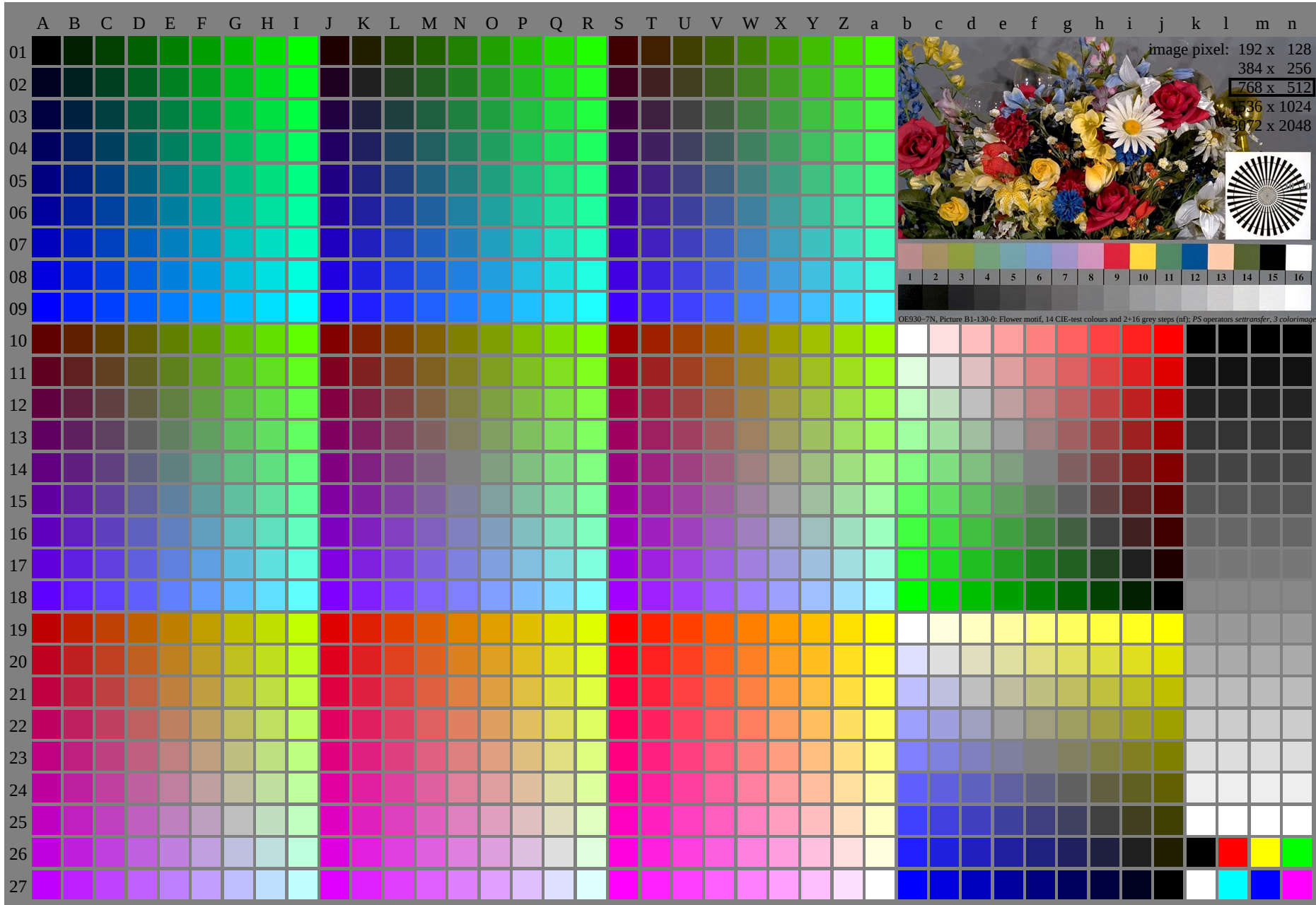
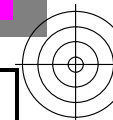
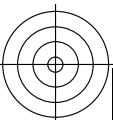


See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE930-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^* \cdot (A_n)$ , colorm = 1, xchart = 0, pchart = 0

OE93: Test chart 2G with 40x27=1080 colours; 1MR, DH  
Digital equidistant 9 or 16 step colour scales

input:  $000n/w/cmy0/rgb (->rgb^*_d)$   
output 130-0:  $g_P=1.0; g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rha4ta

http://130.149.60.45/~farbmeterik/OE93/OE93L0NA.TXT /.PS; linearized output, Page 2/3  
F: Output Linearization (OL) data OE93/OE93L0NA.TXT /.PS in File (F)

|    | A         | B         | C         | D         | E         | F         | G         | H         | I         | J         | K         | L         | M         | N           | O         | P         | Q         | R         | S         | T         | U         | V         | W         | X         | Y         | Z         | a         | b         | c         | d         | e         | f         | g         | h         | i         | j         | k         | l         | m         | n         |           |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 | 0.000 A01 | 0.009 B01 | 0.018 C01 | 0.027 D01 | 0.036 E01 | 0.045 F01 | 0.054 G01 | 0.063 H01 | 0.072 I01 | 0.081 J01 | 0.090 K01 | 0.099 L01 | 0.108 M01 | 0.117 N01   | 0.126 O01 | 0.135 P01 | 0.144 Q01 | 0.153 R01 | 0.162 S01 | 0.171 T01 | 0.180 U01 | 0.189 V01 | 0.198 W01 | 0.207 X01 | 0.216 Y01 | 0.225 Z01 | 0.234 a01 | 0.243 b01 | 0.252 c01 | 0.261 d01 | 0.270 e01 | 0.279 f01 | 0.288 g01 | 0.297 h01 | 0.306 i01 | 0.315 j01 | 0.324 k01 | 0.333 l01 | 0.342 m01 | 0.351 n01 |           |
| 02 | 0.000 A02 | 0.010 B02 | 0.019 C02 | 0.028 D02 | 0.037 E02 | 0.046 F02 | 0.055 G02 | 0.064 H02 | 0.073 I02 | 0.082 J02 | 0.091 K02 | 0.100 L02 | 0.109 M02 | 0.118 N02   | 0.127 O02 | 0.136 P02 | 0.145 Q02 | 0.154 R02 | 0.163 S02 | 0.172 T02 | 0.181 U02 | 0.190 V02 | 0.199 W02 | 0.208 X02 | 0.217 Y02 | 0.226 Z02 | 0.235 a02 | 0.244 b02 | 0.253 c02 | 0.262 d02 | 0.271 e02 | 0.280 f02 | 0.289 g02 | 0.298 h02 | 0.307 i02 | 0.316 j02 | 0.325 k02 | 0.334 l02 | 0.343 m02 | 0.352 n02 |           |
| 03 | 0.000 A03 | 0.010 B03 | 0.020 C03 | 0.029 D03 | 0.038 E03 | 0.047 F03 | 0.056 G03 | 0.065 H03 | 0.074 I03 | 0.083 J03 | 0.092 K03 | 0.101 L03 | 0.110 M03 | 0.119 N03   | 0.128 O03 | 0.137 P03 | 0.146 Q03 | 0.155 R03 | 0.164 S03 | 0.173 T03 | 0.182 U03 | 0.191 V03 | 0.200 W03 | 0.209 X03 | 0.218 Y03 | 0.227 Z03 | 0.236 a03 | 0.245 b03 | 0.254 c03 | 0.263 d03 | 0.272 e03 | 0.281 f03 | 0.290 g03 | 0.299 h03 | 0.308 i03 | 0.317 j03 | 0.326 k03 | 0.335 l03 | 0.344 m03 | 0.353 n03 |           |
| 04 | 0.000 A04 | 0.010 B04 | 0.020 C04 | 0.030 D04 | 0.039 E04 | 0.048 F04 | 0.057 G04 | 0.066 H04 | 0.075 I04 | 0.084 J04 | 0.093 K04 | 0.102 L04 | 0.111 M04 | 0.120 N04   | 0.129 O04 | 0.138 P04 | 0.147 Q04 | 0.156 R04 | 0.165 S04 | 0.174 T04 | 0.183 U04 | 0.192 V04 | 0.201 W04 | 0.210 X04 | 0.219 Y04 | 0.228 Z04 | 0.237 a04 | 0.246 b04 | 0.255 c04 | 0.264 d04 | 0.273 e04 | 0.282 f04 | 0.291 g04 | 0.300 h04 | 0.309 i04 | 0.318 j04 | 0.327 k04 | 0.336 l04 | 0.345 m04 | 0.354 n04 |           |
| 05 | 0.000 A05 | 0.010 B05 | 0.020 C05 | 0.031 D05 | 0.040 E05 | 0.049 F05 | 0.058 G05 | 0.067 H05 | 0.076 I05 | 0.085 J05 | 0.094 K05 | 0.103 L05 | 0.112 M05 | 0.121 N05   | 0.130 O05 | 0.139 P05 | 0.148 Q05 | 0.157 R05 | 0.166 S05 | 0.175 T05 | 0.184 U05 | 0.193 V05 | 0.202 W05 | 0.211 X05 | 0.220 Y05 | 0.229 Z05 | 0.238 a05 | 0.247 b05 | 0.256 c05 | 0.265 d05 | 0.274 e05 | 0.283 f05 | 0.292 g05 | 0.301 h05 | 0.310 i05 | 0.319 j05 | 0.328 k05 | 0.337 l05 | 0.346 m05 | 0.355 n05 |           |
| 06 | 0.000 A06 | 0.010 B06 | 0.020 C06 | 0.032 D06 | 0.041 E06 | 0.050 F06 | 0.059 G06 | 0.068 H06 | 0.077 I06 | 0.086 J06 | 0.095 K06 | 0.104 L06 | 0.113 M06 | 0.122 N06   | 0.131 O06 | 0.140 P06 | 0.149 Q06 | 0.158 R06 | 0.167 S06 | 0.176 T06 | 0.185 U06 | 0.194 V06 | 0.203 W06 | 0.212 X06 | 0.221 Y06 | 0.230 Z06 | 0.239 a06 | 0.248 b06 | 0.257 c06 | 0.266 d06 | 0.275 e06 | 0.284 f06 | 0.293 g06 | 0.302 h06 | 0.311 i06 | 0.320 j06 | 0.329 k06 | 0.338 l06 | 0.347 m06 | 0.356 n06 |           |
| 07 | 0.000 A07 | 0.010 B07 | 0.020 C07 | 0.033 D07 | 0.042 E07 | 0.051 F07 | 0.060 G07 | 0.069 H07 | 0.078 I07 | 0.087 J07 | 0.096 K07 | 0.105 L07 | 0.114 M07 | 0.123 N07   | 0.132 O07 | 0.141 P07 | 0.150 Q07 | 0.159 R07 | 0.168 S07 | 0.177 T07 | 0.186 U07 | 0.195 V07 | 0.204 W07 | 0.213 X07 | 0.222 Y07 | 0.231 Z07 | 0.240 a07 | 0.249 b07 | 0.258 c07 | 0.267 d07 | 0.276 e07 | 0.285 f07 | 0.294 g07 | 0.303 h07 | 0.312 i07 | 0.321 j07 | 0.330 k07 | 0.339 l07 | 0.348 m07 | 0.357 n07 |           |
| 08 | 0.000 A08 | 0.010 B08 | 0.020 C08 | 0.034 D08 | 0.043 E08 | 0.052 F08 | 0.061 G08 | 0.070 H08 | 0.079 I08 | 0.088 J08 | 0.097 K08 | 0.106 L08 | 0.115 M08 | 0.124 N08   | 0.133 O08 | 0.142 P08 | 0.151 Q08 | 0.160 R08 | 0.169 S08 | 0.178 T08 | 0.187 U08 | 0.196 V08 | 0.205 W08 | 0.214 X08 | 0.223 Y08 | 0.232 Z08 | 0.241 a08 | 0.250 b08 | 0.259 c08 | 0.268 d08 | 0.277 e08 | 0.286 f08 | 0.295 g08 | 0.304 h08 | 0.313 i08 | 0.322 j08 | 0.331 k08 | 0.340 l08 | 0.349 m08 | 0.358 n08 |           |
| 09 | 0.000 A09 | 0.010 B09 | 0.020 C09 | 0.035 D09 | 0.044 E09 | 0.053 F09 | 0.062 G09 | 0.071 H09 | 0.080 I09 | 0.089 J09 | 0.098 K09 | 0.107 L09 | 0.116 M09 | 0.125 N09   | 0.134 O09 | 0.143 P09 | 0.152 Q09 | 0.161 R09 | 0.170 S09 | 0.179 T09 | 0.188 U09 | 0.197 V09 | 0.206 W09 | 0.215 X09 | 0.224 Y09 | 0.233 Z09 | 0.242 a09 | 0.251 b09 | 0.260 c09 | 0.269 d09 | 0.278 e09 | 0.287 f09 | 0.296 g09 | 0.305 h09 | 0.314 i09 | 0.323 j09 | 0.332 k09 | 0.341 l09 | 0.350 m09 | 0.359 n09 |           |
| 10 | 0.000 A10 | 0.010 B10 | 0.020 C10 | 0.036 D10 | 0.045 E10 | 0.054 F10 | 0.063 G10 | 0.072 I10 | 0.081 J10 | 0.090 K10 | 0.099 L10 | 0.108 M10 | 0.117 N10 | 0.126 O10   | 0.135 P10 | 0.144 Q10 | 0.153 R10 | 0.162 S10 | 0.171 T10 | 0.180 U10 | 0.189 V10 | 0.198 W10 | 0.207 X10 | 0.216 Y10 | 0.225 Z10 | 0.234 a10 | 0.243 b10 | 0.252 c10 | 0.261 d10 | 0.270 e10 | 0.279 f10 | 0.288 g10 | 0.297 h10 | 0.306 i10 | 0.315 j10 | 0.324 k10 | 0.333 l10 | 0.342 m10 | 0.351 n10 | 0.360 o10 | 0.369 p10 |
| 11 | 0.000 A11 | 0.010 B11 | 0.020 C11 | 0.037 D11 | 0.046 E11 | 0.055 F11 | 0.064 G11 | 0.073 I11 | 0.082 J11 | 0.091 K11 | 0.100 L11 | 0.109 M11 | 0.118 N11 | 0.127 O11   | 0.136 P11 | 0.145 Q11 | 0.154 R11 | 0.163 S11 | 0.172 T11 | 0.181 U11 | 0.190 V11 | 0.199 W11 | 0.208 X11 | 0.217 Y11 | 0.226 Z11 | 0.235 a11 | 0.244 b11 | 0.253 c11 | 0.262 d11 | 0.271 e11 | 0.280 f11 | 0.289 g11 | 0.298 h11 | 0.307 i11 | 0.316 j11 | 0.325 k11 | 0.334 l11 | 0.343 m11 | 0.352 n11 | 0.361 o11 | 0.370 p11 |
| 12 | 0.000 A12 | 0.010 B12 | 0.020 C12 | 0.038 D12 | 0.047 E12 | 0.056 F12 | 0.065 G12 | 0.074 I12 | 0.083 J12 | 0.092 K12 | 0.101 L12 | 0.110 M12 | 0.119 N12 | 0.128 O12   | 0.137 P12 | 0.146 Q12 | 0.155 R12 | 0.164 S12 | 0.173 T12 | 0.182 U12 | 0.191 V12 | 0.200 W12 | 0.209 X12 | 0.218 Y12 | 0.227 Z12 | 0.236 a12 | 0.245 b12 | 0.254 c12 | 0.263 d12 | 0.272 e12 | 0.281 f12 | 0.290 g12 | 0.299 h12 | 0.308 i12 | 0.317 j12 | 0.326 k12 | 0.335 l12 | 0.344 m12 | 0.353 n12 | 0.362 o12 | 0.371 p12 |
| 13 | 0.000 A13 | 0.010 B13 | 0.020 C13 | 0.039 D13 | 0.048 E13 | 0.057 F13 | 0.066 G13 | 0.075 I13 | 0.084 J13 | 0.093 K13 | 0.102 L13 | 0.111 M13 | 0.120 N13 | 0.129 O13   | 0.138 P13 | 0.147 Q13 | 0.156 R13 | 0.165 S13 | 0.174 T13 | 0.183 U13 | 0.192 V13 | 0.201 W13 | 0.210 X13 | 0.219 Y13 | 0.228 Z13 | 0.237 a13 | 0.246 b13 | 0.255 c13 | 0.264 d13 | 0.273 e13 | 0.282 f13 | 0.291 g13 | 0.300 h13 | 0.309 i13 | 0.318 j13 | 0.327 k13 | 0.336 l13 | 0.345 m13 | 0.354 n13 | 0.363 o13 | 0.372 p13 |
| 14 | 0.000 A14 | 0.010 B14 | 0.020 C14 | 0.040 D14 | 0.049 E14 | 0.058 F14 | 0.067 G14 | 0.076 I14 | 0.085 J14 | 0.094 K14 | 0.103 L14 | 0.112 M14 | 0.121 N14 | 0.130 O14   | 0.139 P14 | 0.148 Q14 | 0.157 R14 | 0.166 S14 | 0.175 T14 | 0.184 U14 | 0.193 V14 | 0.202 W14 | 0.211 X14 | 0.220 Y14 | 0.229 Z14 | 0.238 a14 | 0.247 b14 | 0.256 c14 | 0.265 d14 | 0.274 e14 | 0.283 f14 | 0.292 g14 | 0.301 h14 | 0.310 i14 | 0.319 j14 | 0.328 k14 | 0.337 l14 | 0.346 m14 | 0.355 n14 | 0.364 o14 | 0.373 p14 |
| 15 | 0.000 A15 | 0.010 B15 | 0.020 C15 | 0.041 D15 | 0.050 E15 | 0.059 F15 | 0.068 G15 | 0.077 I15 | 0.086 J15 | 0.095 K15 | 0.104 L15 | 0.113 M15 | 0.122 N15 | 0.131 O15   | 0.140 P15 | 0.149 Q15 | 0.158 R15 | 0.167 S15 | 0.176 T15 | 0.185 U15 | 0.194 V15 | 0.203 W15 | 0.212 X15 | 0.221 Y15 | 0.230 Z15 | 0.239 a15 | 0.248 b15 | 0.257 c15 | 0.266 d15 | 0.275 e15 | 0.284 f15 | 0.293 g15 | 0.302 h15 | 0.311 i15 | 0.320 j15 | 0.329 k15 | 0.338 l15 | 0.347 m15 | 0.356 n15 | 0.365 o15 | 0.374 p15 |
| 16 | 0.000 A16 | 0.010 B16 | 0.020 C16 | 0.042 D16 | 0.051 E16 | 0.060 F16 | 0.069 G16 | 0.078 I16 | 0.087 J16 | 0.096 K16 | 0.105 L16 | 0.114 M16 | 0.123 N16 | 0.132 O16   | 0.141 P16 | 0.150 Q16 | 0.159 R16 | 0.168 S16 | 0.177 T16 | 0.186 U16 | 0.195 V16 | 0.204 W16 | 0.213 X16 | 0.222 Y16 | 0.231 Z16 | 0.240 a16 | 0.249 b16 | 0.258 c16 | 0.267 d16 | 0.276 e16 | 0.285 f16 | 0.294 g16 | 0.303 h16 | 0.312 i16 | 0.321 j16 | 0.330 k16 | 0.339 l16 | 0.348 m16 | 0.357 n16 | 0.366 o16 | 0.375 p16 |
| 17 | 0.000 A17 | 0.010 B17 | 0.020 C17 | 0.043 D17 | 0.052 E17 | 0.061 F17 | 0.070 G17 | 0.079 I17 | 0.088 J17 | 0.097 K17 | 0.106 L17 | 0.115 M17 | 0.124 N17 | 0.133 O17   | 0.142 P17 | 0.151 Q17 | 0.160 R17 | 0.169 S17 | 0.178 T17 | 0.187 U17 | 0.196 V17 | 0.205 W17 | 0.214 X17 | 0.223 Y17 | 0.232 Z17 | 0.241 a17 | 0.250 b17 | 0.259 c17 | 0.268 d17 | 0.277 e17 | 0.286 f17 | 0.295 g17 | 0.304 h17 | 0.313 i17 | 0.322 j17 | 0.331 k17 | 0.340 l17 | 0.349 m17 | 0.358 n17 | 0.367 o17 | 0.376 p17 |
| 18 | 0.000 A18 | 0.010 B18 | 0.020 C18 | 0.044 D18 | 0.053 E18 | 0.062 F18 | 0.071 G18 | 0.080 I18 | 0.089 J18 | 0.098 K18 | 0.107 L18 | 0.116 M18 | 0.125 N18 | 0.134 O18   | 0.143 P18 | 0.152 Q18 | 0.161 R18 | 0.170 S18 | 0.179 T18 | 0.188 U18 | 0.197 V18 | 0.206 W18 | 0.215 X18 | 0.224 Y18 | 0.233 Z18 | 0.242 a18 | 0.251 b18 | 0.260 c18 | 0.269 d18 | 0.278 e18 | 0.287 f18 | 0.296 g18 | 0.305 h18 | 0.314 i18 | 0.323 j18 | 0.332 k18 | 0.341 l18 | 0.350 m18 | 0.359 n18 | 0.368 o18 | 0.377 p18 |
| 19 | 0.000 A19 | 0.010 B19 | 0.020 C19 | 0.045 D19 | 0.054 E19 | 0.063 F19 | 0.072 G19 | 0.081 I19 | 0.090 J19 | 0.099 K19 | 0.108 L19 | 0.117 M19 | 0.126 N19 | 0.135 O19   | 0.144 P19 | 0.153 Q19 | 0.162 R19 | 0.171 S19 | 0.180 T19 | 0.189 U19 | 0.198 V19 | 0.207 W19 | 0.216 X19 | 0.225 Y19 | 0.234 Z19 | 0.243 a19 | 0.252 b19 | 0.261 c19 | 0.270 d19 | 0.279 e19 | 0.288 f19 | 0.297 g19 | 0.306 h19 | 0.315 i19 | 0.324 j19 | 0.333 k19 | 0.342 l19 | 0.351 m19 | 0.360 n19 | 0.369 o19 | 0.378 p19 |
| 20 | 0.000 A20 | 0.010 B20 | 0.020 C20 | 0.046 D20 | 0.055 E20 | 0.064 F20 | 0.073 G20 | 0.082 I20 | 0.091 J20 | 0.100 K20 | 0.109 L20 | 0.118 M20 | 0.127 N20 | 0.136 O20   | 0.145 P20 | 0.154 Q20 | 0.163 R20 | 0.172 S20 | 0.181 T20 | 0.190 U20 | 0.199 V20 | 0.208 W20 | 0.217 X20 | 0.226 Y20 | 0.235 Z20 | 0.244 a20 | 0.253 b20 | 0.262 c20 | 0.271 d20 | 0.280 e20 | 0.289 f20 | 0.298 g20 | 0.307 h20 | 0.316 i20 | 0.325 j20 | 0.334 k20 | 0.343 l20 | 0.352 m20 | 0.361 n20 | 0.370 o20 | 0.379 p20 |
| 21 | 0.000 A21 | 0.010 B21 | 0.020 C21 | 0.047 D21 | 0.056 E21 | 0.065 F21 | 0.074 G21 | 0.083 I21 | 0.092 J21 | 0.101 K21 | 0.110 L21 | 0.119 M21 | 0.128 N21 | 0.137 O21   | 0.146 P21 | 0.155 Q21 | 0.164 R21 | 0.173 S21 | 0.182 T21 | 0.191 U21 | 0.200 V21 | 0.209 W21 | 0.218 X21 | 0.227 Y21 | 0.236 Z21 | 0.245 a21 | 0.254 b21 | 0.263 c21 | 0.272 d21 | 0.281 e21 | 0.290 f21 | 0.299 g21 | 0.308 h21 | 0.317 i21 | 0.326 j21 | 0.335 k21 | 0.344 l21 | 0.353 m21 | 0.362 n21 | 0.371 o21 | 0.380 p21 |
| 22 | 0.000 A22 | 0.010 B22 | 0.020 C22 | 0.048 D22 | 0.057 E22 | 0.066 F22 | 0.075 G22 | 0.084 I22 | 0.093 J22 | 0.102 K22 | 0.111 L22 | 0.120 M22 | 0.129 N22 | 0.138 O22   | 0.147 P22 | 0.156 Q22 | 0.165 R22 | 0.174 S22 | 0.183 T22 | 0.192 U22 | 0.201 V22 | 0.210 W22 | 0.219 X22 | 0.228 Y22 | 0.237 Z22 | 0.246 a22 | 0.255 b22 | 0.264 c22 | 0.273 d22 | 0.282 e22 | 0.291 f22 | 0.300 g22 | 0.309 h22 | 0.318 i22 | 0.327 j22 | 0.336 k22 | 0.345 l22 | 0.354 m22 | 0.363 n22 | 0.372 o22 | 0.381 p22 |
| 23 | 0.000 A23 | 0.010 B23 | 0.020 C23 | 0.049 D23 | 0.058 E23 | 0.067 F23 | 0.076 G23 | 0.085 I23 | 0.094 J23 | 0.103 K23 | 0.112 L23 | 0.121 M23 | 0.130 N23 | 0.139 O23</ |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

| i  | LAB*ref | l*out | LAB*out | LAB*out/c-ref | ΔE*  |
|----|---------|-------|---------|---------------|------|
| 1  | 0.0     | 0.0   | 0.0     | 0.0           | 0.01 |
| 2  | 6.36    | 0.0   | 0.07    | 6.36          | 0.01 |
| 3  | 12.72   | 0.0   | 0.13    | 12.72         | 0.01 |
| 4  | 19.08   | 0.0   | 0.2     | 19.08         | 0.01 |
| 5  | 25.44   | 0.0   | 0.27    | 25.44         | 0.01 |
| 6  | 31.8    | 0.0   | 0.33    | 31.8          | 0.01 |
| 7  | 38.16   | 0.0   | 0.4     | 38.16         | 0.01 |
| 8  | 44.52   | 0.0   | 0.47    | 44.52         | 0.01 |
| 9  | 50.89   | 0.0   | 0.53    | 50.89         | 0.01 |
| 10 | 57.25   | 0.0   | 0.6     | 57.25         | 0.01 |
| 11 | 63.61   | 0.0   | 0.67    | 63.61         | 0.01 |
| 12 | 69.97   | 0.0   | 0.73    | 69.97         | 0.01 |
| 13 | 76.33   | 0.0   | 0.8     | 76.33         | 0.01 |
| 14 | 82.69   | 0.0   | 0.87    | 82.69         | 0.01 |
| 15 | 89.05   | 0.0   | 0.93    | 89.05         | 0.01 |
| 16 | 95.41   | 0.0   | 1.0     | 95.41         | 0.01 |
| 17 | 0.0     | 0.0   | 0.0     | 0.0           | 0.01 |
| 18 | 23.85   | 0.0   | 0.25    | 23.85         | 0.01 |
| 19 | 47.71   | 0.0   | 0.5     | 47.71         | 0.01 |
| 20 | 71.56   | 0.0   | 0.75    | 71.56         | 0.01 |
| 21 | 95.41   | 0.0   | 1.0     | 95.41         | 0.01 |

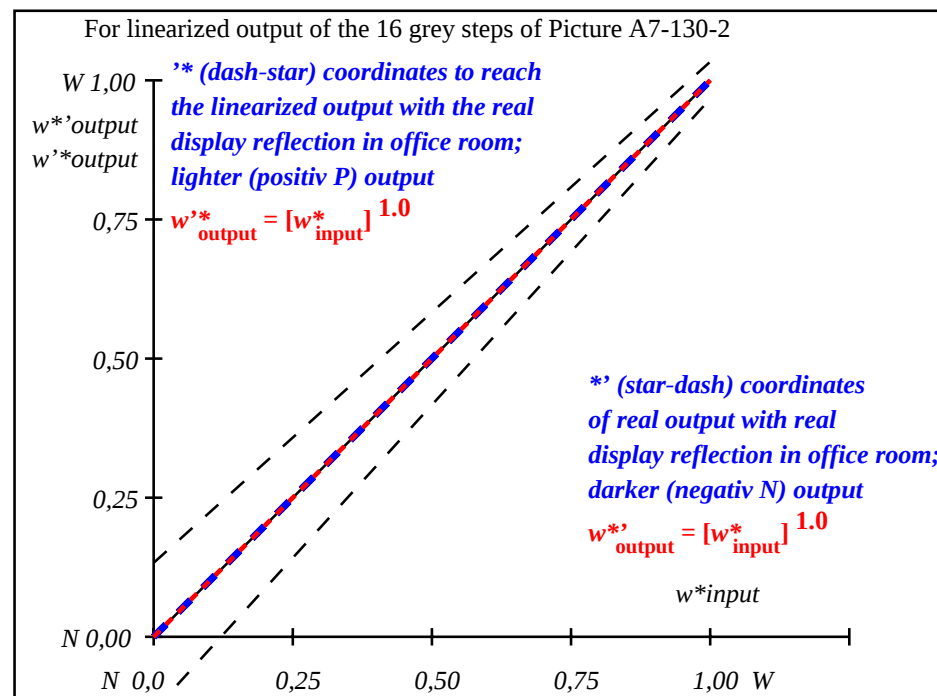
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775 Annex G**  
**and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{\text{CIELAB}} = 0.0$

Mean lightness difference (5 steps)  
 $\Delta L^*_{\text{CIELAB}} = 0.0$

Mean colour reproduction index:  $R^*_{\text{ab,m}} = 100$

OE930-3A-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE931-3N-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{\text{intended}}$<br>(absolute)                     | 0.0/0.0 | 6.4/0.7 | 12.7/1.5 | 19.1/2.8 | 25.4/4.6 | 31.8/7.0 | 38.2/10.2 | 44.5/14.2 | 50.9/19.2 | 57.2/25.2 | 63.6/32.3 | 70.0/40.7 | 76.3/50.4 | 82.7/61.6 | 89.0/74.3 | 95.4/88.6 |
|-------------------------------------------------------------|---------|---------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=1.0$<br>No. and<br>Hex code | 00;F    | 01;E    | 02;D     | 03;C     | 04;B     | 05;A     | 06;9      | 07;8      | 08;7      | 09;6      | 10;5      | 11;4      | 12;3      | 13;2      | 14;1      | 15;0      |
| $w^* = l^*$<br>$_{\text{CIELAB}, r}$<br>(relative)          |         |         |          |          |          |          |           |           |           |           |           |           |           |           |           |           |
| $w^*_{\text{intended}}$                                     | 0.000   | 0.067   | 0.133    | 0.200    | 0.267    | 0.333    | 0.400     | 0.467     | 0.533     | 0.600     | 0.667     | 0.733     | 0.800     | 0.867     | 0.933     | 1.000     |
| $w^*_{\text{out}}$                                          | 0.0     | 0.067   | 0.133    | 0.2      | 0.267    | 0.333    | 0.4       | 0.467     | 0.533     | 0.6       | 0.667     | 0.733     | 0.8       | 0.867     | 0.933     | 1.0       |

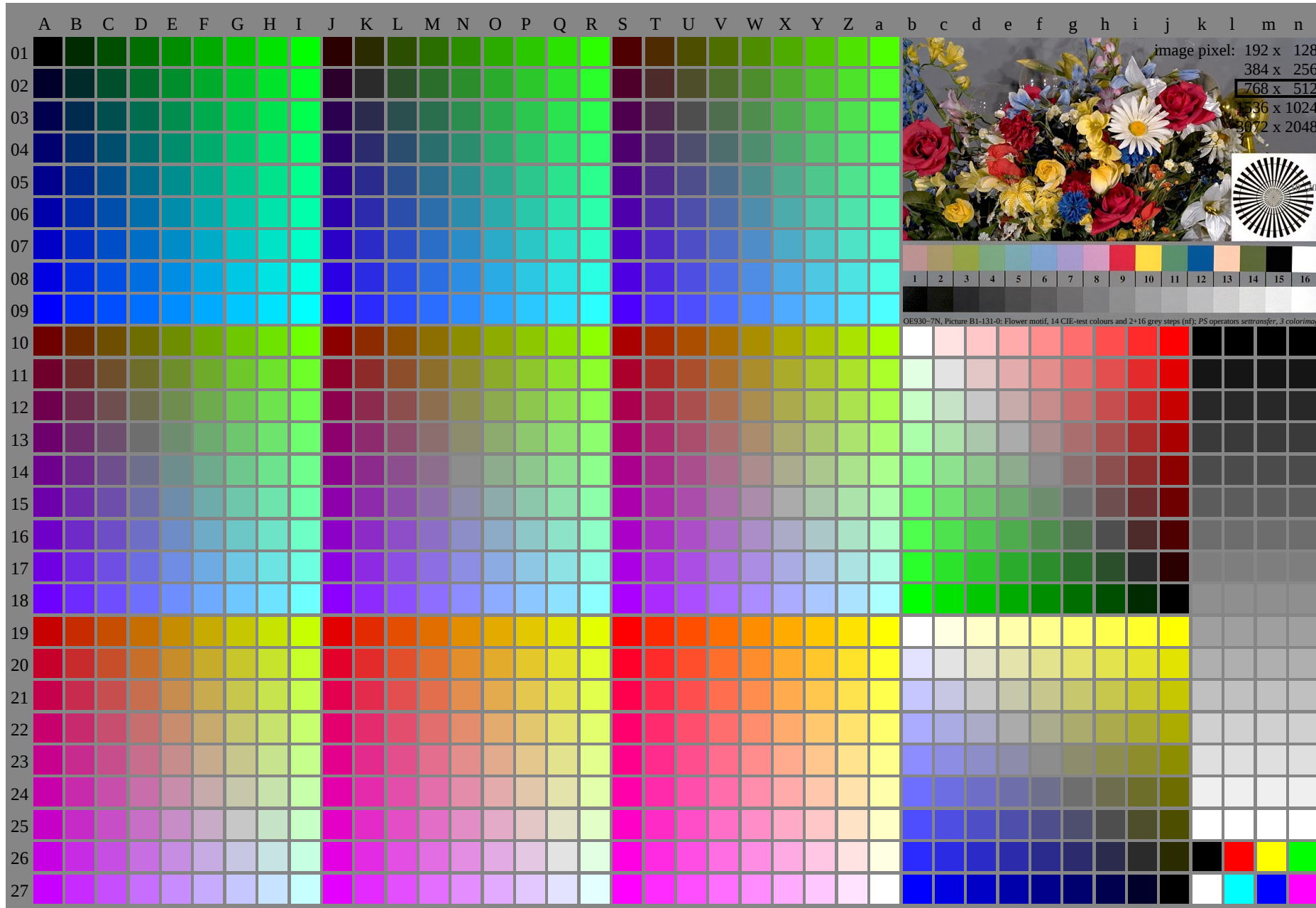
OE930-7N, Picture A7-130-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

OE93: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:0,31$ ;  $Y_N$  range 0,0 to <0,46

input: 000n/w/cmy0/rgb (->rgb\*d  
output 130-2:  $g_P=1.0$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE930-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^* \cdot (A_n)$ , colormap = 1, xchart = 1, pchart = 0

OE93: Test chart 2G with 40x27=1080 colours; 1MR, DH  
Digital equidistant 9 or 16 step colour scales

input:  $000n/w/cmy0/rgb (->rgb^*_d)$   
output 131-0:  $g_P=0.92; g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rha4ta



See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

| i  | LAB*ref       | l*out        | LAB*out       | LAB*out/c-ref | ΔE*  |
|----|---------------|--------------|---------------|---------------|------|
| 1  | 5.69 0.0 0.0  | 0.0 0.0 0.0  | 5.69 0.0 0.0  | 0.0 0.0 0.0   | 0.01 |
| 2  | 11.67 0.0 0.0 | 0.1 0.0 0.0  | 14.73 0.0 0.0 | 3.06 0.0 0.0  | 3.06 |
| 3  | 17.65 0.0 0.0 | 0.18 0.0 0.0 | 21.96 0.0 0.0 | 4.3 0.0 0.0   | 4.3  |
| 4  | 23.63 0.0 0.0 | 0.26 0.0 0.0 | 28.63 0.0 0.0 | 4.99 0.0 0.0  | 4.99 |
| 5  | 29.62 0.0 0.0 | 0.33 0.0 0.0 | 34.96 0.0 0.0 | 5.34 0.0 0.0  | 5.34 |
| 6  | 35.6 0.0 0.0  | 0.39 0.0 0.0 | 41.05 0.0 0.0 | 5.46 0.0 0.0  | 5.46 |
| 7  | 41.58 0.0 0.0 | 0.46 0.0 0.0 | 46.96 0.0 0.0 | 5.38 0.0 0.0  | 5.38 |
| 8  | 47.56 0.0 0.0 | 0.52 0.0 0.0 | 52.72 0.0 0.0 | 5.16 0.0 0.0  | 5.16 |
| 9  | 53.54 0.0 0.0 | 0.59 0.0 0.0 | 58.36 0.0 0.0 | 4.82 0.0 0.0  | 4.82 |
| 10 | 59.52 0.0 0.0 | 0.65 0.0 0.0 | 63.88 0.0 0.0 | 4.36 0.0 0.0  | 4.36 |
| 11 | 65.5 0.0 0.0  | 0.71 0.0 0.0 | 69.32 0.0 0.0 | 3.82 0.0 0.0  | 3.82 |
| 12 | 71.48 0.0 0.0 | 0.77 0.0 0.0 | 74.67 0.0 0.0 | 3.19 0.0 0.0  | 3.19 |
| 13 | 77.47 0.0 0.0 | 0.83 0.0 0.0 | 79.95 0.0 0.0 | 2.49 0.0 0.0  | 2.49 |
| 14 | 83.45 0.0 0.0 | 0.89 0.0 0.0 | 85.16 0.0 0.0 | 1.72 0.0 0.0  | 1.72 |
| 15 | 89.43 0.0 0.0 | 0.94 0.0 0.0 | 90.31 0.0 0.0 | 0.89 0.0 0.0  | 0.89 |
| 16 | 95.41 0.0 0.0 | 1.0 0.0 0.0  | 95.41 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |
| 17 | 5.69 0.0 0.0  | 0.0 0.0 0.0  | 5.69 0.0 0.0  | 0.0 0.0 0.0   | 0.01 |
| 18 | 28.12 0.0 0.0 | 0.31 0.0 0.0 | 33.4 0.0 0.0  | 5.28 0.0 0.0  | 5.28 |
| 19 | 50.55 0.0 0.0 | 0.56 0.0 0.0 | 55.55 0.0 0.0 | 5.0 0.0 0.0   | 5.0  |
| 20 | 72.98 0.0 0.0 | 0.78 0.0 0.0 | 76.0 0.0 0.0  | 3.02 0.0 0.0  | 3.02 |
| 21 | 95.41 0.0 0.0 | 1.0 0.0 0.0  | 95.41 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |

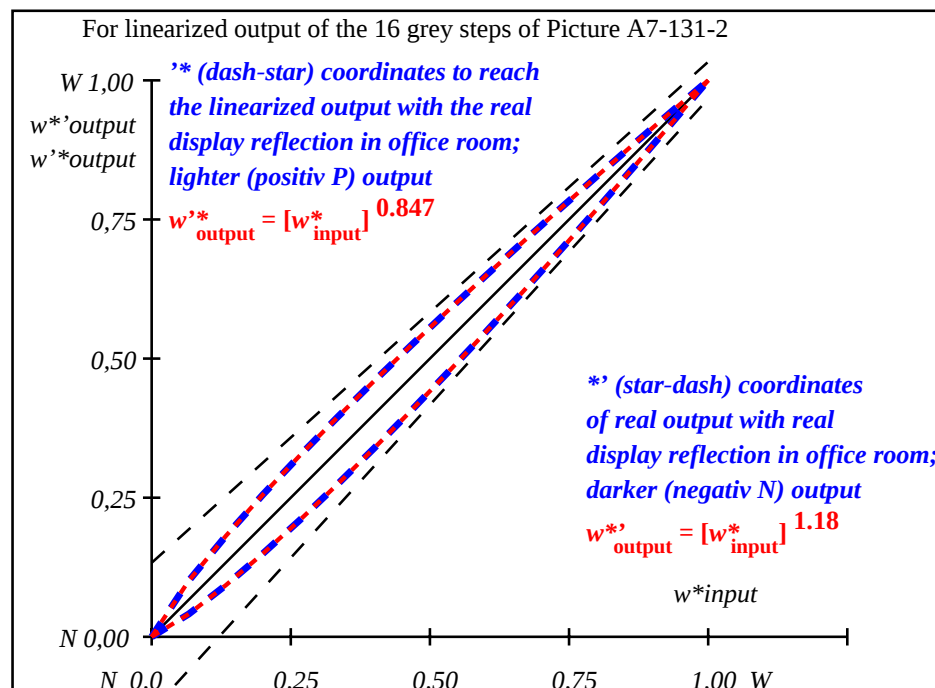
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 3.4$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 2.7$

Mean colour reproduction index:  $R^*_{ab,m} = 85$

OE930-3A-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE931-3N-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{intended}$ (absolute)    | 5.7/0.6 | 11.7/1.4 | 17.7/2.4 | 23.6/4.0 | 29.6/6.1 | 35.6/8.8 | 41.6/12.2 | 47.6/16.5 | 53.5/21.5 | 59.5/27.6 | 65.5/34.7 | 71.5/42.9 | 77.5/52.3 | 83.4/63.0 | 89.4/75.1 | 95.4/88.6 |
|----------------------------------|---------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^*w^*w^*$ setrgb               |         |          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |
| $g_P=0.92$                       |         |          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |
| No. and Hex code                 | 00;F    | 01;E     | 02;D     | 03;C     | 04;B     | 05;A     | 06;9      | 07;8      | 08;7      | 09;6      | 10;5      | 11;4      | 12;3      | 13;2      | 14;1      | 15;0      |
| $w^*=l^*_{CIELAB, r}$ (relative) |         |          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |
| $w^*_{intended}$                 | 0.000   | 0.067    | 0.133    | 0.200    | 0.267    | 0.333    | 0.400     | 0.467     | 0.533     | 0.600     | 0.667     | 0.733     | 0.800     | 0.867     | 0.933     | 1.000     |
| $w^*_{out}$                      | 0.0     | 0.082    | 0.155    | 0.226    | 0.295    | 0.362    | 0.428     | 0.494     | 0.559     | 0.623     | 0.688     | 0.75      | 0.814     | 0.876     | 0.938     | 1.0       |

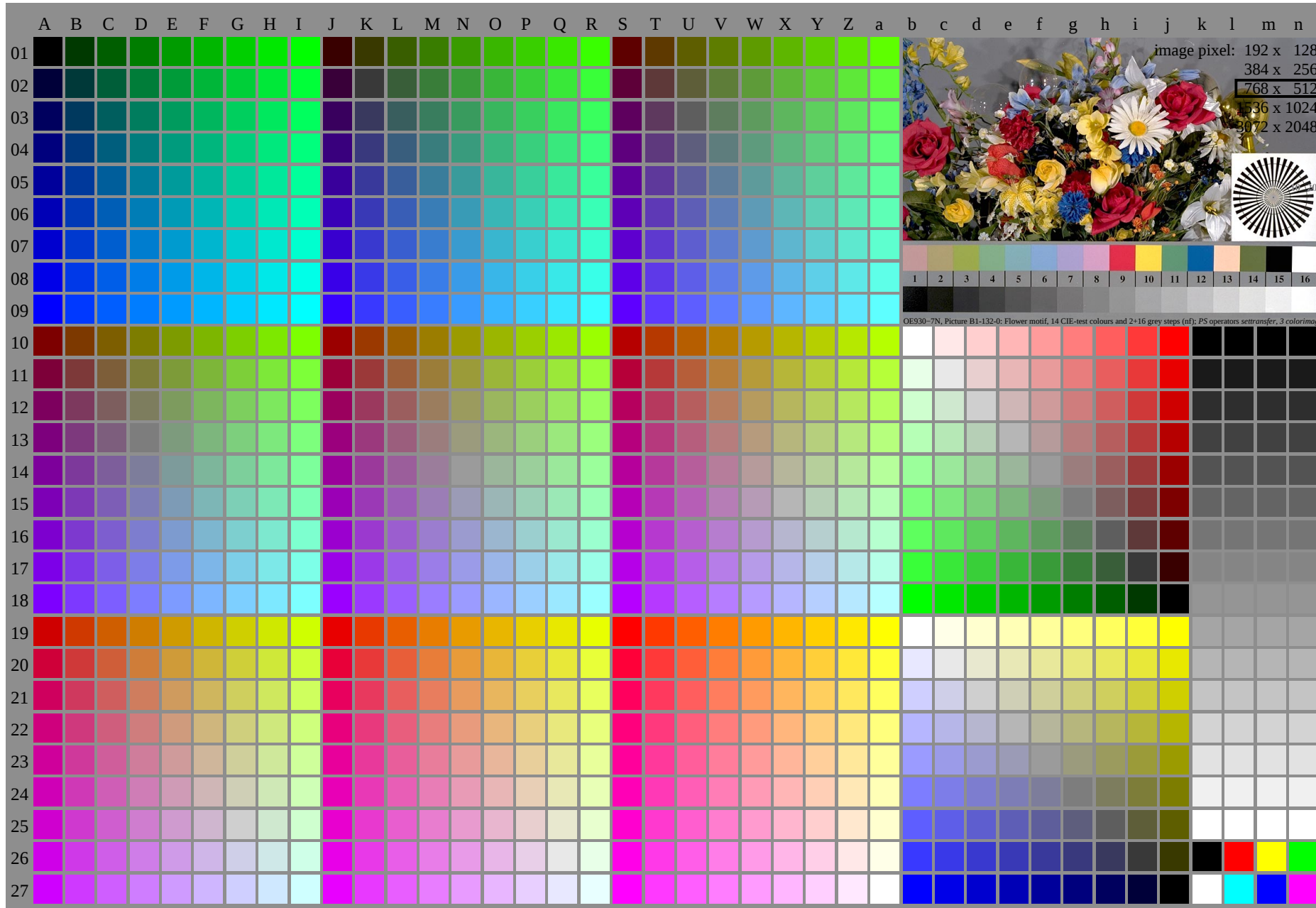
OE930-7N, Picture A7-131-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^*w^*w^*$  setrgbcolor

OE93: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:0,62$ ;  $Y_N$  range 0,46 to <0,93

input: 000n/w/cmy0/rgb (->rgb\*d) output 131-2:  $g_P=0.92$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE930-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^* \cdot (A_n)$ , colormap = 1, xchart = 2, pchart = 0

OE93: Test chart 2G with 40x27=1080 colours; 1MR, DH  
Digital equidistant 9 or 16 step colour scales

input:  $000n/w/cmy0/rgb \rightarrow rgb^*_d$   
output 132-0:  $g_P=0.85; g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rha4ta

See similar ISO test charts: <http://www.ps.pan.de/24705TE>, <http://www.ps.pan.de/33872E>  
Technical information: <http://www.ps.pan.de/33872E> Version 2.1, io=1,1,CELAB

|    | A        | B        | C        | D        | E        | F        | G        | H        | I        | J        | K        | L        | M        | N        | O        | P        | Q        | R        | S        | T        | U        | V        | W        | X        | Y        | Z        | a        | b        | c        | d        | e        | f        | g        | h        | i        | j        | k        | l        | m        | n        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     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| 01 | 0000 A01 | 0009 B01 | 0018 C01 | 0027 D01 | 0036 E01 | 0045 F01 | 0054 G01 | 0063 H01 | 0072 I01 | 0081 J01 | 0090 K01 | 0099 L01 | 0108 M01 | 0117 N01 | 0126 O01 | 0135 P01 | 0144 Q01 | 0153 R01 | 0162 S01 | 0171 T01 | 0180 U01 | 0189 V01 | 0198 W01 | 0207 X01 | 0216 Y01 | 0225 Z01 | 0234 a01 | 0243 b01 | 0252 c01 | 0261 d01 | 0270 e01 | 0279 f01 | 0288 g01 | 0297 h01 | 0306 i01 | 0315 j01 | 0324 k01 | 0333 l01 | 0342 m01 | 0351 n01 | 0360 o01 | 0369 p01 | 0378 q01 | 0387 r01 | 0396 s01 | 0405 t01 | 0414 u01 | 0423 v01 | 0432 w01 | 0441 x01 | 0450 y01 | 0459 z01 | 0468 A10 | 0477 B10 | 0486 C10 | 0495 D10 | 0504 E10 | 0513 F10 | 0522 G10 | 0531 H10 | 0540 I10 | 0549 J10 | 0558 K10 | 0567 L10 | 0576 M10 | 0585 N10 | 0594 O10 | 0603 P10 | 0612 Q10 | 0621 R10 | 0630 S10 | 0639 T10 | 0648 U10 | 0657 V10 | 0666 W10 | 0675 X10 | 0684 Y10 | 0693 Z10 | 0702 A11 | 0711 B11 | 0720 C11 | 0729 D11 | 0738 E11 | 0747 F11 | 0756 G11 | 0765 H11 | 0774 I11 | 0783 J11 | 0792 K11 | 0801 L11 | 0810 M11 | 0819 N11 | 0828 O11 | 0837 P11 | 0846 Q11 | 0855 R11 | 0864 S11 | 0873 T11 | 0882 U11 | 0891 V11 | 0900 W11 | 0909 X11 | 0918 Y11 | 0927 Z11 | 0936 A12 | 0945 B12 | 0954 C12 | 0963 D12 | 0972 E12 | 0981 F12 | 0990 G12 | 0999 H12 | 1008 I12 | 1017 J12 | 1026 K12 | 1035 L12 | 1044 M12 | 1053 N12 | 1062 O12 | 1071 P12 | 1080 Q12 | 1089 R12 | 1098 S12 | 1107 T12 | 1116 U12 | 1125 V12 | 1134 W12 | 1143 X12 | 1152 Y12 | 1161 Z12 | 1170 A13 | 1179 B13 | 1188 C13 | 1197 D13 | 1206 E13 | 1215 F13 | 1224 G13 | 1233 H13 | 1242 I13 | 1251 J13 | 1260 K13 | 1269 L13 | 1278 M13 | 1287 N13 | 1296 O13 | 1305 P13 | 1314 Q13 | 1323 R13 | 1332 S13 | 1341 T13 | 1350 U13 | 1359 V13 | 1368 W13 | 1377 X13 | 1386 Y13 | 1395 Z13 | 1404 A14 | 1413 B14 | 1422 C14 | 1431 D14 | 1440 E14 | 1449 F14 | 1458 G14 | 1467 H14 | 1476 I14 | 1485 J14 | 1494 K14 | 1503 L14 | 1512 M14 | 1521 N14 | 1530 O14 | 1539 P14 | 1548 Q14 | 1557 R14 | 1566 S14 | 1575 T14 | 1584 U14 | 1593 V14 | 1602 W14 | 1611 X14 | 1620 Y14 | 1629 Z14 | 1638 A15 | 1647 B15 | 1656 C15 | 1665 D15 | 1674 E15 | 1683 F15 | 1692 G15 | 1701 H15 | 1710 I15 | 1719 J15 | 1728 K15 | 1737 L15 | 1746 M15 | 1755 N15 | 1764 O15 | 1773 P15 | 1782 Q15 | 1791 R15 | 1800 S15 | 1809 T15 | 1818 U15 | 1827 V15 | 1836 W15 | 1845 X15 | 1854 Y15 | 1863 Z15 | 1872 A16 | 1881 B16 | 1890 C16 | 1899 D16 | 1908 E16 | 1917 F16 | 1926 G16 | 1935 H16 | 1944 I16 | 1953 J16 | 1962 K16 | 1971 L16 | 1980 M16 | 1989 N16 | 1998 O16 | 2007 P16 | 2016 Q16 | 2025 R16 | 2034 S16 | 2043 T16 | 2052 U16 | 2061 V16 | 2070 W16 | 2079 X16 | 2088 Y16 | 2097 Z16 | 2106 A17 | 2115 B17 | 2124 C17 | 2133 D17 | 2142 E17 | 2151 F17 | 2160 G17 | 2169 H17 | 2178 I17 | 2187 J17 | 2196 K17 | 2205 L17 | 2214 M17 | 2223 N17 | 2232 O17 | 2241 P17 | 2250 Q17 | 2259 R17 | 2268 S17 | 2277 T17 | 2286 U17 | 2295 V17 | 2304 W17 | 2313 X17 | 2322 Y17 | 2331 Z17 | 2340 A18 | 2349 B18 | 2358 C18 | 2367 D18 | 2376 E18 | 2385 F18 | 2394 G18 | 2403 H18 | 2412 I18 | 2421 J18 | 2430 K18 | 2439 L18 | 2448 M18 | 2457 N18 | 2466 O18 | 2475 P18 | 2484 Q18 | 2493 R18 | 2502 S18 | 2511 T18 | 2520 U18 | 2529 V18 | 2538 W18 | 2547 X18 | 2556 Y18 | 2565 Z18 | 2574 A19 | 2583 B19 | 2592 C19 | 2601 D19 | 2610 E19 | 2619 F19 | 2628 G19 | 2637 H19 | 2646 I19 | 2655 J19 | 2664 K19 | 2673 L19 | 2682 M19 | 2691 N19 | 2700 O19 | 2709 P19 | 2718 Q19 | 2727 R19 | 2736 S19 | 2745 T19 | 2754 U19 | 2763 V19 | 2772 W19 | 2781 X19 | 2790 Y19 | 2800 Z19 | 2809 A20 | 2818 B20 | 2827 C20 | 2836 D20 | 2845 E20 | 2854 F20 | 2863 G20 | 2872 H20 | 2881 I20 | 2890 J20 | 2899 K20 | 2908 L20 | 2917 M20 | 2926 N20 | 2935 O20 | 2944 P20 | 2953 Q20 | 2962 R20 | 2971 S20 | 2980 T20 | 2989 U20 | 2998 V20 | 3007 W20 | 3016 X20 | 3025 Y20 | 3034 Z20 | 3043 A21 | 3052 B21 | 3061 C21 | 3070 D21 | 3079 E21 | 3088 F21 | 3097 G21 | 3106 H21 | 3115 I21 | 3124 J21 | 3133 K21 | 3142 L21 | 3151 M21 | 3160 N21 | 3169 O21 | 3178 P21 | 3187 Q21 | 3196 R21 | 3205 S21 | 3214 T21 | 3223 U21 | 3232 V21 | 3241 W21 | 3250 X21 | 3259 Y21 | 3268 Z21 | 3277 A22 | 3286 B22 | 3295 C22 | 3304 D22 | 3313 E22 | 3322 F22 | 3331 G22 | 3340 H22 | 3349 I22 | 3358 J22 | 3367 K22 | 3376 L22 | 3385 M22 | 3394 N22 | 3403 O22 | 3412 P22 | 3421 Q22 | 3430 R22 | 3439 S22 | 3448 T22 | 3457 U22 | 3466 V22 | 3475 W22 | 3484 X22 | 3493 Y22 | 3502 Z22 | 3511 A23 | 3520 B23 | 3529 C23 | 3538 D23 | 3547 E23 | 3556 F23 | 3565 G23 | 3574 H23 | 3583 I23 | 3592 J23 | 3601 K23 | 3610 L23 | 3619 M23 | 3628 N23 | 3637 O23 | 3646 P23 | 3655 Q23 | 3664 R23 | 3673 S23 | 3682 T23 | 3691 U23 | 3700 V23 | 3709 W23 | 3718 X23 | 3727 Y23 | 3736 Z23 | 3745 A24 | 3754 B24 | 3763 C24 | 3772 D24 | 3781 E24 | 3790 F24 | 3800 G24 | 3809 H24 | 3818 I24 | 3827 J24 | 3836 K24 | 3845 L24 | 3854 M24 | 3863 N24 | 3872 O24 | 3881 P24 | 3890 Q24 | 3899 R24 | 3908 S24 | 3917 T24 | 3926 U24 | 3935 V24 | 3944 W24 | 3953 X24 | 3962 Y24 | 3971 Z24 | 3980 A25 | 3989 B25 | 3998 C25 | 4007 D25 | 4016 E25 | 4025 F25 | 4034 G25 | 4043 H25 | 4052 I25 | 4061 J25 | 4070 K25 | 4079 L25 | 4088 M25 | 4097 N25 | 4106 O25 | 4115 P25 | 4124 Q25 | 4133 R25 | 4142 S25 | 4151 T25 | 4160 U25 | 4169 V25 | 4178 W25 | 4187 X25 | 4196 Y25 | 4205 Z25 | 4214 A26 | 4223 B26 | 4232 C26 | 4241 D26 | 4250 E26 | 4259 F26 | 4268 G26 | 4277 H26 | 4286 I26 | 4295 J26 | 4304 K26 | 4313 L26 | 4322 M26 | 4331 N26 | 4340 O26 | 4349 P26 | 4358 Q26 | 4367 R26 | 4376 S26 | 4385 T26 | 4394 U26 | 4403 V26 | 4412 W26 | 4421 X26 | 4430 Y26 | 4439 Z26 | 4448 A27 | 4457 B27 | 4466 C27 | 4475 D27 | 4484 E27 | 4493 F27 | 4502 G27 | 4511 H27 | 4520 I27 | 4529 J27 | 4538 K27 | 4547 L27 | 4556 M27 | 4565 N27 | 4574 O27 | 4583 P27 | 4592 Q27 | 4601 R27 | 4610 S27 | 4619 T27 | 4628 U27 | 4637 V27 | 4646 W27 | 4655 X27 | 4664 Y27 | 4673 Z27 | 4682 A28 | 4691 B28 | 4700 C28 | 4709 D28 | 4718 E28 | 4727 F28 | 4736 G28 | 4745 H28 | 4754 I28 | 4763 J28 | 4772 K28 | 4781 L28 | 4790 M28 | 4800 N28 | 4809 O28 | 4818 P28 | 4827 Q28 | 4836 R28 | 4845 S28 | 4854 T28 | 4863 U28 | 4872 V28 | 4881 W28 | 4890 X28 | 4899 Y28 | 4908 Z28 | 4917 A29 | 4926 B29 | 4935 C29 | 4944 D29 | 4953 E29 | 4962 F29 | 4971 G29 | 4980 H29 | 4989 I29 | 4998 J29 | 5007 K29 | 5016 L29 | 5025 M29 | 5034 N29 | 5043 O29 | 5052 P29 | 5061 Q29 | 5070 R29 | 5079 S29 | 5088 T29 | 5097 U29 | 5106 V29 | 5115 W29 | 5124 X29 | 5133 Y29 | 5142 Z29 | 5151 A30 | 5160 B30 | 5169 C30 | 5178 D30 | 5187 E30 | 5196 F30 | 5205 G30 | 5214 H30 | 5223 I30 | 5232 J30 | 5241 K30 | 5250 L30 | 5259 M30 | 5268 N30 | 5277 O30 | 5286 P30 | 5295 Q30 | 5304 R30 | 5313 S30 | 5322 T30 | 5331 U30 | 5340 V30 | 5349 W30 | 5358 X30 | 5367 Y30 | 5376 Z30 | 5385 A31 | 5394 B31 | 5403 C31 | 5412 D31 | 5421 E31 | 5430 F31 | 5439 G31 | 5448 H31 | 5457 I31 | 5466 J31 | 5475 K31 | 5484 L31 | 5493 M31 | 5502 N31 | 5511 O31 | 5520 P31 | 5529 Q31 | 5538 R31 | 5547 S31 | 5556 T31 | 5565 U31 | 5574 V31 | 5583 W31 | 5592 X31 | 5601 Y31 | 5610 Z31 | 5619 A32 | 5628 B32 | 5637 C32 | 5646 D32 | 5655 E32 | 5664 F32 | 5673 G32 | 5682 H32 | 5691 I32 | 5700 J32 | 5709 K32 | 5718 L32 | 5727 M32 | 5736 N32 | 5745 O32 | 5754 P32 | 5763 Q32 | 5772 R32 | 5781 S32 | 5790 T32 | 5800 U32 | 5809 V32 | 5818 W32 | 5827 X32 | 5836 Y32 | 5845 Z32 | 5854 A33 | 5863 B33 | 5872 C33 | 5881 D33 | 5890 E33 | 5899 F33 | 5908 G33 | 5917 H33 | 5926 I33 | 5935 J33 | 5944 K33 | 5953 L33 | 5962 M33 | 5971 N33 | 5980 O33 | 5989 P33 | 5998 Q33 | 6007 R33 | 6016 S33 | 6025 T33 | 6034 U33 | 6043 V33 | 6052 W33 | 6061 X33 | 6070 Y33 | 6079 Z33 | 6088 A34 | 6097 B34 | 6106 C34 | 6115 D34 | 6124 E34 | 6133 F34 | 6142 G34 | 6151 H34 | 6160 I34 | 6169 J34 | 6178 K34 | 6187 L34 | 6196 M34 | 6205 N34 | 6214 O34 | 6223 P34 | 6232 Q34 | 6241 R34 | 6250 S34 | 6259 T34 | 6268 U34 | 6277 V34 | 6286 W34 | 6295 X34 | 6304 Y34 | 6313 Z34 | 6322 A35 | 6331 B35 | 6340 C35 | 6349 D35 | 6358 E35 | 6367 F35 | 6376 G35 | 6385 H35 | 6394 I35 | 6403 J35 | 6412 K35 | 6421 L35 | 6430 M35 | 6439 N35 | 6448 O35 | 6457 P35 | 6466 Q35 | 6475 R35 | 6484 S35 | 6493 T35 | 6502 U35 | 6511 V35 | 6520 W35 | 6529 X35 | 6538 Y35 | 6547 Z35 | 6556 A36 | 6565 B36 | 6574 C36 | 6583 D36 | 6592 E36 | 6601 F36 | 6610 G36 | 6619 H36 | 6628 I36 | 6637 J36 | 6646 K36 | 6655 L36 | 6664 M36 | 6673 N36 | 6682 O36 | 6691 P36 | 6700 Q36 | 6709 R36 | 6718 S36 | 6727 T36 | 6736 U36 | 6745 V36 | 6754 W36 | 6763 X36 | 6772 Y36 | 6781 Z36 | 6790 A37 | 6800 B37 | 6809 C37 | 6818 D37 | 6827 E37 | 6836 F37 | 6845 G37 | 6854 H37 | 6863 I37 | 6872 J37 | 6881 K37 | 6890 L37 | 6899 M37 | 6908 N37 | 6917 O37 | 6926 P37 | 6935 Q37 | 6944 R37 | 6953 S37 | 6962 T37 | 6971 U37 | 6980 V37 | 6989 W37 | 6998 X37 | 7007 Y37 | 7016 Z37 | 7025 A38 | 7034 B38 | 7043 C38 | 7052 D38 | 7061 E38 | 7070 F38 | 7079 G38 | 7088 H38 | 7097 I38 | 7106 J38 | 7115 K38 | 7124 L38 | 7133 M38 | 7142 N38 | 7151 O38 | 7160 P38 | 7169 Q38 | 7178 R38 | 7187 S38 | 7196 T38 | 7205 U38 | 7214 V38 | 7223 W38 | 7232 X38 | 7241 Y38 | 7250 Z38 | 7259 A39 | 7268 B39 | 7277 C39 | 7286 D39 | 7295 E39 | 7304 F39 | 7313 G39 | 7322 H39 | 7331 I39 | 7340 J39 | 7349 K39 | 7358 L39 | 7367 M39 | 7376 N39 | 7385 O39 | 7394 P39 | 7403 Q39 | 7412 R39 | 7421 S39 | 7430 T39 | 7439 U39 | 7448 V39 | 7457 W39 | 7466 X39 | 7475 Y39 | 7484 Z39 | 7493 A40 | 7502 B40 | 7511 C40 | 7520 D40 | 7529 E40 | 7538 F40 | 7547 G40 | 7556 H40 | 7565 I40 | 7574 J40 | 7583 K40 | 7592 L40 | 7601 M40 | 7610 N40 | 7619 O40 | 7628 P40 | 7637 Q40 | 7646 R40 | 7655 S40 | 7664 T40 | 7673 U40 | 7682 V40 | 7691 W40 | 7700 X40 | 7709 Y40 | 7718 Z40 | 7727 A41 | 7736 B41 | 7745 C41 | 7754 D41 | 7763 E41 | 7772 F41 | 7781 G41 | 7790 H41 | 7800 I41 | 7809 J41 | 7818 K41 | 7827 L41 | 7836 M41 | 7845 N41 | 7854 O41 | 7863 P41 | 7872 Q41 | 7881 R41 | 7890 S41 | 7900 T41 | 7909 U41 | 7918 V41 | 7927 W41 | 7936 X41 | 7945 Y41 | 7954 Z41 | 7963 A42 | 7972 B42 | 7981 C42 | 7990 D42 | 8000 E42 | 8009 F42 | 8018 G42 | 8027 H42 | 8036 I42 | 8045 J42 | 8054 K42 | 8063 L42 | 8072 M42 | 8081 N42 | 8090 O42 | 8099 P42 | 8108 Q42 | 8117 R42 | 8126 S42 | 8135 T42 | 8144 U42 | 8153 V42 | 8162 W42 | 8171 X42 | 8180 Y42 | 8189 Z42 | 8198 A43 | 8207 B43 | 8216 C43 | 8225 D43 | 8234 E43 | 8243 F43 | 8252 G43 | 8261 H43 | 8270 I43 | 8279 J43 | 8288 K43 | 8297 L43 | 8306 M43 | 8315 N43 | 8324 O43 | 8333 P43 | 8342 Q43 | 8351 R43 | 8360 S43 | 8369 T43 | 8378 U43 | 8387 V43 | 8396 W43 | 8405 X43 | 8414 Y43 | 8423 Z43 | 8432 A44 | 8441 B44 | 8450 C44 | 8459 D44 | 8468 E44 | 8477 F44 | 8486 G44 | 8495 H44 | 8504 I44 | 8513 J44 | 8522 K44 | 8531 L44 | 8540 M44 | 8549 N44 | 8558 O44 | 8567 P44 | 8576 Q44 | 8585 R44 | 8594 S44 | 8603 T44 | 8612 U44 | 8621 V44 | 8630 W44 | 8639 X44 | 8648 Y44 | 8657 Z44 | 8666 A45 | 8675 B45 | 8684 C45 | 8693 D45 | 8702 E45 | 8711 F45 | 8720 G45 | 8729 H45 | 8738 I45 | 8747 J45 | 8756 K45 | 8765 L45 | 8774 M45 | 8783 N45 | 8792 O45 | 8801 P45 | 8810 Q45 | 8819 R45 | 8828 S45 | 8837 T45 | 8846 U45 | 8855 V45 | 8864 W45 | 8873 X45 | 8882 Y45 | 8891 Z45 | 8900 A46 | 890 |

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

| i  | LAB*ref       | L*out          | LAB*out     | LAB*out/c-ref | ΔE*  |
|----|---------------|----------------|-------------|---------------|------|
| 1  | 10.99 0.0 0.0 | 0.0 10.99 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |
| 2  | 16.62 0.0 0.0 | 0.14 22.52 0.0 | 0.0 0.0 0.0 | 5.9 0.0 0.0   | 5.9  |
| 3  | 22.25 0.0 0.0 | 0.23 30.18 0.0 | 0.0 0.0 0.0 | 7.93 0.0 0.0  | 7.93 |
| 4  | 27.88 0.0 0.0 | 0.31 36.84 0.0 | 0.0 0.0 0.0 | 8.97 0.0 0.0  | 8.97 |
| 5  | 33.5 0.0 0.0  | 0.38 42.93 0.0 | 0.0 0.0 0.0 | 9.43 0.0 0.0  | 9.43 |
| 6  | 39.13 0.0 0.0 | 0.45 48.63 0.0 | 0.0 0.0 0.0 | 9.5 0.0 0.0   | 9.5  |
| 7  | 44.76 0.0 0.0 | 0.51 54.03 0.0 | 0.0 0.0 0.0 | 9.27 0.0 0.0  | 9.27 |
| 8  | 50.39 0.0 0.0 | 0.57 59.19 0.0 | 0.0 0.0 0.0 | 8.81 0.0 0.0  | 8.81 |
| 9  | 56.02 0.0 0.0 | 0.63 64.17 0.0 | 0.0 0.0 0.0 | 8.15 0.0 0.0  | 8.15 |
| 10 | 61.64 0.0 0.0 | 0.69 68.98 0.0 | 0.0 0.0 0.0 | 7.33 0.0 0.0  | 7.33 |
| 11 | 67.27 0.0 0.0 | 0.74 73.65 0.0 | 0.0 0.0 0.0 | 6.38 0.0 0.0  | 6.38 |
| 12 | 72.9 0.0 0.0  | 0.8 78.2 0.0   | 0.0 0.0 0.0 | 5.3 0.0 0.0   | 5.3  |
| 13 | 78.53 0.0 0.0 | 0.85 82.64 0.0 | 0.0 0.0 0.0 | 4.11 0.0 0.0  | 4.11 |
| 14 | 84.15 0.0 0.0 | 0.9 86.98 0.0  | 0.0 0.0 0.0 | 2.82 0.0 0.0  | 2.82 |
| 15 | 89.78 0.0 0.0 | 0.95 91.23 0.0 | 0.0 0.0 0.0 | 1.45 0.0 0.0  | 1.45 |
| 16 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |
| 17 | 10.99 0.0 0.0 | 0.0 10.99 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |
| 18 | 32.1 0.0 0.0  | 0.36 41.45 0.0 | 0.0 0.0 0.0 | 9.36 0.0 0.0  | 9.36 |
| 19 | 53.2 0.0 0.0  | 0.6 61.7 0.0   | 0.0 0.0 0.0 | 8.5 0.0 0.0   | 8.5  |
| 20 | 74.31 0.0 0.0 | 0.81 79.32 0.0 | 0.0 0.0 0.0 | 5.01 0.0 0.0  | 5.01 |
| 21 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |

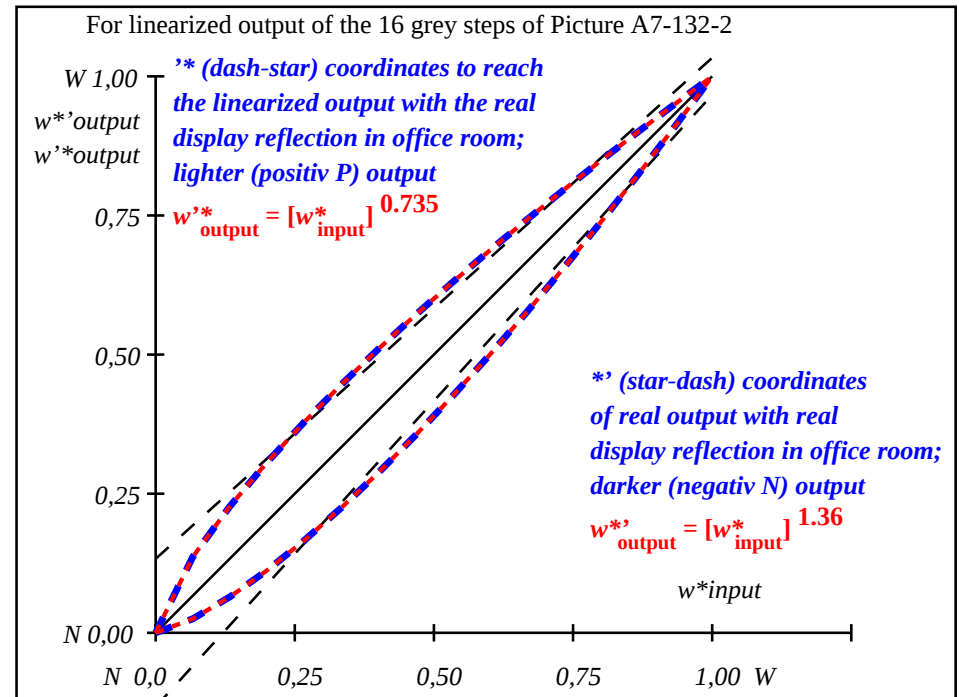
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775 Annex G**  
**and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 6.0$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 4.6$

Mean colour reproduction index:  $R^*_{ab,m} = 74$

OE930-3A-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE931-3N-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{intended}$<br>(absolute)                             | 11.0/1.3 | 16.6/2.2 | 22.2/3.6 | 27.9/5.4 | 33.5/7.8 | 39.1/10.7 | 44.8/14.4 | 50.4/18.7 | 56.0/23.9 | 61.6/30.0 | 67.3/37.0 | 72.9/45.0 | 78.5/54.1 | 84.2/64.4 | 89.8/75.8 | 95.4/88.6 |
|--------------------------------------------------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=0.85$<br>No. and<br>Hex code | 00;F     | 01;E     | 02;D     | 03;C     | 04;B     | 05;A      | 06;9      | 07;8      | 08;7      | 09;6      | 10;5      | 11;4      | 12;3      | 13;2      | 14;1      | 15;0      |
| $w^*=l^*_{CIELAB, r}$<br>(relative)                          |          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |           |
| $w^*_{intended}$                                             | 0.000    | 0.067    | 0.133    | 0.200    | 0.267    | 0.333     | 0.400     | 0.467     | 0.533     | 0.600     | 0.667     | 0.733     | 0.800     | 0.867     | 0.933     | 1.000     |
| $w^*_{out}$                                                  | 0.0      | 0.1      | 0.18     | 0.255    | 0.325    | 0.393     | 0.459     | 0.524     | 0.586     | 0.648     | 0.709     | 0.768     | 0.827     | 0.886     | 0.943     | 1.0       |

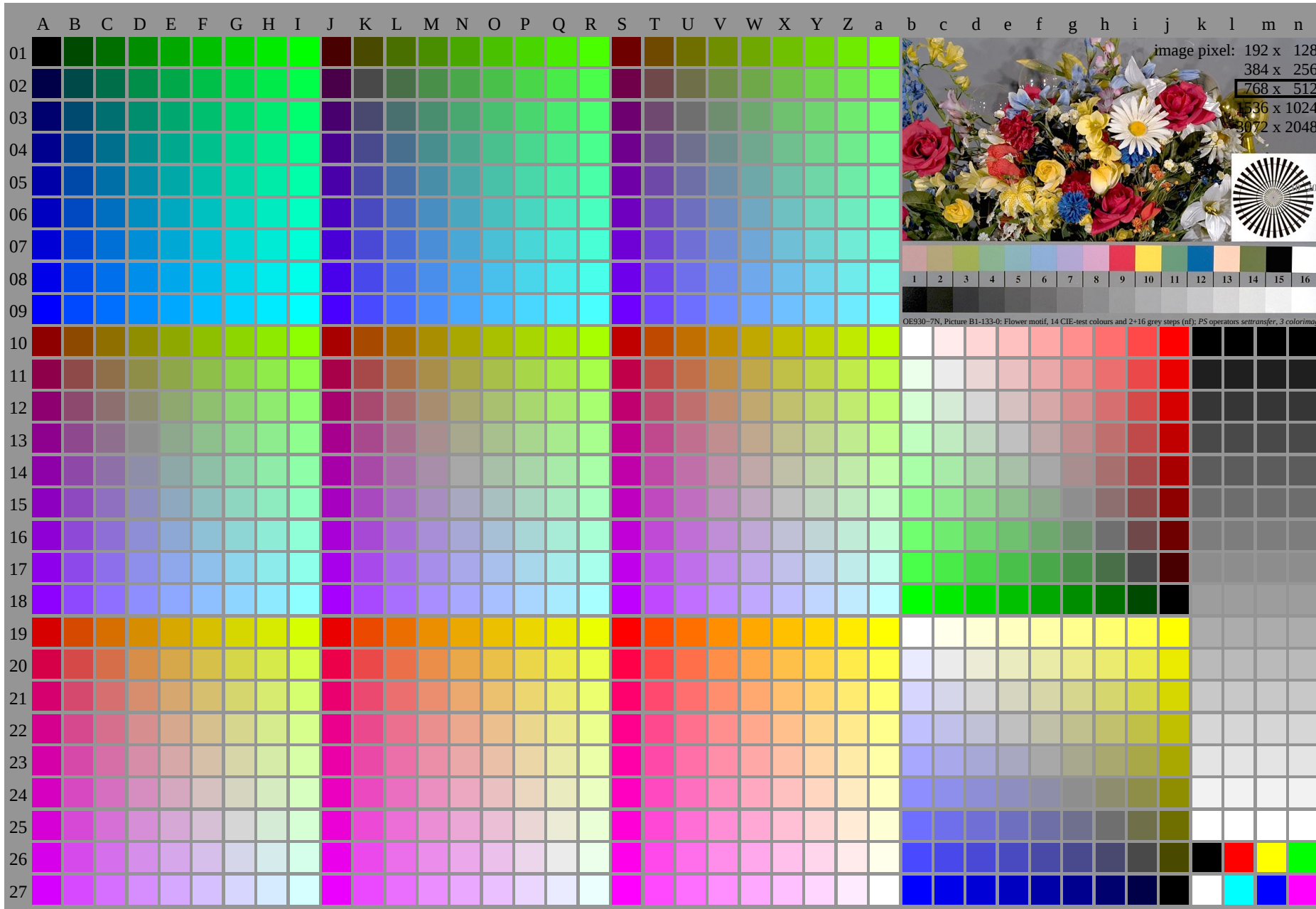
OE930-7N, Picture A7-132-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^* setrgbcolor$

OE93: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:1,25$ ;  $Y_N$  range 0,93 to <1,87

input: 000n/w/cmy0/rgb (->rgb\*d) output 132-2:  $g_P=0.85$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE930-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{\lambda}$  (A-n), colorm = 1, xchart = 3, pchart = 0

OE93: Test chart 2G with 40x27=1080 colours; 1MR, DH  
Digital equidistant 9 or 16 step colour scales

input:  $000n/w/cmy0/rgb$  ( $\rightarrow rgb^*_{\lambda}$ )  
output 133-0:  $g_P=0.77$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rha4ta

|          | A        | B        | C        | D        | E        | F        | G        | H        | I        | J        | K        | L        | M        | N        | O        | P        | Q        | R        | S        | T        | U        | V        | W        | X        | Y        | Z        | a        | b        | c        | d        | e        | f        | g        | h        | i        | j        | k        | l        | m        | n        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          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| 5733 N32 | 5742 O32 | 5751 P32 | 5760 Q32 | 5769 R32 | 5778 S32 | 5787 T32 | 5796 U32 | 5805 V32 | 5814 W32 | 5823 X32 | 5832 Y32 | 5841 Z32 | 5850 A33 | 5859 B33 | 5868 C33 | 5877 D33 | 5886 E33 | 5895 F33 | 5904 G33 | 5913 H33 | 5922 I33 | 5931 J33 | 5940 K33 | 5949 L33 | 5958 M33 | 5967 N33 | 5976 O33 | 5985 P33 | 5994 Q33 | 6003 R33 | 6012 S33 | 6021 T33 | 6030 U33 | 6039 V33 | 6048 W33 | 6057 X33 | 6066 Y33 | 6075 Z33 | 6084 A34 | 6093 B34 | 6102 C34 | 6111 D34 | 6120 E34 | 6129 F34 | 6138 G34 | 6147 H34 | 6156 I34 | 6165 J34 | 6174 K34 | 6183 L34 | 6192 M34 | 6201 N34 | 6210 O34 | 6219 P34 | 6228 Q34 | 6237 R34 | 6246 S34 | 6255 T34 | 6264 U34 | 6273 V34 | 6282 W34 | 6291 X34 | 6300 Y34 | 6309 Z34 | 6318 A35 | 6327 B35 | 6336 C35 | 6345 D35 | 6354 E35 | 6363 F35 | 6372 G35 | 6381 H35 | 6390 I35 | 6399 J35 | 6408 K35 | 6417 L35 | 6426 M35 | 6435 N35 | 6444 O35 | 6453 P35 | 6462 Q35 | 6471 R35 | 6480 S35 | 6489 T35 | 6498 U35 | 6507 V35 | 6516 W35 | 6525 X35 | 6534 Y35 | 6543 Z35 | 6552 A36 | 6561 B36 | 6570 C36 | 6579 D36 | 6588 E36 | 6597 F36 | 6606 G36 | 6615 H36 | 6624 I36 | 6633 J36 | 6642 K36 | 6651 L36 | 6660 M36 | 6669 N36 | 6678 O36 | 6687 P36 | 6696 Q36 | 6705 R36 | 6714 S36 | 6723 T36 | 6732 U36 | 6741 V36 | 6750 W36 | 6759 X36 | 6768 Y36 | 6777 Z36 | 6786 A37 | 6795 B37 | 6804 C37 | 6813 D37 | 6822 E37 | 6831 F37 | 6840 G37 | 6849 H37 | 6858 I37 | 6867 J37 | 6876 K37 | 6885 L37 | 6894 M37 | 6903 N37 | 6912 O37 | 6921 P37 | 6930 Q37 | 6939 R37 | 6948 S37 | 6957 T37 | 6966 U37 | 6975 V37 | 6984 W37 | 6993 X37 | 7002 Y37 | 7011 Z37 | 7020 A38 | 7029 B38 | 7038 C38 | 7047 D38 | 7056 E38 | 7065 F38 | 7074 G38 | 7083 H38 | 7092 I38 | 7101 J38 | 7110 K38 | 7119 L38 | 7128 M38 | 7137 N38 | 7146 O38 | 7155 P38 | 7164 Q38 | 7173 R38 | 7182 S38 | 7191 T38 | 7200 U38 | 7209 V38 | 7218 W38 | 7227 X38 | 7236 Y38 | 7245 Z38 | 7254 A39 | 7263 B39 | 7272 C39 | 7281 D39 | 7290 E39 | 7299 F39 | 7308 G39 | 7317 H39 | 7326 I39 | 7335 J39 | 7344 K39 | 7353 L39 | 7362 M39 | 7371 N39 | 7380 O39 | 7389 P39 | 7398 Q39 | 7407 R39 | 7416 S39 | 7425 T39 | 7434 U39 | 7443 V39 | 7452 W39 | 7461 X39 | 7470 Y39 | 7479 Z39 | 7488 A40 | 7497 B40 | 7506 C40 | 7515 D40 | 7524 E40 | 7533 F40 | 7542 G40 | 7551 H40 | 7560 I40 | 7569 J40 | 7578 K40 | 7587 L40 | 7596 M40 | 7605 N40 | 7614 O40 | 7623 P40 | 7632 Q40 | 7641 R40 | 7650 S40 | 7659 T40 | 7668 U40 | 7677 V40 | 7686 W40 | 7695 X40 | 7704 Y40 | 7713 Z40 | 7722 A41 | 7731 B41 | 7740 C41 | 7749 D41 | 7758 E41 | 7767 F41 | 7776 G41 | 7785 H41 | 7794 I41 | 7803 J41 | 7812 K41 | 7821 L41 | 7830 M41 | 7839 N41 | 7848 O41 | 7857 P41 | 7866 Q41 | 7875 R41 | 7884 S41 | 7893 T41 | 7902 U41 | 7911 V41 | 7920 W41 | 7929 X41 | 7938 Y41 | 7947 Z41 | 7956 A42 | 7965 B42 | 7974 C42 | 7983 D42 | 7992 E42 | 8001 F42 | 8010 G42 | 8019 H42 | 8028 I42 | 8037 J42 | 8046 K42 | 8055 L42 | 8064 M42 | 8073 N42 | 8082 O42 | 8091 P42 | 8100 Q42 | 8109 R42 | 8118 S42 | 8127 T42 | 8136 U42 | 8145 V42 | 8154 W42 | 8163 X42 | 8172 Y42 | 8181 Z42 | 8190 A43 | 8199 B43 | 8208 C43 | 8217 D43 | 8226 E43 | 8235 F43 | 8244 G43 | 8253 H43 | 8262 I43 | 8271 J43 | 8280 K43 | 8289 L43 | 8298 M43 | 8307 N43 | 8316 O43 | 8325 P43 | 8334 Q43 | 8343 R43 | 8352 S43 | 8361 T43 | 8370 U43 | 8379 V43 | 8388 W43 | 8397 X43 | 8406 Y43 | 8415 Z43 | 8424 A44 | 8433 B44 | 8442 C44 | 8451 D44 | 8460 E44 | 8469 F44 | 8478 G44 | 8487 H44 | 8496 I44 | 8505 J44 | 8514 K44 | 8523 L44 | 8532 M44 | 8541 N44 | 8550 O44 | 8559 P44 | 8568 Q44 | 8577 R44 | 8586 S44 | 8595 T44 | 8604 U44 | 8613 V44 | 8622 W44 | 8631 X44 | 8640 Y44 | 8649 Z44 | 8658 A45 | 8667 B45 | 8676 C45 | 8685 D45 | 8694 E45 | 8703 F45 | 8712 G45 | 8721 H45 | 8730 I45 | 8739 J45 | 8748 K45 | 8757 L45 | 8766 M45 | 8775 N45 | 8784 O45 | 8793 P45 | 8802 Q45 | 8811 R45 | 8820 S45 | 8829 T45 | 8838 U45 | 8847 V45 | 8856 W45 | 8865 X45 | 8874 Y45 | 8883 Z45 | 8892 A46 | 8901 B46 | 8910 C46 | 8919 D46 | 8928 E46 | 8937 F46 | 8946 G46 | 8955 H46 | 8964 I46 | 8973 J46 | 8982 K46 | 8991 L46 | 9000 M46 | 9009 N46 | 9018 O46 |

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

| i  | LAB*ref       | L*out          | LAB*out     | LAB*out/c-ref | ΔE*   |
|----|---------------|----------------|-------------|---------------|-------|
| 1  | 18.01 0.0 0.0 | 0.0 18.01 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 2  | 23.17 0.0 0.0 | 0.17 31.35 0.0 | 0.0 0.0 0.0 | 8.18 0.0 0.0  | 8.18  |
| 3  | 28.33 0.0 0.0 | 0.27 38.93 0.0 | 0.0 0.0 0.0 | 10.6 0.0 0.0  | 10.6  |
| 4  | 33.49 0.0 0.0 | 0.35 45.23 0.0 | 0.0 0.0 0.0 | 11.74 0.0 0.0 | 11.74 |
| 5  | 38.65 0.0 0.0 | 0.42 50.82 0.0 | 0.0 0.0 0.0 | 12.17 0.0 0.0 | 12.17 |
| 6  | 43.81 0.0 0.0 | 0.49 55.93 0.0 | 0.0 0.0 0.0 | 12.12 0.0 0.0 | 12.12 |
| 7  | 48.97 0.0 0.0 | 0.55 60.7 0.0  | 0.0 0.0 0.0 | 11.73 0.0 0.0 | 11.73 |
| 8  | 54.13 0.0 0.0 | 0.61 65.2 0.0  | 0.0 0.0 0.0 | 11.07 0.0 0.0 | 11.07 |
| 9  | 59.29 0.0 0.0 | 0.66 69.47 0.0 | 0.0 0.0 0.0 | 10.18 0.0 0.0 | 10.18 |
| 10 | 64.45 0.0 0.0 | 0.72 73.56 0.0 | 0.0 0.0 0.0 | 9.11 0.0 0.0  | 9.11  |
| 11 | 69.61 0.0 0.0 | 0.77 77.49 0.0 | 0.0 0.0 0.0 | 7.88 0.0 0.0  | 7.88  |
| 12 | 74.77 0.0 0.0 | 0.82 81.29 0.0 | 0.0 0.0 0.0 | 6.52 0.0 0.0  | 6.52  |
| 13 | 79.93 0.0 0.0 | 0.87 84.97 0.0 | 0.0 0.0 0.0 | 5.04 0.0 0.0  | 5.04  |
| 14 | 85.09 0.0 0.0 | 0.91 88.54 0.0 | 0.0 0.0 0.0 | 3.45 0.0 0.0  | 3.45  |
| 15 | 90.25 0.0 0.0 | 0.96 92.02 0.0 | 0.0 0.0 0.0 | 1.77 0.0 0.0  | 1.77  |
| 16 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 17 | 18.01 0.0 0.0 | 0.0 18.01 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 18 | 37.36 0.0 0.0 | 0.41 49.47 0.0 | 0.0 0.0 0.0 | 12.11 0.0 0.0 | 12.11 |
| 19 | 56.71 0.0 0.0 | 0.64 67.36 0.0 | 0.0 0.0 0.0 | 10.65 0.0 0.0 | 10.65 |
| 20 | 76.06 0.0 0.0 | 0.83 82.22 0.0 | 0.0 0.0 0.0 | 6.16 0.0 0.0  | 6.16  |
| 21 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |

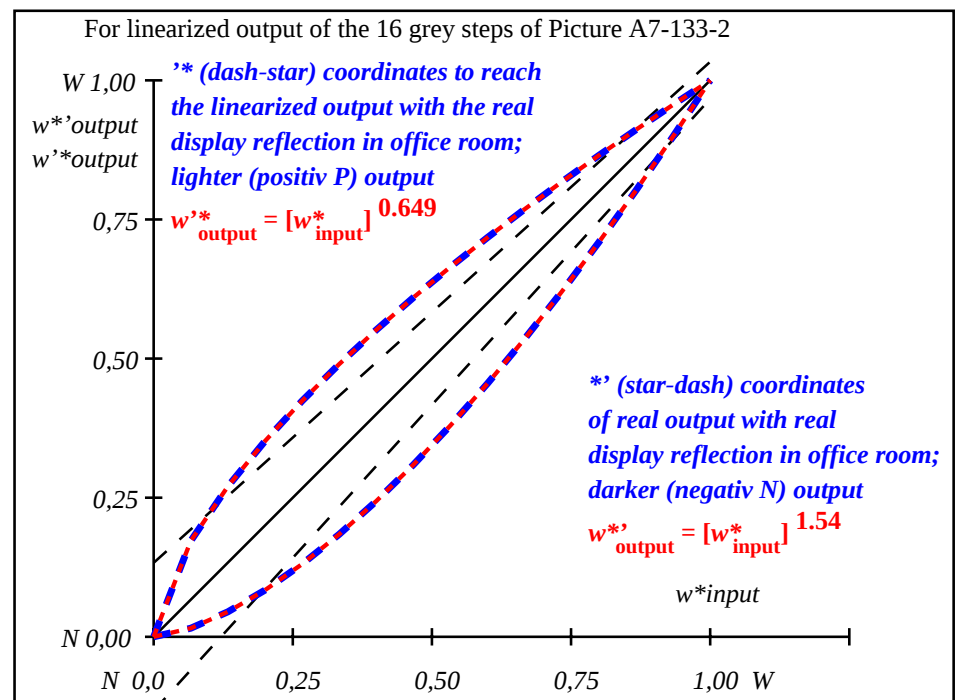
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775 Annex G**  
**and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 7.6$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 5.8$

Mean colour reproduction index:  $R^*_{ab,m} = 67$

OE930-3A-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE931-3N-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{intended}$<br>(absolute)                             | 18.0/2.5 | 23.2/3.8 | 28.3/5.6 | 33.5/7.8 | 38.6/10.5 | 43.8/13.7 | 49.0/17.6 | 54.1/22.1 | 59.3/27.3 | 64.4/33.4 | 69.6/40.2 | 74.8/47.9 | 79.9/56.6 | 85.1/66.2 | 90.2/76.8 | 95.4/88.6 |
|--------------------------------------------------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=0.78$<br>No. and<br>Hex code | 00;F     | 01;E     | 02;D     | 03;C     | 04;B      | 05;A      | 06;9      | 07;8      | 08;7      | 09;6      | 10;5      | 11;4      | 12;3      | 13;2      | 14;1      | 15;0      |
| $w^*=l^*_{CIELAB, r}$<br>(relative)                          |          |          |          |          |           |           |           |           |           |           |           |           |           |           |           |           |
| $w^*_{intended}$                                             | 0.000    | 0.067    | 0.133    | 0.200    | 0.267     | 0.333     | 0.400     | 0.467     | 0.533     | 0.600     | 0.667     | 0.733     | 0.800     | 0.867     | 0.933     | 1.000     |
| $w^*_{out}$                                                  | 0.0      | 0.123    | 0.209    | 0.287    | 0.359     | 0.426     | 0.492     | 0.554     | 0.614     | 0.673     | 0.731     | 0.786     | 0.841     | 0.895     | 0.948     | 1.0       |

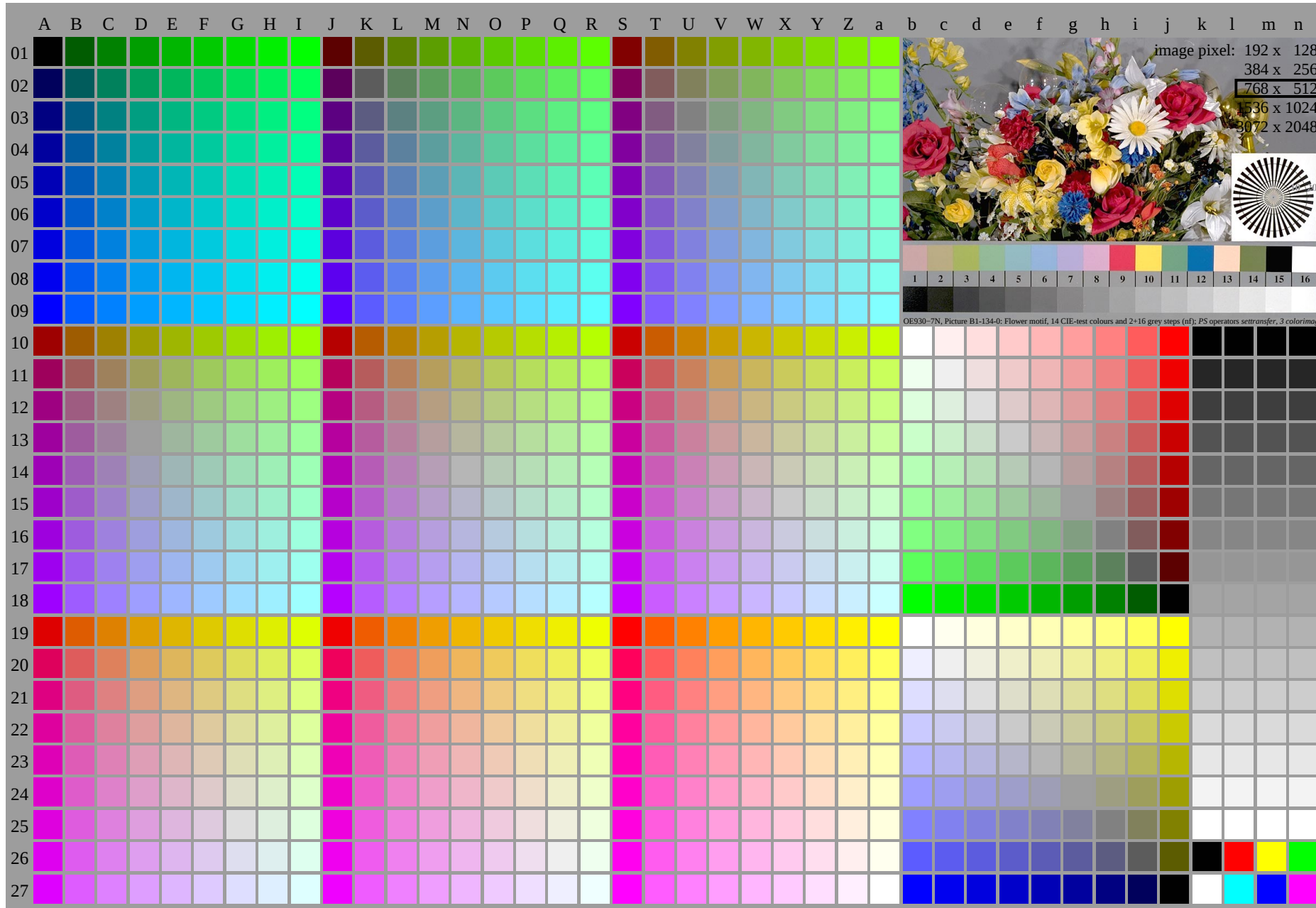
OE930-7N, Picture A7-133-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*_{setrgbcolor}$

OE93: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:2,5$ ;  $Y_N$  range 1,87 to <3,75

input: 000n/w/cmy0/rgb (->rgb\* $d$ )  
output 133-2:  $g_P=0.77$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE930-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{\lambda}$  (A-n), colorm = 1, xchart = 4, pchart = 0

OE93: Test chart 2G with 40x27=1080 colours; 1MR, DH  
Digital equidistant 9 or 16 step colour scales

input:  $000n/w/cmy0/rgb$  ( $\rightarrow rgb^*_{\lambda}$ )  
output 134-0:  $g_P=0.7$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rha4ta



See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

| i  | LAB*ref       | L*out          | LAB*out       | LAB*out/c-ref | ΔE*   |
|----|---------------|----------------|---------------|---------------|-------|
| 1  | 26.85 0.0 0.0 | 0.0 26.85 0.0  | 0.0 0.0 0.0   | 0.0 0.0 0.0   | 0.01  |
| 2  | 31.42 0.0 0.0 | 0.21 41.05 0.0 | 0.0 0.0 9.63  | 0.0 0.0 0.0   | 9.63  |
| 3  | 35.99 0.0 0.0 | 0.31 48.1 0.0  | 0.0 0.0 12.11 | 0.0 0.0 0.0   | 12.11 |
| 4  | 40.56 0.0 0.0 | 0.39 53.75 0.0 | 0.0 0.0 13.18 | 0.0 0.0 0.0   | 13.18 |
| 5  | 45.13 0.0 0.0 | 0.46 58.64 0.0 | 0.0 0.0 13.51 | 0.0 0.0 0.0   | 13.51 |
| 6  | 49.7 0.0 0.0  | 0.53 63.05 0.0 | 0.0 0.0 13.34 | 0.0 0.0 0.0   | 13.34 |
| 7  | 54.27 0.0 0.0 | 0.59 67.09 0.0 | 0.0 0.0 12.82 | 0.0 0.0 0.0   | 12.82 |
| 8  | 58.84 0.0 0.0 | 0.64 70.87 0.0 | 0.0 0.0 12.02 | 0.0 0.0 0.0   | 12.02 |
| 9  | 63.41 0.0 0.0 | 0.69 74.42 0.0 | 0.0 0.0 11.01 | 0.0 0.0 0.0   | 11.01 |
| 10 | 67.99 0.0 0.0 | 0.74 77.79 0.0 | 0.0 0.0 9.81  | 0.0 0.0 0.0   | 9.81  |
| 11 | 72.56 0.0 0.0 | 0.79 81.01 0.0 | 0.0 0.0 8.46  | 0.0 0.0 0.0   | 8.46  |
| 12 | 77.13 0.0 0.0 | 0.84 84.1 0.0  | 0.0 0.0 6.97  | 0.0 0.0 0.0   | 6.97  |
| 13 | 81.7 0.0 0.0  | 0.88 87.07 0.0 | 0.0 0.0 5.37  | 0.0 0.0 0.0   | 5.37  |
| 14 | 86.27 0.0 0.0 | 0.92 89.94 0.0 | 0.0 0.0 3.67  | 0.0 0.0 0.0   | 3.67  |
| 15 | 90.84 0.0 0.0 | 0.96 92.71 0.0 | 0.0 0.0 1.88  | 0.0 0.0 0.0   | 1.88  |
| 16 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0   | 0.0 0.0 0.0   | 0.01  |
| 17 | 26.85 0.0 0.0 | 0.0 26.85 0.0  | 0.0 0.0 0.0   | 0.0 0.0 0.0   | 0.01  |
| 18 | 43.99 0.0 0.0 | 0.45 57.47 0.0 | 0.0 0.0 13.48 | 0.0 0.0 0.0   | 13.48 |
| 19 | 61.13 0.0 0.0 | 0.67 72.67 0.0 | 0.0 0.0 11.54 | 0.0 0.0 0.0   | 11.54 |
| 20 | 78.27 0.0 0.0 | 0.85 84.85 0.0 | 0.0 0.0 6.58  | 0.0 0.0 0.0   | 6.58  |
| 21 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0   | 0.0 0.0 0.0   | 0.01  |

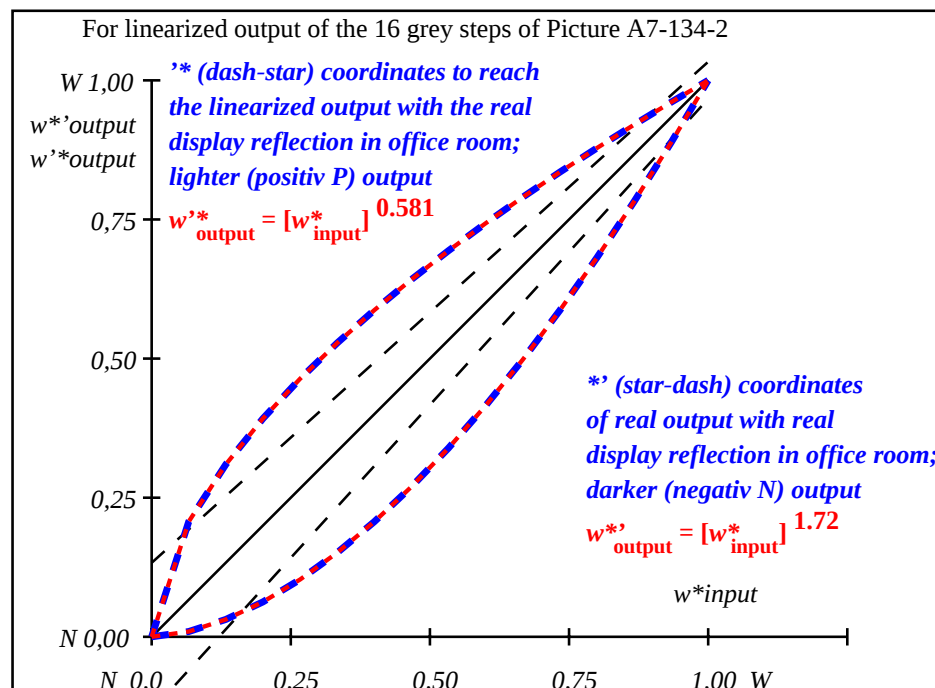
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 8.4$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 6.3$

Mean colour reproduction index:  $R^*_{ab,m} = 64$

OE930-3A-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE931-3N-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{intended}$<br>(absolute)                            | 26.8/5.0     | 31.4/6.8       | 36.0/9.0       | 40.6/11.6      | 45.1/14.6      | 49.7/18.2      | 54.3/22.2      | 58.8/26.9      | 63.4/32.1      | 68.0/38.0      | 72.6/44.5      | 77.1/51.7      | 81.7/59.7      | 86.3/68.5      | 90.8/78.1      | 95.4/88.6    |
|-------------------------------------------------------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=0.7$<br>No. and<br>Hex code | 00;F         | 01;E           | 02;D           | 03;C           | 04;B           | 05;A           | 06;9           | 07;8           | 08;7           | 09;6           | 10;5           | 11;4           | 12;3           | 13;2           | 14;1           | 15;0         |
| $w^*=l^*_{CIELAB, r}$<br>(relative)                         | 0.000        | 0.067          | 0.133          | 0.200          | 0.267          | 0.333          | 0.400          | 0.467          | 0.533          | 0.600          | 0.667          | 0.733          | 0.800          | 0.867          | 0.933          | 1.000        |
| $w^*_{intended}$<br>$w^*_{out}$                             | 0.000<br>0.0 | 0.067<br>0.151 | 0.133<br>0.244 | 0.200<br>0.324 | 0.267<br>0.397 | 0.333<br>0.463 | 0.400<br>0.527 | 0.467<br>0.587 | 0.533<br>0.644 | 0.600<br>0.699 | 0.667<br>0.753 | 0.733<br>0.805 | 0.800<br>0.855 | 0.867<br>0.905 | 0.933<br>0.953 | 1.000<br>1.0 |

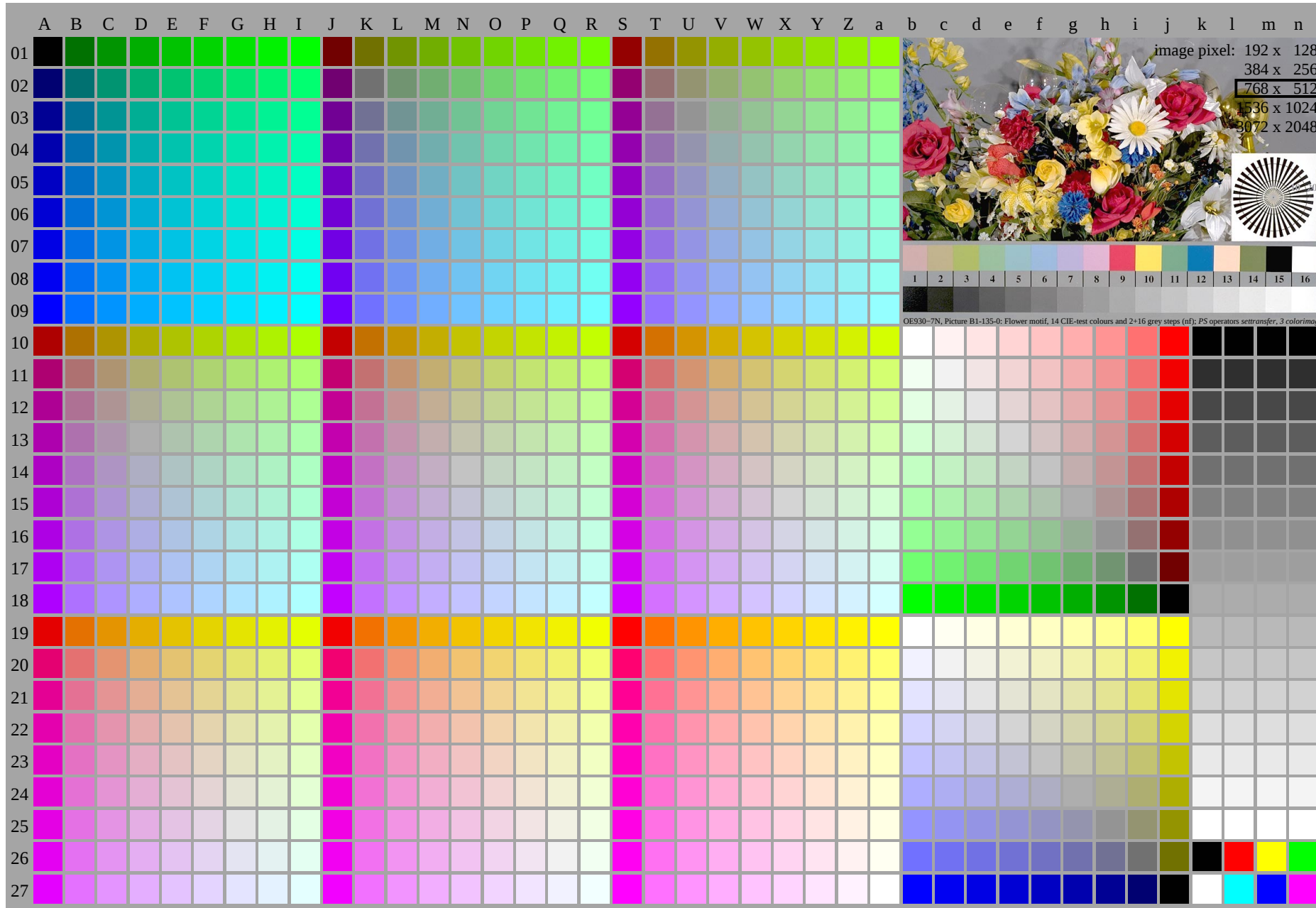
OE930-7N, Picture A7-134-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*_{setrgbcolor}$

OE93: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:5$ ;  $Y_N$  range 3,75 to <7,5

input: 000n/w/cmy0/rgb (->rgb\*d) output 134-2:  $g_P=0.7$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

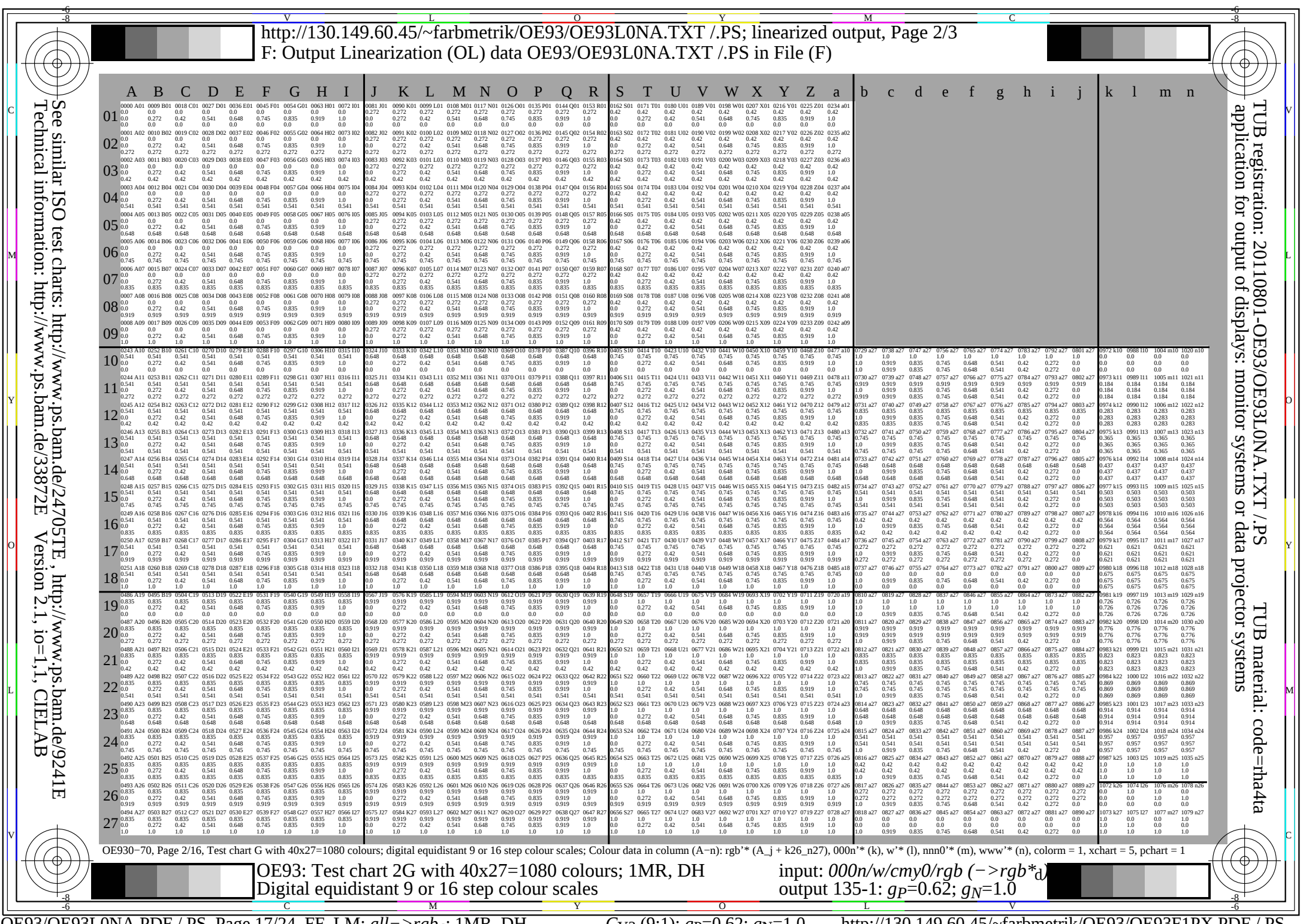


OE930-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{\lambda}$  (A-n), colorm = 1, xchart = 5, pchart = 0

OE93: Test chart 2G with 40x27=1080 colours; 1MR, DH  
Digital equidistant 9 or 16 step colour scales

input:  $000n/w/cmy0/rgb$  ( $\rightarrow rgb^*_{\lambda}$ )  
output 135-0:  $g_P=0.62$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rha4ta



See similar ISO test charts: <http://www.ps.pan.de/24705TE>, <http://www.ps.pan.de/33872E>, <http://www.ps.pan.de/9241E>  
Technical information: <http://www.ps.pan.de/33872E> Version 2.1, io=1, CELLAB

TUB registration: 20110801-OE93/OE93LONA.TXT /PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=th4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

| i  | LAB*ref       | L*out          | LAB*out     | LAB*out/c-ref | ΔE*   |
|----|---------------|----------------|-------------|---------------|-------|
| 1  | 37.99 0.0 0.0 | 0.0 37.99 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 2  | 41.81 0.0 0.0 | 0.24 51.79 0.0 | 0.0 0.0 0.0 | 9.98 0.0 0.0  | 9.98  |
| 3  | 45.64 0.0 0.0 | 0.35 57.87 0.0 | 0.0 0.0 0.0 | 12.23 0.0 0.0 | 12.23 |
| 4  | 49.47 0.0 0.0 | 0.43 62.6 0.0  | 0.0 0.0 0.0 | 13.13 0.0 0.0 | 13.13 |
| 5  | 53.3 0.0 0.0  | 0.5 66.63 0.0  | 0.0 0.0 0.0 | 13.33 0.0 0.0 | 13.33 |
| 6  | 57.13 0.0 0.0 | 0.56 70.19 0.0 | 0.0 0.0 0.0 | 13.07 0.0 0.0 | 13.07 |
| 7  | 60.96 0.0 0.0 | 0.62 73.44 0.0 | 0.0 0.0 0.0 | 12.48 0.0 0.0 | 12.48 |
| 8  | 64.78 0.0 0.0 | 0.67 76.44 0.0 | 0.0 0.0 0.0 | 11.65 0.0 0.0 | 11.65 |
| 9  | 68.61 0.0 0.0 | 0.72 79.23 0.0 | 0.0 0.0 0.0 | 10.62 0.0 0.0 | 10.62 |
| 10 | 72.44 0.0 0.0 | 0.76 81.87 0.0 | 0.0 0.0 0.0 | 9.43 0.0 0.0  | 9.43  |
| 11 | 76.27 0.0 0.0 | 0.81 84.37 0.0 | 0.0 0.0 0.0 | 8.11 0.0 0.0  | 8.11  |
| 12 | 80.1 0.0 0.0  | 0.85 86.76 0.0 | 0.0 0.0 0.0 | 6.66 0.0 0.0  | 6.66  |
| 13 | 83.93 0.0 0.0 | 0.89 89.05 0.0 | 0.0 0.0 0.0 | 5.12 0.0 0.0  | 5.12  |
| 14 | 87.75 0.0 0.0 | 0.93 91.24 0.0 | 0.0 0.0 0.0 | 3.49 0.0 0.0  | 3.49  |
| 15 | 91.58 0.0 0.0 | 0.96 93.36 0.0 | 0.0 0.0 0.0 | 1.78 0.0 0.0  | 1.78  |
| 16 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 17 | 37.99 0.0 0.0 | 0.0 37.99 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 18 | 52.34 0.0 0.0 | 0.48 65.67 0.0 | 0.0 0.0 0.0 | 13.33 0.0 0.0 | 13.33 |
| 19 | 66.7 0.0 0.0  | 0.69 77.86 0.0 | 0.0 0.0 0.0 | 11.16 0.0 0.0 | 11.16 |
| 20 | 81.05 0.0 0.0 | 0.86 87.34 0.0 | 0.0 0.0 0.0 | 6.29 0.0 0.0  | 6.29  |
| 21 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |

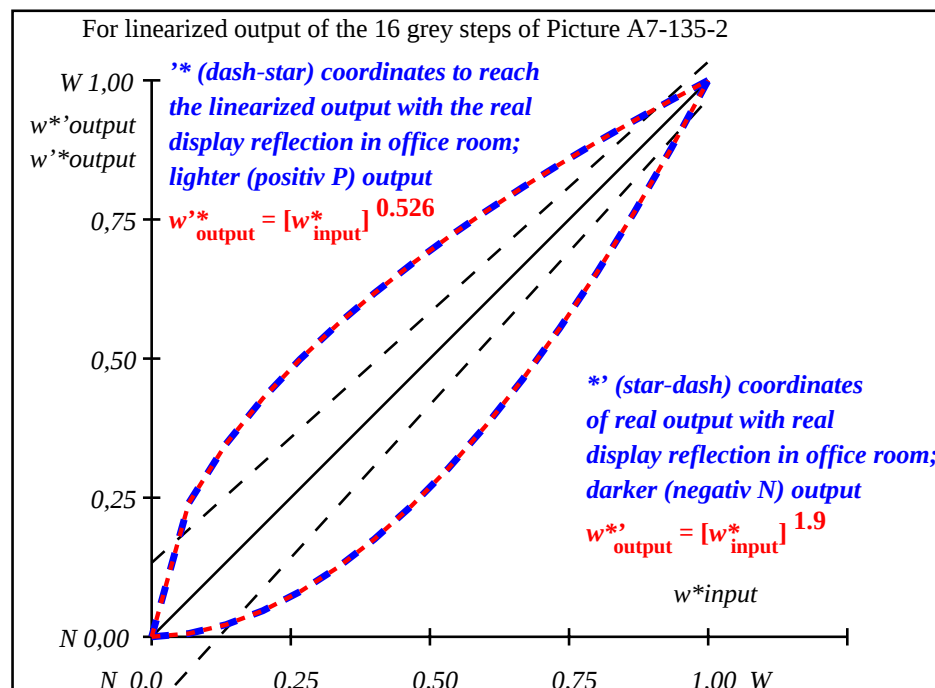
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 8.2$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 6.2$

Mean colour reproduction index:  $R^*_{ab,m} = 65$

OE930-3A-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE931-3N-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

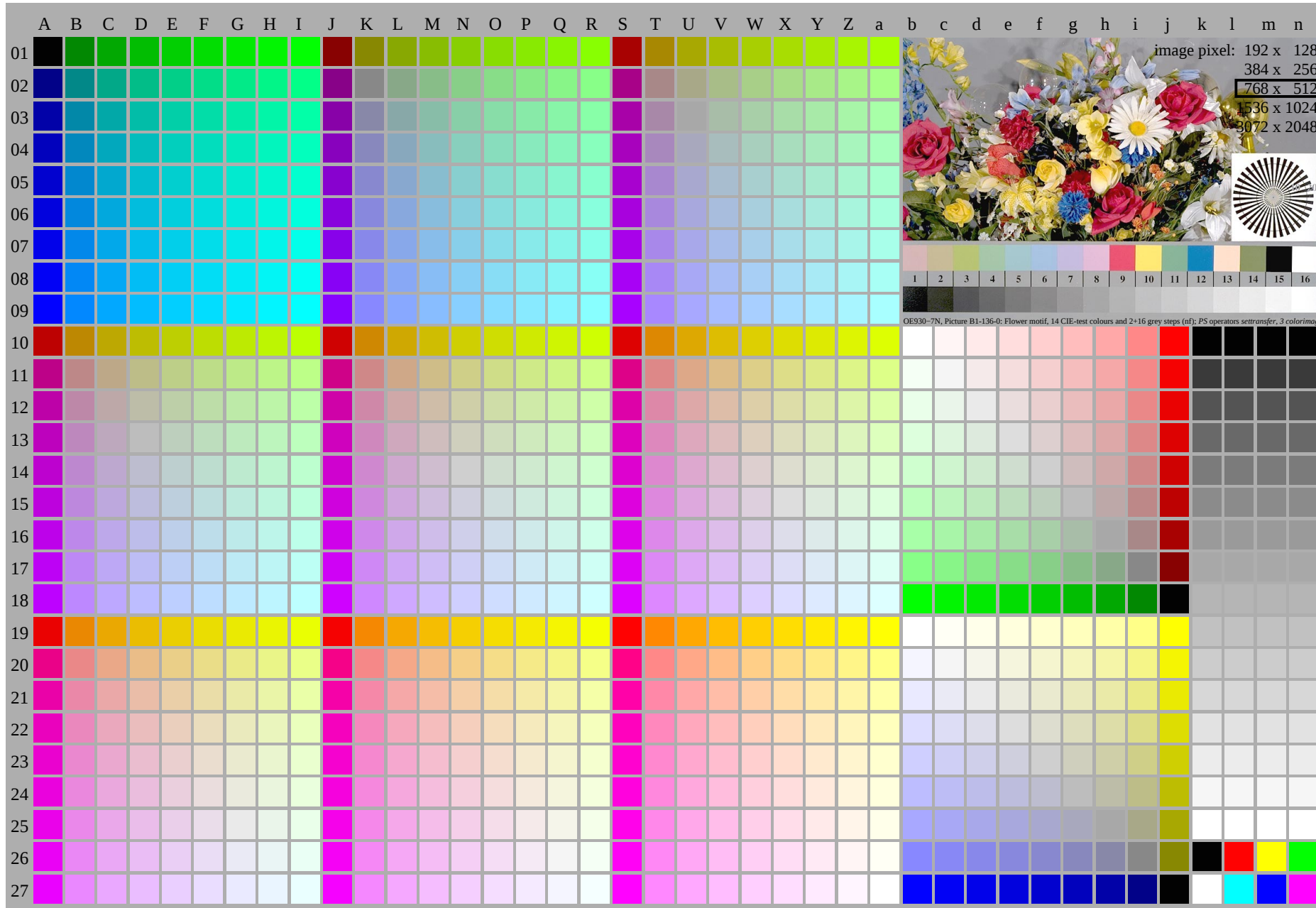
| $L^*/Y_{intended}$<br>(absolute)                             | 38.0/10.1 | 41.8/12.4 | 45.6/15.0 | 49.5/18.0 | 53.3/21.3 | 57.1/25.1 | 61.0/29.2 | 64.8/33.8 | 68.6/38.8 | 72.4/44.3 | 76.3/50.3 | 80.1/56.9 | 83.9/63.9 | 87.8/71.6 | 91.6/79.8 | 95.4/88.6 |
|--------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=0.63$<br>No. and<br>Hex code | 00;F      | 01;E      | 02;D      | 03;C      | 04;B      | 05;A      | 06;9      | 07;8      | 08;7      | 09;6      | 10;5      | 11;4      | 12;3      | 13;2      | 14;1      | 15;0      |
| $w^*=l^*_{CIELAB, r}$<br>(relative)                          |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| $w^*_{intended}$                                             | 0.000     | 0.067     | 0.133     | 0.200     | 0.267     | 0.333     | 0.400     | 0.467     | 0.533     | 0.600     | 0.667     | 0.733     | 0.800     | 0.867     | 0.933     | 1.000     |
| $w^*_{out}$                                                  | 0.0       | 0.185     | 0.283     | 0.366     | 0.438     | 0.503     | 0.564     | 0.621     | 0.675     | 0.727     | 0.776     | 0.824     | 0.87      | 0.915     | 0.958     | 1.0       |

OE930-7N, Picture A7-135-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^* setrgbcolor$

OE93: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:10$ ;  $Y_N$  range 7,5 to <15

input: 000n/w/cmy0/rgb (->rgb\*d) output 135-2:  $g_P=0.62$ ;  $g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE930-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{\lambda}$  (A-n), colorm = 1, xchart = 6, pchart = 0

OE93: Test chart 2G with 40x27=1080 colours; 1MR, DH  
Digital equidistant 9 or 16 step colour scales

input:  $000n/w/cmy0/rgb$  ( $\rightarrow rgb^*_{\lambda}$ )  
output 136-0:  $g_P=0.55$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rha4ta

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS      TUB material: code=rha4ta

[illegible]

OE930-70, Page 2/16, Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb\* (A\_j + k26\_n27), 000n\*\* (k), w\*w\* (l), nnn0\*\* (m), www\*\* (n), colorm = 1, xchart = 6, pchart = 1

OE93: Test chart 2G with 40x27=1080 colours; 1MR, 1  
Digital equidistant 9 or 16 step colour scales

input: 000n/w/cmy0/rgb (->rgb\*d)  
output 136-1:  $q_P=0.55$ ;  $q_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

| i  | LAB*ref       | L*out          | LAB*out     | LAB*out/c-ref | ΔE*   |
|----|---------------|----------------|-------------|---------------|-------|
| 1  | 52.02 0.0 0.0 | 0.0 52.02 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 2  | 54.91 0.0 0.0 | 0.27 63.82 0.0 | 0.0 0.0 0.0 | 8.91 0.0 0.0  | 8.91  |
| 3  | 57.8 0.0 0.0  | 0.38 68.49 0.0 | 0.0 0.0 0.0 | 10.69 0.0 0.0 | 10.69 |
| 4  | 60.7 0.0 0.0  | 0.46 72.03 0.0 | 0.0 0.0 0.0 | 11.34 0.0 0.0 | 11.34 |
| 5  | 63.59 0.0 0.0 | 0.53 75.0 0.0  | 0.0 0.0 0.0 | 11.41 0.0 0.0 | 11.41 |
| 6  | 66.48 0.0 0.0 | 0.59 77.61 0.0 | 0.0 0.0 0.0 | 11.12 0.0 0.0 | 11.12 |
| 7  | 69.37 0.0 0.0 | 0.64 79.95 0.0 | 0.0 0.0 0.0 | 10.57 0.0 0.0 | 10.57 |
| 8  | 72.27 0.0 0.0 | 0.69 82.1 0.0  | 0.0 0.0 0.0 | 9.83 0.0 0.0  | 9.83  |
| 9  | 75.16 0.0 0.0 | 0.74 84.09 0.0 | 0.0 0.0 0.0 | 8.93 0.0 0.0  | 8.93  |
| 10 | 78.05 0.0 0.0 | 0.78 85.96 0.0 | 0.0 0.0 0.0 | 7.91 0.0 0.0  | 7.91  |
| 11 | 80.95 0.0 0.0 | 0.82 87.72 0.0 | 0.0 0.0 0.0 | 6.78 0.0 0.0  | 6.78  |
| 12 | 83.84 0.0 0.0 | 0.86 89.4 0.0  | 0.0 0.0 0.0 | 5.56 0.0 0.0  | 5.56  |
| 13 | 86.73 0.0 0.0 | 0.9 91.0 0.0   | 0.0 0.0 0.0 | 4.26 0.0 0.0  | 4.26  |
| 14 | 89.62 0.0 0.0 | 0.93 92.53 0.0 | 0.0 0.0 0.0 | 2.9 0.0 0.0   | 2.9   |
| 15 | 92.52 0.0 0.0 | 0.97 93.99 0.0 | 0.0 0.0 0.0 | 1.48 0.0 0.0  | 1.48  |
| 16 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 17 | 52.02 0.0 0.0 | 0.0 52.02 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |
| 18 | 62.87 0.0 0.0 | 0.51 74.3 0.0  | 0.0 0.0 0.0 | 11.43 0.0 0.0 | 11.43 |
| 19 | 73.71 0.0 0.0 | 0.72 83.11 0.0 | 0.0 0.0 0.0 | 9.4 0.0 0.0   | 9.4   |
| 20 | 84.56 0.0 0.0 | 0.87 89.81 0.0 | 0.0 0.0 0.0 | 5.24 0.0 0.0  | 5.24  |
| 21 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01  |

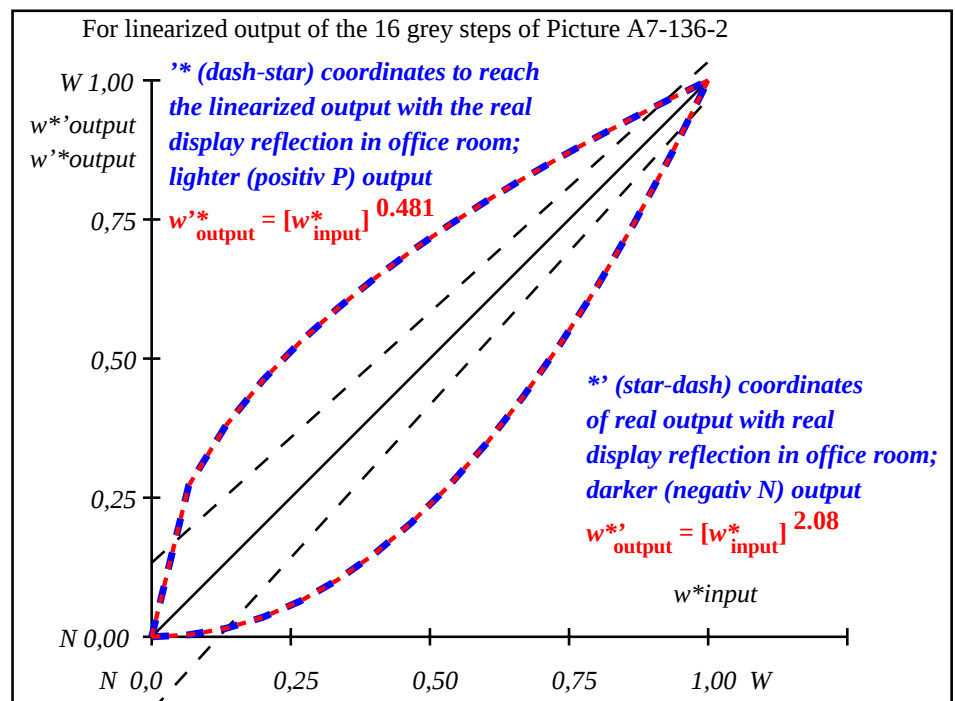
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 7.0$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 5.2$

Mean colour reproduction index:  $R^*_{ab,m} = 70$

OE930-3A-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE931-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{intended}$<br>(absolute)                           | 52.0/20.2 | 54.9/22.8 | 57.8/25.8 | 60.7/28.9 | 63.6/32.3 | 66.5/36.0 | 69.4/39.9 | 72.3/44.1 | 75.2/48.5 | 78.1/53.3 | 80.9/58.4 | 83.8/63.8 | 86.7/69.5 | 89.6/75.5 | 92.5/81.9 | 95.4/88.6 |
|------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^*w^*w^*$<br>setrgb<br>$g_P=0.55$<br>No. and<br>Hex code | 00;F      | 01;E      | 02;D      | 03;C      | 04;B      | 05;A      | 06;9      | 07;8      | 08;7      | 09;6      | 10;5      | 11;4      | 12;3      | 13;2      | 14;1      | 15;0      |
| $w^*=l^*_{CIELAB,r}$<br>(relative)                         | 0.000     | 0.067     | 0.133     | 0.200     | 0.267     | 0.333     | 0.400     | 0.467     | 0.533     | 0.600     | 0.667     | 0.733     | 0.800     | 0.867     | 0.933     | 1.000     |
| $w^*_{intended}$                                           | 0.000     | 0.067     | 0.133     | 0.200     | 0.267     | 0.333     | 0.400     | 0.467     | 0.533     | 0.600     | 0.667     | 0.733     | 0.800     | 0.867     | 0.933     | 1.000     |
| $w^*_{out}$                                                | 0.0       | 0.226     | 0.33      | 0.413     | 0.484     | 0.546     | 0.604     | 0.658     | 0.707     | 0.755     | 0.8       | 0.843     | 0.885     | 0.925     | 0.963     | 1.0       |

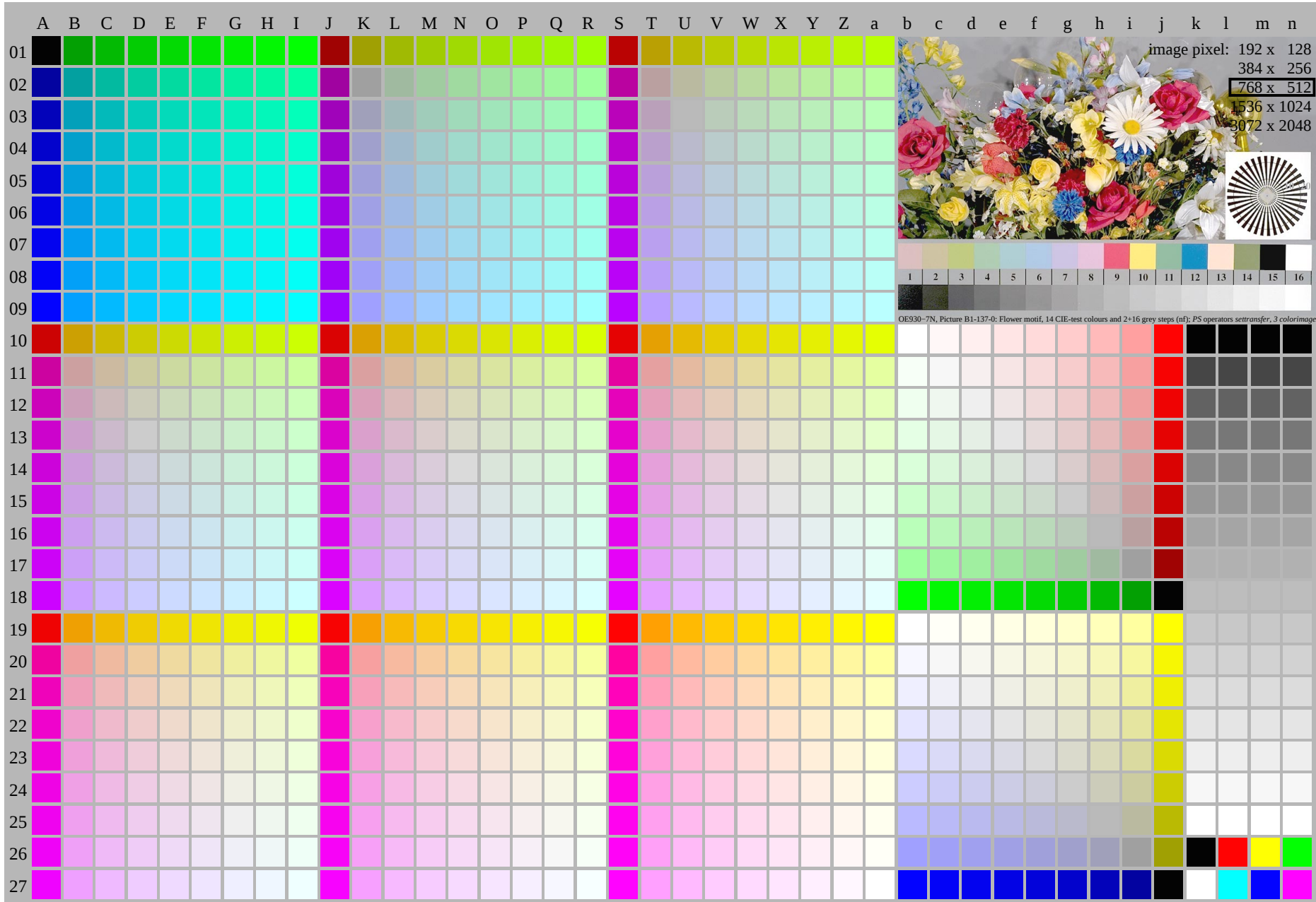
OE930-7N, Picture A7-136-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^*w^*w^*$  setrgbcolor

OE93: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:20$ ;  $Y_N$  range 15 to <30

input: 000n/w/cmy0/rgb (->rgb\*d) output 136-2:  $g_P=0.55$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE930-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{\lambda}$  (A-n), colorm = 1, xchart = 7, pchart = 0

OE93: Test chart 2G with 40x27=1080 colours; 1MR, DH  
Digital equidistant 9 or 16 step colour scales

input:  $000n/w/cmy0/rgb$  ( $\rightarrow rgb^*_d$ )  
output 137-0:  $g_P=0.47$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
application for output of displays: monitor systems or data projector systems  
TUB material: code=th4ta



See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

| i  | LAB*ref       | L*out          | LAB*out     | LAB*out/c-ref | ΔE*  |
|----|---------------|----------------|-------------|---------------|------|
| 1  | 69.7 0.0 0.0  | 0.0 69.7 0.0   | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |
| 2  | 71.41 0.0 0.0 | 0.3 77.46 0.0  | 0.0 0.0 0.0 | 6.04 0.0 0.0  | 6.04 |
| 3  | 73.13 0.0 0.0 | 0.41 80.24 0.0 | 0.0 0.0 0.0 | 7.11 0.0 0.0  | 7.11 |
| 4  | 74.84 0.0 0.0 | 0.49 82.31 0.0 | 0.0 0.0 0.0 | 7.47 0.0 0.0  | 7.47 |
| 5  | 76.55 0.0 0.0 | 0.56 84.02 0.0 | 0.0 0.0 0.0 | 7.47 0.0 0.0  | 7.47 |
| 6  | 78.27 0.0 0.0 | 0.62 85.51 0.0 | 0.0 0.0 0.0 | 7.24 0.0 0.0  | 7.24 |
| 7  | 79.98 0.0 0.0 | 0.67 86.84 0.0 | 0.0 0.0 0.0 | 6.86 0.0 0.0  | 6.86 |
| 8  | 81.7 0.0 0.0  | 0.71 88.05 0.0 | 0.0 0.0 0.0 | 6.35 0.0 0.0  | 6.35 |
| 9  | 83.41 0.0 0.0 | 0.76 89.17 0.0 | 0.0 0.0 0.0 | 5.76 0.0 0.0  | 5.76 |
| 10 | 85.12 0.0 0.0 | 0.8 90.21 0.0  | 0.0 0.0 0.0 | 5.08 0.0 0.0  | 5.08 |
| 11 | 86.84 0.0 0.0 | 0.84 91.19 0.0 | 0.0 0.0 0.0 | 4.35 0.0 0.0  | 4.35 |
| 12 | 88.55 0.0 0.0 | 0.87 92.11 0.0 | 0.0 0.0 0.0 | 3.56 0.0 0.0  | 3.56 |
| 13 | 90.27 0.0 0.0 | 0.91 92.99 0.0 | 0.0 0.0 0.0 | 2.73 0.0 0.0  | 2.73 |
| 14 | 91.98 0.0 0.0 | 0.94 93.83 0.0 | 0.0 0.0 0.0 | 1.85 0.0 0.0  | 1.85 |
| 15 | 93.7 0.0 0.0  | 0.97 94.64 0.0 | 0.0 0.0 0.0 | 0.94 0.0 0.0  | 0.94 |
| 16 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |
| 17 | 69.7 0.0 0.0  | 0.0 69.7 0.0   | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |
| 18 | 76.13 0.0 0.0 | 0.54 83.62 0.0 | 0.0 0.0 0.0 | 7.5 0.0 0.0   | 7.5  |
| 19 | 82.55 0.0 0.0 | 0.74 88.62 0.0 | 0.0 0.0 0.0 | 6.06 0.0 0.0  | 6.06 |
| 20 | 88.98 0.0 0.0 | 0.88 92.34 0.0 | 0.0 0.0 0.0 | 3.35 0.0 0.0  | 3.35 |
| 21 | 95.41 0.0 0.0 | 1.0 95.41 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01 |

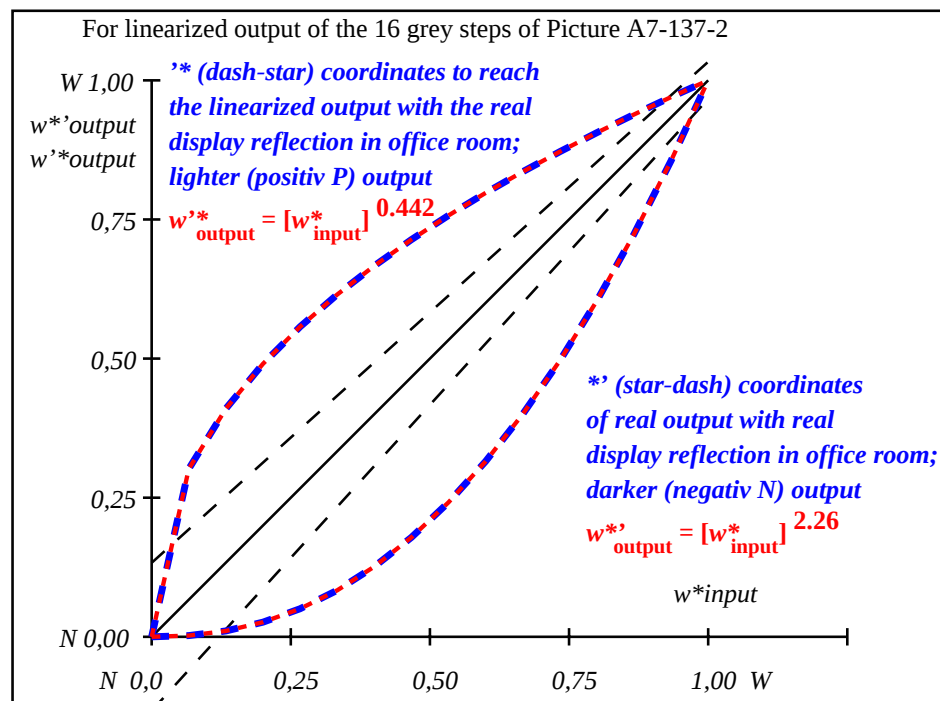
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775 Annex G**  
**and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 4.6$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 3.4$

Mean colour reproduction index:  $R^*_{ab,m} = 80$

OE930-3A-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE931-3N-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{intended}$<br>(absolute)                             | 69.7/40.3 | 71.4/42.8 | 73.1/45.4 | 74.8/48.0 | 76.6/50.8 | 78.3/53.7 | 80.0/56.6 | 81.7/59.7 | 83.4/62.9 | 85.1/66.3 | 86.8/69.7 | 88.6/73.2 | 90.3/76.9 | 92.0/80.7 | 93.7/84.6 | 95.4/88.6 |
|--------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=0.48$<br>No. and<br>Hex code | 00;F      | 01;E      | 02;D      | 03;C      | 04;B      | 05;A      | 06;9      | 07;8      | 08;7      | 09;6      | 10;5      | 11;4      | 12;3      | 13;2      | 14;1      | 15;0      |
| $w^*=l^*_{CIELAB, r}$<br>(relative)                          |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| $w^*_{intended}$                                             | 0.000     | 0.067     | 0.133     | 0.200     | 0.267     | 0.333     | 0.400     | 0.467     | 0.533     | 0.600     | 0.667     | 0.733     | 0.800     | 0.867     | 0.933     | 1.000     |
| $w^*_{out}$                                                  | 0.0       | 0.277     | 0.384     | 0.466     | 0.534     | 0.593     | 0.647     | 0.697     | 0.742     | 0.785     | 0.825     | 0.863     | 0.899     | 0.934     | 0.968     | 1.0       |

OE930-7N, Picture A7-137-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*_{setrgbcolor}$

OE93: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:40$ ;  $Y_N$  range 30 to <60

input: 000n/w/cmy0/rgb (->rgb\*d) output 137-2:  $g_P=0.47$ ;  $g_N=1.0$

TUB registration: 20110801-OE93/OE93L0NA.TXT /.PS  
TUB material: code=rh4ta  
application for output of displays: monitor systems or data projector systems