.0 | 78.4 | −11.7 |
| 1.0 0.5 0.0 | 57.2 | 64.9 | 39.2 | 61.0 | 0.5 1.0 0.0 | 129.2 | 86.0 | −62.5 | 76.4 | 0.0 1.0 0.5 | 148.8 | 84.6 | −70.6 | 42.7 | 0.0 0.5 1.0 | 284.5 | 53.9 | 16.8 | −64.8 | 0.5 0.0 1.0 | 310.5 | 42.2 | 71.5 | −83.6 | 1.0 0.0 0.5 | 2.8 | 54.1 | 75.9 | 3.8 |
| 1.0 0.62 0.0 | 69.6 | 71.0 | 24.6 | 66.4 | 0.37 1.0 0.0 | 132.7 | 85.0 | −69.7 | 75.3 | 0.0 1.0 0.62 | 155.9 | 85.1 | −65.6 | 29.3 | 0.0 0.37 1.0 | 293.9 | 46.8 | 33.9 | −76.3 | 0.62 0.0 1.0 | 314.0 | 45.7 | 75.2 | −77.7 | 1.0 0.0 0.37 | 14.5 | 53.5 | 74.0 | 19.1 |
| 1.0 0.75 0.0 | 82.5 | 77.8 | 9.4 | 72.3 | 0.25 1.0 0.0 | 135.1 | 84.4 | −74.8 | 74.5 | 0.0 1.0 0.75 | 165.5 | 85.6 | −59.5 | 15.2 | 0.0 0.25 1.0 | 299.7 | 41.0 | 49.1 | −85.9 | 0.75 0.0 1.0 | 318.2 | 49.8 | 79.5 | −70.9 | 1.0 0.0 0.25 | 24.6 | 53.0 | 72.6 | 33.4 |
| 1.0 0.87 0.0 | 94.0 | 85.1 | −5.5 | 78.5 | 0.12 1.0 0.0 | 136.3 | 84.1 | −77.8 | 74.1 | 0.0 1.0 0.87 | 178.8 | 86.3 | −52.4 | 1.0 | 0.0 0.12 1.0 | 303.0 | 37.1 | 60.0 | −92.3 | 0.87 0.0 1.0 | 322.9 | 54.2 | 84.2 | −63.5 | 1.0 0.0 0.12 | 31.6 | 52.8 | 71.9 | 44.4 |

***RJGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:*** 18.0, 0.0, 0.0 ***LAB*Wio:*** 95.4, 0.0, 0.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.4 | 42.1 | 58.8 | 75.6 | 92.3 | 109.7 | 127.2 | 144.7 | 162.2 | 189.6 | 216.9 | 244.3 | 271.7 | 300.1 | 328.6 | 357.0 |
| 46 | 2 | 4 | 5 | 6 | 8 | 11 | 19 | 21 | 23 | 24 | 25 | 27 | 30 | 40 | 43 |
| 14.5 24.6 | 36.3 40.2 | 47.2 57.2 | 57.2 69.6 | 69.6 82.5 | 94.0 103.2 | 118.4 124.5 | 139.9 143.5 | 148.8 155.9 | 165.5 178.8 | 178.8 196.4 | 196.4 220.1 | 247.5 269.8 | 293.9 299.7 | 322.9 328.0 | 341.7 351.5 |
| 31.6 34.8 | 47.2 57.2 | 69.6 82.5 | 82.5 94.0 | 94.0 103.2 | 111.2 118.4 | 129.2 132.7 | 148.8 155.9 | 165.5 178.8 | 196.4 220.1 | 220.1 247.5 | 247.5 269.8 | 284.5 293.9 | 303.0 304.3 | 333.9 341.7 | 2.8 14.5 |
| 0.111 | 0.276 | 0.131 | 0.461 | 0.848 | 0.817 | 0.577 | 0.22 | 0.651 | 0.609 | 0.866 | 0.882 | 0.128 | 0.119 | 0.092 | 0.487 |
| 651 650 | 657 666 | 675 684 | 684 693 | 693 702 | 711 720 | 558 477 | 74 75 | 76 77 | 78 79 | 79 80 | 80 71 | 62 53 | 35 26 | 575 656 | 654 653 |
| 649 648 | 675 684 | 693 702 | 702 711 | 711 720 | 639 558 | 396 315 | 76 77 | 78 79 | 80 71 | 71 62 | 62 53 | 44 35 | 17 8 | 655 654 | 652 651 |
| 507 506 | 531 558 | 585 612 | 612 639 | 639 666 | 693 720 | 234 711 | 218 219 | 220 221 | 222 223 | 223 224 | 224 197 | 170 143 | 89 62 | 269 512 | 510 509 |
| 505 504 | 585 612 | 639 666 | 666 693 | 693 720 | 477 234 | 468 225 | 220 221 | 222 223 | 224 197 | 197 170 | 170 143 | 116 89 | 35 8 | 511 510 | 508 507 |

**16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7**

| *Code* | *iton* | *index* | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> olv** | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> rgb** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***r00j=R*** | 650 | 506 | 38.6 | 21.1 | 8.5 | 0.5650 | .565 | 53.0 | 72.6 | 33.4 | 53.0 | 72.6 | 33.4 | 80.0 | **24.6** | **1.0, 0.0, 0.25** | | | | | | | | | | | | | | |
| | 649 | 505 | 38.1 | 20.9 | 5.5 | 0.5890 | .589 | 52.8 | 71.9 | 44.4 | 52.8 | 71.9 | 44.4 | 84.5 | **31.6** | **1.0, 0.0, 0.12** | 38.6 | 21.1 | 8.2 | 0.568 | 0.31 | 53.0 | 72.6 | 34.5 | 53.0 | 72.6 | 34.5 | 80.4 | **25.4** | **1.00 0.00 0.00** |
| ***r25j*** | 666 | 558 | 39.4 | 23.9 | 4.9 | 0.5770 | .577 | 56.0 | 62.4 | 52.9 | 56.0 | 62.4 | 52.9 | 81.8 | **40.2** | **1.0, 0.25, 0.0** | | | | | | | | | | | | | | |
| | 675 | 585 | 41.4 | 27.9 | 5.5 | 0.5520 | .552 | 59.8 | 52.2 | 56.4 | 59.8 | 52.2 | 56.4 | 76.9 | **47.2** | **1.0, 0.37, 0.0** | 40.0 | 25.0 | 5.1 | 0.57 | 0.357 | 57.1 | 59.5 | 53.9 | 57.1 | 59.5 | 53.9 | 80.3 | **42.1** | **1.00 0.25 0.00** |
| ***r50j*** | 684 | 612 | 44.4 | 33.9 | 6.5 | 0.5220 | .522 | 64.9 | 39.2 | 61.0 | 64.9 | 39.2 | 61.0 | 72.5 | **57.2** | **1.0, 0.5, 0.0** | | | | | | | | | | | | | | |
| | 693 | 639 | 48.6 | 42.2 | 7.9 | 0.4910 | .491 | 71.0 | 24.6 | 66.4 | 71.0 | 24.6 | 66.4 | 70.8 | **69.6** | **1.0, 0.62, 0.0** | 44.9 | 34.9 | 6.7 | 0.518 | 0.403 | 65.7 | 37.3 | 61.7 | 65.7 | 37.3 | 61.7 | 72.1 | **58.8** | **1.00 0.50 0.00** |
| ***r75j*** | 693 | 639 | 48.6 | 42.2 | 7.9 | 0.4910 | .491 | 71.0 | 24.6 | 66.4 | 71.0 | 24.6 | 66.4 | 70.8 | **69.6** | **1.0, 0.62, 0.0** | | | | | | | | | | | | | | |
| | 702 | 666 | 53.9 | 52.9 | 9.7 | 0.4620 | .462 | 77.8 | 9.4 | 72.3 | 77.8 | 9.4 | 72.3 | 72.9 | **82.5** | **1.0, 0.75, 0.0** | 50.9 | 46.8 | 8.7 | 0.477 | 0.439 | 74.0 | 17.7 | 69.0 | 74.0 | 17.7 | 69.0 | 71.2 | **75.6** | **1.00 0.75 0.00** |
| ***j00g=J*** | 702 | 666 | 53.9 | 52.9 | 9.7 | 0.4620 | .462 | 77.8 | 9.4 | 72.3 | 77.8 | 9.4 | 72.3 | 72.9 | **82.5** | **1.0, 0.75, 0.0** | | | | | | | | | | | | | | |
| | 711 | 693 | 60.6 | 66.2 | 11.9 | 0.4360 | .436 | 85.1 | −5.5 | 78.5 | 85.1 | −5.5 | 78.5 | 78.7 | **94.0** | **1.0, 0.87, 0.0** | 59.4 | 63.8 | 11.5 | 0.44 | 0.473 | 83.8 | −3.0 | 77.4 | 83.8 | −3.0 | 77.4 | 77.5 | **92.2** | **1.00 1.00 0.00** |
| ***j25g*** | 720 | 720 | 68.6 | 82.3 | 14.6 | 0.4140 | .414 | 92.7 | −20.0 | 84.9 | 92.7 | −20.0 | 84.9 | 87.3 | **103.2** | **1.0, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 639 | 477 | 59.3 | 77.5 | 14.2 | 0.3920 | .392 | 90.5 | −31.9 | 82.2 | 90.5 | −31.9 | 82.2 | 88.2 | **111.2** | **0.87, 1.0, 0.0** | 61.4 | 79.0 | 14.3 | 0.396 | 0.51 | 91.2 | −29.9 | 83.0 | 91.2 | −29.9 | 83.0 | 88.2 | **109.8** | **0.75 1.00 0.00** |
| ***j50g*** | 477 | 711 | 45.5 | 70.4 | 13.5 | 0.3510 | .351 | 87.2 | −53.6 | 78.0 | 87.2 | −53.6 | 78.0 | 94.7 | **124.5** | **0.62, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 396 | 468 | 40.7 | 67.9 | 13.3 | 0.3330 | .333 | 86.0 | −62.5 | 76.4 | 86.0 | −62.5 | 76.4 | 98.8 | **129.2** | **0.5, 1.0, 0.0** | 42.7 | 69.0 | 13.4 | 0.341 | 0.551 | 86.5 | −58.7 | 77.1 | 86.5 | −58.7 | 77.1 | 96.9 | **127.2** | **0.50 1.00 0.00** |
| ***j75g*** | 75 | 219 | 34.9 | 64.7 | 22.4 | 0.2860 | .286 | 84.3 | −74.3 | 54.8 | 84.3 | −74.3 | 54.8 | 92.4 | **143.5** | **0.0, 1.0, 0.37** | | | | | | | | | | | | | | |
| | 76 | 220 | 36.4 | 65.4 | 30.5 | 0.2750 | .275 | 84.6 | −70.6 | 42.7 | 84.6 | −70.6 | 42.7 | 82.5 | **148.8** | **0.0, 1.0, 0.5** | 35.3 | 64.9 | 24.2 | 0.283 | 0.521 | 84.4 | −73.5 | 51.9 | 84.4 | −73.5 | 51.9 | 90.0 | **144.7** | **0.25 1.00 0.00** |
| ***g00b=G*** | 77 | 221 | 38.5 | 66.2 | 41.5 | 0.2630 | .263 | 85.1 | −65.6 | 29.3 | 85.1 | −65.6 | 29.3 | 71.8 | **155.9** | **0.0, 1.0, 0.62** | | | | | | | | | | | | | | |
| | 78 | 222 | 41.2 | 67.3 | 55.7 | 0.2510 | .251 | 85.6 | −59.5 | 15.2 | 85.6 | −59.5 | 15.2 | 61.4 | **165.5** | **0.0, 1.0, 0.75** | 40.3 | 66.9 | 50.8 | 0.255 | 0.423 | 85.4 | −61.5 | 19.7 | 85.4 | −61.5 | 19.7 | 64.6 | **162.1** | **0.00 1.00 0.00** |
| ***g25b*** | 79 | 223 | 44.6 | 68.6 | 73.4 | 0.2390 | .239 | 86.3 | −52.4 | 1.0 | 86.3 | −52.4 | 1.0 | 52.4 | **178.8** | **0.0, 1.0, 0.87** | | | | | | | | | | | | | | |
| | 80 | 224 | 48.7 | 70.2 | 94.7 | 0.2270 | .227 | 87.1 | −44.4 | −13.1 | 87.1 | −44.4 | −13.1 | 46.3 | **196.4** | **0.0, 1.0, 1.0** | 47.9 | 70.8 | 88.1 | 0.231 | 0.342 | 87.4 | −47.7 | −8.0 | 87.4 | −47.7 | −8.0 | 48.4 | **189.5** | **0.00 1.00 0.50** |
| ***g50b*** | 80 | 224 | 48.7 | 70.2 | 94.7 | 0.2270 | .227 | 87.1 | −44.4 | −13.1 | 87.1 | −44.4 | −13.1 | 46.3 | **196.4** | **0.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 71 | 197 | 40.6 | 54.2 | 92.1 | 0.2170 | .217 | 78.5 | −30.9 | −26.0 | 78.5 | −30.9 | −26.0 | 40.4 | **220.1** | **0.0, 0.87, 1.0** | 41.7 | 56.2 | 92.8 | 0.218 | 0.294 | 79.7 | −32.6 | −24.6 | 79.7 | −32.6 | −24.6 | 40.8 | **217.0** | **0.00 1.00 1.00** |
| ***g75b*** | 71 | 197 | 40.6 | 54.2 | 92.1 | 0.2170 | .217 | 78.5 | −30.9 | −26.0 | 78.5 | −30.9 | −26.0 | 40.4 | **220.1** | **0.0, 0.87, 1.0** | | | | | | | | | | | | | | |
| | 62 | 170 | 34.0 | 40.8 | 89.9 | 0.2060 | .206 | 70.1 | −16.1 | −39.1 | 70.1 | −16.1 | −39.1 | 42.3 | **247.5** | **0.0, 0.75, 1.0** | 34.7 | 42.3 | 90.1 | 0.207 | 0.253 | 71.1 | −18.0 | −37.5 | 71.1 | −18.0 | −37.5 | 41.6 | **244.3** | **0.00 0.50 1.00** |
| ***b00r=B*** | 53 | 143 | 28.6 | 30.1 | 88.1 | 0.1940 | .194 | 61.8 | −0.1 | −52.2 | 61.8 | −0.1 | −52.2 | 52.2 | **269.8** | **0.0, 0.62, 1.0** | | | | | | | | | | | | | | |
| | 44 | 116 | 24.5 | 21.9 | 86.7 | 0.1840 | .184 | 53.9 | 16.8 | −64.8 | 53.9 | 16.8 | −64.8 | 66.9 | **284.5** | **0.0, 0.5, 1.0** | 28.1 | 29.2 | 87.9 | 0.193 | 0.2 | 60.9 | 1.6 | −53.5 | 60.9 | 1.6 | −53.5 | 53.6 | **271.7** | **0.00 0.00 1.00** |
| ***b25r*** | 26 | 62 | 19.4 | 11.8 | 85.0 | 0.1670 | .167 | 41.0 | 49.1 | −85.9 | 41.0 | 49.1 | −85.9 | 99.0 | **299.7** | **0.0, 0.25, 1.0** | | | | | | | | | | | | | | |
| | 17 | 35 | 18.3 | 9.6 | 84.6 | 0.1630 | .163 | 37.1 | 60.0 | −92.3 | 37.1 | 60.0 | −92.3 | 110.0 | **303.0** | **0.0, 0.12, 1.0** | 19.3 | 11.5 | 85.0 | 0.166 | 0.1 | 40.5 | 50.3 | −86.6 | 40.5 | 50.3 | −86.6 | 100.2 | **300.1** | **0.50 0.00 1.00** |
| ***b50r*** | 656 | 512 | 53.4 | 27.0 | 86.2 | 0.320 | .32 | 59.0 | 89.3 | −55.7 | 59.0 | 89.3 | −55.7 | 105.2 | **328.0** | **1.0, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 655 | 511 | 49.3 | 25.4 | 64.8 | 0.3530 | .353 | 57.4 | 85.2 | −41.5 | 57.4 | 85.2 | −41.5 | 94.8 | **333.9** | **1.0, 0.0, 0.87** | 53.3 | 27.0 | 84.4 | 0.323 | 0.164 | 59.0 | 89.1 | −54.4 | 59.0 | 89.1 | −54.4 | 104.4 | **328.6** | **1.00 0.00 1.00** |
| ***b75r*** | 653 | 509 | 43.3 | 22.9 | 32.9 | 0.4360 | .436 | 55.0 | 78.4 | −11.7 | 55.0 | 78.4 | −11.7 | 79.3 | **351.5** | **1.0, 0.0, 0.62** | | | | | | | | | | | | | | |
| | 652 | 508 | 41.2 | 22.1 | 21.9 | 0.4830 | .483 | 54.1 | 75.9 | 3.8 | 54.1 | 75.9 | 3.8 | 76.0 | **2.8** | **1.0, 0.0, 0.5** | 42.1 | 22.5 | 27.0 | 0.459 | 0.245 | 54.5 | 77.1 | −4.0 | 54.5 | 77.1 | −4.0 | 77.2 | **357.0** | **1.00 0.00 0.50** |

**5 step equidistant grey scale with intended lightness: *L** = 18.0, 37.3, 56.7, 76.0, 95.4**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***n000w=N*** | 999 | 999 | 2.3 | 2.5 | 2.7 | 0.312 | 0.312 | 18.0 | 0.0 | 0.0 | 18.0 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 999 | 999 | 2.3 | 2.5 | 2.7 | 0.312 | 0.312 | 18.0 | 0.0 | 0.0 | 18.0 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | 2.3 | 2.5 | 2.7 | 0.312 | 0.329 | 18.0 | 0.0 | 0.0 | **18.0** | 0.0 | 0.0 | 0.0 | 0.0 | **0.00 0.00 0.00** |
| ***n025w*** | 1001 | 1001 | 6.5 | 6.8 | 7.5 | 0.312 | 0.312 | 31.5 | 0.0 | 0.0 | 31.5 | 0.0 | 0.0 | 0.0 | **325.5** | **0.25, 0.25, 0.25** | | | | | | | | | | | | | | |
| | 1002 | 1002 | 11.8 | 12.5 | 13.6 | 0.312 | 0.312 | 42.0 | 0.0 | 0.0 | 42.0 | 0.0 | 0.0 | 0.0 | **325.0** | **0.37, 0.37, 0.37** | 9.2 | 9.7 | 10.6 | 0.312 | 0.329 | 37.3 | 0.0 | 0.0 | **37.3** | 0.0 | 0.0 | 0.0 | 325.3 | **0.25 0.25 0.25** |
| ***n050w*** | 1003 | 1003 | 19.9 | 20.9 | 22.8 | 0.312 | 0.312 | 52.8 | 0.0 | 0.0 | 52.8 | 0.0 | 0.0 | 0.0 | **324.8** | **0.5, 0.5, 0.5** | | | | | | | | | | | | | | |
| | 1004 | 1004 | 30.9 | 32.5 | 35.4 | 0.312 | 0.312 | 63.7 | 0.0 | 0.0 | 63.7 | 0.0 | 0.0 | 0.0 | **324.7** | **0.62, 0.62, 0.62** | 23.4 | 24.6 | 26.8 | 0.312 | 0.329 | 56.7 | 0.0 | 0.0 | **56.7** | 0.0 | 0.0 | 0.0 | 324.8 | **0.50 0.50 0.50** |
| ***n075w*** | 1005 | 1005 | 45.1 | 47.4 | 51.7 | 0.312 | 0.312 | 74.5 | 0.0 | 0.0 | 74.5 | 0.0 | 0.0 | 0.0 | **323.7** | **0.75, 0.75, 0.75** | | | | | | | | | | | | | | |
| | 1006 | 1006 | 62.8 | 66.1 | 71.9 | 0.312 | 0.312 | 85.0 | 0.0 | 0.0 | 85.0 | 0.0 | 0.0 | 0.0 | **324.1** | **0.87, 0.87, 0.87** | 47.6 | 50.0 | 54.5 | 0.312 | 0.329 | 76.1 | 0.0 | 0.0 | **76.1** | 0.0 | 0.0 | 0.0 | 323.7 | **0.75 0.75 0.75** |
| ***n100w=W*** | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | 84.1 | 88.5 | 96.4 | 0.312 | 0.329 | 95.4 | 0.0 | 0.0 | **95.4** | 0.0 | 0.0 | 0.0 | 0.0 | **1.00 1.00 1.00** |

KE140−7N, Page 7/11, LAB*la3, adapted=not adapted

**48 step circle with interpretation *rgb −> olv** device hue steps of 1080 standard colours**

| *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 0.0 0.0 | 31.9 | 54.8 | 66.8 | 41.6 | 1.0 1.0 0.0 | 103.6 | 92.8 | −19.4 | 79.8 | 0.0 1.0 0.0 | 137.6 | 84.3 | −75.4 | 68.7 | 0.0 1.0 1.0 | 196.5 | 87.4 | −42.7 | −12.7 | 0.0 0.0 1.0 | 302.7 | 39.7 | 56.6 | −88.0 | 1.0 0.0 1.0 | 327.8 | 60.6 | 84.6 | −53.1 |
| 1.0 0.12 0.0 | 33.5 | 55.7 | 64.4 | 42.6 | 0.87 1.0 0.0 | 111.8 | 90.7 | −30.8 | 77.1 | 0.0 1.0 0.12 | 138.4 | 84.4 | −74.8 | 66.3 | 0.0 0.87 1.0 | 220.4 | 79.1 | −29.5 | −25.1 | 0.12 0.0 1.0 | 303.2 | 40.1 | 57.2 | −87.3 | 1.0 0.0 0.87 | 333.9 | 59.2 | 80.4 | −39.3 |
| 1.0 0.25 0.0 | 37.5 | 57.8 | 58.5 | 45.0 | 0.75 1.0 0.0 | 119.1 | 88.9 | −41.7 | 74.7 | 0.0 1.0 0.25 | 140.4 | 84.5 | −73.4 | 60.6 | 0.0 0.75 1.0 | 247.8 | 71.0 | −15.3 | −37.6 | 0.25 0.0 1.0 | 304.4 | 41.1 | 58.7 | −85.5 | 1.0 0.0 0.75 | 341.7 | 57.9 | 76.8 | −25.2 |
| 1.0 0.37 0.0 | 44.7 | 61.4 | 49.2 | 48.8 | 0.62 1.0 0.0 | 125.2 | 87.4 | −51.5 | 72.8 | 0.0 1.0 0.37 | 143.9 | 84.7 | −71.0 | 51.7 | 0.0 0.62 1.0 | 269.8 | 63.2 | −0.1 | −49.9 | 0.37 0.0 1.0 | 306.5 | 42.9 | 61.3 | −82.5 | 1.0 0.0 0.62 | 351.6 | 56.9 | 73.6 | −10.8 |
| 1.0 0.5 0.0 | 55.3 | 66.2 | 37.1 | 53.8 | 0.5 1.0 0.0 | 130.0 | 86.3 | −60.0 | 71.3 | 0.0 1.0 0.5 | 148.9 | 85.0 | −67.5 | 40.6 | 0.0 0.5 1.0 | 284.1 | 55.9 | 15.5 | −61.5 | 0.5 0.0 1.0 | 309.5 | 45.4 | 64.7 | −78.3 | 1.0 0.0 0.5 | 2.7 | 56.1 | 71.1 | 3.4 |
| 1.0 0.62 0.0 | 68.5 | 71.9 | 23.4 | 59.7 | 0.37 1.0 0.0 | 133.5 | 85.4 | −66.7 | 70.1 | 0.0 1.0 0.62 | 155.9 | 85.4 | −62.8 | 28.0 | 0.0 0.37 1.0 | 293.1 | 49.5 | 30.7 | −71.9 | 0.62 0.0 1.0 | 313.3 | 48.5 | 68.9 | −73.1 | 1.0 0.0 0.37 | 13.9 | 55.5 | 69.2 | 17.2 |
| 1.0 0.75 0.0 | 82.2 | 78.4 | 9.0 | 66.2 | 0.25 1.0 0.0 | 135.8 | 84.8 | −71.5 | 69.3 | 0.0 1.0 0.75 | 165.5 | 85.9 | −57.0 | 14.7 | 0.0 0.25 1.0 | 298.6 | 44.3 | 43.8 | −80.3 | 0.75 0.0 1.0 | 317.7 | 52.2 | 73.8 | −67.0 | 1.0 0.0 0.25 | 23.2 | 55.1 | 67.9 | 29.1 |
| 1.0 0.87 0.0 | 94.2 | 85.4 | −5.3 | 72.9 | 0.12 1.0 0.0 | 137.1 | 84.5 | −74.3 | 68.9 | 0.0 1.0 0.87 | 178.8 | 86.6 | −50.3 | 1.0 | 0.0 0.12 1.0 | 301.5 | 41.1 | 52.7 | −85.7 | 0.87 0.0 1.0 | 322.6 | 56.2 | 79.0 | −60.3 | 1.0 0.0 0.12 | 29.3 | 54.9 | 67.1 | 37.7 |

***RJGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:** 26.8, 0.0, 0.0 ***LAB*Wio:** 95.4, 0.0, 0.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.4 | 42.1 | 58.8 | 75.6 | 92.3 | 109.7 | 127.2 | 144.7 | 162.2 | 189.6 | 216.9 | 244.3 | 271.7 | 300.1 | 328.6 | 357.0 |
| 46 | 2 | 4 | 5 | 6 | 8 | 11 | 19 | 21 | 23 | 24 | 25 | 27 | 30 | 40 | 43 |
| 13.9 23.2 | 33.5 37.5 | 44.7 55.3 | 55.3 68.5 | 68.5 82.2 | 94.2 103.6 | 119.1 125.2 | 140.4 143.9 | 148.9 155.9 | 165.5 178.8 | 178.8 196.5 | 196.5 220.4 | 247.8 269.8 | 293.1 298.6 | 322.6 327.8 | 341.7 351.6 |
| 29.3 31.9 | 44.7 55.3 | 68.5 82.2 | 82.2 94.2 | 94.2 103.6 | 111.8 119.1 | 130.0 133.5 | 148.9 155.9 | 165.5 178.8 | 196.5 220.4 | 220.4 247.8 | 247.8 269.8 | 284.1 293.1 | 301.5 302.7 | 333.9 341.7 | 2.7 13.9 |
| 0.364 | 0.643 | 0.266 | 0.516 | 0.841 | 0.75 | 0.414 | 0.163 | 0.653 | 0.606 | 0.855 | 0.871 | 0.131 | 0.522 | 0.119 | 0.485 |
| 651 650 | 657 666 | 675 684 | 684 693 | 693 702 | 711 720 | 558 477 | 74 75 | 76 77 | 78 79 | 79 80 | 80 71 | 62 53 | 35 26 | 575 656 | 654 653 |
| 649 648 | 675 684 | 693 702 | 702 711 | 711 720 | 639 558 | 396 315 | 76 77 | 78 79 | 80 71 | 71 62 | 62 53 | 44 35 | 17 8 | 655 654 | 652 651 |
| 507 506 | 531 558 | 585 612 | 612 639 | 639 666 | 693 720 | 234 711 | 218 219 | 220 221 | 222 223 | 223 224 | 224 197 | 170 143 | 89 62 | 269 512 | 510 509 |
| 505 504 | 585 612 | 639 666 | 666 693 | 693 720 | 477 234 | 468 225 | 220 221 | 222 223 | 224 197 | 197 170 | 170 143 | 116 89 | 35 8 | 511 510 | 508 507 |

**16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7**

| *Code* | *iton* | *index* | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> olv** | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> rgb** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***r00j=R*** | 650 | 506 | 40.0 | 23.1 | 11.1 | 0.5380 | .538 | 55.1 | 67.9 | 29.1 | 55.1 | 67.9 | 29.1 | 73.9 | **23.2** | **1.0, 0.0, 0.25** | | | | | | | | | | | | | | |
| | 649 | 505 | 39.4 | 22.8 | 8.2 | 0.5590 | .559 | 54.9 | 67.1 | 37.7 | 54.9 | 67.1 | 37.7 | 77.0 | **29.3** | **1.0, 0.0, 0.12** | 39.7 | 23.0 | 10.0 | 0.546 | 0.316 | 55.0 | 67.6 | 32.2 | 55.0 | 67.6 | 32.2 | 74.9 | **25.5** | **1.00 0.00 0.00** |
| ***r25j*** | 666 | 558 | 40.7 | 25.8 | 7.6 | 0.5490 | .549 | 57.8 | 58.5 | 45.0 | 57.8 | 58.5 | 45.0 | 73.8 | **37.5** | **1.0, 0.25, 0.0** | | | | | | | | | | | | | | |
| | 675 | 585 | 42.7 | 29.7 | 8.2 | 0.5290 | .529 | 61.4 | 49.2 | 48.8 | 61.4 | 49.2 | 48.8 | 69.3 | **44.7** | **1.0, 0.37, 0.0** | 42.0 | 28.3 | 8.0 | 0.536 | 0.361 | 60.1 | 52.4 | 47.5 | 60.1 | 52.4 | 47.5 | 70.7 | **42.1** | **1.00 0.25 0.00** |
| ***r50j*** | 684 | 612 | 45.6 | 35.5 | 9.2 | 0.5040 | .504 | 66.2 | 37.1 | 53.8 | 66.2 | 37.1 | 53.8 | 65.4 | **55.3** | **1.0, 0.5, 0.0** | | | | | | | | | | | | | | |
| | 693 | 639 | 49.6 | 43.6 | 10.5 | 0.4780 | .478 | 71.9 | 23.4 | 59.7 | 71.9 | 23.4 | 59.7 | 64.2 | **68.5** | **1.0, 0.62, 0.0** | 46.6 | 37.6 | 9.5 | 0.497 | 0.401 | 67.7 | 33.4 | 55.4 | 67.7 | 33.4 | 55.4 | 64.7 | **58.9** | **1.00 0.50 0.00** |
| ***r75j*** | 693 | 639 | 49.6 | 43.6 | 10.5 | 0.4780 | .478 | 71.9 | 23.4 | 59.7 | 71.9 | 23.4 | 59.7 | 64.2 | **68.5** | **1.0, 0.62, 0.0** | | | | | | | | | | | | | | |
| | 702 | 666 | 54.8 | 54.0 | 12.3 | 0.4520 | .452 | 78.4 | 9.0 | 66.2 | 78.4 | 9.0 | 66.2 | 66.8 | **82.2** | **1.0, 0.75, 0.0** | 52.1 | 48.6 | 11.4 | 0.464 | 0.433 | 75.2 | 16.1 | 63.0 | 75.2 | 16.1 | 63.0 | 65.0 | **75.6** | **1.00 0.75 0.00** |
| ***j00g=J*** | 702 | 666 | 54.8 | 54.0 | 12.3 | 0.4520 | .452 | 78.4 | 9.0 | 66.2 | 78.4 | 9.0 | 66.2 | 66.8 | **82.2** | **1.0, 0.75, 0.0** | | | | | | | | | | | | | | |
| | 711 | 693 | 61.3 | 66.9 | 14.4 | 0.4290 | .429 | 85.4 | −5.3 | 72.9 | 85.4 | −5.3 | 72.9 | 73.1 | **94.2** | **1.0, 0.87, 0.0** | 60.0 | 64.4 | 14.0 | 0.433 | 0.465 | 84.2 | −2.8 | 71.7 | 84.2 | −2.8 | 71.7 | 71.7 | **92.2** | **1.00 1.00 0.00** |
| ***j25g*** | 720 | 720 | 69.1 | 82.5 | 17.0 | 0.4090 | .409 | 92.8 | −19.4 | 79.8 | 92.8 | −19.4 | 79.8 | 82.1 | **103.6** | **1.0, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 639 | 477 | 60.1 | 77.9 | 16.6 | 0.3880 | .388 | 90.7 | −30.8 | 77.1 | 90.7 | −30.8 | 77.1 | 83.0 | **111.8** | **0.87, 1.0, 0.0** | 62.9 | 79.8 | 16.8 | 0.394 | 0.5 | 91.6 | −28.1 | 78.1 | 91.6 | −28.1 | 78.1 | 83.0 | **109.7** | **0.75 1.00 0.00** |
| ***j50g*** | 477 | 711 | 46.6 | 70.9 | 16.0 | 0.3490 | .349 | 87.4 | −51.5 | 72.8 | 87.4 | −51.5 | 72.8 | 89.2 | **125.2** | **0.62, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 396 | 468 | 42.0 | 68.5 | 15.7 | 0.3320 | .332 | 86.3 | −60.0 | 71.3 | 86.3 | −60.0 | 71.3 | 93.1 | **130.0** | **0.5, 1.0, 0.0** | 44.7 | 70.0 | 15.9 | 0.342 | 0.535 | 86.9 | −54.9 | 72.2 | 86.9 | −54.9 | 72.2 | 90.7 | **127.2** | **0.50 1.00 0.00** |
| ***j75g*** | 75 | 219 | 36.4 | 65.4 | 24.6 | 0.2870 | .287 | 84.7 | −71.0 | 51.7 | 84.7 | −71.0 | 51.7 | 87.9 | **143.9** | **0.0, 1.0, 0.37** | | | | | | | | | | | | | | |
| | 76 | 220 | 37.8 | 66.0 | 32.4 | 0.2770 | .277 | 85.0 | −67.5 | 40.6 | 85.0 | −67.5 | 40.6 | 78.8 | **148.9** | **0.0, 1.0, 0.5** | 36.6 | 65.5 | 25.9 | 0.285 | 0.511 | 84.7 | −70.4 | 49.7 | 84.7 | −70.4 | 49.7 | 86.2 | **144.7** | **0.25 1.00 0.00** |
| ***g00b=G*** | 77 | 221 | 39.9 | 66.8 | 43.1 | 0.2660 | .266 | 85.4 | −62.8 | 28.0 | 85.4 | −62.8 | 28.0 | 68.8 | **155.9** | **0.0, 1.0, 0.62** | | | | | | | | | | | | | | |
| | 78 | 222 | 42.5 | 67.9 | 56.9 | 0.2540 | .254 | 85.9 | −57.0 | 14.7 | 85.9 | −57.0 | 14.7 | 58.9 | **165.5** | **0.0, 1.0, 0.75** | 41.6 | 67.5 | 52.3 | 0.257 | 0.418 | 85.8 | −58.9 | 18.8 | 85.8 | −58.9 | 18.8 | 61.9 | **162.2** | **0.00 1.00 0.00** |
| ***g25b*** | 79 | 223 | 45.8 | 69.2 | 74.1 | 0.2420 | .242 | 86.6 | −50.3 | 1.0 | 86.6 | −50.3 | 1.0 | 50.3 | **178.8** | **0.0, 1.0, 0.87** | | | | | | | | | | | | | | |
| | 80 | 224 | 49.7 | 70.8 | 94.8 | 0.230 | .23 | 87.4 | −42.7 | −12.7 | 87.4 | −42.7 | −12.7 | 44.6 | **196.5** | **0.0, 1.0, 1.0** | 49.0 | 71.4 | 88.3 | 0.234 | 0.341 | 87.6 | −45.9 | −7.8 | 87.6 | −45.9 | −7.8 | 46.5 | **189.6** | **0.00 1.00 0.50** |
| ***g50b*** | 80 | 224 | 49.7 | 70.8 | 94.8 | 0.230 | .23 | 87.4 | −42.7 | −12.7 | 87.4 | −42.7 | −12.7 | 44.6 | **196.5** | **0.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 71 | 197 | 41.9 | 55.2 | 92.2 | 0.2210 | .221 | 79.1 | −29.5 | −25.1 | 79.1 | −29.5 | −25.1 | 38.8 | **220.4** | **0.0, 0.87, 1.0** | 43.1 | 57.4 | 93.0 | 0.222 | 0.296 | 80.4 | −31.3 | −23.5 | 80.4 | −31.3 | −23.5 | 39.2 | **216.9** | **0.00 1.00 1.00** |
| ***g75b*** | 71 | 197 | 41.9 | 55.2 | 92.2 | 0.2210 | .221 | 79.1 | −29.5 | −25.1 | 79.1 | −29.5 | −25.1 | 38.8 | **220.4** | **0.0, 0.87, 1.0** | | | | | | | | | | | | | | |
| | 62 | 170 | 35.4 | 42.2 | 90.0 | 0.2110 | .211 | 71.0 | −15.3 | −37.6 | 71.0 | −15.3 | −37.6 | 40.6 | **247.8** | **0.0, 0.75, 1.0** | 36.2 | 43.9 | 90.3 | 0.212 | 0.257 | 72.1 | −17.3 | −35.9 | 72.1 | −17.3 | −35.9 | 39.8 | **244.2** | **0.00 0.50 1.00** |
| ***b00r=B*** | 53 | 143 | 30.2 | 31.8 | 88.3 | 0.2010 | .201 | 63.2 | −0.1 | −49.9 | 63.2 | −0.1 | −49.9 | 49.9 | **269.8** | **0.0, 0.62, 1.0** | | | | | | | | | | | | | | |
| | 44 | 116 | 26.2 | 23.8 | 87.0 | 0.1910 | .191 | 55.9 | 15.5 | −61.5 | 55.9 | 15.5 | −61.5 | 63.4 | **284.1** | **0.0, 0.5, 1.0** | 29.8 | 30.9 | 88.2 | 0.2 | 0.207 | 62.4 | 1.5 | −51.1 | 62.4 | 1.5 | −51.1 | 51.1 | **271.6** | **0.00 0.00 1.00** |
| ***b25r*** | 26 | 62 | 21.3 | 14.1 | 85.4 | 0.1760 | .176 | 44.3 | 43.8 | −80.3 | 44.3 | 43.8 | −80.3 | 91.4 | **298.6** | **0.0, 0.25, 1.0** | | | | | | | | | | | | | | |
| | 17 | 35 | 20.2 | 11.9 | 85.0 | 0.1730 | .173 | 41.1 | 52.7 | −85.7 | 41.1 | 52.7 | −85.7 | 100.6 | **301.5** | **0.0, 0.12, 1.0** | 20.8 | 12.9 | 85.2 | 0.174 | 0.108 | 42.7 | 48.3 | −83.0 | 42.7 | 48.3 | −83.0 | 96.1 | **300.1** | **0.50 0.00 1.00** |
| ***b50r*** | 656 | 512 | 54.3 | 28.8 | 86.5 | 0.320 | .32 | 60.6 | 84.6 | −53.1 | 60.6 | 84.6 | −53.1 | 99.9 | **327.8** | **1.0, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 655 | 511 | 50.3 | 27.2 | 65.7 | 0.3510 | .351 | 59.2 | 80.4 | −39.3 | 59.2 | 80.4 | −39.3 | 89.5 | **333.9** | **1.0, 0.0, 0.87** | 54.2 | 28.8 | 84.2 | 0.324 | 0.172 | 60.6 | 84.4 | −51.4 | 60.6 | 84.4 | −51.4 | 98.8 | **328.6** | **1.00 0.00 1.00** |
| ***b75r*** | 653 | 509 | 44.4 | 24.9 | 34.7 | 0.4270 | .427 | 56.9 | 73.6 | −10.8 | 56.9 | 73.6 | −10.8 | 74.4 | **351.6** | **1.0, 0.0, 0.62** | | | | | | | | | | | | | | |
| | 652 | 508 | 42.4 | 24.0 | 24.0 | 0.4680 | .468 | 56.1 | 71.1 | 3.4 | 56.1 | 71.1 | 3.4 | 71.2 | **2.7** | **1.0, 0.0, 0.5** | 43.4 | 24.4 | 29.0 | 0.447 | 0.252 | 56.5 | 72.3 | −3.7 | 56.5 | 72.3 | −3.7 | 72.4 | **357.0** | **1.00 0.00 0.50** |

**5 step equidistant grey scale with intended lightness: *L** = 26.8, 43.9, 61.1, 78.2, 95.4**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***n000w=N*** | 999 | 999 | 4.7 | 5.0 | 5.4 | 0.312 | 0.312 | 26.8 | 0.0 | 0.0 | 26.8 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 999 | 999 | 4.7 | 5.0 | 5.4 | 0.312 | 0.312 | 26.8 | 0.0 | 0.0 | 26.8 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | 4.7 | 5.0 | 5.4 | 0.312 | 0.329 | 26.8 | 0.0 | 0.0 | **26.8** | 0.0 | 0.0 | 0.0 | 0.0 | **0.00 0.00 0.00** |
| ***n025w*** | 1001 | 1001 | 8.8 | 9.2 | 10.1 | 0.312 | 0.312 | 36.5 | 0.0 | 0.0 | 36.5 | 0.0 | 0.0 | 0.0 | **325.5** | **0.25, 0.25, 0.25** | | | | | | | | | | | | | | |
| | 1002 | 1002 | 14.0 | 14.7 | 16.0 | 0.312 | 0.312 | 45.2 | 0.0 | 0.0 | 45.2 | 0.0 | 0.0 | 0.0 | **325.2** | **0.37, 0.37, 0.37** | 13.1 | 13.8 | 15.0 | 0.312 | 0.329 | 43.9 | 0.0 | 0.0 | **43.9** | 0.0 | 0.0 | 0.0 | 325.3 | **0.25 0.25 0.25** |
| ***n050w*** | 1003 | 1003 | 21.7 | 22.9 | 24.9 | 0.312 | 0.312 | 54.9 | 0.0 | 0.0 | 54.9 | 0.0 | 0.0 | 0.0 | **325.2** | **0.5, 0.5, 0.5** | | | | | | | | | | | | | | |
| | 1004 | 1004 | 32.4 | 34.1 | 37.1 | 0.312 | 0.312 | 65.0 | 0.0 | 0.0 | 65.0 | 0.0 | 0.0 | 0.0 | **324.7** | **0.62, 0.62, 0.62** | 27.9 | 29.4 | 32.0 | 0.312 | 0.329 | 61.1 | 0.0 | 0.0 | **61.1** | 0.0 | 0.0 | 0.0 | 325.1 | **0.50 0.50 0.50** |
| ***n075w*** | 1005 | 1005 | 46.2 | 48.6 | 53.0 | 0.312 | 0.312 | 75.2 | 0.0 | 0.0 | 75.2 | 0.0 | 0.0 | 0.0 | **323.6** | **0.75, 0.75, 0.75** | | | | | | | | | | | | | | |
| | 1006 | 1006 | 63.4 | 66.7 | 72.6 | 0.312 | 0.312 | 85.3 | 0.0 | 0.0 | 85.3 | 0.0 | 0.0 | 0.0 | **326.1** | **0.87, 0.87, 0.87** | 50.8 | 53.5 | 58.2 | 0.312 | 0.329 | 78.1 | 0.0 | 0.0 | **78.1** | 0.0 | 0.0 | 0.0 | 323.7 | **0.75 0.75 0.75** |
| ***n100w=W*** | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | 84.1 | 88.5 | 96.4 | 0.312 | 0.329 | 95.4 | 0.0 | 0.0 | **95.4** | 0.0 | 0.0 | 0.0 | 0.0 | **1.00 1.00 1.00** |

KE140−7N, Page 8/11, LAB*la4, adapted=not adapted

**48 step circle with interpretation *rgb −> olv** device hue steps of 1080 standard colours**

| *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 0.0 0.0 | 28.4 | 58.7 | 58.4 | 31.7 | 1.0 1.0 0.0 | 104.3 | 92.9 | −18.1 | 70.8 | 0.0 1.0 0.0 | 138.8 | 85.1 | −68.6 | 60.0 | 0.0 1.0 1.0 | 196.7 | 87.9 | −39.4 | −11.9 | 0.0 0.0 1.0 | 300.3 | 46.6 | 44.9 | −76.5 | 1.0 0.0 1.0 | 327.5 | 63.7 | 75.9 | −48.2 |
| 1.0 0.12 0.0 | 30.0 | 59.5 | 56.4 | 32.6 | 0.87 1.0 0.0 | 112.8 | 91.0 | −28.7 | 68.1 | 0.0 1.0 0.12 | 139.5 | 85.1 | −68.1 | 58.1 | 0.0 0.87 1.0 | 220.9 | 80.3 | −26.9 | −23.3 | 0.12 0.0 1.0 | 300.9 | 46.9 | 45.6 | −76.0 | 1.0 0.0 0.87 | 333.7 | 62.4 | 71.8 | −35.3 |
| 1.0 0.25 0.0 | 34.0 | 61.3 | 51.6 | 34.9 | 0.75 1.0 0.0 | 120.3 | 89.3 | −38.6 | 65.8 | 0.0 1.0 0.25 | 141.3 | 85.2 | −66.9 | 53.5 | 0.0 0.75 1.0 | 248.4 | 72.9 | −13.7 | −34.6 | 0.25 0.0 1.0 | 302.3 | 47.7 | 47.2 | −74.7 | 1.0 0.0 0.75 | 341.8 | 61.4 | 68.1 | −22.3 |
| 1.0 0.37 0.0 | 41.4 | 64.3 | 43.8 | 38.6 | 0.62 1.0 0.0 | 126.5 | 87.9 | −47.4 | 64.0 | 0.0 1.0 0.37 | 144.4 | 85.4 | −64.7 | 46.2 | 0.0 0.62 1.0 | 269.8 | 65.9 | −0.1 | −45.5 | 0.37 0.0 1.0 | 304.6 | 49.1 | 50.0 | −72.4 | 1.0 0.0 0.62 | 351.7 | 60.5 | 65.1 | −9.4 |
| 1.0 0.5 0.0 | 52.6 | 68.5 | 33.4 | 43.7 | 0.5 1.0 0.0 | 131.3 | 86.9 | −55.0 | 62.4 | 0.0 1.0 0.5 | 149.2 | 85.7 | −61.6 | 36.7 | 0.0 0.5 1.0 | 283.4 | 59.6 | 13.3 | −55.5 | 0.5 0.0 1.0 | 307.9 | 51.0 | 53.9 | −69.1 | 1.0 0.0 0.5 | 2.6 | 59.8 | 62.6 | 2.9 |
| 1.0 0.62 0.0 | 66.7 | 73.7 | 21.3 | 49.7 | 0.37 1.0 0.0 | 134.8 | 86.0 | −60.9 | 61.3 | 0.0 1.0 0.62 | 155.9 | 86.1 | −57.5 | 25.6 | 0.0 0.37 1.0 | 291.8 | 54.3 | 25.6 | −64.1 | 0.62 0.0 1.0 | 312.0 | 53.5 | 58.6 | −65.0 | 1.0 0.0 0.37 | 13.0 | 59.3 | 60.7 | 14.1 |
| 1.0 0.75 0.0 | 81.6 | 79.6 | 8.3 | 56.4 | 0.25 1.0 0.0 | 137.0 | 85.5 | −65.1 | 60.6 | 0.0 1.0 0.75 | 165.4 | 86.5 | −52.3 | 13.5 | 0.0 0.25 1.0 | 296.7 | 50.2 | 35.6 | −70.7 | 0.75 0.0 1.0 | 316.8 | 56.5 | 64.0 | −60.0 | 1.0 0.0 0.25 | 21.3 | 59.0 | 59.4 | 23.1 |
| 1.0 0.87 0.0 | 94.4 | 86.1 | −4.9 | 63.5 | 0.12 1.0 0.0 | 138.3 | 85.2 | −67.6 | 60.1 | 0.0 1.0 0.87 | 178.8 | 87.2 | −46.3 | 0.9 | 0.0 0.12 1.0 | 299.3 | 47.6 | 42.1 | −74.8 | 0.87 0.0 1.0 | 322.0 | 59.9 | 69.8 | −54.4 | 1.0 0.0 0.12 | 26.3 | 58.8 | 58.7 | 29.1 |

***RJGB*$_{ton}$, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$: 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:** 37.9, 0.0, 0.0 ***LAB*Wio:** 95.4, 0.0, 0.0**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.4 | 42.1 | 58.8 | 75.6 | 92.3 | 109.7 | 127.2 | 144.7 | 162.2 | 189.6 | 216.9 | 244.3 | 271.7 | 300.1 | 328.6 | 357.0 |
| 46 | 3 | 4 | 5 | 6 | 8 | 11 | 19 | 21 | 23 | 24 | 25 | 27 | 31 | 40 | 43 |
| 13.0 21.3 | 34.0 41.4 | 41.4 52.6 | 52.6 66.7 | 66.7 81.6 | 94.4 104.3 | 120.3 126.5 | 141.3 144.4 | 149.2 155.9 | 165.4 178.8 | 178.8 196.7 | 196.7 220.9 | 248.4 269.8 | 296.7 299.3 | 322.0 327.5 | 341.8 351.7 |
| 26.3 28.4 | 52.6 66.7 | 66.7 81.6 | 81.6 94.4 | 94.4 104.3 | 112.8 120.3 | 131.3 134.8 | 149.2 155.9 | 165.4 178.8 | 196.7 220.9 | 220.9 248.4 | 248.4 269.8 | 283.4 291.8 | 300.3 300.9 | 333.7 341.8 | 2.6 13.0 |
| 0.82 | 0.065 | 0.443 | 0.594 | 0.831 | 0.639 | 0.144 | 0.056 | 0.656 | 0.599 | 0.834 | 0.851 | 0.137 | 0.776 | 0.166 | 0.483 |
| 651 650 | 666 675 | 675 684 | 684 693 | 693 702 | 711 720 | 558 477 | 74 75 | 76 77 | 78 79 | 79 80 | 80 71 | 62 53 | 26 17 | 575 656 | 654 653 |
| 649 648 | 684 693 | 693 702 | 702 711 | 711 720 | 639 558 | 396 315 | 76 77 | 78 79 | 80 71 | 71 62 | 62 53 | 44 35 | 8 89 | 655 654 | 652 651 |
| 507 506 | 558 585 | 585 612 | 612 639 | 639 666 | 693 720 | 234 711 | 218 219 | 220 221 | 222 223 | 223 224 | 224 197 | 170 143 | 62 35 | 269 512 | 510 509 |
| 505 504 | 612 639 | 639 666 | 666 693 | 693 720 | 477 234 | 468 225 | 220 221 | 222 223 | 224 197 | 197 170 | 170 143 | 116 89 | 8 251 | 511 510 | 508 507 |

**16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7**

| *Code* | *iton* | *index* | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> olv** | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> rgb** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***r00j=R*** | 650 | 506 | 42.6 | 27.0 | 16.2 | 0.4960.496 | | 59.0 | 59.4 | 23.1 | 59.0 | 59.4 | 23.1 | 63.8 | **21.3** | **1.0, 0.0, 0.25** | | | | | | | | | | | | | | |
| | 649 | 505 | 42.1 | 26.8 | 13.5 | 0.510.51 | | 58.8 | 58.7 | 29.1 | 58.8 | 58.7 | 29.1 | 65.5 | **26.3** | **1.0, 0.0, 0.12** | 42.2 | 26.8 | 14.0 | 0.508 | 0.323 | 58.8 | 58.8 | 28.0 | 58.8 | 58.8 | 28.0 | 65.2 | **25.4** | **1.00 0.00 0.00** |
| ***r25j*** | 675 | 585 | 45.2 | 33.2 | 13.5 | 0.4910.491 | | 64.3 | 43.8 | 38.6 | 64.3 | 43.8 | 38.6 | 58.4 | **41.4** | **1.0, 0.37, 0.0** | | | | | | | | | | | | | | |
| | 684 | 612 | 47.9 | 38.7 | 14.4 | 0.4730.473 | | 68.5 | 33.4 | 43.7 | 68.5 | 33.4 | 43.7 | 55.0 | **52.6** | **1.0, 0.5, 0.0** | 45.3 | 33.6 | 13.6 | 0.489 | 0.362 | 64.6 | 43.1 | 39.0 | 64.6 | 43.1 | 39.0 | 58.1 | **42.1** | **1.00 0.25 0.00** |
| ***r50j*** | 684 | 612 | 47.9 | 38.7 | 14.4 | 0.4730.473 | | 68.5 | 33.4 | 43.7 | 68.5 | 33.4 | 43.7 | 55.0 | **52.6** | **1.0, 0.5, 0.0** | | | | | | | | | | | | | | |
| | 693 | 639 | 51.7 | 46.3 | 15.7 | 0.4540.454 | | 73.7 | 21.3 | 49.7 | 73.7 | 21.3 | 49.7 | 54.1 | **66.7** | **1.0, 0.62, 0.0** | 49.5 | 42.0 | 15.0 | 0.464 | 0.394 | 70.8 | 27.9 | 46.4 | 70.8 | 27.9 | 46.4 | 54.2 | **58.9** | **1.00 0.50 0.00** |
| ***r75j*** | 693 | 639 | 51.7 | 46.3 | 15.7 | 0.4540.454 | | 73.7 | 21.3 | 49.7 | 73.7 | 21.3 | 49.7 | 54.1 | **66.7** | **1.0, 0.62, 0.0** | | | | | | | | | | | | | | |
| | 702 | 666 | 56.6 | 56.1 | 17.3 | 0.4350.435 | | 79.6 | 8.3 | 56.4 | 79.6 | 8.3 | 56.4 | 57.0 | **81.6** | **1.0, 0.75, 0.0** | 54.4 | 51.8 | 16.6 | 0.443 | 0.421 | 77.1 | 13.7 | 53.6 | 77.1 | 13.7 | 53.6 | 55.3 | **75.6** | **1.00 0.75 0.00** |
| ***j00g=J*** | 702 | 666 | 56.6 | 56.1 | 17.3 | 0.4350.435 | | 79.6 | 8.3 | 56.4 | 79.6 | 8.3 | 56.4 | 57.0 | **81.6** | **1.0, 0.75, 0.0** | | | | | | | | | | | | | | |
| | 711 | 693 | 62.6 | 68.2 | 19.4 | 0.4160.416 | | 86.1 | −4.9 | 63.5 | 86.1 | −4.9 | 63.5 | 63.7 | **94.4** | **1.0, 0.87, 0.0** | 61.4 | 65.8 | 18.9 | 0.42 | 0.449 | 84.9 | −2.5 | 62.2 | 84.9 | −2.5 | 62.2 | 62.2 | **92.3** | **1.00 1.00 0.00** |
| ***j25g*** | 720 | 720 | 70.0 | 82.9 | 21.8 | 0.40.4 | | 92.9 | −18.1 | 70.8 | 92.9 | −18.1 | 70.8 | 73.0 | **104.3** | **1.0, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 639 | 477 | 61.5 | 78.5 | 21.4 | 0.3810.381 | | 91.0 | −28.7 | 68.1 | 91.0 | −28.7 | 68.1 | 73.9 | **112.8** | **0.87, 1.0, 0.0** | 65.3 | 81.1 | 21.7 | 0.388 | 0.482 | 92.1 | −25.0 | 69.6 | 92.1 | −25.0 | 69.6 | 74.0 | **109.7** | **0.75 1.00 0.00** |
| ***j50g*** | 477 | 711 | 48.9 | 72.0 | 20.8 | 0.3450.345 | | 87.9 | −47.4 | 64.0 | 87.9 | −47.4 | 64.0 | 79.6 | **126.5** | **0.62, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 396 | 468 | 44.5 | 69.8 | 20.6 | 0.330.33 | | 86.9 | −55.0 | 62.4 | 86.9 | −55.0 | 62.4 | 83.2 | **131.3** | **0.5, 1.0, 0.0** | 48.3 | 71.7 | 20.8 | 0.342 | 0.509 | 87.8 | −48.5 | 63.7 | 87.8 | −48.5 | 63.7 | 80.1 | **127.2** | **0.50 1.00 0.00** |
| ***j75g*** | 75 | 219 | 39.2 | 66.8 | 28.9 | 0.290.29 | | 85.4 | −64.7 | 46.2 | 85.4 | −64.7 | 46.2 | 79.5 | **144.4** | **0.0, 1.0, 0.37** | | | | | | | | | | | | | | |
| | 76 | 220 | 40.6 | 67.4 | 36.2 | 0.2810.281 | | 85.7 | −61.6 | 36.7 | 85.7 | −61.6 | 36.7 | 71.7 | **149.2** | **0.0, 1.0, 0.5** | 39.3 | 66.9 | 29.3 | 0.29 | 0.493 | 85.4 | −64.6 | 45.6 | 85.4 | −64.6 | 45.6 | 79.1 | **144.7** | **0.25 1.00 0.00** |
| ***g00b=G*** | 77 | 221 | 42.5 | 68.2 | 46.3 | 0.2710.271 | | 86.1 | −57.5 | 25.6 | 86.1 | −57.5 | 25.6 | 62.9 | **155.9** | **0.0, 1.0, 0.62** | | | | | | | | | | | | | | |
| | 78 | 222 | 45.0 | 69.1 | 59.3 | 0.2590.259 | | 86.5 | −52.3 | 13.5 | 86.5 | −52.3 | 13.5 | 54.0 | **165.4** | **0.0, 1.0, 0.75** | 44.2 | 68.8 | 54.9 | 0.263 | 0.409 | 86.4 | −54.0 | 17.3 | 86.4 | −54.0 | 17.3 | 56.7 | **162.2** | **0.00 1.00 0.00** |
| ***g25b*** | 79 | 223 | 48.1 | 70.4 | 75.4 | 0.2480.248 | | 87.2 | −46.3 | 0.9 | 87.2 | −46.3 | 0.9 | 46.3 | **178.8** | **0.0, 1.0, 0.87** | | | | | | | | | | | | | | |
| | 80 | 224 | 51.8 | 71.8 | 94.9 | 0.2370.237 | | 87.9 | −39.4 | −11.9 | 87.9 | −39.4 | −11.9 | 41.2 | **196.7** | **0.0, 1.0, 1.0** | 51.1 | 72.4 | 88.7 | 0.24 | 0.341 | 88.1 | −42.4 | −7.2 | 88.1 | −42.4 | −7.2 | 43.0 | **189.6** | **0.00 1.00 0.50** |
| ***g50b*** | 80 | 224 | 51.8 | 71.8 | 94.9 | 0.2370.237 | | 87.9 | −39.4 | −11.9 | 87.9 | −39.4 | −11.9 | 41.2 | **196.7** | **0.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 71 | 197 | 44.4 | 57.2 | 92.5 | 0.2290.229 | | 80.3 | −26.9 | −23.3 | 80.3 | −26.9 | −23.3 | 35.6 | **220.9** | **0.0, 0.87, 1.0** | 45.7 | 59.5 | 93.3 | 0.23 | 0.299 | 81.5 | −28.8 | −21.7 | 81.5 | −28.8 | −21.7 | 36.1 | **216.9** | **0.00 1.00 1.00** |
| ***g75b*** | 71 | 197 | 44.4 | 57.2 | 92.5 | 0.2290.229 | | 80.3 | −26.9 | −23.3 | 80.3 | −26.9 | −23.3 | 35.6 | **220.9** | **0.0, 0.87, 1.0** | | | | | | | | | | | | | | |
| | 62 | 170 | 38.4 | 45.0 | 90.4 | 0.220.22 | | 72.9 | −13.7 | −34.6 | 72.9 | −13.7 | −34.6 | 37.2 | **248.4** | **0.0, 0.75, 1.0** | 39.3 | 46.8 | 90.7 | 0.222 | 0.264 | 74.1 | −15.8 | −32.8 | 74.1 | −15.8 | −32.8 | 36.5 | **244.2** | **0.00 0.50 1.00** |
| ***b00r=B*** | 53 | 143 | 33.5 | 35.3 | 88.8 | 0.2120.212 | | 65.9 | −0.1 | −45.5 | 65.9 | −0.1 | −45.5 | 45.5 | **269.8** | **0.0, 0.62, 1.0** | | | | | | | | | | | | | | |
| | 44 | 116 | 29.7 | 27.7 | 87.5 | 0.2050.205 | | 59.6 | 13.3 | −55.5 | 59.6 | 13.3 | −55.5 | 57.1 | **283.4** | **0.0, 0.5, 1.0** | 33.0 | 34.3 | 88.6 | 0.211 | 0.22 | 65.2 | 1.4 | −46.7 | 65.2 | 1.4 | −46.7 | 46.7 | **271.7** | **0.00 0.00 1.00** |
| ***b25r*** | 17 | 35 | 24.1 | 16.5 | 85.7 | 0.1910.191 | | 47.6 | 42.1 | −74.8 | 47.6 | 42.1 | −74.8 | 85.9 | **299.3** | **0.0, 0.12, 1.0** | | | | | | | | | | | | | | |
| | 8 | 8 | 23.7 | 15.7 | 85.5 | 0.1890.189 | | 46.6 | 44.9 | −76.5 | 46.6 | 44.9 | −76.5 | 88.7 | **300.3** | **0.0, 0.0, 1.0** | 23.7 | 15.8 | 85.6 | 0.189 | 0.126 | 46.8 | 44.3 | −76.2 | 46.8 | 44.3 | −76.2 | 88.2 | **300.1** | **0.50 0.00 1.00** |
| ***b50r*** | 656 | 512 | 56.1 | 32.4 | 87.1 | 0.3190.319 | | 63.7 | 75.9 | −48.2 | 63.7 | 75.9 | −48.2 | 89.9 | **327.5** | **1.0, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 655 | 511 | 52.4 | 30.9 | 67.6 | 0.3470.347 | | 62.4 | 71.8 | −35.3 | 62.4 | 71.8 | −35.3 | 80.0 | **333.7** | **1.0, 0.0, 0.87** | 55.9 | 32.4 | 84.2 | 0.324 | 0.187 | 63.6 | 75.6 | −46.1 | 63.6 | 75.6 | −46.1 | 88.6 | **328.5** | **1.00 0.00 1.00** |
| ***b75r*** | 653 | 509 | 46.8 | 28.7 | 38.4 | 0.410.41 | | 60.5 | 65.1 | −9.4 | 60.5 | 65.1 | −9.4 | 65.7 | **351.7** | **1.0, 0.0, 0.62** | | | | | | | | | | | | | | |
| | 652 | 508 | 44.9 | 27.9 | 28.4 | 0.4430.443 | | 59.8 | 62.6 | 2.9 | 59.8 | 62.6 | 2.9 | 62.6 | **2.6** | **1.0, 0.0, 0.5** | 45.8 | 28.3 | 33.2 | 0.427 | 0.263 | 60.2 | 63.8 | −3.2 | 60.2 | 63.8 | −3.2 | 63.9 | **357.0** | **1.00 0.00 0.50** |

**5 step equidistant grey scale with intended lightness: *L** = 37.9, 52.3, 66.6, 81.0, 95.4**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***n000w=N*** | 999 | 999 | 9.5 | 10.0 | 10.9 | 0.312 | 0.312 | 37.9 | 0.0 | 0.0 | 37.9 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 999 | 999 | 9.5 | 10.0 | 10.9 | 0.312 | 0.312 | 37.9 | 0.0 | 0.0 | 37.9 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | 9.5 | 10.0 | 10.9 | 0.312 | 0.329 | 37.9 | 0.0 | 0.0 | **37.9** | 0.0 | 0.0 | 0.0 | 0.0 | **0.00 0.00 0.00** |
| ***n025w*** | 1002 | 1002 | 18.2 | 19.1 | 20.8 | 0.312 | 0.312 | 50.9 | 0.0 | 0.0 | 50.9 | 0.0 | 0.0 | 0.0 | **325.7** | **0.37, 0.37, 0.37** | | | | | | | | | | | | | | |
| | 1003 | 1003 | 25.5 | 26.8 | 29.2 | 0.312 | 0.312 | 58.8 | 0.0 | 0.0 | 58.8 | 0.0 | 0.0 | 0.0 | **324.4** | **0.5, 0.5, 0.5** | 19.3 | 20.4 | 22.2 | 0.312 | 0.329 | 52.2 | 0.0 | 0.0 | **52.2** | 0.0 | 0.0 | 0.0 | 325.5 | **0.25 0.25 0.25** |
| ***n050w*** | 1003 | 1003 | 25.5 | 26.8 | 29.2 | 0.312 | 0.312 | 58.8 | 0.0 | 0.0 | 58.8 | 0.0 | 0.0 | 0.0 | **324.4** | **0.5, 0.5, 0.5** | | | | | | | | | | | | | | |
| | 1004 | 1004 | 35.5 | 37.4 | 40.7 | 0.312 | 0.312 | 67.6 | 0.0 | 0.0 | 67.6 | 0.0 | 0.0 | 0.0 | **324.5** | **0.62, 0.62, 0.62** | 34.4 | 36.2 | 39.4 | 0.312 | 0.329 | 66.7 | 0.0 | 0.0 | **66.7** | 0.0 | 0.0 | 0.0 | 324.4 | **0.50 0.50 0.50** |
| ***n075w*** | 1005 | 1005 | 48.5 | 51.1 | 55.6 | 0.312 | 0.312 | 76.7 | 0.0 | 0.0 | 76.7 | 0.0 | 0.0 | 0.0 | **324.8** | **0.75, 0.75, 0.75** | | | | | | | | | | | | | | |
| | 1006 | 1006 | 64.7 | 68.0 | 74.1 | 0.312 | 0.312 | 86.0 | 0.0 | 0.0 | 86.0 | 0.0 | 0.0 | 0.0 | **324.6** | **0.87, 0.87, 0.87** | 55.7 | 58.6 | 63.9 | 0.312 | 0.329 | 81.1 | 0.0 | 0.0 | **81.1** | 0.0 | 0.0 | 0.0 | 324.7 | **0.75 0.75 0.75** |
| ***n100w=W*** | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | 84.1 | 88.5 | 96.4 | 0.312 | 0.329 | 95.4 | 0.0 | 0.0 | **95.4** | 0.0 | 0.0 | 0.0 | 0.0 | **1.00 1.00 1.00** |

KE140−7N, Page 9/11, LAB*la5, adapted=not adapted

**48 step circle with interpretation *rgb −> olv** device hue steps of 1080 standard colours**

| *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 0.0 0.0 | 24.9 | 65.5 | 45.0 | 20.9 | 1.0 1.0 0.0 | 105.5 | 93.2 | −15.6 | 56.2 | 0.0 1.0 0.0 | 140.4 | 86.5 | −56.3 | 46.5 | 0.0 1.0 1.0 | 197.1 | 88.9 | −33.2 | −10.2 | 0.0 0.0 1.0 | 297.2 | 57.1 | 30.6 | −59.4 | 1.0 0.0 1.0 | 327.0 | 69.2 | 60.9 | −39.5 |
| 1.0 0.12 0.0 | 26.4 | 66.0 | 43.6 | 21.7 | 0.87 1.0 0.0 | 114.4 | 91.6 | −24.5 | 53.8 | 0.0 1.0 0.12 | 141.0 | 86.5 | −55.9 | 45.2 | 0.0 0.87 1.0 | 221.9 | 82.5 | −22.1 | −19.9 | 0.12 0.0 1.0 | 297.8 | 57.3 | 31.2 | −59.0 | 1.0 0.0 0.87 | 333.5 | 68.2 | 57.1 | −28.3 |
| 1.0 0.25 0.0 | 30.3 | 67.4 | 40.3 | 23.5 | 0.75 1.0 0.0 | 122.2 | 90.1 | −32.6 | 51.7 | 0.0 1.0 0.25 | 142.5 | 86.6 | −55.0 | 42.1 | 0.0 0.75 1.0 | 249.3 | 76.4 | −10.9 | −29.1 | 0.25 0.0 1.0 | 299.3 | 57.8 | 32.7 | −58.2 | 1.0 0.0 0.75 | 342.0 | 67.4 | 53.8 | −17.4 |
| 1.0 0.37 0.0 | 37.5 | 69.7 | 34.6 | 26.6 | 0.62 1.0 0.0 | 128.5 | 89.0 | −39.8 | 50.0 | 0.0 1.0 0.37 | 145.3 | 86.8 | −53.3 | 36.9 | 0.0 0.62 1.0 | 269.8 | 70.9 | 0.0 | −37.6 | 0.37 0.0 1.0 | 301.9 | 58.7 | 35.3 | −56.7 | 1.0 0.0 0.62 | 352.0 | 66.8 | 51.0 | −7.1 |
| 1.0 0.5 0.0 | 49.0 | 73.0 | 26.8 | 30.9 | 0.5 1.0 0.0 | 133.2 | 88.0 | −45.8 | 48.7 | 0.0 1.0 0.5 | 149.6 | 87.0 | −50.9 | 29.8 | 0.0 0.5 1.0 | 282.4 | 66.1 | 9.9 | −45.0 | 0.5 0.0 1.0 | 305.5 | 60.0 | 38.9 | −54.6 | 1.0 0.0 0.5 | 2.5 | 66.3 | 48.7 | 2.1 |
| 1.0 0.62 0.0 | 64.3 | 77.1 | 17.4 | 36.3 | 0.37 1.0 0.0 | 136.6 | 87.3 | −50.4 | 47.7 | 0.0 1.0 0.62 | 156.0 | 87.3 | −47.6 | 21.1 | 0.0 0.37 1.0 | 289.9 | 62.3 | 18.5 | −51.2 | 0.62 0.0 1.0 | 310.0 | 61.8 | 43.5 | −51.7 | 1.0 0.0 0.37 | 11.9 | 65.9 | 47.1 | 10.0 |
| 1.0 0.75 0.0 | 80.7 | 81.9 | 6.9 | 42.4 | 0.25 1.0 0.0 | 138.7 | 86.9 | −53.7 | 47.0 | 0.0 1.0 0.75 | 165.3 | 87.8 | −43.6 | 11.3 | 0.0 0.25 1.0 | 294.2 | 59.5 | 25.0 | −55.6 | 0.75 0.0 1.0 | 315.3 | 63.9 | 48.8 | −48.2 | 1.0 0.0 0.25 | 19.0 | 65.7 | 45.9 | 15.8 |
| 1.0 0.87 0.0 | 94.9 | 87.4 | −4.2 | 49.1 | 0.12 1.0 0.0 | 139.9 | 86.6 | −55.5 | 46.6 | 0.0 1.0 0.87 | 178.8 | 88.3 | −38.7 | 0.8 | 0.0 0.12 1.0 | 296.4 | 57.8 | 29.0 | −58.3 | 0.87 0.0 1.0 | 321.0 | 66.4 | 54.6 | −44.1 | 1.0 0.0 0.12 | 23.2 | 65.5 | 45.3 | 19.4 |

***RJGB*$_{ton}$, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$: 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:** 52.0, 0.0, 0.0 ***LAB*Wio:** 95.4, 0.0, 0.0**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.4 | 42.1 | 58.8 | 75.6 | 92.3 | 109.7 | 127.2 | 144.7 | 162.2 | 189.6 | 216.9 | 244.3 | 271.7 | 300.1 | 328.6 | 357.0 |
| 0 | 3 | 4 | 5 | 6 | 8 | 10 | 18 | 21 | 23 | 24 | 25 | 27 | 34 | 40 | 43 |
| 23.2 24.9 | 30.3 37.5 | 37.5 49.0 | 49.0 64.3 | 64.3 80.7 | 94.9 105.5 | 114.4 122.2 | 141.0 142.5 | 149.6 156.0 | 165.3 178.8 | 178.8 197.1 | 197.1 221.9 | 249.3 269.8 | 297.8 299.3 | 321.0 327.0 | 342.0 352.0 |
| 26.4 30.3 | 49.0 64.3 | 64.3 80.7 | 80.7 94.9 | 94.9 105.5 | 114.4 122.2 | 128.5 133.2 | 145.3 149.6 | 165.3 178.8 | 197.1 221.9 | 221.9 249.3 | 249.3 269.8 | 282.4 289.9 | 301.9 305.5 | 333.5 342.0 | 2.5 11.9 |
| 0.354 | 0.401 | 0.645 | 0.688 | 0.817 | 0.476 | 0.801 | 0.79 | 0.661 | 0.587 | 0.798 | 0.817 | 0.148 | 0.318 | 0.243 | 0.478 |
| 649 648 | 666 675 | 675 684 | 684 693 | 693 702 | 711 720 | 639 558 | 73 74 | 76 77 | 78 79 | 79 80 | 80 71 | 62 53 | 89 170 | 575 656 | 654 653 |
| 657 666 | 684 693 | 693 702 | 702 711 | 711 720 | 639 558 | 477 396 | 75 76 | 78 79 | 80 71 | 71 62 | 62 53 | 44 35 | 251 332 | 655 654 | 652 651 |
| 505 504 | 558 585 | 585 612 | 612 639 | 639 666 | 693 720 | 477 234 | 217 218 | 220 221 | 222 223 | 223 224 | 224 197 | 170 143 | 251 494 | 269 512 | 510 509 |
| 531 558 | 612 639 | 639 666 | 666 693 | 693 720 | 477 234 | 711 468 | 219 220 | 222 223 | 224 197 | 197 170 | 170 143 | 116 89 | 17 260 | 511 510 | 508 507 |

**16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7**

| *Code* | *iton* | *index* | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> olv** | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> rgb** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***r00j=R*** | 648 | 504 | 47.3 | 34.7 | 23.2 | 0.4490 | .449 | 65.5 | 45.0 | 20.9 | 65.5 | 45.0 | 20.9 | 49.7 | **24.9** | **1.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 657 | 531 | 47.7 | 35.4 | 23.3 | 0.4480 | .448 | 66.0 | 43.6 | 21.7 | 66.0 | 43.6 | 21.7 | 48.7 | **26.4** | **1.0, 0.12, 0.0** | 47.4 | 34.9 | 23.2 | 0.449 | 0.33 | 65.6 | 44.6 | 21.2 | 65.6 | 44.6 | 21.2 | 49.4 | **25.4** | **1.00 0.00 0.00** |
| ***r25j*** | 675 | 585 | 50.2 | 40.3 | 24.2 | 0.4370 | .437 | 69.7 | 34.6 | 26.6 | 69.7 | 34.6 | 26.6 | 43.7 | **37.5** | **1.0, 0.37, 0.0** | | | | | | | | | | | | | | |
| | 684 | 612 | 52.6 | 45.1 | 25.0 | 0.4280 | .428 | 73.0 | 26.8 | 30.9 | 73.0 | 26.8 | 30.9 | 41.0 | **49.0** | **1.0, 0.5, 0.0** | 51.1 | 42.3 | 24.5 | 0.433 | 0.358 | 71.1 | 31.3 | 28.4 | 71.1 | 31.3 | 28.4 | 42.3 | **42.2** | **1.00 0.25 0.00** |
| ***r50j*** | 684 | 612 | 52.6 | 45.1 | 25.0 | 0.4280 | .428 | 73.0 | 26.8 | 30.9 | 73.0 | 26.8 | 30.9 | 41.0 | **49.0** | **1.0, 0.5, 0.0** | | | | | | | | | | | | | | |
| | 693 | 639 | 55.9 | 51.7 | 26.1 | 0.4170 | .417 | 77.1 | 17.4 | 36.3 | 77.1 | 17.4 | 36.3 | 40.3 | **64.3** | **1.0, 0.62, 0.0** | 54.7 | 49.3 | 25.7 | 0.421 | 0.38 | 75.6 | 20.7 | 34.4 | 75.6 | 20.7 | 34.4 | 40.2 | **58.9** | **1.00 0.50 0.00** |
| ***r75j*** | 693 | 639 | 55.9 | 51.7 | 26.1 | 0.4170 | .417 | 77.1 | 17.4 | 36.3 | 77.1 | 17.4 | 36.3 | 40.3 | **64.3** | **1.0, 0.62, 0.0** | | | | | | | | | | | | | | |
| | 702 | 666 | 60.1 | 60.2 | 27.5 | 0.4060 | .406 | 81.9 | 6.9 | 42.4 | 81.9 | 6.9 | 42.4 | 43.0 | **80.7** | **1.0, 0.75, 0.0** | 58.7 | 57.3 | 27.0 | 0.41 | 0.4 | 80.3 | 10.3 | 40.4 | 80.3 | 10.3 | 40.4 | 41.7 | **75.6** | **1.00 0.75 0.00** |
| ***j00g=J*** | 702 | 666 | 60.1 | 60.2 | 27.5 | 0.4060 | .406 | 81.9 | 6.9 | 42.4 | 81.9 | 6.9 | 42.4 | 43.0 | **80.7** | **1.0, 0.75, 0.0** | | | | | | | | | | | | | | |
| | 711 | 693 | 65.4 | 70.8 | 29.2 | 0.3950 | .395 | 87.4 | −4.2 | 49.1 | 87.4 | −4.2 | 49.1 | 49.3 | **94.9** | **1.0, 0.87, 0.0** | 64.3 | 68.5 | 28.9 | 0.397 | 0.423 | 86.2 | −1.9 | 47.8 | 86.2 | −1.9 | 47.8 | 47.8 | **92.3** | **1.00 1.00 0.00** |
| ***j25g*** | 720 | 720 | 71.8 | 83.6 | 31.4 | 0.3840 | .384 | 93.2 | −15.6 | 56.2 | 93.2 | −15.6 | 56.2 | 58.4 | **105.5** | **1.0, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 639 | 477 | 64.4 | 79.8 | 31.0 | 0.3670 | .367 | 91.6 | −24.5 | 53.8 | 91.6 | −24.5 | 53.8 | 59.1 | **114.4** | **0.87, 1.0, 0.0** | 69.1 | 82.8 | 31.4 | 0.376 | 0.451 | 92.9 | −20.0 | 55.7 | 92.9 | −20.0 | 55.7 | 59.2 | **109.7** | **0.75 1.00 0.00** |
| ***j50g*** | 558 | 234 | 58.3 | 76.7 | 30.7 | 0.3510 | .351 | 90.1 | −32.6 | 51.7 | 90.1 | −32.6 | 51.7 | 61.2 | **122.2** | **0.75, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 477 | 711 | 53.4 | 74.1 | 30.5 | 0.3370 | .337 | 89.0 | −39.8 | 50.0 | 89.0 | −39.8 | 50.0 | 64.0 | **128.5** | **0.62, 1.0, 0.0** | 54.4 | 74.6 | 30.6 | 0.34 | 0.467 | 89.2 | −38.3 | 50.4 | 89.2 | −38.3 | 50.4 | 63.3 | **127.2** | **0.50 1.00 0.00** |
| ***j75g*** | 74 | 218 | 44.2 | 69.3 | 33.4 | 0.3010 | .301 | 86.6 | −55.0 | 42.1 | 86.6 | −55.0 | 42.1 | 69.3 | **142.5** | **0.0, 1.0, 0.25** | | | | | | | | | | | | | | |
| | 75 | 219 | 45.0 | 69.6 | 37.6 | 0.2950 | .295 | 86.8 | −53.3 | 36.9 | 86.8 | −53.3 | 36.9 | 64.9 | **145.3** | **0.0, 1.0, 0.37** | 44.8 | 69.6 | 36.7 | 0.296 | 0.46 | 86.8 | −53.7 | 37.9 | 86.8 | −53.7 | 37.9 | 65.7 | **144.7** | **0.25 1.00 0.00** |
| ***g00b=G*** | 77 | 221 | 47.9 | 70.8 | 52.7 | 0.2790 | .279 | 87.3 | −47.6 | 21.1 | 87.3 | −47.6 | 21.1 | 52.1 | **156.0** | **0.0, 1.0, 0.62** | | | | | | | | | | | | | | |
| | 78 | 222 | 50.0 | 71.6 | 64.0 | 0.2690 | .269 | 87.8 | −43.6 | 11.3 | 87.8 | −43.6 | 11.3 | 45.0 | **165.3** | **0.0, 1.0, 0.75** | 49.3 | 71.4 | 60.3 | 0.272 | 0.394 | 87.6 | −44.9 | 14.4 | 87.6 | −44.9 | 14.4 | 47.1 | **162.1** | **0.00 1.00 0.00** |
| ***g25b*** | 79 | 223 | 52.7 | 72.7 | 78.1 | 0.2590 | .259 | 88.3 | −38.7 | 0.8 | 88.3 | −38.7 | 0.8 | 38.7 | **178.8** | **0.0, 1.0, 0.87** | | | | | | | | | | | | | | |
| | 80 | 224 | 55.9 | 74.0 | 95.1 | 0.2480 | .248 | 88.9 | −33.2 | −10.2 | 88.9 | −33.2 | −10.2 | 34.7 | **197.1** | **0.0, 1.0, 1.0** | 55.3 | 74.4 | 89.4 | 0.252 | 0.339 | 89.1 | −35.7 | −6.0 | 89.1 | −35.7 | −6.0 | 36.2 | **189.6** | **0.00 1.00 0.50** |
| ***g50b*** | 80 | 224 | 55.9 | 74.0 | 95.1 | 0.2480 | .248 | 88.9 | −33.2 | −10.2 | 88.9 | −33.2 | −10.2 | 34.7 | **197.1** | **0.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 71 | 197 | 49.5 | 61.2 | 93.0 | 0.2430 | .243 | 82.5 | −22.1 | −19.9 | 82.5 | −22.1 | −19.9 | 29.7 | **221.9** | **0.0, 0.87, 1.0** | 50.9 | 63.7 | 93.9 | 0.244 | 0.305 | 83.8 | −24.2 | −18.2 | 83.8 | −24.2 | −18.2 | 30.3 | **217.0** | **0.00 1.00 1.00** |
| ***g75b*** | 71 | 197 | 49.5 | 61.2 | 93.0 | 0.2430 | .243 | 82.5 | −22.1 | −19.9 | 82.5 | −22.1 | −19.9 | 29.7 | **221.9** | **0.0, 0.87, 1.0** | | | | | | | | | | | | | | |
| | 62 | 170 | 44.2 | 50.6 | 91.2 | 0.2370 | .237 | 76.4 | −10.9 | −29.1 | 76.4 | −10.9 | −29.1 | 31.1 | **249.3** | **0.0, 0.75, 1.0** | 45.2 | 52.6 | 91.5 | 0.238 | 0.277 | 77.6 | −13.1 | −27.3 | 77.6 | −13.1 | −27.3 | 30.3 | **244.2** | **0.00 0.50 1.00** |
| ***b00r=B*** | 53 | 143 | 40.0 | 42.1 | 89.8 | 0.2320 | .232 | 70.9 | 0.0 | −37.6 | 70.9 | 0.0 | −37.6 | 37.6 | **269.8** | **0.0, 0.62, 1.0** | | | | | | | | | | | | | | |
| | 44 | 116 | 36.7 | 35.5 | 88.7 | 0.2280 | .228 | 66.1 | 9.9 | −45.0 | 66.1 | 9.9 | −45.0 | 46.1 | **282.4** | **0.0, 0.5, 1.0** | 39.5 | 41.2 | 89.6 | 0.232 | 0.241 | 70.3 | 1.1 | −38.5 | 70.3 | 1.1 | −38.5 | 38.6 | **271.7** | **0.00 0.00 1.00** |
| ***b25r*** | 170 | 494 | 32.9 | 25.8 | 87.0 | 0.2250 | .225 | 57.8 | 32.7 | −58.2 | 57.8 | 32.7 | −58.2 | 66.8 | **299.3** | **0.25, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 251 | 17 | 34.7 | 26.7 | 87.1 | 0.2330 | .233 | 58.7 | 35.3 | −56.7 | 58.7 | 35.3 | −56.7 | 66.8 | **301.9** | **0.37, 0.0, 1.0** | 33.5 | 26.1 | 87.0 | 0.228 | 0.178 | 58.1 | 33.5 | −57.7 | 58.1 | 33.5 | −57.7 | 66.8 | **300.1** | **0.50 0.00 1.00** |
| ***b50r*** | 656 | 512 | 59.7 | 39.6 | 88.3 | 0.3180 | .318 | 69.2 | 60.9 | −39.5 | 69.2 | 60.9 | −39.5 | 72.6 | **327.0** | **1.0, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 655 | 511 | 56.5 | 38.3 | 71.3 | 0.340 | .34 | 68.2 | 57.1 | −28.3 | 68.2 | 57.1 | −28.3 | 63.7 | **333.5** | **1.0, 0.0, 0.87** | 59.4 | 39.5 | 84.4 | 0.323 | 0.215 | 69.1 | 60.4 | −36.9 | 69.1 | 60.4 | −36.9 | 70.8 | **328.5** | **1.00 0.00 1.00** |
| ***b75r*** | 653 | 509 | 51.6 | 36.4 | 45.9 | 0.3850 | .385 | 66.8 | 51.0 | −7.1 | 66.8 | 51.0 | −7.1 | 51.5 | **352.0** | **1.0, 0.0, 0.62** | | | | | | | | | | | | | | |
| | 652 | 508 | 50.0 | 35.7 | 37.1 | 0.4060 | .406 | 66.3 | 48.7 | 2.1 | 66.3 | 48.7 | 2.1 | 48.8 | **2.5** | **1.0, 0.0, 0.5** | 50.8 | 36.0 | 41.4 | 0.395 | 0.281 | 66.5 | 49.8 | −2.6 | 66.5 | 49.8 | −2.6 | 49.9 | **357.0** | **1.00 0.00 0.50** |

**5 step equidistant grey scale with intended lightness: *L** = 52.0, 62.8, 73.7, 84.5, 95.4**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***n000w=N*** | 999 | 999 | 19.1 | 20.1 | 21.9 | 0.312 | 0.312 | 52.0 | 0.0 | 0.0 | 52.0 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 999 | 999 | 19.1 | 20.1 | 21.9 | 0.312 | 0.312 | 52.0 | 0.0 | 0.0 | 52.0 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | 19.1 | 20.1 | 21.9 | 0.312 | 0.329 | 52.0 | 0.0 | 0.0 | **52.0** | 0.0 | 0.0 | 0.0 | 0.0 | **0.00 0.00 0.00** |
| ***n025w*** | 1002 | 1002 | 26.7 | 28.0 | 30.5 | 0.312 | 0.312 | 59.9 | 0.0 | 0.0 | 59.9 | 0.0 | 0.0 | 0.0 | **324.7** | **0.37, 0.37, 0.37** | | | | | | | | | | | | | | |
| | 1003 | 1003 | 33.0 | 34.8 | 37.8 | 0.312 | 0.312 | 65.5 | 0.0 | 0.0 | 65.5 | 0.0 | 0.0 | 0.0 | **325.9** | **0.5, 0.5, 0.5** | 29.8 | 31.4 | 34.2 | 0.312 | 0.329 | 62.8 | 0.0 | 0.0 | **62.8** | 0.0 | 0.0 | 0.0 | 325.1 | **0.25 0.25 0.25** |
| ***n050w*** | 1004 | 1004 | 41.8 | 44.0 | 47.9 | 0.312 | 0.312 | 72.2 | 0.0 | 0.0 | 72.2 | 0.0 | 0.0 | 0.0 | **324.8** | **0.62, 0.62, 0.62** | | | | | | | | | | | | | | |
| | 1005 | 1005 | 53.1 | 55.9 | 60.8 | 0.312 | 0.312 | 79.5 | 0.0 | 0.0 | 79.5 | 0.0 | 0.0 | 0.0 | **323.7** | **0.75, 0.75, 0.75** | 44.0 | 46.3 | 50.4 | 0.312 | 0.329 | 73.7 | 0.0 | 0.0 | **73.7** | 0.0 | 0.0 | 0.0 | 324.7 | **0.50 0.50 0.50** |
| ***n075w*** | 1005 | 1005 | 53.1 | 55.9 | 60.8 | 0.312 | 0.312 | 79.5 | 0.0 | 0.0 | 79.5 | 0.0 | 0.0 | 0.0 | **323.7** | **0.75, 0.75, 0.75** | | | | | | | | | | | | | | |
| | 1006 | 1006 | 67.2 | 70.7 | 76.9 | 0.312 | 0.312 | 87.3 | 0.0 | 0.0 | 87.3 | 0.0 | 0.0 | 0.0 | **325.0** | **0.87, 0.87, 0.87** | 61.9 | 65.1 | 70.9 | 0.312 | 0.329 | 84.5 | 0.0 | 0.0 | **84.5** | 0.0 | 0.0 | 0.0 | 323.8 | **0.75 0.75 0.75** |
| ***n100w=W*** | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | 84.1 | 88.5 | 96.4 | 0.312 | 0.329 | 95.4 | 0.0 | 0.0 | **95.4** | 0.0 | 0.0 | 0.0 | 0.0 | **1.00 1.00 1.00** |

KE140−7N, Page 10/11, LAB*la6, adapted=not adapted

**48 step circle with interpretation *rgb −> olv** device hue steps of 1080 standard colours**

| *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ | *rgb −> olv** | $h_{ab,a}$ | *L** | *a**$_a$ | *b**$_a$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 0.0 0.0 | 21.9 | 76.4 | 26.2 | 10.5 | 1.0 1.0 0.0 | 107.3 | 93.9 | −10.7 | 34.6 | 0.0 1.0 0.0 | 142.3 | 89.3 | −35.8 | 27.6 | 0.0 1.0 1.0 | 197.9 | 90.9 | −21.9 | −7.1 | 0.0 0.0 1.0 | 293.8 | 72.0 | 15.7 | −35.6 | 1.0 0.0 1.0 | 326.0 | 78.5 | 37.5 | −25.2 |
| 1.0 0.12 0.0 | 23.2 | 76.7 | 25.5 | 10.9 | 0.87 1.0 0.0 | 116.8 | 92.7 | −16.6 | 32.8 | 0.0 1.0 0.12 | 142.8 | 89.3 | −35.6 | 27.0 | 0.0 0.87 1.0 | 223.7 | 86.6 | −14.0 | −13.4 | 0.12 0.0 1.0 | 294.4 | 72.1 | 16.1 | −35.4 | 1.0 0.0 0.87 | 333.2 | 77.9 | 34.7 | −17.4 |
| 1.0 0.25 0.0 | 26.8 | 77.4 | 23.8 | 12.0 | 0.75 1.0 0.0 | 124.8 | 91.7 | −21.8 | 31.3 | 0.0 1.0 0.25 | 144.0 | 89.4 | −35.0 | 25.4 | 0.0 0.75 1.0 | 250.8 | 82.8 | −6.6 | −19.2 | 0.25 0.0 1.0 | 295.9 | 72.4 | 17.0 | −35.0 | 1.0 0.0 0.75 | 342.2 | 77.5 | 32.3 | −10.3 |
| 1.0 0.37 0.0 | 33.7 | 78.8 | 20.8 | 13.9 | 0.62 1.0 0.0 | 131.0 | 90.9 | −26.2 | 30.1 | 0.0 1.0 0.37 | 146.4 | 89.5 | −34.1 | 22.6 | 0.0 0.62 1.0 | 269.8 | 79.5 | 0.0 | −24.2 | 0.37 0.0 1.0 | 298.5 | 72.8 | 18.7 | −34.3 | 1.0 0.0 0.62 | 352.3 | 77.1 | 30.3 | −4.0 |
| 1.0 0.5 0.0 | 45.1 | 80.7 | 16.5 | 16.6 | 0.5 1.0 0.0 | 135.6 | 90.3 | −29.8 | 29.1 | 0.0 1.0 0.5 | 150.2 | 89.6 | −32.7 | 18.6 | 0.0 0.5 1.0 | 281.1 | 76.7 | 5.5 | −28.4 | 0.5 0.0 1.0 | 302.3 | 73.5 | 21.1 | −33.2 | 1.0 0.0 0.5 | 2.3 | 76.8 | 28.8 | 1.1 |
| 1.0 0.62 0.0 | 61.2 | 83.2 | 11.0 | 20.1 | 0.37 1.0 0.0 | 138.7 | 89.8 | −32.5 | 28.4 | 0.0 1.0 0.62 | 156.1 | 89.8 | −30.8 | 13.6 | 0.0 0.37 1.0 | 287.6 | 74.7 | 10.0 | −31.6 | 0.62 0.0 1.0 | 307.2 | 74.4 | 24.2 | −31.8 | 1.0 0.0 0.37 | 10.8 | 76.6 | 27.6 | 5.3 |
| 1.0 0.75 0.0 | 79.4 | 86.3 | 4.5 | 24.3 | 0.25 1.0 0.0 | 140.8 | 89.5 | −34.3 | 28.0 | 0.0 1.0 0.75 | 165.1 | 90.1 | −28.3 | 7.5 | 0.0 0.25 1.0 | 291.2 | 73.2 | 13.1 | −33.8 | 0.75 0.0 1.0 | 313.0 | 75.5 | 28.0 | −30.0 | 1.0 0.0 0.25 | 16.9 | 76.5 | 26.8 | 8.2 |
| 1.0 0.87 0.0 | 95.5 | 89.9 | −2.8 | 29.2 | 0.12 1.0 0.0 | 141.9 | 89.3 | −35.4 | 27.7 | 0.0 1.0 0.87 | 178.7 | 90.5 | −25.4 | 0.5 | 0.0 0.12 1.0 | 293.1 | 72.4 | 15.0 | −35.1 | 0.87 0.0 1.0 | 319.4 | 76.9 | 32.5 | −27.8 | 1.0 0.0 0.12 | 20.5 | 76.4 | 26.4 | 9.8 |

***RJGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RJGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio:** 69.6, 0.0, 0.0 ***LAB*Wio:** 95.4, 0.0, 0.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.4 | 42.1 | 58.8 | 75.6 | 92.3 | 109.7 | 127.2 | 144.7 | 162.2 | 189.6 | 216.9 | 244.3 | 271.7 | 300.1 | 328.6 | 357.0 |
| 1 | 3 | 4 | 5 | 6 | 8 | 10 | 18 | 21 | 23 | 24 | 25 | 27 | 35 | 40 | 43 |
| 21.9 23.2 | 26.8 33.7 | 33.7 45.1 | 45.1 61.2 | 61.2 79.4 | 95.5 107.3 | 116.8 124.8 | 142.8 144.0 | 150.2 156.1 | 165.1 178.7 | 178.7 197.9 | 197.9 223.7 | 250.8 269.8 | 295.9 298.5 | 319.4 326.0 | 342.2 352.3 |
| 26.8 33.7 | 45.1 61.2 | 61.2 79.4 | 79.4 95.5 | 95.5 107.3 | 116.8 124.8 | 131.0 135.6 | 146.4 150.2 | 165.1 178.7 | 197.9 223.7 | 223.7 250.8 | 250.8 269.8 | 281.1 287.6 | 302.3 307.2 | 333.2 342.2 | 2.3 10.8 |
| 0.619 | 0.74 | 0.854 | 0.787 | 0.799 | 0.26 | 0.394 | 0.28 | 0.671 | 0.565 | 0.739 | 0.762 | 0.164 | 0.42 | 0.353 | 0.47 |
| 648 657 | 666 675 | 675 684 | 684 693 | 693 702 | 711 720 | 639 558 | 73 74 | 76 77 | 78 79 | 79 80 | 80 71 | 62 53 | 170 251 | 575 656 | 654 653 |
| 666 675 | 684 693 | 693 702 | 702 711 | 711 720 | 639 558 | 477 396 | 75 76 | 78 79 | 80 71 | 71 62 | 62 53 | 44 35 | 332 413 | 655 654 | 652 651 |
| 504 531 | 558 585 | 585 612 | 612 639 | 639 666 | 693 720 | 477 234 | 217 218 | 220 221 | 222 223 | 223 224 | 224 197 | 170 143 | 494 17 | 269 512 | 510 509 |
| 558 585 | 612 639 | 639 666 | 666 693 | 693 720 | 477 234 | 711 468 | 219 220 | 222 223 | 224 197 | 197 170 | 170 143 | 116 89 | 260 503 | 511 510 | 508 507 |

**16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7**

| *Code* | *iton* | *index* | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> olv** | *X* | *Y* | *Z* | *x* | *y* | *L** | *a** | *b** | *L**$_a$ | *a**$_a$ | *b**$_a$ | *C**$_{ab,a}$ | $h_{ab,a}$ | *rgb −> rgb** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***r00j=R*** | 657 | 531 | 58.4 | 51.0 | 44.9 | 0.3780.378 | | 76.7 | 25.5 | 10.9 | 76.7 | 25.5 | 10.9 | 27.8 | **23.2** | **1.0, 0.12, 0.0** | | | | | | | | | | | | | | |
| | 666 | 558 | 59.1 | 52.3 | 45.1 | 0.3770.377 | | 77.4 | 23.8 | 12.0 | 77.4 | 23.8 | 12.0 | 26.7 | **26.8** | **1.0, 0.25, 0.0** | 58.8 | 51.8 | 45.0 | 0.377 | 0.332 | 77.2 | 24.4 | 11.6 | 77.2 | 24.4 | 11.6 | 27.1 | **25.4** | **1.00 0.00 0.00** |
| ***r25j*** | 675 | 585 | 60.2 | 54.5 | 45.4 | 0.3750.375 | | 78.8 | 20.8 | 13.9 | 78.8 | 20.8 | 13.9 | 25.0 | **33.7** | **1.0, 0.37, 0.0** | | | | | | | | | | | | | | |
| | 684 | 612 | 61.9 | 57.9 | 46.0 | 0.3730.373 | | 80.7 | 16.5 | 16.6 | 80.7 | 16.5 | 16.6 | 23.4 | **45.1** | **1.0, 0.5, 0.0** | 61.4 | 57.1 | 45.9 | 0.373 | 0.347 | 80.2 | 17.6 | 15.9 | 80.2 | 17.6 | 15.9 | 23.7 | **42.1** | **1.00 0.25 0.00** |
| ***r50j*** | 684 | 612 | 61.9 | 57.9 | 46.0 | 0.3730.373 | | 80.7 | 16.5 | 16.6 | 80.7 | 16.5 | 16.6 | 23.4 | **45.1** | **1.0, 0.5, 0.0** | | | | | | | | | | | | | | |
| | 693 | 639 | 64.2 | 62.6 | 46.8 | 0.3690.369 | | 83.2 | 11.0 | 20.1 | 83.2 | 11.0 | 20.1 | 22.9 | **61.2** | **1.0, 0.62, 0.0** | 63.9 | 61.9 | 46.7 | 0.37 | 0.358 | 82.8 | 11.8 | 19.6 | 82.8 | 11.8 | 19.6 | 22.9 | **58.9** | **1.00 0.50 0.00** |
| ***r75j*** | 693 | 639 | 64.2 | 62.6 | 46.8 | 0.3690.369 | | 83.2 | 11.0 | 20.1 | 83.2 | 11.0 | 20.1 | 22.9 | **61.2** | **1.0, 0.62, 0.0** | | | | | | | | | | | | | | |
| | 702 | 666 | 67.2 | 68.6 | 47.8 | 0.3660.366 | | 86.3 | 4.5 | 24.3 | 86.3 | 4.5 | 24.3 | 24.7 | **79.4** | **1.0, 0.75, 0.0** | 66.5 | 67.2 | 47.6 | 0.366 | 0.37 | 85.6 | 5.9 | 23.3 | 85.6 | 5.9 | 23.3 | 24.1 | **75.6** | **1.00 0.75 0.00** |
| ***j00g=J*** | 702 | 666 | 67.2 | 68.6 | 47.8 | 0.3660.366 | | 86.3 | 4.5 | 24.3 | 86.3 | 4.5 | 24.3 | 24.7 | **79.4** | **1.0, 0.75, 0.0** | | | | | | | | | | | | | | |
| | 711 | 693 | 70.9 | 76.0 | 49.0 | 0.3610.361 | | 89.9 | −2.8 | 29.2 | 89.9 | −2.8 | 29.2 | 29.3 | **95.5** | **1.0, 0.87, 0.0** | 70.0 | 74.2 | 48.7 | 0.362 | 0.384 | 89.0 | −1.1 | 28.1 | 89.0 | −1.1 | 28.1 | 28.1 | **92.3** | **1.00 1.00 0.00** |
| ***j25g*** | 720 | 720 | 75.4 | 85.1 | 50.5 | 0.3570.357 | | 93.9 | −10.7 | 34.6 | 93.9 | −10.7 | 34.6 | 36.2 | **107.3** | **1.0, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 639 | 477 | 70.2 | 82.4 | 50.3 | 0.3460.346 | | 92.7 | −16.6 | 32.8 | 92.7 | −16.6 | 32.8 | 36.8 | **116.8** | **0.87, 1.0, 0.0** | 74.6 | 85.0 | 50.6 | 0.354 | 0.404 | 93.9 | −12.4 | 34.5 | 93.9 | −12.4 | 34.5 | 36.7 | **109.7** | **0.75 1.00 0.00** |
| ***j50g*** | 558 | 234 | 65.9 | 80.2 | 50.1 | 0.3360.336 | | 91.7 | −21.8 | 31.3 | 91.7 | −21.8 | 31.3 | 38.2 | **124.8** | **0.75, 1.0, 0.0** | | | | | | | | | | | | | | |
| | 477 | 711 | 62.5 | 78.4 | 49.9 | 0.3270.327 | | 90.9 | −26.2 | 30.1 | 90.9 | −26.2 | 30.1 | 39.9 | **131.0** | **0.62, 1.0, 0.0** | 64.6 | 79.5 | 50.0 | 0.332 | 0.409 | 91.4 | −23.5 | 30.9 | 91.4 | −23.5 | 30.9 | 38.8 | **127.2** | **0.50 1.00 0.00** |
| ***j75g*** | 74 | 218 | 56.0 | 75.0 | 51.9 | 0.3060.306 | | 89.4 | −35.0 | 25.4 | 89.4 | −35.0 | 25.4 | 43.3 | **144.0** | **0.0, 1.0, 0.25** | | | | | | | | | | | | | | |
| | 75 | 219 | 56.5 | 75.2 | 54.9 | 0.3020.302 | | 89.5 | −34.1 | 22.6 | 89.5 | −34.1 | 22.6 | 40.9 | **146.4** | **0.0, 1.0, 0.37** | 56.1 | 75.0 | 52.8 | 0.305 | 0.407 | 89.4 | −34.8 | 24.6 | 89.4 | −34.8 | 24.6 | 42.6 | **144.7** | **0.25 1.00 0.00** |
| ***g00b=G*** | 77 | 221 | 58.6 | 76.0 | 65.6 | 0.2920.292 | | 89.8 | −30.8 | 13.6 | 89.8 | −30.8 | 13.6 | 33.6 | **156.1** | **0.0, 1.0, 0.62** | | | | | | | | | | | | | | |
| | 78 | 222 | 60.1 | 76.6 | 73.6 | 0.2850.285 | | 90.1 | −28.3 | 7.5 | 90.1 | −28.3 | 7.5 | 29.3 | **165.1** | **0.0, 1.0, 0.75** | 59.6 | 76.4 | 71.1 | 0.287 | 0.368 | 90.0 | −29.1 | 9.3 | 90.0 | −29.1 | 9.3 | 30.5 | **162.2** | **0.00 1.00 0.00** |
| ***g25b*** | 79 | 223 | 62.0 | 77.4 | 83.5 | 0.2780.278 | | 90.5 | −25.4 | 0.5 | 90.5 | −25.4 | 0.5 | 25.4 | **178.7** | **0.0, 1.0, 0.87** | | | | | | | | | | | | | | |
| | 80 | 224 | 64.2 | 78.3 | 95.5 | 0.2690.269 | | 90.9 | −21.9 | −7.1 | 90.9 | −21.9 | −7.1 | 23.1 | **197.9** | **0.0, 1.0, 1.0** | 63.7 | 78.6 | 91.2 | 0.272 | 0.336 | 91.0 | −23.7 | −4.0 | 91.0 | −23.7 | −4.0 | 24.0 | **189.6** | **0.00 1.00 0.50** |
| ***g50b*** | 80 | 224 | 64.2 | 78.3 | 95.5 | 0.2690.269 | | 90.9 | −21.9 | −7.1 | 90.9 | −21.9 | −7.1 | 23.1 | **197.9** | **0.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 71 | 197 | 59.7 | 69.3 | 94.0 | 0.2670.267 | | 86.6 | −14.0 | −13.4 | 86.6 | −14.0 | −13.4 | 19.4 | **223.7** | **0.0, 0.87, 1.0** | 61.0 | 71.6 | 94.8 | 0.268 | 0.314 | 87.7 | −16.0 | −12.0 | 87.7 | −16.0 | −12.0 | 20.0 | **216.9** | **0.00 1.00 1.00** |
| ***g75b*** | 71 | 197 | 59.7 | 69.3 | 94.0 | 0.2670.267 | | 86.6 | −14.0 | −13.4 | 86.6 | −14.0 | −13.4 | 19.4 | **223.7** | **0.0, 0.87, 1.0** | | | | | | | | | | | | | | |
| | 62 | 170 | 56.0 | 61.8 | 92.7 | 0.2660.266 | | 82.8 | −6.6 | −19.2 | 82.8 | −6.6 | −19.2 | 20.3 | **250.8** | **0.0, 0.75, 1.0** | 56.9 | 63.6 | 93.0 | 0.266 | 0.297 | 83.7 | −8.5 | −17.7 | 83.7 | −8.5 | −17.7 | 19.7 | **244.2** | **0.00 0.50 1.00** |
| ***b00r=B*** | 53 | 143 | 53.0 | 55.8 | 91.7 | 0.2640.264 | | 79.5 | 0.0 | −24.2 | 79.5 | 0.0 | −24.2 | 24.2 | **269.8** | **0.0, 0.62, 1.0** | | | | | | | | | | | | | | |
| | 44 | 116 | 50.7 | 51.1 | 91.0 | 0.2620.262 | | 76.7 | 5.5 | −28.4 | 76.7 | 5.5 | −28.4 | 28.9 | **281.1** | **0.0, 0.5, 1.0** | 52.7 | 55.1 | 91.6 | 0.264 | 0.276 | 79.1 | 0.7 | −24.8 | 79.1 | 0.7 | −24.8 | 24.8 | **271.6** | **0.00 0.00 1.00** |
| ***b25r*** | 251 | 17 | 49.3 | 44.9 | 89.8 | 0.2670.267 | | 72.8 | 18.7 | −34.3 | 72.8 | 18.7 | −34.3 | 39.1 | **298.5** | **0.37, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 332 | 260 | 51.2 | 46.0 | 89.9 | 0.2730.273 | | 73.5 | 21.1 | −33.2 | 73.5 | 21.1 | −33.2 | 39.4 | **302.3** | **0.5, 0.0, 1.0** | 50.1 | 45.4 | 89.9 | 0.27 | 0.244 | 73.1 | 19.7 | −33.9 | 73.1 | 19.7 | −33.9 | 39.2 | **300.1** | **0.50 0.00 1.00** |
| ***b50r*** | 656 | 512 | 66.9 | 54.0 | 90.7 | 0.3160.316 | | 78.5 | 37.5 | −25.2 | 78.5 | 37.5 | −25.2 | 45.2 | **326.0** | **1.0, 0.0, 1.0** | | | | | | | | | | | | | | |
| | 655 | 511 | 64.6 | 53.1 | 78.7 | 0.3290.329 | | 77.9 | 34.7 | −17.4 | 77.9 | 34.7 | −17.4 | 38.8 | **333.2** | **1.0, 0.0, 0.87** | 66.5 | 53.9 | 86.6 | 0.321 | 0.26 | 78.4 | 36.9 | −22.5 | 78.4 | 36.9 | −22.5 | 43.2 | **328.5** | **1.00 0.00 1.00** |
| ***b75r*** | 653 | 509 | 61.2 | 51.7 | 60.8 | 0.3520.352 | | 77.1 | 30.3 | −4.0 | 77.1 | 30.3 | −4.0 | 30.6 | **352.3** | **1.0, 0.0, 0.62** | | | | | | | | | | | | | | |
| | 652 | 508 | 60.0 | 51.3 | 54.6 | 0.3610.361 | | 76.8 | 28.8 | 1.1 | 76.8 | 28.8 | 1.1 | 28.8 | **2.3** | **1.0, 0.0, 0.5** | 60.6 | 51.5 | 57.7 | 0.356 | 0.303 | 77.0 | 29.6 | −1.5 | 77.0 | 29.6 | −1.5 | 29.6 | **357.0** | **1.00 0.00 0.50** |

**5 step equidistant grey scale with intended lightness: *L** = 69.6, 76.1, 82.5, 88.9, 95.4**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***n000w=N*** | 999 | 999 | 38.3 | 40.3 | 43.9 | 0.312 | 0.312 | 69.6 | 0.0 | 0.0 | 69.6 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | | | | | | | | | | | | | | |
| | 999 | 999 | 38.3 | 40.3 | 43.9 | 0.312 | 0.312 | 69.6 | 0.0 | 0.0 | 69.6 | 0.0 | 0.0 | 0.0 | **0.0** | **0.0, 0.0, 0.0** | 38.3 | 40.3 | 43.9 | 0.312 | 0.329 | 69.6 | 0.0 | 0.0 | **69.6** | 0.0 | 0.0 | 0.0 | 0.0 | **0.00 0.00 0.00** |
| ***n025w*** | 1002 | 1002 | 43.6 | 45.9 | 49.9 | 0.312 | 0.312 | 73.4 | 0.0 | 0.0 | 73.4 | 0.0 | 0.0 | 0.0 | **326.2** | **0.37, 0.37, 0.37** | | | | | | | | | | | | | | |
| | 1003 | 1003 | 48.1 | 50.6 | 55.1 | 0.312 | 0.312 | 76.4 | 0.0 | 0.0 | 76.4 | 0.0 | 0.0 | 0.0 | **325.5** | **0.5, 0.5, 0.5** | 47.6 | 50.0 | 54.5 | 0.312 | 0.329 | 76.1 | 0.0 | 0.0 | **76.1** | 0.0 | 0.0 | 0.0 | 325.6 | **0.25 0.25 0.25** |
| ***n050w*** | 1004 | 1004 | 54.3 | 57.1 | 62.2 | 0.312 | 0.312 | 80.2 | 0.0 | 0.0 | 80.2 | 0.0 | 0.0 | 0.0 | **326.6** | **0.62, 0.62, 0.62** | | | | | | | | | | | | | | |
| | 1005 | 1005 | 62.2 | 65.5 | 71.3 | 0.312 | 0.312 | 84.7 | 0.0 | 0.0 | 84.7 | 0.0 | 0.0 | 0.0 | **324.1** | **0.75, 0.75, 0.75** | 58.3 | 61.3 | 66.8 | 0.312 | 0.329 | 82.5 | 0.0 | 0.0 | **82.5** | 0.0 | 0.0 | 0.0 | 326.0 | **0.50 0.50 0.50** |
| ***n075w*** | 1005 | 1005 | 62.2 | 65.5 | 71.3 | 0.312 | 0.312 | 84.7 | 0.0 | 0.0 | 84.7 | 0.0 | 0.0 | 0.0 | **324.1** | **0.75, 0.75, 0.75** | | | | | | | | | | | | | | |
| | 1006 | 1006 | 72.2 | 75.9 | 82.7 | 0.312 | 0.312 | 89.8 | 0.0 | 0.0 | 89.8 | 0.0 | 0.0 | 0.0 | **324.8** | **0.87, 0.87, 0.87** | 70.4 | 74.1 | 80.7 | 0.312 | 0.329 | 88.9 | 0.0 | 0.0 | **88.9** | 0.0 | 0.0 | 0.0 | 324.2 | **0.75 0.75 0.75** |
| ***n100w=W*** | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | | | | | | | | | | | | | | |
| | 1007 | 1007 | 84.1 | 88.5 | 96.4 | 0.312 | 0.312 | 95.4 | 0.0 | 0.0 | 95.4 | 0.0 | 0.0 | 0.0 | **0.0** | **1.0, 1.0, 1.0** | 84.1 | 88.5 | 96.4 | 0.312 | 0.329 | 95.4 | 0.0 | 0.0 | **95.4** | 0.0 | 0.0 | 0.0 | 0.0 | **1.00 1.00 1.00** |

KE140−7N, Page 11/11, LAB*la7, adapted=not adapted