

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

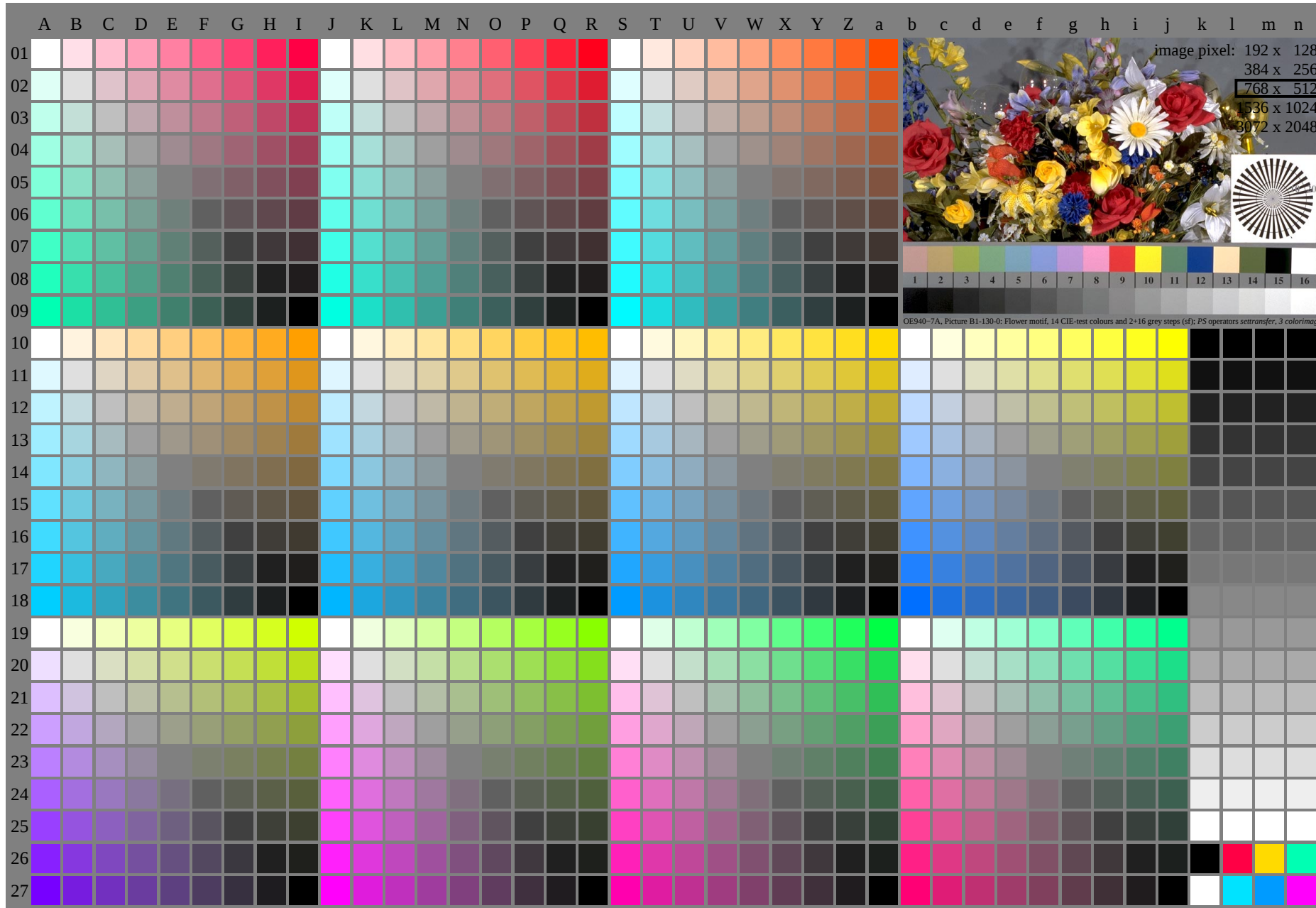


image pixel: 192 x 128
384 x 256
768 x 512
1536 x 1024
3072 x 2048

OE940-7A, Picture B1-130-0: Flower motif, 14 CIE-test colours and 2+16 grey steps (sf); PS operators settransfer, 3 colorimage

OE990-7N, Page 1/16, Test chart 2E with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb^* (A-n), colorm = 1, xchart = 0, pchart = 0

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DEH
Digital equidistant 9 or 16 step colour scales

input: 000n/w/cmy0/rgb (-> rgb^*_{de})
output 130-0: $g_p=1.0$; $g_N=1.0$

TUB registration: 20110801-OE99/OE99L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rha4ta

http://130.149.60.45/~farbmatrik/OE99/OE99L0NA.TXT /.PS; linearized output, Page 2/3

F: Output Linearization (OL) data OE99/OE99L0NA.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 M2																													

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

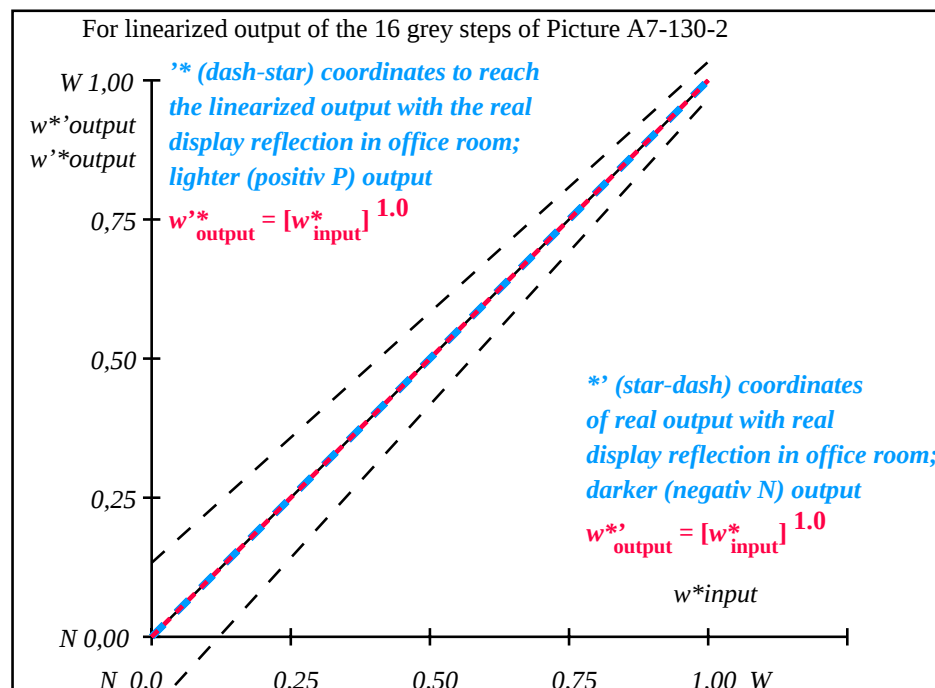
Start output S1
Specification according to
ISO/IEC 15775 Annex G
and DIN 33866-1 Annex G

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

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

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

OE990-3A-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE991-3N-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y_{intended}$ (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
$w^* w^* w^*$ setrgb $g_P=1.0$ 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	0.067	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

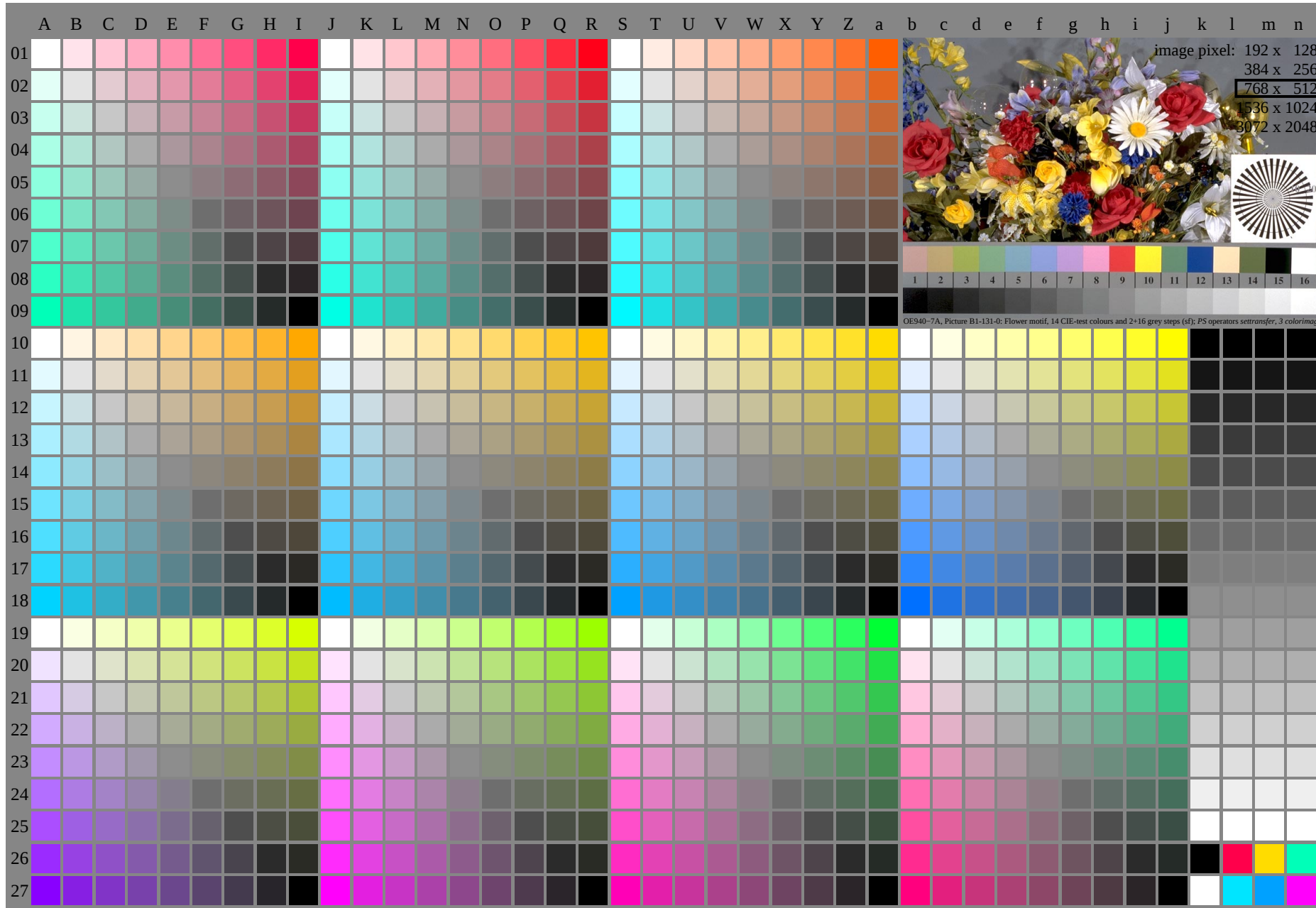
OE990-7N, Picture A7-130-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE99: In-output relation according to ISO 9241-306; 1MR, DEH
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*de
output 130-2: $g_P=1.0$; $g_N=1.0$

TUB registration: 20110801-OE99/OE99L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

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Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



OE990-7N, Page 1/16, Test chart 2E with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb^* (A-n), colorm = 1, xchart = 1, pchart = 0

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DEH
Digital equidistant 9 or 16 step colour scales

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

TUB registration: 20110801-OE99/OE99L0NA.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	5.69 0.0 0.0	0.0 0.0 0.0	0.01
2	11.67 0.0 0.0	0.1	14.73 0.0 0.0	3.06 0.0 0.0	3.06
3	17.65 0.0 0.0	0.18	21.96 0.0 0.0	4.3 0.0 0.0	4.3
4	23.63 0.0 0.0	0.26	28.63 0.0 0.0	4.99 0.0 0.0	4.99
5	29.62 0.0 0.0	0.33	34.96 0.0 0.0	5.34 0.0 0.0	5.34
6	35.6 0.0 0.0	0.39	41.05 0.0 0.0	5.46 0.0 0.0	5.46
7	41.58 0.0 0.0	0.46	46.96 0.0 0.0	5.38 0.0 0.0	5.38
8	47.56 0.0 0.0	0.52	52.72 0.0 0.0	5.16 0.0 0.0	5.16
9	53.54 0.0 0.0	0.59	58.36 0.0 0.0	4.82 0.0 0.0	4.82
10	59.52 0.0 0.0	0.65	63.88 0.0 0.0	4.36 0.0 0.0	4.36
11	65.5 0.0 0.0	0.71	69.32 0.0 0.0	3.82 0.0 0.0	3.82
12	71.48 0.0 0.0	0.77	74.67 0.0 0.0	3.19 0.0 0.0	3.19
13	77.47 0.0 0.0	0.83	79.95 0.0 0.0	2.49 0.0 0.0	2.49
14	83.45 0.0 0.0	0.89	85.16 0.0 0.0	1.72 0.0 0.0	1.72
15	89.43 0.0 0.0	0.94	90.31 0.0 0.0	0.89 0.0 0.0	0.89
16	95.41 0.0 0.0	1.0	95.41 0.0 0.0	0.0 0.0 0.0	0.01
17	5.69 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	33.4 0.0 0.0	5.28 0.0 0.0	5.28
19	50.55 0.0 0.0	0.56	55.55 0.0 0.0	5.0 0.0 0.0	5.0
20	72.98 0.0 0.0	0.78	76.0 0.0 0.0	3.02 0.0 0.0	3.02
21	95.41 0.0 0.0	1.0	95.41 0.0 0.0	0.0 0.0 0.0	0.01

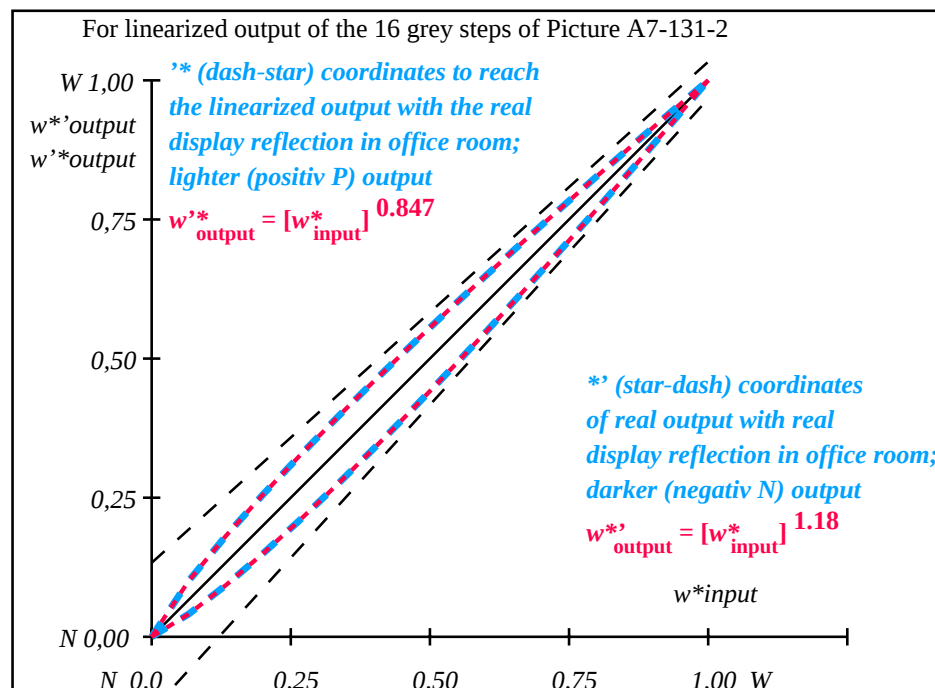
Start output S1
Specification according to
ISO/IEC 15775 Annex G
and DIN 33866-1 Annex G

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

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

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

OE990-3A-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE991-3N-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

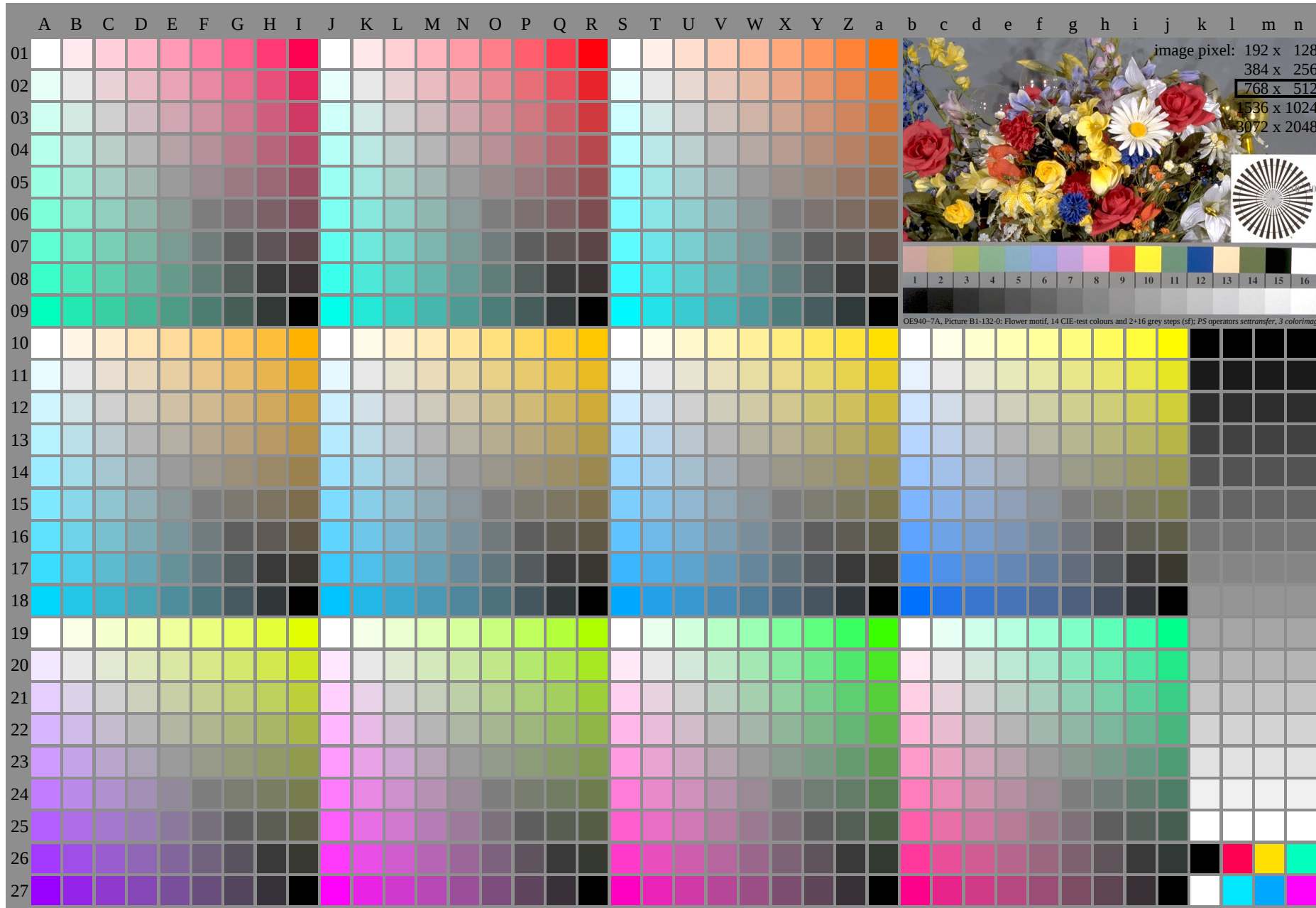
$L^*/Y_{intended}$ (absolute)	5.7/0.6	11.7/1.4	17.7/2.4	23.6/4.0	29.6/6.1	35.6/8.8	41.6/12.2	47.6/16.5	53.5/21.5	59.5/27.6	65.5/34.7	71.5/42.9	77.5/52.3	83.4/63.0	89.4/75.1	95.4/88.6
$w^* w^* w^*$ setrgb $g_P=0.92$ No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	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

OE990-7N, Picture A7-131-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*_{setrgbcolor}$

OE99: In-output relation according to ISO 9241-306; 1MR, DEH
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*de
output 131-2: $g_P=0.92$; $g_N=1.0$

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



OE990-7N, Page 1/16, Test chart 2E with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb^*_{de} (A_n), colorm = 1, xchart = 2, pchart = 0

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DEH
Digital equidistant 9 or 16 step colour scales

input: $000n/w/cmy0/rgb$ ($\rightarrow rgb^*_{de}$)
output 132-0: $g_P=0.85$; $g_N=1.0$

TUB registration: 20110801-OE99/OE99L0NA.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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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	2900 K20	2909 L20	2918 M20	2927 N20	2936 O20	2945 P20	2954 Q20	2963 R20	2972 S20	2981 T20	2990 U20	3000 V20	3009 W20	3018 X20	3027 Y20	3036 Z20	3045 A21	3054 B21	3063 C21	3072 D21	3081 E21	3090 F21	3099 G21	3108 H21	3117 I21	3126 J21	3135 K21	3144 L21	3153 M21	3162 N21	3171 O21	3180 P21	3189 Q21	3198 R21	3207 S21	3216 T21	3225 U21	3234 V21	3243 W21	3252 X21	3261 Y21	3270 Z21	3279 A22	3288 B22	3297 C22	3306 D22	3315 E22	3324 F22	3333 G22	3342 H22	3351 I22	3360 J22	3369 K22	3378 L22	3387 M22	3396 N22	3405 O22	3414 P22	3423 Q22	3432 R22	3441 S22	3450 T22	3459 U22	3468 V22	3477 W22	3486 X22	3495 Y22	3504 Z22	3513 A23	3522 B23	3531 C23	3540 D23	3549 E23	3558 F23	3567 G23	3576 H23	3585 I23	3594 J23	3603 K23	3612 L23	3621 M23	3630 N23	3639 O23	3648 P23	3657 Q23	3666 R23	3675 S23	3684 T23	3693 U23	3702 V23	3711 W23	3720 X23	3729 Y23	3738 Z23	3747 A24	3756 B24	3765 C24	3774 D24	3783 E24	3792 F24	3801 G24	3810 H24	3819 I24	3828 J24	3837 K24	3846 L24	3855 M24	3864 N24	3873 O24	3882 P24	3891 Q24	3900 R24	3909 S24	3918 T24	3927 U24	3936 V24	3945 W24	3954 X24	3963 Y24	3972 Z24	3981 A25	3990 B25	4000 C25	4009 D25	4018 E25	4027 F25	4036 G25	4045 H25	4054 I25	4063 J25	4072 K25	4081 L25	4090 M25	4099 N25	4108 O25	4117 P25	4126 Q25	4135 R25	4144 S25	4153 T25	4162 U25	4171 V25	4180 W25	4189 X25	4198 Y25	4207 Z25	4216 A26	4225 B26	4234 C26	4243 D26	4252 E26	4261 F26	4270 G26	4279 H26	4288 I26	4297 J26	4306 K26	4315 L26	4324 M26	4333 N26	4342 O26	4351 P26	4360 Q26	4369 R26	4378 S26	4387 T26	4396 U26	4405 V26	4414 W26	4423 X26	4432 Y26	4441 Z26	4450 A27	4459 B27	4468 C27	4477 D27	4486 E27	4495 F27	4504 G27	4513 H27	4522 I27	4531 J27	4540 K27	4549 L27	4558 M27	4567 N27	4576 O27	4585 P27	4594 Q27	4603 R27	4612 S27	4621 T27	4630 U27	4639 V27	4648 W27	4657 X27	4666 Y27	4675 Z27	4684 A28	4693 B28	4702 C28	4711 D28	4720 E28	4729 F28	4738 G28	4747 H28	4756 I28	4765 J28	4774 K28	4783 L28	4792 M28	4801 N28	4810 O28	4819 P28	4828 Q28	4837 R28	4846 S28	4855 T28	4864 U28	4873 V28	4882 W28	4891 X28	4900 Y28	4909 Z28	4918 A29	4927 B29	4936 C29	4945 D29	4954 E29	4963 F29	4972 G29	4981 H29	4990 I29	5000 J29	5009 K29	5018 L29	5027 M29	5036 N29	5045 O29	5054 P29	5063 Q29	5072 R29	5081 S29	5090 T29	5099 U29	5108 V29	5117 W29	5126 X29	5135 Y29	5144 Z29	5153 A30	5162 B30	5171 C30	5180 D30	5189 E30	5198 F30	5207 G30	5216 H30	5225 I30	5234 J30	5243 K30	5252 L30	5261 M30	5270 N30	5279 O30	5288 P30	5297 Q30	5306 R30	5315 S30	5324 T30	5333 U30	5342 V30	5351 W30	5360 X30	5369 Y30	5378 Z30	5387 A31	5396 B31	5405 C31	5414 D31	5423 E31	5432 F31	5441 G31	5450 H31	5459 I31	5468 J31	5477 K31	5486 L31	5495 M31	5504 N31	5513 O31	5522 P31	5531 Q31	5540 R31	5549 S31	5558 T31	5567 U31	5576 V31	5585 W31	5594 X31	5603 Y31	5612 Z31	5621 A32	5630 B32	5639 C32	5648 D32	5657 E32	5666 F32	5675 G32	5684 H32	5693 I32	5702 J32	5711 K32	5720 L32	5729 M32	5738 N32	5747 O32	5756 P32	5765 Q32	5774 R32	5783 S32	5792 T32	5801 U32	5810 V32	5819 W32	5828 X32	5837 Y32	5846 Z32	5855 A33	5864 B33	5873 C33	5882 D33	5891 E33	5900 F33	5909 G33	5918 H33	5927 I33	5936 J33	5945 K33	5954 L33	5963 M33	5972 N33	5981 O33	5990 P33	5999 Q33	6000 R33	6009 S33	6018 T33	6027 U33	6036 V33	6045 W33	6054 X33	6063 Y33	6072 Z33	6081 A34	6090 B34	6099 C34	6108 D34	6117 E34	6126 F34	6135 G34	6144 H34	6153 I34	6162 J34	6171 K34	6180 L34	6189 M34	6198 N34	6207 O34	6216 P34	6225 Q34	6234 R34	6243 S34	6252 T34	6261 U34	6270 V34	6279 W34	6288 X34	6297 Y34	6306 Z34	6315 A35	6324 B35	6333 C35	6342 D35	6351 E35	6360 F35	6369 G35	6378 H35	6387 I35	6396 J35	6405 K35	6414 L35	6423 M35	6432 N35	6441 O35	6450 P35	6459 Q35	6468 R35	6477 S35	6486 T35	6495 U35	6504 V35	6513 W35	6522 X35	6531 Y35	6540 Z35	6549 A36	6558 B36	6567 C36	6576 D36	6585 E36	6594 F36	6603 G36	6612 H36	6621 I36	6630 J36	6639 K36	6648 L36	6657 M36	6666 N36	6675 O36	6684 P36	6693 Q36	6702 R36	6711 S36	6720 T36	6729 U36	6738 V36	6747 W36	6756 X36	6765 Y36	6774 Z36	6783 A37	6792 B37	6801 C37	6810 D37	6819 E37	6828 F37	6837 G37	6846 H37	6855 I37	6864 J37	6873 K37	6882 L37	6891 M37	6900 N37	6909 O37	6918 P37	6927 Q37	6936 R37	6945 S37	6954 T37	6963 U37	6972 V37	6981 W37	6990 X37	7000 Y37	7009 Z37	7018 A38	7027 B38	7036 C38	7045 D38	7054 E38	7063 F38	7072 G38	7081 H38	7090 I38	7100 J38	7109 K38	7118 L38	7127 M38	7136 N38	7145 O38	7154 P38	7163 Q38	7172 R38	7181 S38	7190 T38	7200 U38	7209 V38	7218 W38	7227 X38	7236 Y38	7245 Z38	7254 A39	7263 B39	7272 C39	7281 D39	7290 E39	7300 F39	7309 G39	7318 H39	7327 I39	7336 J39	7345 K39	7354 L39	7363 M39	7372 N39	7381 O39	7390 P39	7400 Q39	7409 R39	7418 S39	7427 T39	7436 U39	7445 V39	7454 W39	7463 X39	7472 Y39	7481 Z39	7490 A40	7500 B40	7509 C40	7518 D40	7527 E40	7536 F40	7545 G40	7554 H40	7563 I40	7572 J40	7581 K40	7590 L40	7600 M40	7609 N40	7618 O40	7627 P40	7636 Q40	7645 R40	7654 S40	7663 T40	7672 U40	7681 V40	7690 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	8100 Q42	8109 R42	8118 S42	8127 T42	8136 U42	8145 V42	8154 W42	8163 X42	8172 Y42	8181 Z42	8190 A43	8200 B43	8209 C43	8218 D43	8227 E43	8236 F43	8245 G43	8254 H43	8263 I43	8272 J43	8281 K43	8290 L43	8300 M43	8309 N43	8318 O43	8327 P43	8336 Q43	8345 R43	8354 S43	8363 T43	8372 U43	8381 V43	8390 W43	8400 X43	8409 Y43	8418 Z43	8427 A44	8436 B44	8445 C44	8454 D44	8463 E44	8472 F44	8481 G44	8490 H44	8500 I44	8509 J44	8518 K44	8527 L44	8536 M44	8545 N44	8554 O44	8563 P44	8572 Q44	8581 R44	8590 S44	8600 T44	8609 U44	8618 V44	8627 W44	8636 X44	8645 Y44	8654 Z44	8663 A45	8672 B45	8681 C45	8690 D45	8700 E45	8709 F45	8718 G45	8727 H45	8736 I45	8745 J45	8754 K45	8763 L45	8772 M45	8781 N45	8790 O45	8800 P45	8809 Q45	8818 R45	8827 S45	8836 T45	8845 U45	8854 V45	8863 W45	8872 X45	8881 Y45	8890 Z45	8900 A46	8909 B46	8918 C46	8927 D46	8936 E46	8945 F46	8954 G46	8963 H46	8972 I46	8981 J46	8990 K46	9000 L46

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

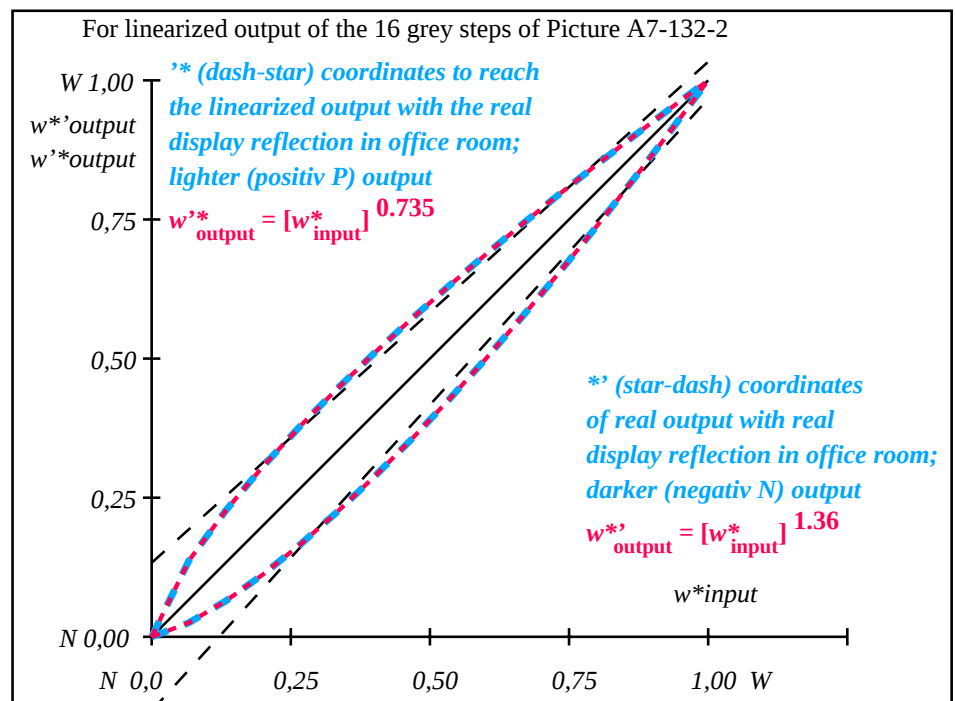
Start output S1
Specification according to
ISO/IEC 15775 Annex G
and DIN 33866-1 Annex G

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

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

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

OE990-3A-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE991-3N-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

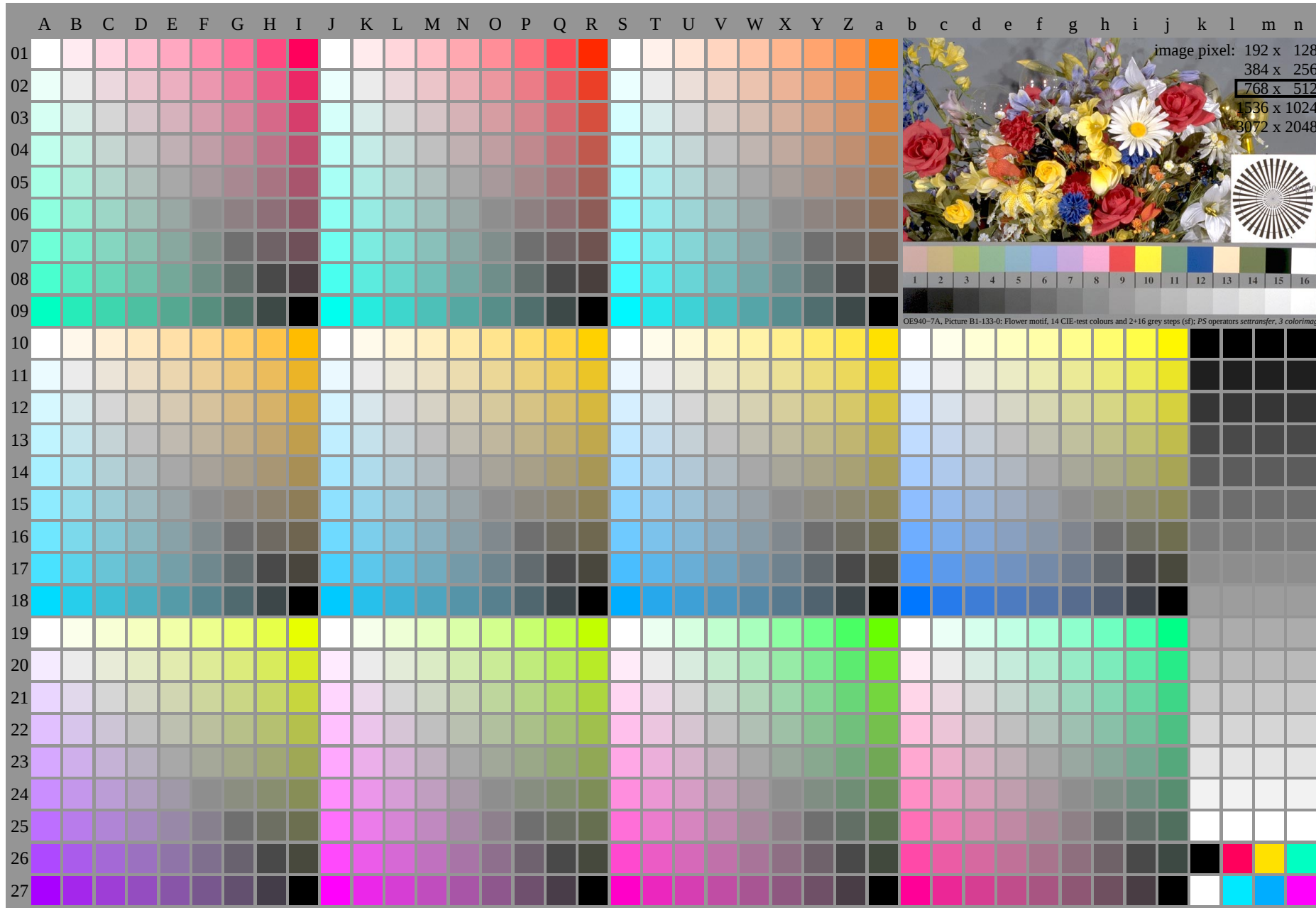
$L^*/Y_{intended}$ (absolute)	11.0/1.3	16.6/2.2	22.2/3.6	27.9/5.4	33.5/7.8	39.1/10.7	44.8/14.4	50.4/18.7	56.0/23.9	61.6/30.0	67.3/37.0	72.9/45.0	78.5/54.1	84.2/64.4	89.8/75.8	95.4/88.6
$w^* w^* w^*$ setrgb $g_P=0.85$ No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^*=l^*_{CIELAB, r}$ (relative)	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
$w^*_{intended}$ w^*_{out}	0.000	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

OE990-7N, Picture A7-132-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE99: In-output relation according to ISO 9241-306; 1MR, DEH
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*de
output 132-2: $g_P=0.85$; $g_N=1.0$

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



OE990-7N, Page 1/16, Test chart 2E with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb^*_{de} (A-n), colorm = 1, xchart = 3, pchart = 0

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DEH
Digital equidistant 9 or 16 step colour scales

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

TUB registration: 20110801-OE99/OE99L0NA.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	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

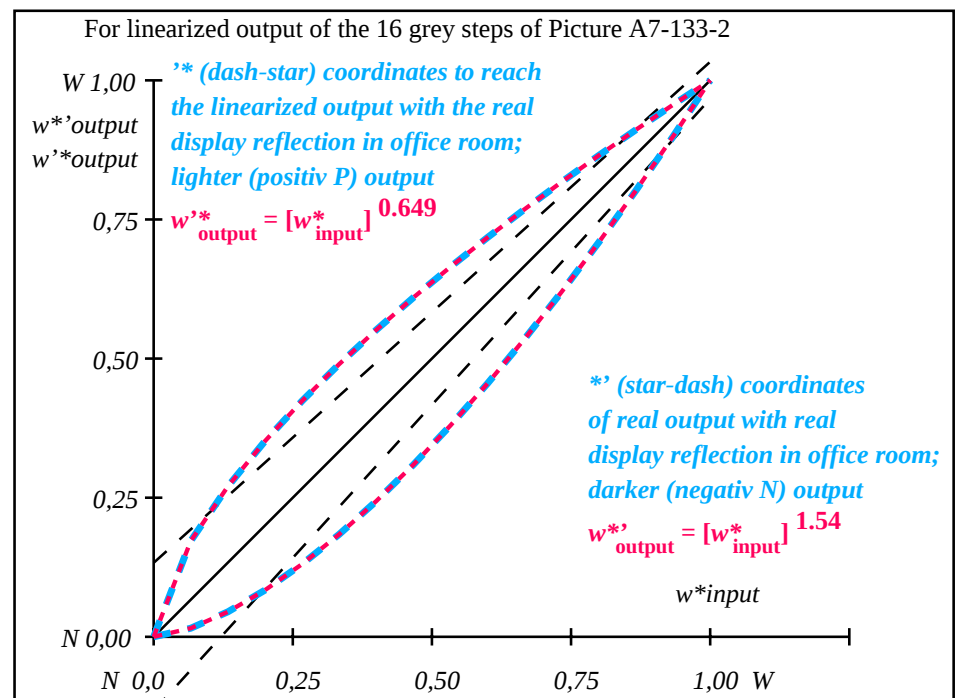
Start output S1
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

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

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

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

OE990-3A-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE991-3N-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y_{intended}$ (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
$w^*w^*w^*$ setrgb $g_P=0.78$ 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	0.123	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

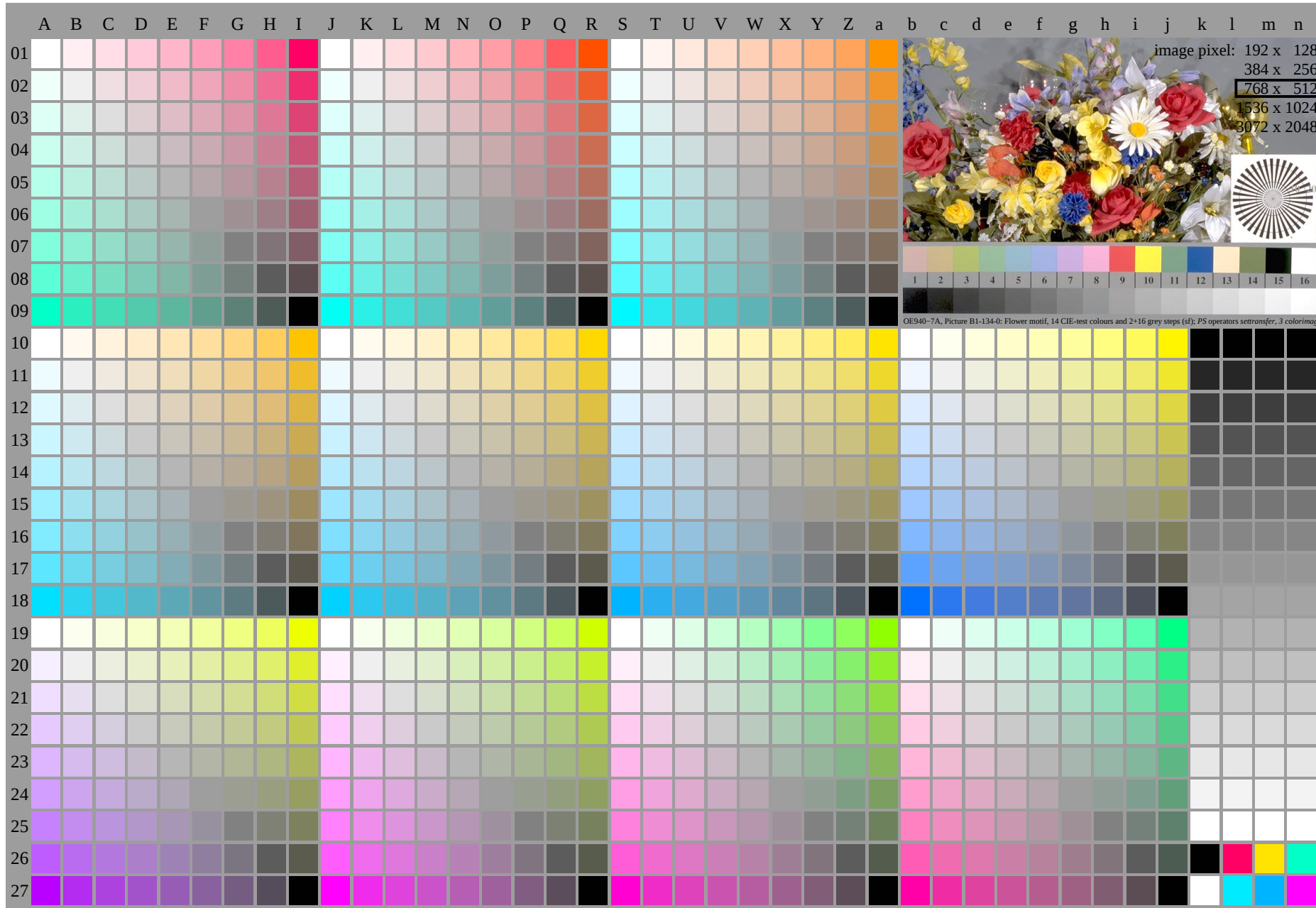
OE990-7N, Picture A7-133-2: 16 visual equidistant L^* -grey steps; PS operator: $w^*w^*w^*$ setrgbcolor

OE99: In-output relation according to ISO 9241-306; 1MR, DEH
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*de
output 133-2: $g_P=0.77$; $g_N=1.0$

TUB registration: 20110801-OE99/OE99L0NA.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



OE990-7N, Page 1/16, Test chart 2E with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb^*_{de} (A-n), colorm = 1, xchart = 4, pchart = 0

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DEH
Digital equidistant 9 or 16 step colour scales

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

TUB registration: 20110801-OE99/OE99L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=th4ta

F: Output Linearization (OL) data OE99/OE99L0NA.TXT /.PS in File (F)

TUB registration: 20110801-OE99/OE99L0NA.TXT /PS TUB material: code=rh4ta
application for output of displays: monitor systems or data projector systems

	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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 A02	0477 B02	0486 C02	0495 D02	0504 E02	0513 F02	0522 G02	0531 H02	0540 I02	0549 J02	0558 K02	0567 L02	0576 M02	0585 N02	0594 O02	0603 P02	0612 Q02	0621 R02	0630 S02	0639 T02	0648 U02	0657 V02	0666 W02	0675 X02	0684 Y02	0693 Z02	0702 A03	0711 B03	0720 C03	0729 D03	0738 E03	0747 F03	0756 G03	0765 H03	0774 I03	0783 J03	0792 K03	0801 L03	0810 M03	0819 N03	0828 O03	0837 P03	0846 Q03	0855 R03	0864 S03	0873 T03	0882 U03	0891 V03	0900 W03	0909 X03	0918 Y03	0927 Z03	0936 A04	0945 B04	0954 C04	0963 D04	0972 E04	0981 F04	0990 G04	0999 H04	1008 I04	1017 J04	1026 K04	1035 L04	1044 M04	1053 N04	1062 O04	1071 P04	1080 Q04	1089 R04	1098 S04	1107 T04	1116 U04	1125 V04	1134 W04	1143 X04	1152 Y04	1161 Z04	1170 A05	1179 B05	1188 C05	1197 D05	1206 E05	1215 F05	1224 G05	1233 H05	1242 I05	1251 J05	1260 K05	1269 L05	1278 M05	1287 N05	1296 O05	1305 P05	1314 Q05	1323 R05	1332 S05	1341 T05	1350 U05	1359 V05	1368 W05	1377 X05	1386 Y05	1395 Z05	1404 A06	1413 B06	1422 C06	1431 D06	1440 E06	1449 F06	1458 G06	1467 H06	1476 I06	1485 J06	1494 K06	1503 L06	1512 M06	1521 N06	1530 O06	1539 P06	1548 Q06	1557 R06	1566 S06	1575 T06	1584 U06	1593 V06	1602 W06	1611 X06	1620 Y06	1629 Z06	1638 A07	1647 B07	1656 C07	1665 D07	1674 E07	1683 F07	1692 G07	1701 H07	1710 I07	1719 J07	1728 K07	1737 L07	1746 M07	1755 N07	1764 O07	1773 P07	1782 Q07	1791 R07	1800 S07	1809 T07	1818 U07	1827 V07	1836 W07	1845 X07	1854 Y07	1863 Z07	1872 A08	1881 B08	1890 C08	1899 D08	1908 E08	1917 F08	1926 G08	1935 H08	1944 I08	1953 J08	1962 K08	1971 L08	1980 M08	1989 N08	1998 O08	2007 P08	2016 Q08	2025 R08	2034 S08	2043 T08	2052 U08	2061 V08	2070 W08	2079 X08	2088 Y08	2097 Z08	2106 A09	2115 B09	2124 C09	2133 D09	2142 E09	2151 F09	2160 G09	2169 H09	2178 I09	2187 J09	2196 K09	2205 L09	2214 M09	2223 N09	2232 O09	2241 P09	2250 Q09	2259 R09	2268 S09	2277 T09	2286 U09	2295 V09	2304 W09	2313 X09	2322 Y09	2331 Z09	2340 A10	2349 B10	2358 C10	2367 D10	2376 E10	2385 F10	2394 G10	2403 H10	2412 I10	2421 J10	2430 K10	2439 L10	2448 M10	2457 N10	2466 O10	2475 P10	2484 Q10	2493 R10	2502 S10	2511 T10	2520 U10	2529 V10	2538 W10	2547 X10	2556 Y10	2565 Z10	2574 A11	2583 B11	2592 C11	2601 D11	2610 E11	2619 F11	2628 G11	2637 H11	2646 I11	2655 J11	2664 K11	2673 L11	2682 M11	2691 N11	2700 O11	2709 P11	2718 Q11	2727 R11	2736 S11	2745 T11	2754 U11	2763 V11	2772 W11	2781 X11	2790 Y11	2800 Z11	2809 A12	2818 B12	2827 C12	2836 D12	2845 E12	2854 F12	2863 G12	2872 H12	2881 I12	2890 J12	2900 K12	2909 L12	2918 M12	2927 N12	2936 O12	2945 P12	2954 Q12	2963 R12	2972 S12	2981 T12	2990 U12	3000 V12	3009 W12	3018 X12	3027 Y12	3036 Z12	3045 A13	3054 B13	3063 C13	3072 D13	3081 E13	3090 F13	3099 G13	3108 H13	3117 I13	3126 J13	3135 K13	3144 L13	3153 M13	3162 N13	3171 O13	3180 P13	3189 Q13	3198 R13	3207 S13	3216 T13	3225 U13	3234 V13	3243 W13	3252 X13	3261 Y13	3270 Z13	3279 A14	3288 B14	3297 C14	3306 D14	3315 E14	3324 F14	3333 G14	3342 H14	3351 I14	3360 J14	3369 K14	3378 L14	3387 M14	3396 N14	3405 O14	3414 P14	3423 Q14	3432 R14	3441 S14	3450 T14	3459 U14	3468 V14	3477 W14	3486 X14	3495 Y14	3504 Z14	3513 A15	3522 B15	3531 C15	3540 D15	3549 E15	3558 F15	3567 G15	3576 H15	3585 I15	3594 J15	3603 K15	3612 L15	3621 M15	3630 N15	3639 O15	3648 P15	3657 Q15	3666 R15	3675 S15	3684 T15	3693 U15	3702 V15	3711 W15	3720 X15	3729 Y15	3738 Z15	3747 A16	3756 B16	3765 C16	3774 D16	3783 E16	3792 F16	3801 G16	3810 H16	3819 I16	3828 J16	3837 K16	3846 L16	3855 M16	3864 N16	3873 O16	3882 P16	3891 Q16	3900 R16	3909 S16	3918 T16	3927 U16	3936 V16	3945 W16	3954 X16	3963 Y16	3972 Z16	3981 A17	3990 B17	3999 C17	4008 D17	4017 E17	4026 F17	4035 G17	4044 H17	4053 I17	4062 J17	4071 K17	4080 L17	4089 M17	4098 N17	4107 O17	4116 P17	4125 Q17	4134 R17	4143 S17	4152 T17	4161 U17	4170 V17	4179 W17	4188 X17	4197 Y17	4206 Z17	4215 A18	4224 B18	4233 C18	4242 D18	4251 E18	4260 F18	4269 G18	4278 H18	4287 I18	4296 J18	4305 K18	4314 L18	4323 M18	4332 N18	4341 O18	4350 P18	4359 Q18	4368 R18	4377 S18	4386 T18	4395 U18	4404 V18	4413 W18	4422 X18	4431 Y18	4440 Z18	4449 A19	4458 B19	4467 C19	4476 D19	4485 E19	4494 F19	4503 G19	4512 H19	4521 I19	4530 J19	4539 K19	4548 L19	4557 M19	4566 N19	4575 O19	4584 P19	4593 Q19	4602 R19	4611 S19	4620 T19	4629 U19	4638 V19	4647 W19	4656 X19	4665 Y19	4674 Z19	4683 A20	4692 B20	4701 C20	4710 D20	4719 E20	4728 F20	4737 G20	4746 H20	4755 I20	4764 J20	4773 K20	4782 L20	4791 M20	4800 N20	4809 O20	4818 P20	4827 Q20	4836 R20	4845 S20	4854 T20	4863 U20	4872 V20	4881 W20	4890 X20	4900 Y20	4909 Z20	4918 A21	4927 B21	4936 C21	4945 D21	4954 E21	4963 F21	4972 G21	4981 H21	4990 I21	5000 J21	5009 K21	5018 L21	5027 M21	5036 N21	5045 O21	5054 P21	5063 Q21	5072 R21	5081 S21	5090 T21	5100 U21	5109 V21	5118 W21	5127 X21	5136 Y21	5145 Z21	5154 A22	5163 B22	5172 C22	5181 D22	5190 E22	5200 F22	5209 G22	5218 H22	5227 I22	5236 J22	5245 K22	5254 L22	5263 M22	5272 N22	5281 O22	5290 P22	5300 Q22	5309 R22	5318 S22	5327 T22	5336 U22	5345 V22	5354 W22	5363 X22	5372 Y22	5381 Z22	5390 A23	5400 B23	5409 C23	5418 D23	5427 E23	5436 F23	5445 G23	5454 H23	5463 I23	5472 J23	5481 K23	5490 L23	5500 M23	5509 N23	5518 O23	5527 P23	5536 Q23	5545 R23	5554 S23	5563 T23	5572 U23	5581 V23	5590 W23	5600 X23	5609 Y23	5618 Z23	5627 A24	5636 B24	5645 C24	5654 D24	5663 E24	5672 F24	5681 G24	5690 H24	5700 I24	5709 J24	5718 K24	5727 L24	5736 M24	5745 N24	5754 O24	5763 P24	5772 Q24	5781 R24	5790 S24	5800 T24	5809 U24	5818 V24	5827 W24	5836 X24	5845 Y24	5854 Z24	5863 A25	5872 B25	5881 C25	5890 D25	5900 E25	5909 F25	5918 G25	5927 H25	5936 I25	5945 J25	5954 K25	5963 L25	5972 M25	5981 N25	5990 O25	6000 P25	6009 Q25	6018 R25	6027 S25	6036 T25	6045 U25	6054 V25	6063 W25	6072 X25	6081 Y25	6090 Z25	6100 A26	6109 B26	6118 C26	6127 D26	6136 E26	6145 F26	6154 G26	6163 H26	6172 I26	6181 J26	6190 K26	6200 L26	6209 M26	6218 N26	6227 O26	6236 P26	6245 Q26	6254 R26	6263 S26	6272 T26	6281 U26	6290 V26	6300 W26	6309 X26	6318 Y26	6327 Z26	6336 A27	6345 B27	6354 C27	6363 D27	6372 E27	6381 F27	6390 G27	6400 H27	6409 I27	6418 J27	6427 K27	6436 L27	6445 M27	6454 N27	6463 O27	6472 P27	6481 Q27	6490 R27	6500 S27	6509 T27	6518 U27	6527 V27	6536 W27	6545 X27	6554 Y27	6563 Z27	6572 A28	6581 B28	6590 C28	6600 D28	6609 E28	6618 F28	6627 G28	6636 H28	6645 I28	6654 J28	6663 K28	6672 L28	6681 M28	6690 N28	6700 O28	6709 P28	6718 Q28	6727 R28	6736 S28	6745 T28	6754 U28	6763 V28	6772 W28	6781 X28	6790 Y28	6800 Z28	6809 A29	6818 B29	6827 C29	6836 D29	6845 E29	6854 F29	6863 G29	6872 H29	6881 I29	6890 J29	6900 K29	6909 L29	6918 M29	6927 N29	6936 O29	6945 P29	6954 Q29	6963 R29	6972 S29	6981 T29	6990 U29	7000 V29	7009 W29	7018 X29	7027 Y29	7036 Z29	7045 A30	7054 B30	7063 C30	7072 D30	7081 E30	7090 F30	7100 G30	7109 H30	7118 I30	7127 J30	7136 K30	7145 L30	7154 M30	7163 N30	7172 O30	7181 P30	7190 Q30	7200 R30	7209 S30	7218 T30	7227 U30	7236 V30	7245 W30	7254 X30	7263 Y30	7272 Z30	7281 A31	7290 B31	7300 C31	7309 D31	7318 E31	7327 F31	7336 G31	7345 H31	7354 I31	7363 J31	7372 K31	7381 L31	7390 M31	7400 N31	7409 O31	7418 P31	7427 Q31	7436 R31	7445 S31	7454 T31	7463 U31	7472 V31	7481 W31	7490 X31	7500 Y31	7509 Z31	7518 A32	7527 B32	7536 C32	7545 D32	7554 E32	7563 F32	7572 G32	7581 H32	7590 I32	7600 J32	7609 K32	7618 L32	7627 M32	7636 N32	7645 O32	7654 P32	7663 Q32	7672 R32	7681 S32	7690 T32	7700 U32	7709 V32	7718 W32	7727 X32	7736 Y32	7745 Z32	7754 A33	7763 B33	7772 C33	7781 D33	7790 E33	7800 F33	7809 G33	7818 H33	7827 I33	7836 J33	7845 K33	7854 L33	7863 M33	7872 N33	7881 O33	7890 P33	7900 Q33	7909 R33	7918 S33	7927 T33	7936 U33	7945 V33	7954 W33	7963 X33	7972 Y33	7981 Z33	7990 A34	8000 B34	8009 C34	8018 D34	8027 E34	8036 F34	8045 G34	8054 H34	8063 I34	8072 J34	8081 K34	8090 L34	8100 M34	8109 N34	8118 O34	8127 P34	8136 Q34	8145 R34	8154 S34	8163 T34	8172 U34	8181 V34	8190 W34	8200 X34	8209 Y34	8218 Z34	8227 A35	8236 B35	8245 C35	8254 D35	8263 E35	8272 F35	8281 G35	8290 H35	8300 I35	8309 J35	8318 K35	8327 L35	8336 M35	8345 N35	8354 O35	8363 P35	8372 Q35	8381 R35	8390 S35	8400 T35	8409 U35	8418 V35	8427 W35	8436 X35	8445 Y35	8454 Z35	8463 A36	8472 B36	8481 C36	8490 D36	8500 E36	8509 F36	8518 G36	8527 H36	8536 I36	8545 J36	8554 K36	8563 L36	8572 M36	8581 N36	8590 O36	8600 P36	8609 Q36	8618 R36	8627 S36	8636 T36	8645 U36	8654 V36	8663 W36	8672 X36	8681 Y36	8690 Z36	8700 A37	8709 B37	8718 C37	8727 D37	8736 E37	8745 F37	8754 G37	8763 H37	8772 I37	8781 J37	8790 K37	8800 L37	8809 M37	8818 N37	8827 O37	8836 P37	8845 Q37	8854 R37	8863 S37	8872 T37	8881 U37	8890 V37	8900 W37	8909 X37	8918 Y37	8927 Z37	8936 A38	8945 B38	8954 C38	8963 D38	8972 E38	8981 F38	8990 G38	9000 H38	9009 I38	9018 J38	9027 K38	9036 L38	9045 M38	9054 N38	9063 O38	9072 P38	9081 Q38	9090 R38	9100 S38	9109 T38	9118 U38	9127 V38	9136 W38	9145 X38	9154 Y38	9163 Z38

OE990-70, 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** (l), nnn0** (m), www** (n), colorm = 1, xchart = 4, pchart = 1

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DE
Digital equidistant 9 or 16 step colour scales

input: 000n/w/cmy0/rgb (->rgb)
output 134-1: $q_P=0.7$; $q_N=1.0$

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	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

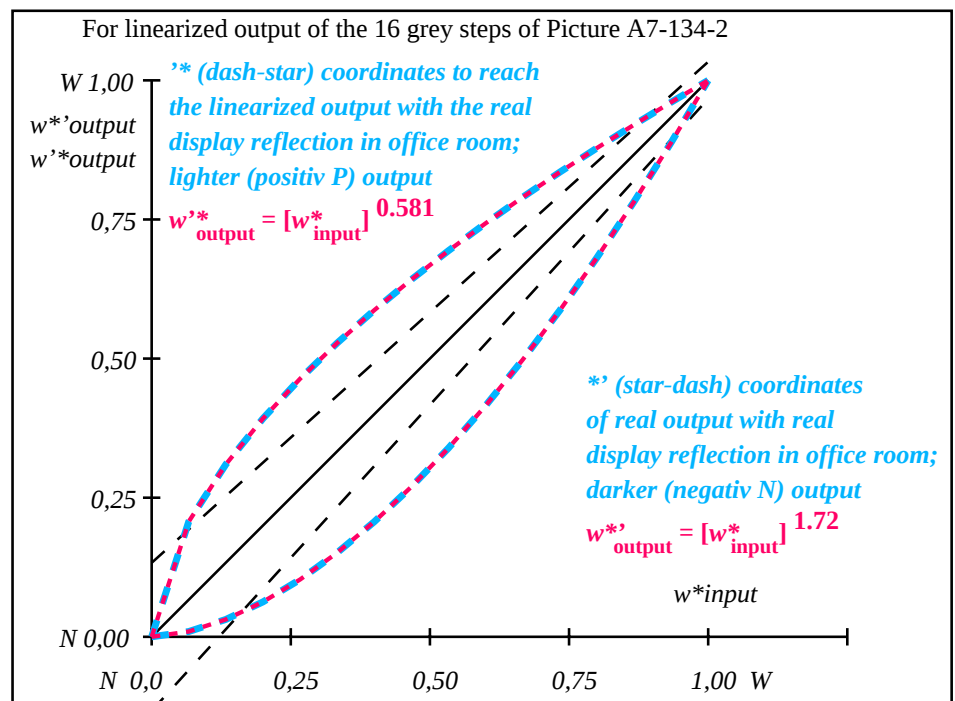
Start output S1
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

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

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

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

OE990-3A-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE991-3N-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

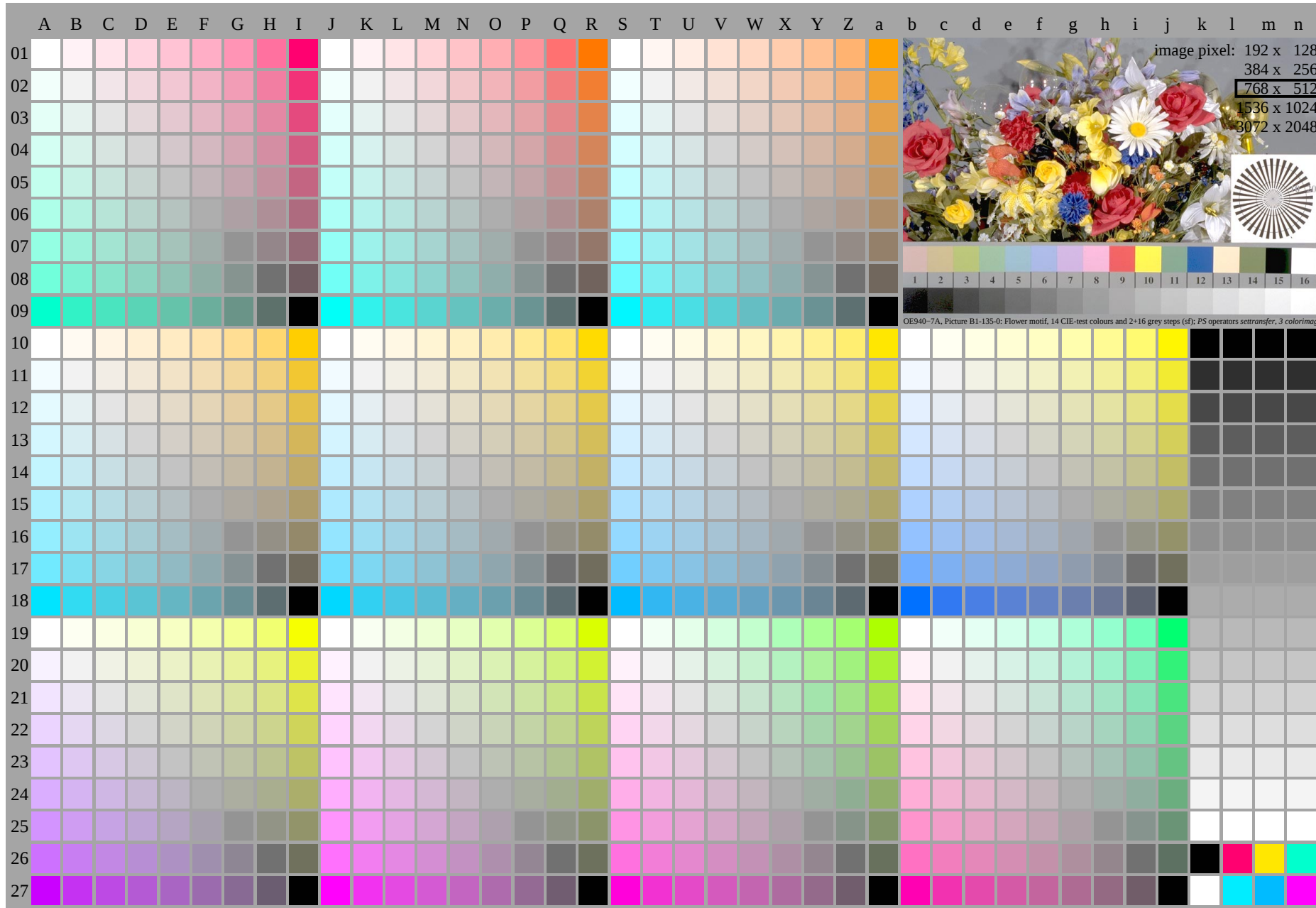
$L^*/Y_{intended}$ (absolute)	26.8/5.0	31.4/6.8	36.0/9.0	40.6/11.6	45.1/14.6	49.7/18.2	54.3/22.2	58.8/26.9	63.4/32.1	68.0/38.0	72.6/44.5	77.1/51.7	81.7/59.7	86.3/68.5	90.8/78.1	95.4/88.6
$w^* w^* w^*$ setrgb $g_P=0.7$ No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	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	0.151	0.244	0.324	0.397	0.463	0.527	0.587	0.644	0.699	0.753	0.805	0.855	0.905	0.953	1.0

OE990-7N, Picture A7-134-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* setrgbcolor$

OE99: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:5$; Y_N range 3,75 to <7,5

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

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



OE990-7N, Page 1/16, Test chart 2E with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb^*_{de} (A-n), colorm = 1, xchart = 5, pchart = 0

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DEH
Digital equidistant 9 or 16 step colour scales

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

TUB registration: 20110801-OE99/OE99L0NA.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 9.98	0.0 0.0 9.98	9.98
3	45.64 0.0 0.0	0.35 57.87 0.0	0.0 0.0 12.23	0.0 0.0 12.23	12.23
4	49.47 0.0 0.0	0.43 62.6 0.0	0.0 0.0 13.13	0.0 0.0 13.13	13.13
5	53.3 0.0 0.0	0.5 66.63 0.0	0.0 0.0 13.33	0.0 0.0 13.33	13.33
6	57.13 0.0 0.0	0.56 70.19 0.0	0.0 0.0 13.07	0.0 0.0 13.07	13.07
7	60.96 0.0 0.0	0.62 73.44 0.0	0.0 0.0 12.48	0.0 0.0 12.48	12.48
8	64.78 0.0 0.0	0.67 76.44 0.0	0.0 0.0 11.65	0.0 0.0 11.65	11.65
9	68.61 0.0 0.0	0.72 79.23 0.0	0.0 0.0 10.62	0.0 0.0 10.62	10.62
10	72.44 0.0 0.0	0.76 81.87 0.0	0.0 0.0 9.43	0.0 0.0 9.43	9.43
11	76.27 0.0 0.0	0.81 84.37 0.0	0.0 0.0 8.11	0.0 0.0 8.11	8.11
12	80.1 0.0 0.0	0.85 86.76 0.0	0.0 0.0 6.66	0.0 0.0 6.66	6.66
13	83.93 0.0 0.0	0.89 89.05 0.0	0.0 0.0 5.12	0.0 0.0 5.12	5.12
14	87.75 0.0 0.0	0.93 91.24 0.0	0.0 0.0 3.49	0.0 0.0 3.49	3.49
15	91.58 0.0 0.0	0.96 93.36 0.0	0.0 0.0 1.78	0.0 0.0 1.78	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 13.33	0.0 0.0 13.33	13.33
19	66.7 0.0 0.0	0.69 77.86 0.0	0.0 0.0 11.16	0.0 0.0 11.16	11.16
20	81.05 0.0 0.0	0.86 87.34 0.0	0.0 0.0 6.29	0.0 0.0 6.29	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

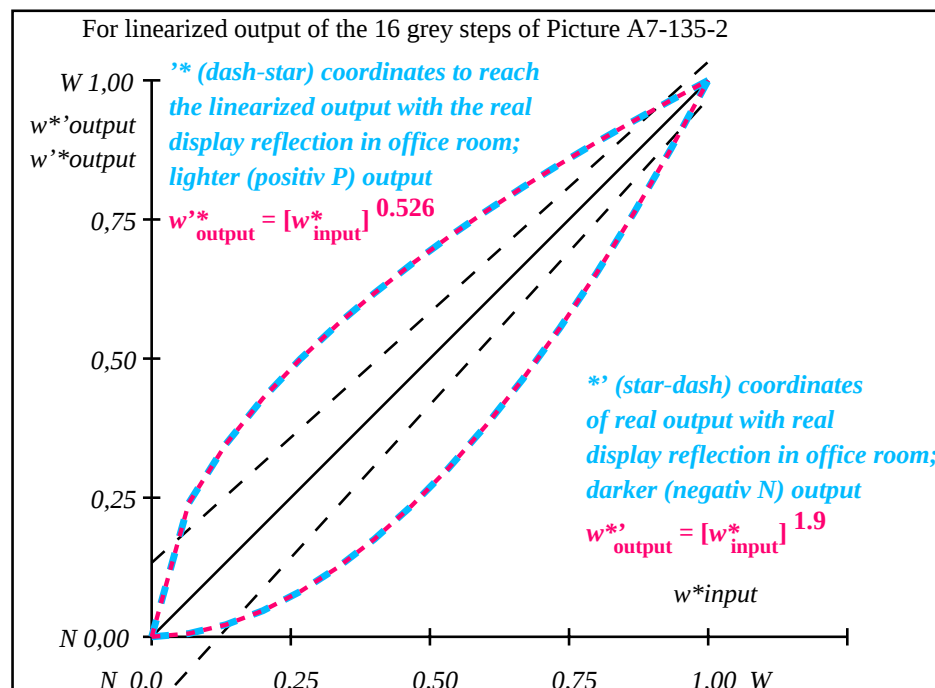
Start output S1
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

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

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

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

OE990-3A-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE991-3N-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y_{intended}$ (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
$w^* w^* w^*$ setrgb $g_P=0.63$ 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	0.185	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

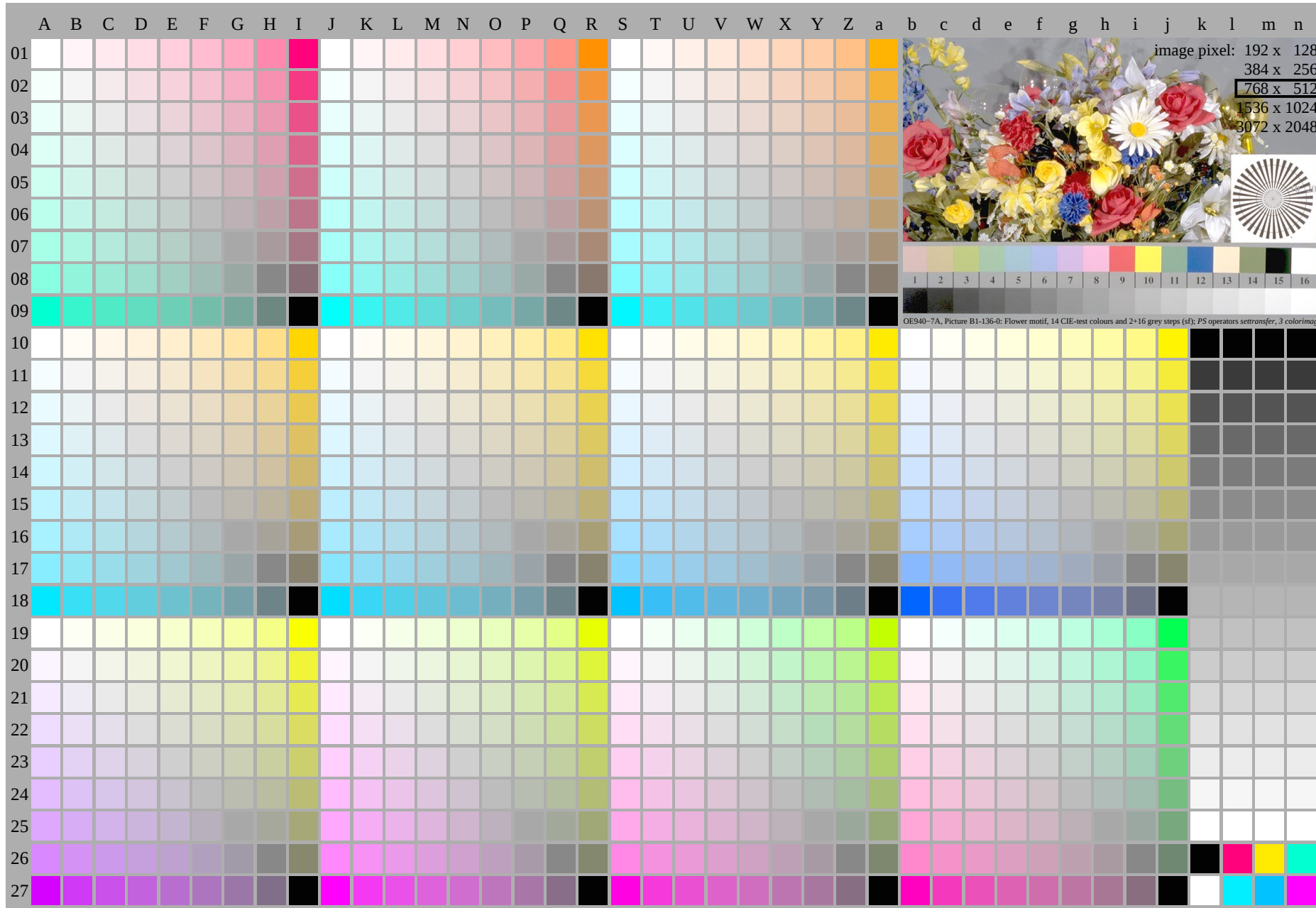
OE990-7N, Picture A7-135-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* setrgbcolor$

OE99: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:10$; Y_N range 7,5 to <15

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

TUB registration: 20110801-OE99/OE99L0NA.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



OE990-7N, Page 1/16, Test chart 2E with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb^*_{de} (A-n), colorm = 1, xchart = 6, pchart = 0

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DEH
Digital equidistant 9 or 16 step colour scales

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

TUB registration: 20110801-OE99/OE99L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=th4ta

TUB registration: 20110801-OE99/OE99L0NA.TXT /.PS TUB material: code=rha4ta
 application for output of displays: monitor systems or data projector systems

[illegible]

OE990-70, 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), i + k26 n27, 000n* (k), w** (l), nnn0* (m), www** (n), colorm = 1, xchart = 6, vchart = 1

OE99: Test chart 2E with 40x27=1080 colour
Digital equidistant 9 or 16 step colour scales

input: 000n/w/cmy0/rgb (->rgb*de
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

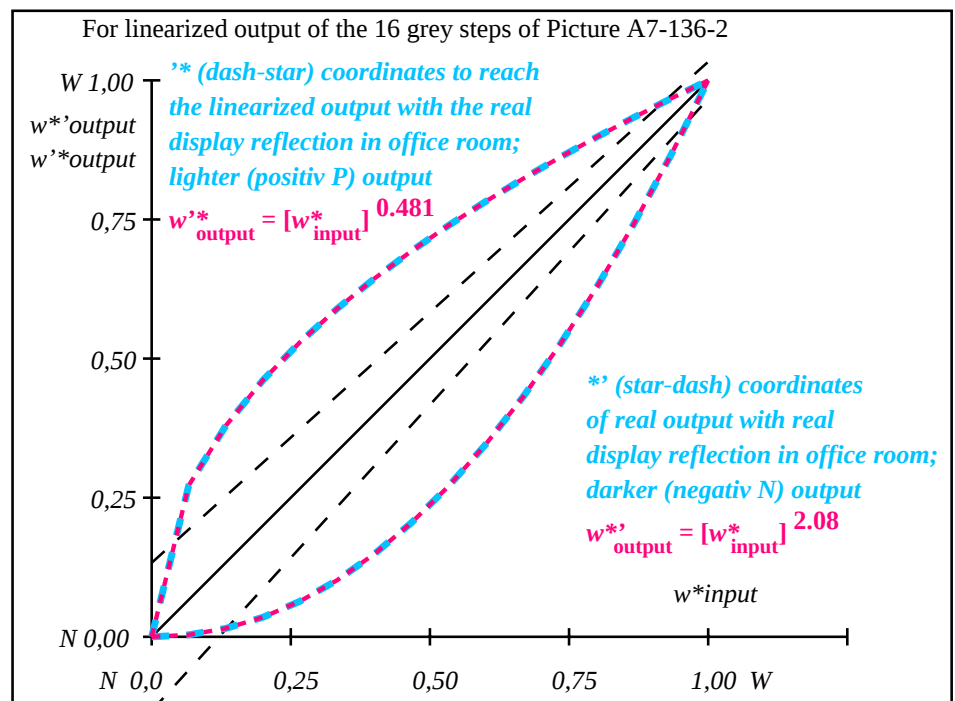
Start output S1
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

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

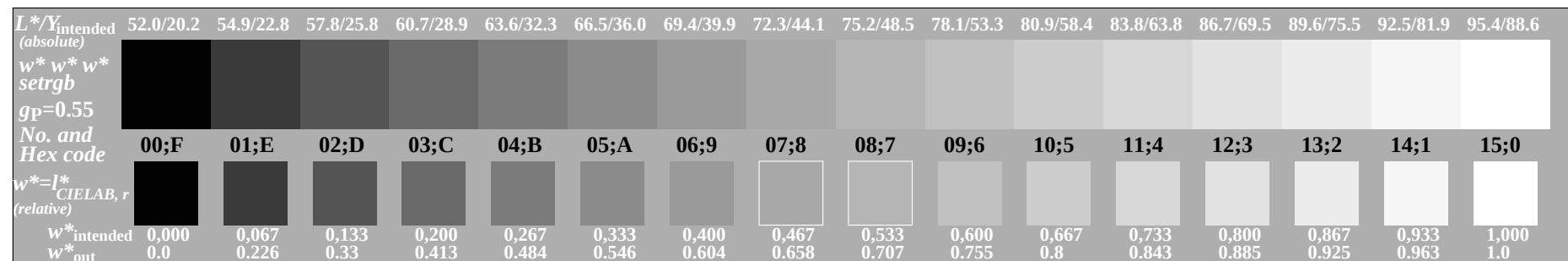
Mean lightness difference (5 steps)
 $\Delta L^*_{CIELAB} = 5.2$

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

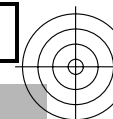
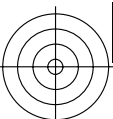
OE990-3A-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



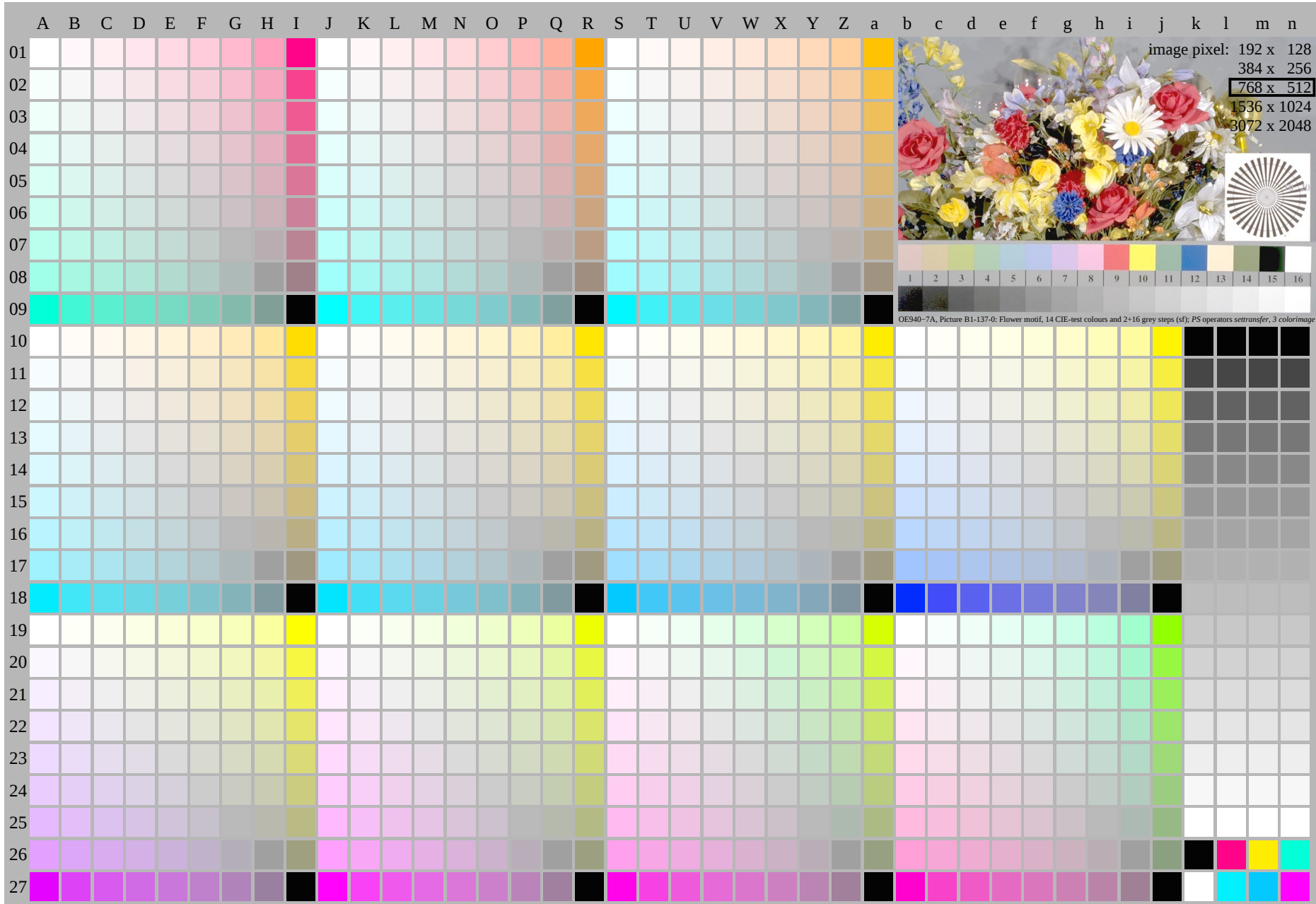
OE991-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE99: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:20$; Y_N range 15 to <30
input: 000n/w/cmy0/rgb (->rgb*de
output 136-2: $g_P=0.55$; $g_N=1.0$



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



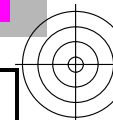
TUB registration: 20110801-OE99/OE99L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems

TUB material: code=th4ta

OE990-7N, Page 1/16, Test chart 2E 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 = 7, pchart = 0

OE99: Test chart 2E with 40x27=1080 colours; 1MR, DEH
Digital equidistant 9 or 16 step colour scales

input: 000n/w/cmy0/rgb (-> rgb^*_{de})
output 137-0: $g_P=0.47$; $g_N=1.0$



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

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

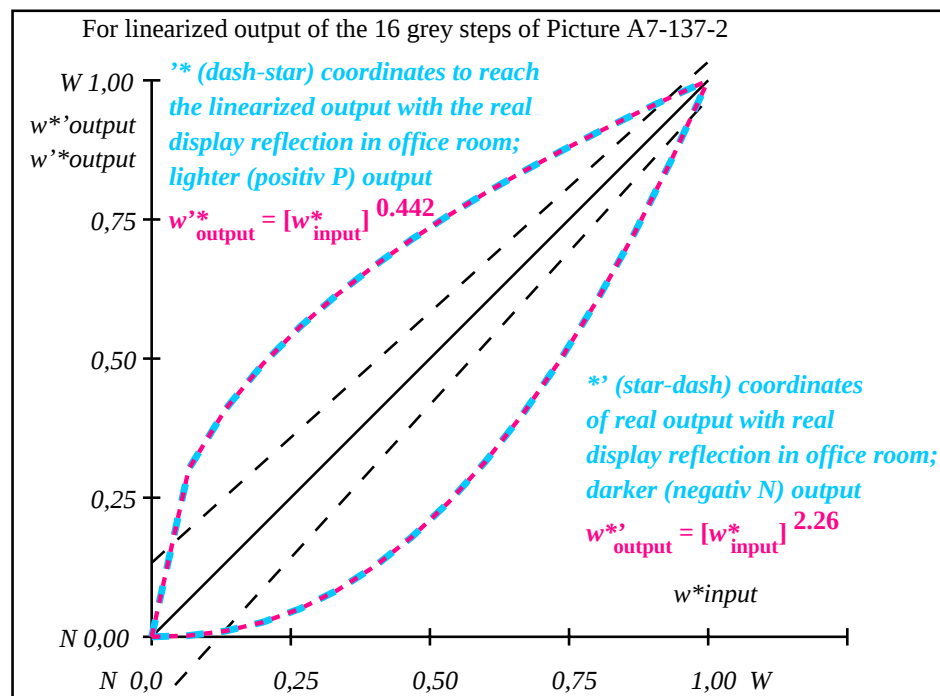
Start output S1
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

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

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

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

OE990-3A-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE991-3N-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y_{intended}$ (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
$w^* w^* w^*$ setrgb $g_P=0.48$ 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	0.277	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

OE990-7N, Picture A7-137-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*_{setrgbcolor}$

OE99: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:40$; Y_N range 30 to <60

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