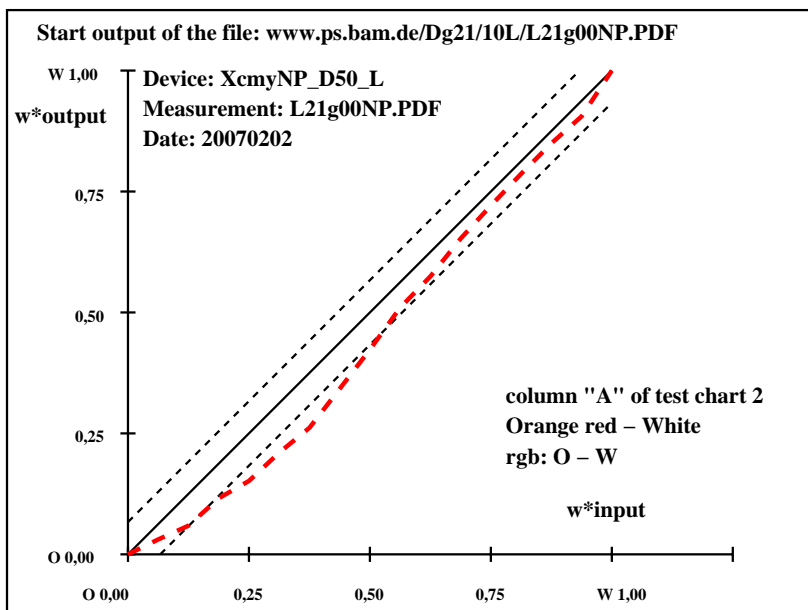


See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De.HTM](http://www.ps.bam.de/De.HTM)  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

T	i	LAB*a <sub>ref</sub>		hab <sub>ref</sub>	LAB*a <sub>out</sub>		hab <sub>out</sub>	LAB*a <sub>out/c-ref</sub> ΔH* ΔE*				Start output S1			
O	1	48.3	64.0	50.4	38	48.3	64.0	50.4	38	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	51.2	60.0	47.3	38	49.9	61.7	49.7	39	-1.2	1.7	2.5	3.0	3.3	ISO/IEC 15775:1999 Annex G
	3	54.1	56.0	44.1	38	51.2	59.7	48.4	39	-2.9	3.7	4.3	5.7	6.4	and DIN 33866-1:2000 Annex G
	4	57.1	52.0	41.0	38	53.2	56.4	44.4	38	-3.7	4.4	3.5	5.6	6.8	relative CIELAB data used for "out"
	5	60.0	48.0	37.8	38	54.8	54.1	42.5	38	-5.1	6.1	4.7	7.7	9.3	ΔL* = 95.23 – 48.25
	6	62.9	44.0	34.7	38	57.5	49.8	40.2	39	-5.4	5.8	5.5	8.0	9.7	Regularity
	7	65.9	40.0	31.5	38	59.9	45.7	38.8	40	-5.9	5.7	7.3	9.3	11.0	g* = 40.8
	8	68.8	36.0	28.4	38	63.9	39.2	37.2	44	-4.8	3.2	8.9	9.4	10.6	
	9	71.7	32.0	25.2	38	67.3	32.7	34.9	47	-4.3	0.7	9.7	9.7	10.7	Lightness gamut relative to offset
	10	74.7	28.0	22.1	38	71.1	25.4	33.5	53	-3.4	-2.5	11.4	11.7	12.3	f* = 60.7
	11	77.6	24.0	18.9	38	73.2	19.8	31.9	58	-4.3	-4.1	13.0	13.7	14.4	
	12	80.5	20.0	15.8	38	76.4	13.8	29.1	65	-4.0	-6.1	13.4	14.7	15.3	Orange red – White
	13	83.5	16.0	12.6	38	79.2	10.5	22.5	65	-4.2	-5.4	9.9	11.3	12.1	rgb: O – W
	14	86.4	12.0	9.5	38	82.1	7.5	16.8	66	-4.2	-4.4	7.3	8.6	9.6	
	15	89.4	8.0	6.3	38	85.4	4.2	12.6	72	-3.9	-3.7	6.3	7.4	8.4	Mean CIELAB difference (17 steps)
	16	92.3	4.0	3.2	38	88.4	3.7	5.7	57	-3.8	-0.2	2.5	2.6	4.7	ΔH* <sup>CIELAB</sup> = 7.6
W	17	95.2	0.0	0.0	0	95.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	ΔE* <sup>CIELAB</sup> = 8.5
O	18	48.3	64.0	50.4	38	48.3	64.0	50.4	38	0.0	0.0	0.0	0.0	0.0	
	19	60.0	48.0	37.8	38	54.8	54.1	42.5	38	-5.1	6.1	4.7	7.7	9.3	
	20	71.7	32.0	25.2	38	67.3	32.7	34.9	47	-4.3	0.7	9.7	9.7	10.7	Mean CIELAB difference (5 steps)
	21	83.5	16.0	12.6	38	79.2	10.5	22.5	65	-4.2	-5.4	9.9	11.3	12.1	ΔH* <sup>CIELAB</sup> = 5.8
W	22	95.2	0.0	0.0	0	95.2	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	ΔE* <sup>CIELAB</sup> = 6.4
Mean colour reproduction index:															
R* <sub>ab,m</sub> = 63															

De190-3N.; Device: XcmyNP D50 L; Measurement: L21g00NP.PDF; Date: 20070202

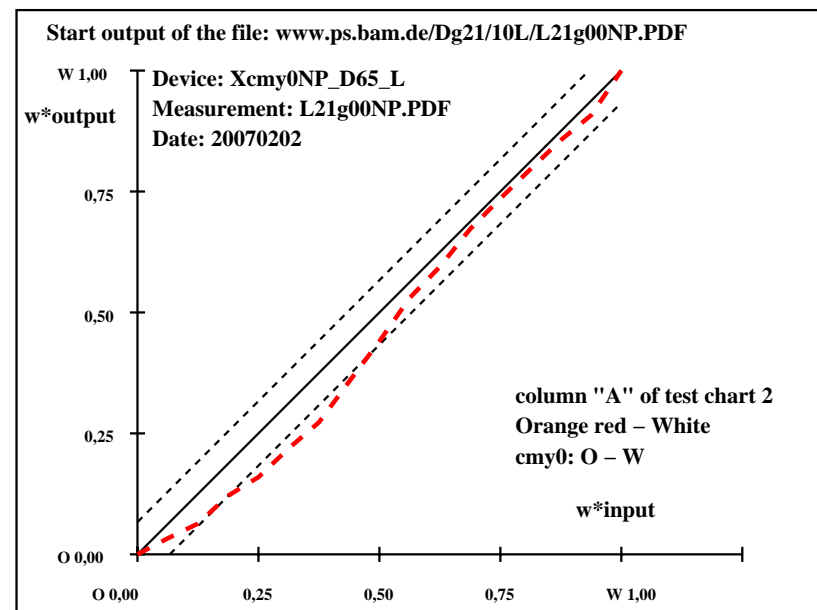


Del90-7N.; Device: XcmyNP\_D50 L; Measurement: L2lg00NP.PDF; Date: 20070202

Output specification of the test chart 2 according to DIN 33872-1  
17 step colour scale "A"; D50 and D65 illuminant, Page 1/24

T	i	LAB*a <sub>ref</sub>		hab <sub>ref</sub>	LAB*a <sub>out</sub>		hab <sub>out</sub>	LAB*a <sub>out</sub> /c-ref				$\Delta H^*$	$\Delta E^*$	Start output S1	
O	1	46.3	60.1	47.0	38	46.3	60.1	47.0	38	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	49.4	56.3	44.1	38	48.0	57.7	46.4	39	-1.3	1.4	2.3	2.7	3.0	ISO/IEC 15775:1999 Annex G
	3	52.4	52.6	41.1	38	49.4	55.6	45.1	39	-3.0	3.0	4.0	5.0	5.9	and DIN 33866-1:2000 Annex G
	4	55.5	48.8	38.2	38	51.6	52.3	41.3	38	-3.8	3.5	3.1	4.7	6.1	relative CIELAB data used for "out"
	5	58.6	45.1	35.3	38	53.2	49.9	39.4	38	-5.2	4.8	4.2	6.4	8.3	$\Delta L^* = 95.3 - 46.32$
	6	61.6	41.3	32.3	38	56.0	45.6	37.5	39	-5.5	4.3	5.2	6.7	8.8	Regularity
	7	64.7	37.6	29.4	38	58.5	41.5	36.2	41	-6.0	3.9	6.8	7.9	10.0	$g^* = 41.7$
	8	67.7	33.8	26.4	38	62.8	34.9	35.0	45	-4.9	1.1	8.6	8.6	10.0	
	9	70.8	30.1	23.5	38	66.3	28.5	33.0	49	-4.4	-1.4	9.5	9.6	10.6	Lightness gamut relative to offset
	10	73.9	26.3	20.6	38	70.3	21.3	31.9	56	-3.5	-4.9	11.3	12.4	12.9	$f^* = 63.3$
11	76.9	22.5	17.6	38	72.5	15.9	30.7	63	-4.3	-6.5	13.1	14.7	15.3		
12	80.0	18.8	14.7	38	75.9	10.2	28.2	70	-4.0	-8.5	13.5	16.0	16.5	Orange red – White	
13	83.1	15.0	11.8	38	78.8	7.6	21.7	71	-4.2	-7.3	10.0	12.4	13.1	cmY0: O – W	
14	86.1	11.3	8.8	38	81.9	5.3	16.2	72	-4.2	-5.9	7.4	9.5	10.4		
15	89.2	7.5	5.9	38	85.2	2.6	12.2	78	-3.9	-4.8	6.3	8.0	8.9	Mean CIELAB difference (17 steps)	
16	92.2	3.8	2.9	38	88.3	2.8	5.5	63	-3.8	-0.9	2.6	2.7	4.8	$\Delta H^*_{CIELAB} = 7.5$	
W	17	95.3	0.0	0.0	0	95.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 8.5$
O	18	46.3	60.1	47.0	38	46.3	60.1	47.0	38	0.0	0.0	0.0	0.0	0.0	
	19	58.6	45.1	35.3	38	53.2	49.9	39.4	38	-5.2	4.8	4.2	6.4	8.3	
	20	70.8	30.1	23.5	38	66.3	28.5	33.0	49	-4.4	-1.4	9.5	9.6	10.6	Mean CIELAB difference (5 steps)
21	83.1	15.0	11.8	38	78.8	7.6	21.7	71	-4.2	-7.3	10.0	12.4	13.1	$\Delta H^*_{CIELAB} = 5.7$	
W	22	95.3	0.0	0.0	0	95.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 6.4$
Mean colour reproduction index:															$R^*_{ab,m} = 63$

Del91-3N.; Device: Xcmv0NP D65 L; Measurement: L21g00NP.PDF; Date: 20070202



Del91-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

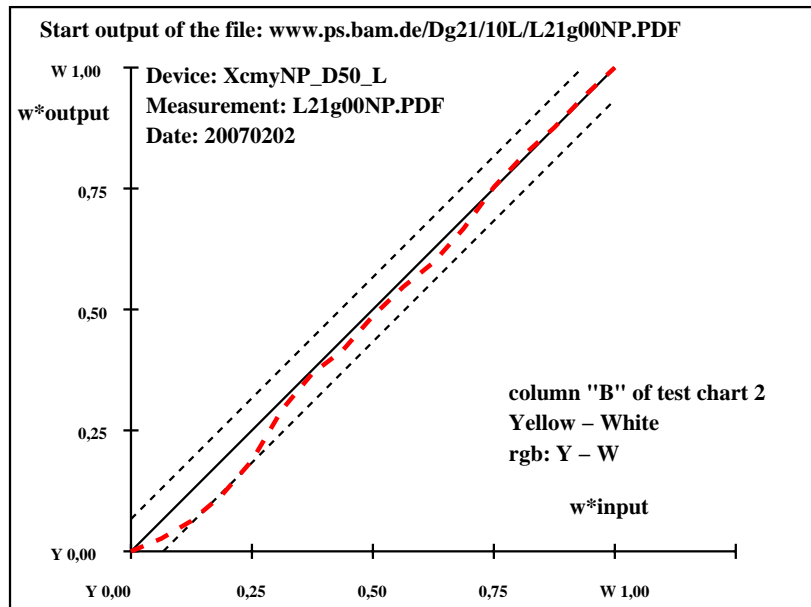
input: *cmy0 setcmykcolor*  
output: no change compared to input

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1									
Y	1	91.3	-9.6	111.3	95	91.3	-9.6	111.3	95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	91.6	-9.0	104.4	95	91.4	-10.0	108.4	95	-0.1	-0.9	4.0	4.2	4.2				
	3	91.8	-8.4	97.4	95	91.6	-10.1	104.3	96	-0.1	-1.6	6.9	7.1	7.1				
	4	92.1	-7.8	90.5	95	91.6	-10.3	98.4	96	-0.4	-2.4	7.9	8.3	8.3				
	5	92.3	-7.2	83.6	95	91.8	-10.2	90.4	97	-0.4	-2.9	6.8	7.5	7.5				
	6	92.6	-6.6	76.6	95	92.3	-9.9	78.6	97	-0.2	-3.2	2.0	3.9	3.9				
	7	92.8	-6.0	69.7	95	92.4	-9.4	70.3	98	-0.3	-3.3	0.6	3.5	3.5				
	8	93.1	-5.4	62.7	95	92.6	-9.3	65.0	98	-0.4	-3.8	2.3	4.5	4.6				
	9	93.3	-4.8	55.8	95	93.0	-8.7	57.1	99	-0.2	-3.9	1.3	4.2	4.2				
	10	93.6	-4.1	48.9	95	93.1	-8.2	50.4	99	-0.3	-4.0	1.5	4.3	4.4				
	11	93.8	-3.5	41.9	95	93.4	-7.7	44.8	100	-0.4	-4.1	2.9	5.1	5.1				
	12	94.1	-2.9	35.0	95	93.8	-6.9	37.0	101	-0.2	-3.9	2.0	4.4	4.5				
	13	94.4	-2.3	28.1	95	94.1	-5.5	27.5	102	-0.1	-3.1	-0.5	3.2	3.2				
	14	94.6	-1.7	21.1	95	94.4	-4.2	20.1	102	-0.1	-2.4	-0.9	2.7	2.7				
	15	94.9	-1.1	14.2	95	94.8	-3.0	13.9	103	0.0	-1.8	-0.2	1.9	1.9				
	16	95.1	-0.5	7.2	95	95.1	-1.5	6.7	103	0.0	-0.9	-0.4	1.1	1.1				
W	17	95.4	0.0	0.3	90	95.4	0.0	0.3	90	0.0	0.0	0.0	0.0	0.0				
Y	18	91.3	-9.6	111.3	95	91.3	-9.6	111.3	95	0.0	0.0	0.0	0.0	0.0				
	19	92.3	-7.2	83.6	95	91.8	-10.2	90.4	97	-0.4	-2.9	6.8	7.5	7.5				
	20	93.3	-4.8	55.8	95	93.0	-8.7	57.1	99	-0.2	-3.9	1.3	4.2	4.2				
	21	94.4	-2.3	28.1	95	94.1	-5.5	27.5	102	-0.1	-3.1	-0.5	3.2	3.2				
W	22	95.4	0.0	0.3	90	95.4	0.0	0.3	90	0.0	0.0	0.0	0.0	0.0				
Mean colour reproduction index:										$R^*_{ab,m} = 83$								

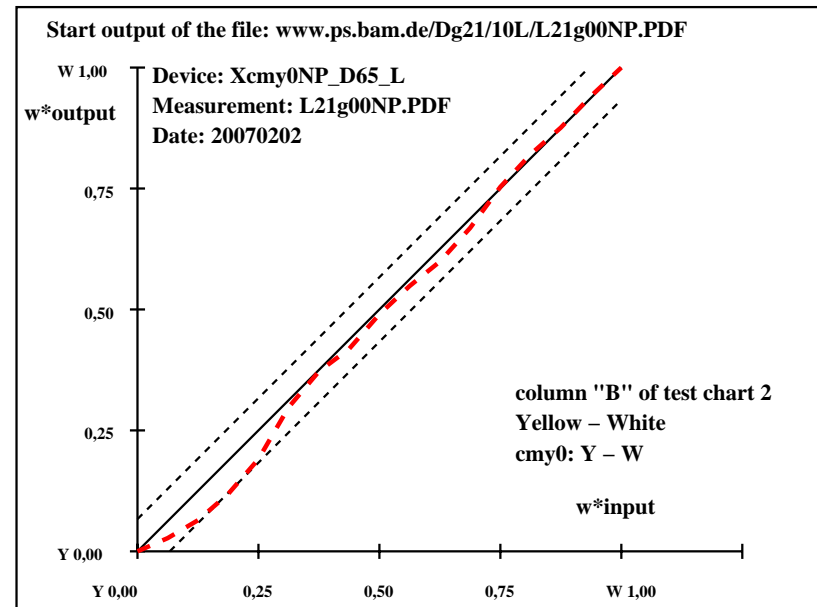
De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1									
Y	1	90.7	-16.8	112.8	99	90.7	-16.8	112.8	99	0.0	0.0	0.0	0.0	0.0				
	2	91.0	-15.7	105.8	99	90.8	-17.1	109.7	99	-0.1	-1.3	3.9	4.2	4.2				
	3	91.3	-14.7	98.7	99	91.0	-17.2	105.5	99	-0.1	-2.4	6.8	7.2	7.2				
	4	91.6	-13.6	91.7	99	91.0	-17.3	99.3	100	-0.5	-3.6	7.6	8.4	8.5				
	5	91.9	-12.6	84.7	99	91.3	-17.0	91.1	101	-0.4	-4.3	6.4	7.8	7.8				
	6	92.2	-11.5	77.6	99	91.8	-16.2	78.9	102	-0.3	-4.6	1.3	4.8	4.9				
	7	92.5	-10.5	70.6	99	92.0	-15.4	70.5	102	-0.4	-4.8	0.0	4.9	5.0				
	8	92.8	-9.4	63.6	99	92.2	-14.9	65.2	103	-0.5	-5.4	1.6	5.7	5.8				
	9	93.1	-8.4	56.6	98	92.6	-13.9	57.1	104	-0.3	-5.5	0.5	5.6	5.6				
	10	93.4	-7.3	49.5	98	92.8	-13.0	50.5	105	-0.4	-5.6	1.0	5.8	5.8				
	11	93.6	-6.2	42.5	98	93.1	-12.1	44.8	105	-0.5	-5.8	2.3	6.3	6.3				
	12	93.9	-5.2	35.5	98	93.6	-10.6	37.0	106	-0.3	-5.3	1.5	5.6	5.6				
	13	94.2	-4.1	28.4	98	94.0	-8.4	27.5	107	-0.2	-4.2	-0.8	4.4	4.4				
	14	94.5	-3.1	21.4	98	94.3	-6.4	20.0	108	-0.2	-3.2	-1.3	3.6	3.6				
	15	94.8	-2.0	14.4	98	94.7	-4.6	13.9	109	0.0	-2.5	-0.4	2.6	2.6				
	16	95.1	-1.0	7.3	98	95.1	-2.3	6.7	110	0.0	-1.2	-0.5	1.5	1.5				
W	17	95.4	0.0	0.3	90	95.4	0.0	0.3	90	0.0	0.0	0.0	0.0	0.0				
Y	18	90.7	-16.8	112.8	99	90.7	-16.8	112.8	99	0.0	0.0	0.0	0.0	0.0				
	19	91.9	-12.6	84.7	99	91.3	-17.0	91.1	101	-0.4	-4.3	6.4	7.8	7.8				
	20	93.1	-8.4	56.6	98	92.6	-13.9	57.1	104	-0.3	-5.5	0.5	5.6	5.6				
	21	94.2	-4.1	28.4	98	94.0	-8.4	27.5	107	-0.2	-4.2	-0.8	4.4	4.4				
W	22	95.4	0.0	0.3	90	95.4	0.0	0.3	90	0.0	0.0	0.0	0.0	0.0				
Mean colour reproduction index:										$R^*_{ab,m} = 80$								

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

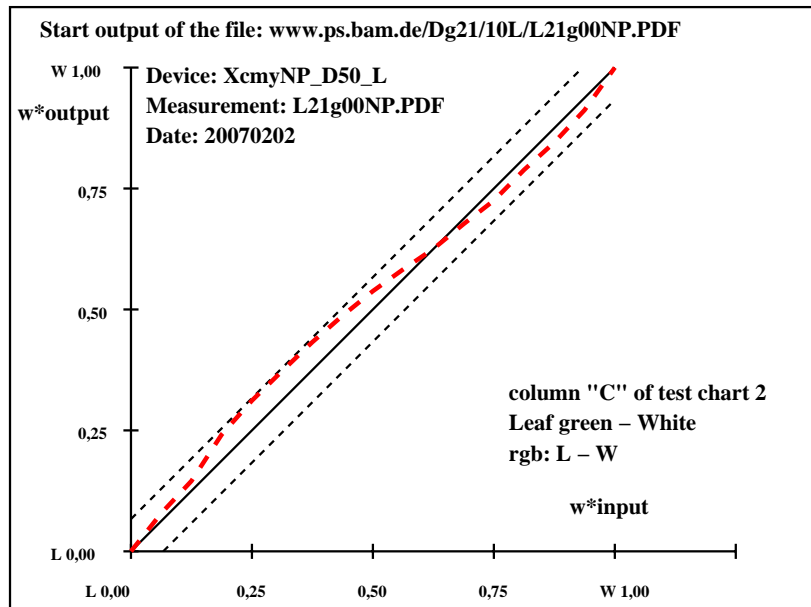
See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De19/10L/L19E02NP.PS/.PDF](http://www.ps.bam.de/De19/10L/L19E02NP.PS/.PDF)  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1						
L	1	48.1	-60.6	30.3	153	48.1	-60.6	30.3	153	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	51.0	-56.8	28.4	153	50.8	-55.0	28.4	153	-0.2	1.8	0.0	1.8	1.8	ISO/IEC 15775:1999 Annex G
	3	54.0	-53.0	26.5	153	53.2	-51.0	25.2	154	-0.7	2.0	-1.2	2.4	2.5	and DIN 33866-1:2000 Annex G
	4	56.9	-49.2	24.6	153	54.7	-45.6	18.9	158	-2.2	3.6	-5.6	6.8	7.1	relative CIELAB data used for "out"
	5	59.9	-45.4	22.7	153	57.5	-39.9	18.2	156	-2.3	5.5	-4.4	7.1	7.5	$\Delta L^* = 95.31 - 48.06$
	6	62.8	-41.6	20.8	153	59.5	-35.7	16.2	156	-3.2	5.9	-4.5	7.5	8.2	Regularity
	7	65.8	-37.8	18.9	153	61.5	-30.6	16.2	152	-4.2	7.2	-2.6	7.7	8.8	$g^* = 63.5$
	8	68.7	-34.0	17.0	153	64.1	-26.2	16.8	147	-4.5	7.8	-0.1	7.8	9.1	
	9	71.7	-30.3	15.2	153	66.9	-22.8	16.3	145	-4.7	7.5	1.1	7.5	9.0	Lightness gamut relative to offset
	10	74.6	-26.5	13.3	153	69.7	-19.9	16.2	141	-4.9	6.6	2.9	7.2	8.7	$f^* = 61.0$
	11	77.6	-22.7	11.4	153	72.8	-17.1	17.4	135	-4.7	5.6	6.0	8.2	9.5	
	12	80.5	-18.9	9.5	153	76.0	-15.2	13.4	139	-4.4	3.7	3.9	5.4	7.0	Leaf green – White
	13	83.5	-15.1	7.6	153	80.6	-13.9	11.4	141	-2.8	1.2	3.8	4.0	5.0	rgb: L – W
	14	86.5	-11.3	5.7	153	84.1	-10.8	8.5	142	-2.3	0.5	2.8	2.9	3.7	
	15	89.4	-7.5	3.8	153	87.3	-8.0	6.3	142	-2.0	-0.4	2.5	2.6	3.3	Mean CIELAB difference (17 steps)
	16	92.4	-3.7	1.9	153	90.0	-4.8	1.8	160	-2.2	-1.0	0.0	1.1	2.6	$\Delta H^{*CIELAB} = 4.7$
W	17	95.3	0.0	0.0	0	95.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 5.5$
L	18	48.1	-60.6	30.3	153	48.1	-60.6	30.3	153	0.0	0.0	0.0	0.0	0.0	
	19	59.9	-45.4	22.7	153	57.5	-39.9	18.2	156	-2.3	5.5	-4.4	7.1	7.5	
	20	71.7	-30.3	15.2	153	66.9	-22.8	16.3	145	-4.7	7.5	1.1	7.5	9.0	Mean CIELAB difference (5 steps)
	21	83.5	-15.1	7.6	153	80.6	-13.9	11.4	141	-2.8	1.2	3.8	4.0	5.0	$\Delta H^{*CIELAB} = 3.7$
W	22	95.3	0.0	0.0	0	95.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 4.3$
Mean colour reproduction index:										$R^*_{ab,m} = 76$					

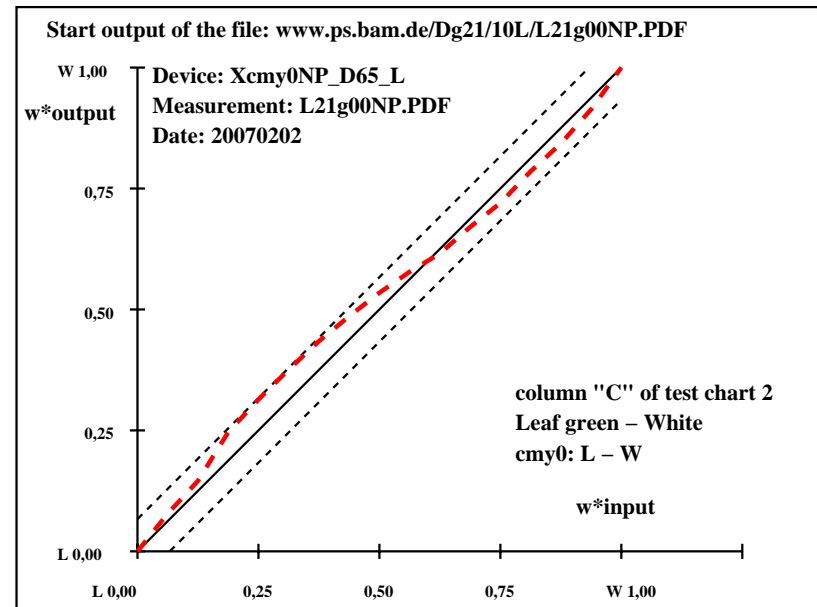
De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1						
L	1	48.9	-63.5	33.0	153	48.9	-63.5	33.0	153	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	51.8	-59.5	30.9	153	51.5	-57.8	30.8	152	-0.2	1.7	0.0	1.7	1.8	ISO/IEC 15775:1999 Annex G
	3	54.7	-55.6	28.9	153	54.0	-53.6	27.4	153	-0.7	1.9	-1.4	2.4	2.6	and DIN 33866-1:2000 Annex G
	4	57.6	-51.6	26.8	153	55.4	-47.5	21.0	156	-2.1	4.1	-5.7	7.1	7.4	relative CIELAB data used for "out"
	5	60.5	-47.6	24.8	153	58.2	-41.9	20.1	154	-2.3	5.7	-4.5	7.4	7.7	$\Delta L^* = 95.38 - 48.9$
	6	63.4	-43.6	22.7	153	60.1	-37.5	17.9	155	-3.2	6.1	-4.7	7.8	8.4	Regularity
	7	66.3	-39.7	20.6	153	62.0	-32.4	17.6	152	-4.2	7.3	-2.9	7.9	9.0	$g^* = 62.1$
	8	69.2	-35.7	18.6	153	64.5	-28.1	18.0	147	-4.6	7.6	-0.5	7.6	8.9	
	9	72.1	-31.7	16.5	153	67.2	-24.7	17.4	145	-4.8	7.0	0.9	7.1	8.6	Lightness gamut relative to offset
	10	75.0	-27.7	14.4	153	70.0	-21.8	17.1	142	-5.0	5.9	2.7	6.5	8.3	$f^* = 60.1$
	11	78.0	-23.7	12.4	153	73.1	-19.2	18.2	137	-4.8	4.5	5.8	7.4	8.9	
	12	80.9	-19.8	10.3	153	76.3	-16.9	14.1	140	-4.5	2.9	3.8	4.8	6.6	Leaf green – White
	13	83.8	-15.8	8.3	153	80.8	-15.3	12.0	142	-2.9	0.5	3.8	3.8	4.8	cmy0: L – W
	14	86.7	-11.8	6.2	153	84.3	-11.8	9.0	143	-2.3	0.0	2.8	2.8	3.7	
	15	89.6	-7.9	4.1	153	87.5	-8.7	6.7	143	-2.0	-0.7	2.6	2.7	3.4	Mean CIELAB difference (17 steps)
	16	92.5	-3.9	2.1	153	90.2	-5.0	2.0	159	-2.2	-1.0	0.0	1.1	2.6	$\Delta H^{*CIELAB} = 4.6$
W	17	95.4	0.0	0.0	0	95.4	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 5.5$
L	18	48.9	-63.5	33.0	153	48.9	-63.5	33.0	153	0.0	0.0	0.0	0.0	0.0	
	19	60.5	-47.6	24.8	153	58.2	-41.9	20.1	154	-2.3	5.7	-4.5	7.4	7.7	
	20	72.1	-31.7	16.5	153	67.2	-24.7	17.4	145	-4.8	7.0	0.9	7.1	8.6	Mean CIELAB difference (5 steps)
	21	83.8	-15.8	8.3	153	80.8	-15.3	12.0	142	-2.9	0.5	3.8	3.8	4.8	$\Delta H^{*CIELAB} = 3.6$
	W	22	95.4	0.0	0.0	0	95.4	0.0	0.0	0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 4.2$
Mean colour reproduction index:										$R^*_{ab,m} = 76$					

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De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	
C	1	54.1	-27.7	-44.4	238	54.1	-27.7	-44.4	238
	2	56.6	-26.0	-41.6	238	55.2	-27.7	-41.9	236
	3	59.2	-24.2	-38.8	238	56.7	-27.3	-39.6	235
	4	61.8	-22.5	-36.1	238	58.7	-27.2	-36.2	233
	5	64.4	-20.7	-33.3	238	60.1	-25.5	-34.2	233
	6	67.0	-19.0	-30.5	238	62.1	-23.2	-31.6	234
	7	69.5	-17.3	-27.7	238	64.9	-20.7	-28.0	233
	8	72.1	-15.5	-24.9	238	68.7	-19.4	-24.5	232
	9	74.7	-13.8	-22.2	238	71.8	-16.8	-20.6	231
	10	77.3	-12.1	-19.4	238	76.6	-14.9	-16.5	228
	11	79.9	-10.3	-16.6	238	79.6	-12.4	-14.7	230
	12	82.4	-8.6	-13.8	238	81.4	-10.6	-12.8	230
	13	85.0	-6.9	-11.0	238	83.5	-8.5	-11.0	232
	14	87.6	-5.1	-8.2	238	85.6	-6.5	-8.7	233
	15	90.2	-3.4	-5.5	238	88.5	-4.5	-6.3	234
	16	92.8	-1.6	-2.7	238	90.6	-2.7	-3.7	234
W	17	95.4	0.0	0.0	0	95.4	0.0	0.0	0
C	18	54.1	-27.7	-44.4	238	54.1	-27.7	-44.4	238
	19	64.4	-20.7	-33.3	238	60.1	-25.5	-34.2	233
	20	74.7	-13.8	-22.2	238	71.8	-16.8	-20.6	231
	21	85.0	-6.9	-11.0	238	83.5	-8.5	-11.0	232
W	22	95.4	0.0	0.0	0	95.4	0.0	0.0	0

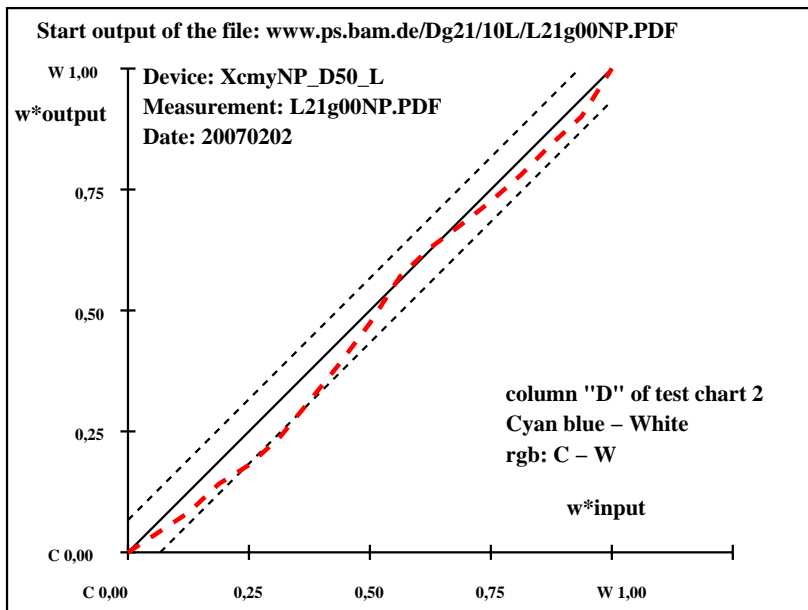
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.35 - 54.05$   
**Regularity**  
 $g^* = 50.7$   
**Lightness gamut relative to offset**  
 $f^* = 53.4$   
**Cyan blue – White**  
**rgb: C – W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 2.6$   
 $\Delta E^*_{CIELAB} = 3.5$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 2.0$   
 $\Delta E^*_{CIELAB} = 2.6$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 85$

De190–3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

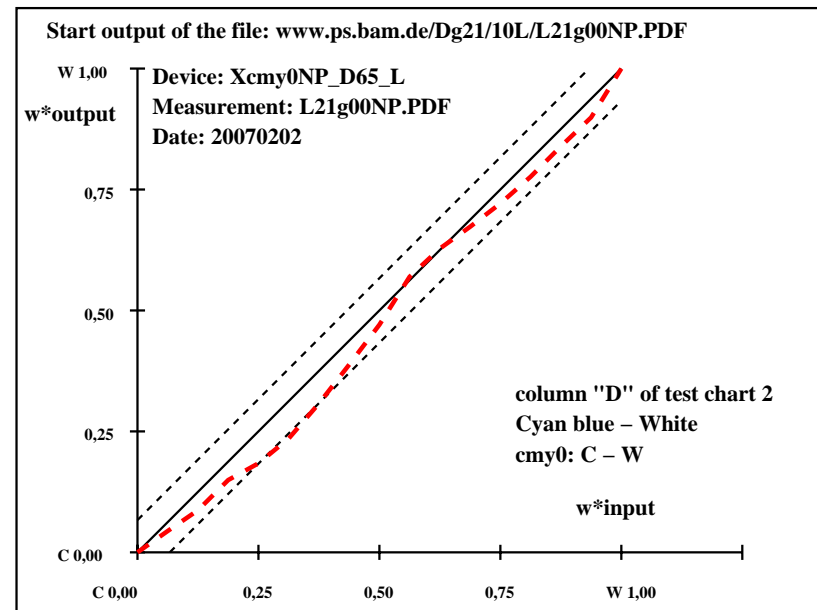
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	
C	1	55.7	-19.4	-41.4	245	55.7	-19.4	-41.4	245
	2	58.1	-18.2	-38.8	245	56.7	-20.0	-39.0	243
	3	60.6	-17.0	-36.2	245	58.1	-20.2	-36.8	241
	4	63.1	-15.7	-33.6	245	60.0	-20.9	-33.6	238
	5	65.6	-14.5	-31.0	245	61.4	-19.7	-31.8	238
	6	68.1	-13.3	-28.4	245	63.3	-18.1	-29.4	238
	7	70.6	-12.1	-25.8	245	65.9	-16.4	-26.1	238
	8	73.1	-10.9	-23.2	245	69.6	-15.7	-22.8	235
	9	75.5	-9.7	-20.7	245	72.6	-13.9	-19.1	234
	10	78.0	-8.4	-18.1	245	77.3	-12.6	-15.3	230
	11	80.5	-7.2	-15.5	245	80.2	-10.5	-13.6	232
	12	83.0	-6.0	-12.9	245	81.9	-9.0	-11.9	233
	13	85.5	-4.8	-10.3	245	83.9	-7.1	-10.3	235
	14	88.0	-3.6	-7.7	245	85.9	-5.4	-8.1	236
	15	90.4	-2.3	-5.1	245	88.7	-3.7	-6.0	238
	16	92.9	-1.1	-2.5	245	90.8	-2.2	-3.4	237
W	17	95.4	0.0	0.0	0	95.4	0.0	0.0	0
C	18	55.7	-19.4	-41.4	245	55.7	-19.4	-41.4	245
	19	65.6	-14.5	-31.0	245	61.4	-19.7	-31.8	238
	20	75.5	-9.7	-20.7	245	72.6	-13.9	-19.1	234
	21	85.5	-4.8	-10.3	245	83.9	-7.1	-10.3	235
W	22	95.4	0.0	0.0	0	95.4	0.0	0.0	0

**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.41 - 55.66$   
**Regularity**  
 $g^* = 49.5$   
**Lightness gamut relative to offset**  
 $f^* = 51.4$   
**Cyan blue – White**  
**cmy0: C – W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 3.1$   
 $\Delta E^*_{CIELAB} = 3.9$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 2.4$   
 $\Delta E^*_{CIELAB} = 3.0$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 83$

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De190–7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191–7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	
V	1	25.0	14.6-35.8	292	25.0	14.6-35.8	292	0.0	0.0
	2	29.4	13.7-33.5	292	27.5	13.4-36.3	290	-1.7	-0.2
	3	33.8	12.8-31.3	292	30.6	12.5-36.7	289	-3.1	-0.2
	4	38.2	11.9-29.0	292	33.7	12.2-36.0	289	-4.4	0.3
	5	42.6	11.0-26.8	292	36.7	12.8-34.7	290	-5.8	1.8
	6	47.0	10.0-24.5	292	40.1	10.7-33.8	288	-6.8	0.7
	7	51.4	9.1-22.3	292	44.4	11.3-31.6	290	-6.8	2.2
	8	55.8	8.2-20.0	292	49.0	9.3-28.7	288	-6.6	1.1
	9	60.2	7.3-17.8	292	53.5	8.9-24.9	290	-6.6	1.6
	10	64.6	6.4-15.5	292	58.6	8.3-20.5	292	-5.9	1.9
	11	69.0	5.5-13.2	292	62.9	7.5-17.1	294	-6.0	2.0
	12	73.4	4.6-11.0	292	67.7	5.2-13.8	291	-5.6	0.6
	13	77.8	3.6-8.7	292	71.9	4.2-11.9	289	-5.8	0.6
	14	82.2	2.7-6.5	293	76.8	3.1-8.3	290	-5.3	0.4
	15	86.6	1.8-4.2	293	82.3	1.6-5.7	285	-4.2	-0.1
	16	91.0	0.9-2.0	294	85.8	2.0-3.6	298	-5.1	1.1
W	17	95.4	0.0	0.2	90	95.4	0.0	0.2	90
V	18	25.0	14.6-35.8	292	25.0	14.6-35.8	292	0.0	0.0
	19	42.6	11.0-26.8	292	36.7	12.8-34.7	290	-5.8	1.8
	20	60.2	7.3-17.8	292	53.5	8.9-24.9	290	-6.6	1.6
	21	77.8	3.6-8.7	292	71.9	4.2-11.9	289	-5.8	0.6
W	22	95.4	0.0	0.2	90	95.4	0.0	0.2	90

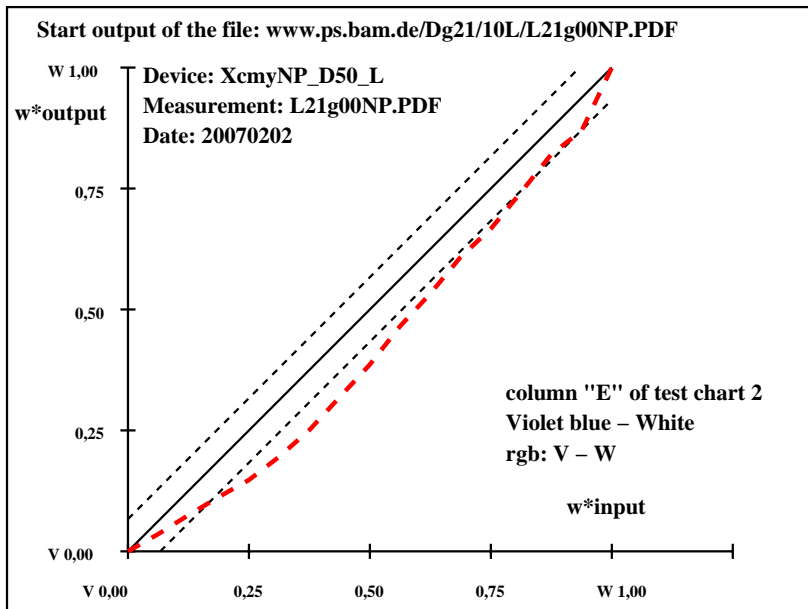
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.41 - 24.97$   
**Regularity**  
 $g^* = 49.7$   
**Lightness gamut relative to offset**  
 $f^* = 91.0$   
**Violet blue – White**  
**rgb: V – W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 4.7$   
 $\Delta E^*_{CIELAB} = 6.9$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 3.7$   
 $\Delta E^*_{CIELAB} = 5.3$   
**Mean colour reproduction index:  $R^*_{ab,m} = 70$**

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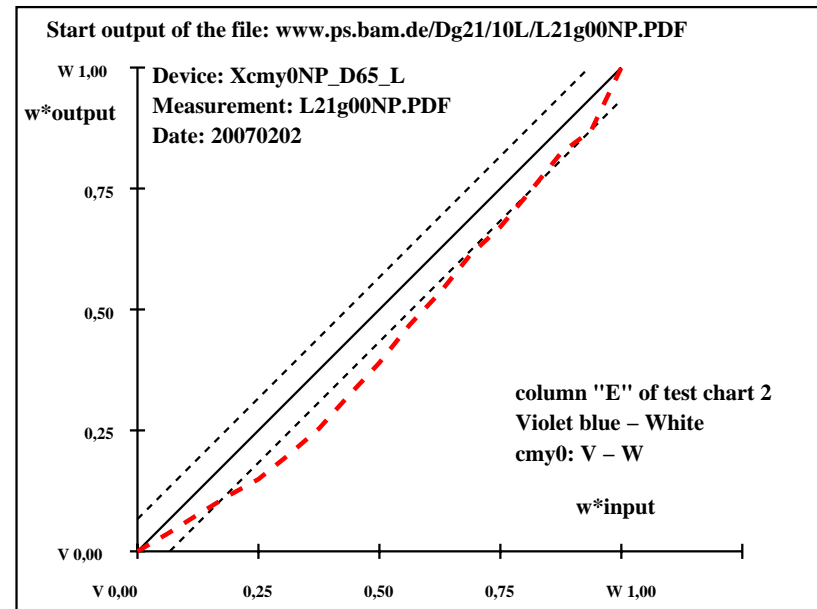
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	
V	1	25.6	21.1-35.5	301	25.6	21.1-35.5	301	0.0	0.0
	2	29.9	19.8-33.3	301	28.2	19.7-36.0	299	-1.7	0.0
	3	34.3	18.5-31.0	301	31.2	18.6-36.2	297	-3.0	0.1
	4	38.7	17.1-28.8	301	34.3	17.8-35.5	297	-4.3	0.7
	5	43.1	15.8-26.5	301	37.2	17.9-34.4	297	-5.7	2.1
	6	47.4	14.5-24.3	301	40.7	15.5-33.4	295	-6.7	1.0
	7	51.8	13.2-22.1	301	45.0	15.4-31.3	296	-6.7	2.2
	8	56.2	11.9-19.8	301	49.5	12.9-28.4	294	-6.6	1.0
	9	60.5	10.6-17.6	301	53.9	11.8-24.7	295	-6.5	1.3
	10	64.9	9.2-15.4	301	58.9	10.5-20.4	297	-5.9	1.3
	11	69.3	7.9-13.1	301	63.2	9.3-17.1	298	-6.0	1.4
	12	73.6	6.6-10.9	301	67.9	6.5-13.7	295	-5.6	0.0
	13	78.0	5.3-8.7	301	72.1	5.3-11.8	294	-5.8	0.0
	14	82.4	4.0-6.4	301	76.9	3.9-8.3	295	-5.3	0.0
	15	86.7	2.6-4.2	302	82.5	2.2-5.7	291	-4.2	-0.3
	16	91.1	1.3-1.9	303	85.9	2.3-3.7	301	-5.1	1.0
W	17	95.5	0.0	0.2	90	95.5	0.0	0.2	90
V	18	25.6	21.1-35.5	301	25.6	21.1-35.5	301	0.0	0.0
	19	43.1	15.8-26.5	301	37.2	17.9-34.4	297	-5.7	2.1
	20	60.5	10.6-17.6	301	53.9	11.8-24.7	295	-6.5	1.3
	21	78.0	5.3-8.7	301	72.1	5.3-11.8	294	-5.8	0.0
W	22	95.5	0.0	0.2	90	95.5	0.0	0.2	90

**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.48 - 25.58$   
**Regularity**  
 $g^* = 49.8$   
**Lightness gamut relative to offset**  
 $f^* = 90.3$   
**Violet blue – White**  
**cmy0: V – W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 4.6$   
 $\Delta E^*_{CIELAB} = 6.8$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 3.7$   
 $\Delta E^*_{CIELAB} = 5.3$   
**Mean colour reproduction index:  $R^*_{ab,m} = 70$**

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

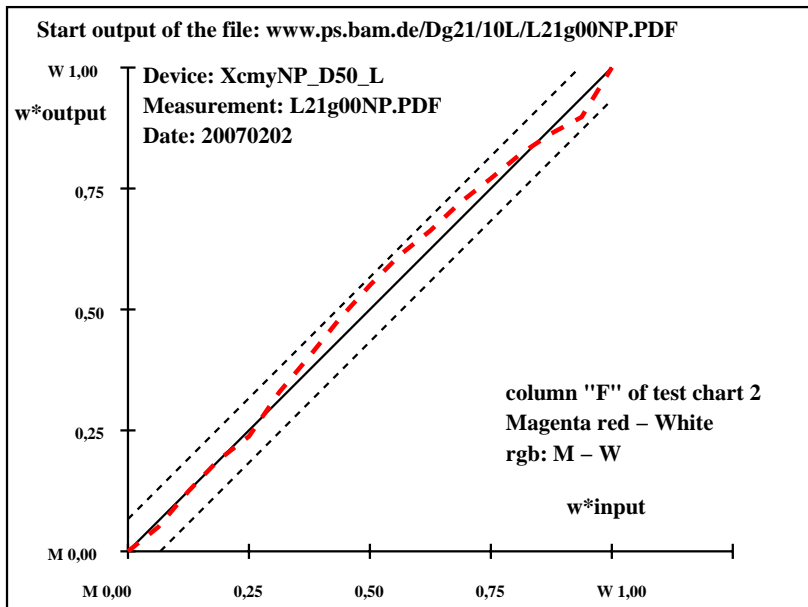


T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1												
M	1	48.3	62.9	-1.6	358	48.3	62.9	-1.6	358	0.0	0.0	0.0	0.0	0.0	Specification according to						
	2	51.2	59.0	-1.5	358	49.9	59.4	-2.5	357	-1.3	0.4	-0.9	1.1	1.8	ISO/IEC 15775:1999 Annex G						
	3	54.2	55.0	-1.4	358	52.4	54.1	-2.8	357	-1.7	-0.8	-1.3	1.7	2.5	and DIN 33866-1:2000 Annex G						
	4	57.1	51.1	-1.3	358	54.8	49.6	-2.9	357	-2.2	-1.4	-1.5	2.2	3.2	relative CIELAB data used for "out"						
	5	60.1	47.2	-1.2	358	56.7	46.3	-3.3	356	-3.3	-0.8	-2.0	2.3	4.1	$\Delta L^* = 95.32 - 48.31$						
	6	63.0	43.2	-1.1	358	60.0	39.9	-2.6	356	-2.9	-3.2	-1.4	3.7	4.8	Regularity						
	7	65.9	39.3	-1.0	358	62.9	34.8	-2.1	356	-2.9	-4.4	-1.0	4.7	5.6	$g^* = 58.5$						
	8	68.9	35.4	-0.9	358	66.1	29.6	-1.1	358	-2.7	-5.7	-0.1	5.8	6.4							
	9	71.8	31.5	-0.8	358	69.5	25.3	-0.4	359	-2.2	-6.1	0.4	6.2	6.6	Lightness gamut relative to offset						
	10	74.8	27.5	-0.6	358	72.3	21.2	-0.3	359	-2.3	-6.2	0.3	6.3	6.8	$f^* = 60.7$						
	11	77.7	23.6	-0.5	358	75.0	18.2	0.3	1	-2.6	-5.3	0.9	5.5	6.1							
	12	80.6	19.7	-0.4	358	78.4	14.9	0.3	1	-2.1	-4.7	0.8	4.8	5.3	Magenta red – White						
	13	83.6	15.7	-0.3	358	81.0	12.0	0.2	1	-2.4	-3.6	0.6	3.8	4.6	rgb: M – W						
	14	86.5	11.8	-0.2	358	83.8	9.0	0.4	3	-2.6	-2.7	0.7	2.9	3.9							
	15	89.4	7.9	-0.1	358	86.4	6.8	0.0	359	-2.9	-1.0	0.1	1.1	3.2	Mean CIELAB difference (17 steps)						
	16	92.4	3.9	0.0	358	88.5	5.0	0.0	359	-3.8	1.1	0.0	1.1	4.0	$\Delta H^{*CIELAB} = 3.1$						
W	17	95.3	0.0	0.0	0	95.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 4.0$						
M	18	48.3	62.9	-1.6	358	48.3	62.9	-1.6	358	0.0	0.0	0.0	0.0	0.0							
	19	60.1	47.2	-1.2	358	56.7	46.3	-3.3	356	-3.3	-0.8	-2.0	2.3	4.1							
	20	71.8	31.5	-0.8	358	69.5	25.3	-0.4	359	-2.2	-6.1	0.4	6.2	6.6	Mean CIELAB difference (5 steps)						
	21	83.6	15.7	-0.3	358	81.0	12.0	0.2	1	-2.4	-3.6	0.6	3.8	4.6	$\Delta H^{*CIELAB} = 2.4$						
W	22	95.3	0.0	0.0	0	95.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 3.0$						
Mean colour reproduction index:														$R^*_{ab,m} = 82$							

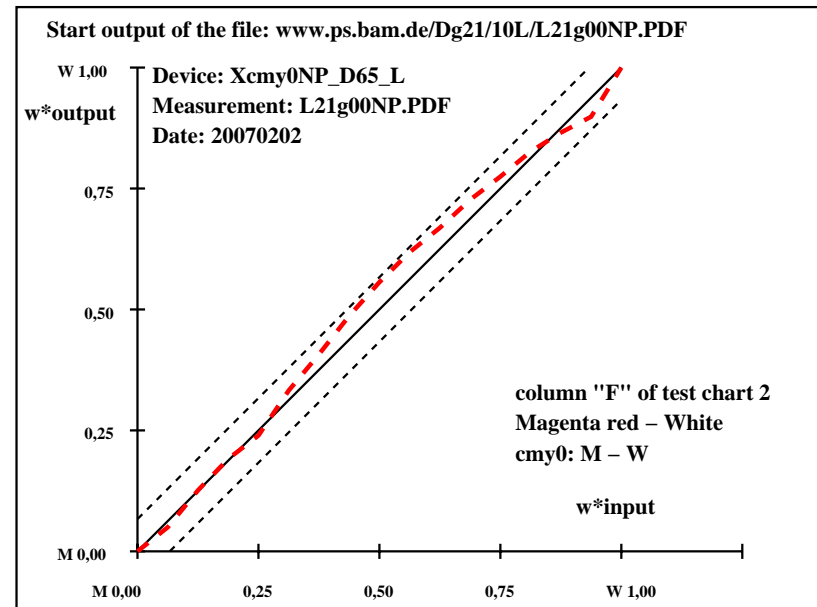
De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1										
M	1	46.9	62.6	-5.2	355	46.9	62.6	-5.2	355	0.0	0.0	0.0	0.0	0.0	Specification according to				
	2	49.9	58.7	-4.9	355	48.6	59.1	-5.9	354	-1.2	0.4	-0.9	1.1	1.7	ISO/IEC 15775:1999 Annex G				
	3	52.9	54.8	-4.5	355	51.2	53.6	-5.7	354	-1.6	-1.1	-1.1	1.7	2.4	and DIN 33866-1:2000 Annex G				
	4	56.0	50.9	-4.2	355	53.8	49.1	-5.6	353	-2.1	-1.7	-1.3	2.2	3.1	relative CIELAB data used for "out"				
	5	59.0	46.9	-3.9	355	55.8	45.8	-5.8	353	-3.1	-1.0	-1.8	2.2	3.9	$\Delta L^* = 95.39 - 46.88$				
	6	62.0	43.0	-3.5	355	59.2	39.3	-4.7	353	-2.7	-3.6	-1.1	3.9	4.8	Regularity				
	7	65.1	39.1	-3.2	355	62.3	34.2	-3.9	353	-2.7	-4.8	-0.6	5.0	5.7	$g^* = 61.1$				
	8	68.1	35.2	-2.9	355	65.6	28.9	-2.6	355	-2.4	-6.2	0.3	6.3	6.8					
	9	71.1	31.3	-2.6	355	69.1	24.6	-1.7	356	-1.9	-6.6	0.9	6.8	7.1	Lightness gamut relative to offset				
	10	74.2	27.4	-2.2	355	72.0	20.6	-1.3	356	-2.1	-6.7	0.9	6.8	7.2	$f^* = 62.7$				
	11	77.2	23.5	-1.9	355	74.7	17.6	-0.5	358	-2.4	-5.8	1.4	6.0	6.6					
	12	80.2	19.6	-1.6	355	78.2	14.4	-0.2	359	-2.0	-5.1	1.4	5.3	5.7	Magenta red – White				
	13	83.3	15.7	-1.2	355	80.9	11.6	-0.2	359	-2.3	-4.0	1.0	4.2	4.8	cmy0: M – W				
	14	86.3	11.7	-0.9	355	83.7	8.6	0.0	0	-2.5	-3.0	1.0	3.3	4.2					
	15	89.3	7.8	-0.6	355	86.4	6.6	-0.3	357	-2.9	-1.1	0.3	1.3	3.2	Mean CIELAB difference (17 steps)				
	16	92.4	3.9	-0.2	355	88.5	4.9	-0.2	356	-3.8	1.0	0.0	1.0	4.0	$\Delta H^{*CIELAB} = 3.4$				
W	17	95.4	0.0	0	95.4	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 4.2$					
M	18	46.9	62.6	-5.2	355	46.9	62.6	-5.2	355	0.0	0.0	0.0	0.0	0.0					
	19	59.0	46.9	-3.9	355	55.8	45.8	-5.8	353	-3.1	-1.0	-1.8	2.2	3.9					
	20	71.1	31.3	-2.6	355	69.1	24.6	-1.7	356	-1.9	-6.6	0.9	6.8	7.1	Mean CIELAB difference (5 steps)				
	21	83.3	15.7	-1.2	355	80.9	11.6	-0.2	359	-2.3	-4.0	1.0	4.2	4.8	$\Delta H^{*CIELAB} = 2.6$				
W	22	95.4	0.0	0	95.4	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 3.2$					
Mean colour reproduction index:										$R^*_{ab,m} = 82$									

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De19/L19E06NP.PS/.PDF](http://www.ps.bam.de/De19/L19E06NP.PS/.PDF)  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$
N	1	26.8	0.0	0.0	0.0	0.0	0.0	0.0
	2	31.1	0.0	0.0	0.0	0.0	0.0	0.0
	3	35.4	0.0	0.0	0.0	0.0	0.0	0.0
	4	39.7	0.0	0.0	0.0	0.0	0.0	0.0
	5	43.9	0.0	0.0	0.0	0.0	0.0	0.0
	6	48.2	0.0	0.0	0.0	0.0	0.0	0.0
	7	52.5	0.0	0.0	0.0	0.0	0.0	0.0
	8	56.8	0.0	0.0	0.0	0.0	0.0	0.0
Z	9	61.1	0.0	0.0	0.0	0.0	0.0	0.0
	10	65.4	0.0	0.0	0.0	0.0	0.0	0.0
	11	69.6	0.0	0.0	0.0	0.0	0.0	0.0
	12	73.9	0.0	0.0	0.0	0.0	0.0	0.0
	13	78.2	0.0	0.0	0.0	0.0	0.0	0.0
	14	82.5	0.0	0.0	0.0	0.0	0.0	0.0
	15	86.8	0.0	0.0	0.0	0.0	0.0	0.0
	16	91.1	0.0	0.0	0.0	0.0	0.0	0.0
W	17	95.3	0.0	0.0	0.0	0.0	0.0	0.0
N	18	26.8	0.0	0.0	0.0	0.0	0.0	0.0
	19	43.9	0.0	0.0	0.0	0.0	0.0	0.0
Z	20	61.1	0.0	0.0	0.0	0.0	0.0	0.0
	21	78.2	0.0	0.0	0.0	0.0	0.0	0.0
W	22	95.3	0.0	0.0	0.0	0.0	0.0	0.0

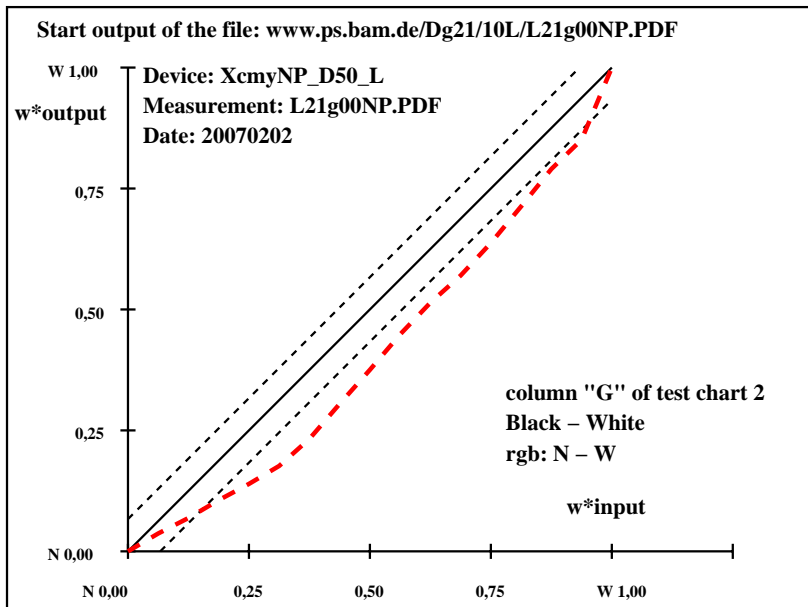
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.34 - 26.8$   
**Regularity**  
 $g^* = 36.7$   
**Lightness gamut relative to offset**  
 $f^* = 88.6$   
**Black - White**  
**rgb: N - W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 3.7$   
 $\Delta E^*_{CIELAB} = 7.6$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 2.9$   
 $\Delta E^*_{CIELAB} = 5.9$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 67$

De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

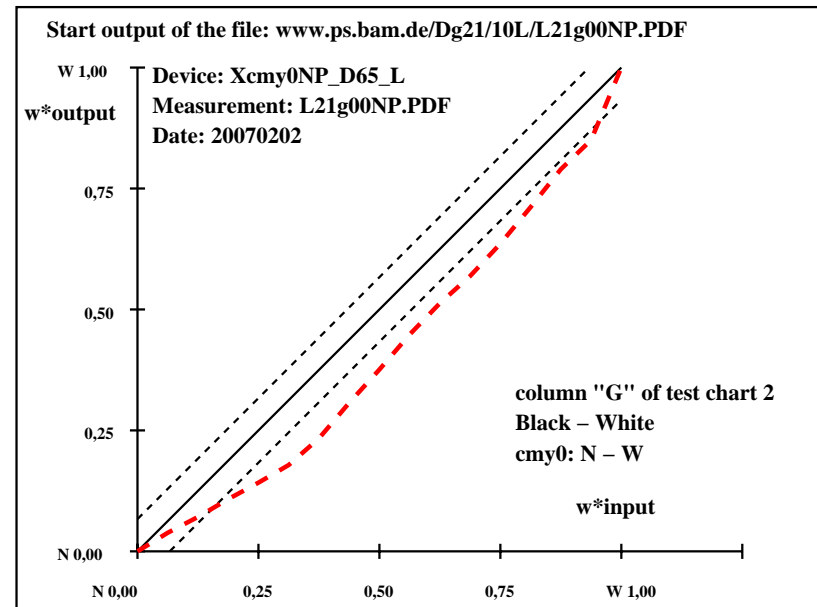
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$
N	1	26.9	0.0	0.0	0.0	0.0	0.0	0.0
	2	31.2	0.0	0.0	0.0	0.0	0.0	0.0
	3	35.5	0.0	0.0	0.0	0.0	0.0	0.0
	4	39.8	0.0	0.0	0.0	0.0	0.0	0.0
	5	44.1	0.0	0.0	0.0	0.0	0.0	0.0
	6	48.3	0.0	0.0	0.0	0.0	0.0	0.0
	7	52.6	0.0	0.0	0.0	0.0	0.0	0.0
	8	56.9	0.0	0.0	0.0	0.0	0.0	0.0
Z	9	61.2	0.0	0.0	0.0	0.0	0.0	0.0
	10	65.5	0.0	0.0	0.0	0.0	0.0	0.0
	11	69.7	0.0	0.0	0.0	0.0	0.0	0.0
	12	74.0	0.0	0.0	0.0	0.0	0.0	0.0
	13	78.3	0.0	0.0	0.0	0.0	0.0	0.0
	14	82.6	0.0	0.0	0.0	0.0	0.0	0.0
	15	86.9	0.0	0.0	0.0	0.0	0.0	0.0
	16	91.1	0.0	0.0	0.0	0.0	0.0	0.0
W	17	95.4	0.0	0.0	0.0	0.0	0.0	0.0
N	18	26.9	0.0	0.0	0.0	0.0	0.0	0.0
	19	44.1	0.0	0.0	0.0	0.0	0.0	0.0
Z	20	61.2	0.0	0.0	0.0	0.0	0.0	0.0
	21	78.3	0.0	0.0	0.0	0.0	0.0	0.0
W	22	95.4	0.0	0.0	0.0	0.0	0.0	0.0

**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.41 - 26.94$   
**Regularity**  
 $g^* = 36.6$   
**Lightness gamut relative to offset**  
 $f^* = 88.5$   
**Black - White**  
**cmy0: N - W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 3.9$   
 $\Delta E^*_{CIELAB} = 7.7$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 3.1$   
 $\Delta E^*_{CIELAB} = 6.0$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 66$

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

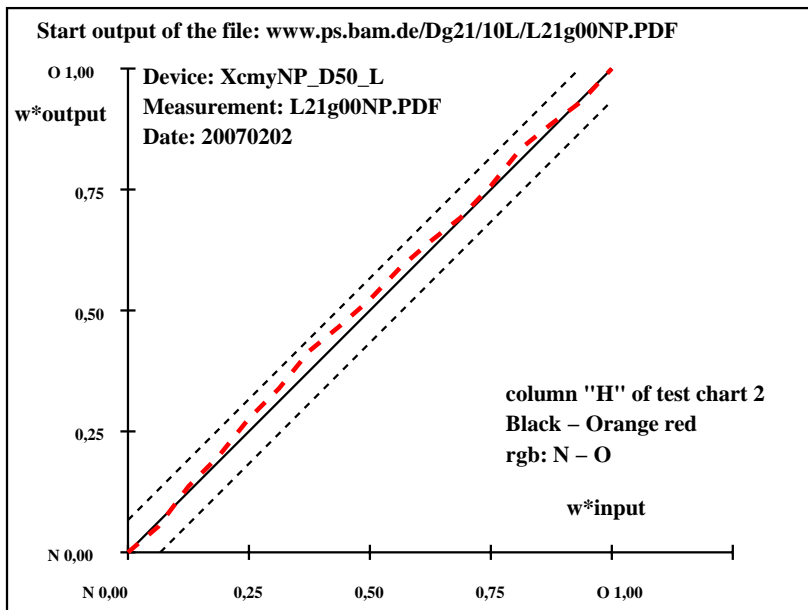


De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De.HTM](http://www.ps.bam.de/De.HTM)  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

T	i	LAB*a <sub>ref</sub>		hab <sub>ref</sub>	LAB*a <sub>out</sub>		hab <sub>out</sub>	LAB*a <sub>out</sub> /c-refΔH* ΔE*				Start output S1			
N	1	27.9	2.3	1.0	23	27.9	2.3	1.0	23	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	29.2	6.1	4.0	33	28.9	5.8	3.3	30	-0.2	-0.2	-0.6	0.8	0.9	ISO/IEC 15775:1999 Annex G
	3	30.5	10.0	7.1	35	30.2	12.1	5.5	24	-0.2	2.1	-1.5	2.6	2.7	and DIN 33866-1:2000 Annex G
	4	31.8	13.8	10.1	36	31.6	16.0	8.6	28	-0.1	2.2	-1.4	2.6	2.7	relative CIELAB data used for "out"
	5	33.1	17.7	13.1	37	32.7	21.1	12.2	30	-0.3	3.5	-0.8	3.6	3.6	ΔL* = 48.58 – 27.92
	6	34.4	21.5	16.2	37	33.4	25.2	15.1	31	-0.9	3.7	-1.0	3.9	4.0	Regularity
	7	35.7	25.3	19.2	37	34.7	30.1	18.8	32	-0.9	4.8	-0.3	4.8	4.9	g* = 62.2
	8	37.0	29.2	22.2	37	35.9	33.3	21.2	32	-1.0	4.1	-0.9	4.3	4.4	
	9	38.3	33.0	25.3	37	37.4	36.9	23.4	32	-0.8	3.9	-1.8	4.3	4.4	Lightness gamut relative to offset
	10	39.5	36.8	28.3	38	38.5	40.7	27.1	34	-1.0	3.9	-1.1	4.0	4.2	f* = 26.7
	11	40.8	40.7	31.3	38	39.5	44.1	29.7	34	-1.2	3.4	-1.5	3.8	4.0	
	12	42.1	44.5	34.3	38	40.2	46.8	32.7	35	-1.9	2.3	-1.5	2.8	3.4	Black – Orange red
	13	43.4	48.4	37.4	38	41.7	50.5	36.3	36	-1.6	2.1	-1.0	2.4	3.0	rgb: N – O
	14	44.7	52.2	40.4	38	43.7	54.9	40.4	36	-0.9	2.7	0.0	2.7	2.9	
	15	46.0	56.0	43.4	38	45.1	58.0	42.7	36	-0.8	2.0	-0.6	2.1	2.3	Mean CIELAB difference (17 steps)
	16	47.3	59.9	46.5	38	46.2	60.5	45.4	37	-1.0	0.6	-1.0	1.2	1.7	ΔH* <sub>CIELAB</sub> = 2.7
	O	17	48.6	63.7	49.5	38	48.6	63.7	49.5	38	0.0	0.0	0.0	0.0	0.0
N	18	27.9	2.3	1.0	23	27.9	2.3	1.0	23	0.0	0.0	0.0	0.0	0.0	
	19	33.1	17.7	13.1	37	32.7	21.1	12.2	30	-0.3	3.5	-0.8	3.6	3.6	
	20	38.3	33.0	25.3	37	37.4	36.9	23.4	32	-0.8	3.9	-1.8	4.3	4.4	Mean CIELAB difference (5 steps)
O	21	43.4	48.4	37.4	38	41.7	50.5	36.3	36	-1.6	2.1	-1.0	2.4	3.0	ΔH* <sub>CIELAB</sub> = 2.1
	22	48.6	63.7	49.5	38	48.6	63.7	49.5	38	0.0	0.0	0.0	0.0	0.0	ΔE* <sub>CIELAB</sub> = 2.2
Mean colour reproduction index:										R* <sub>ab,m</sub> = 87					

De190-3N.; Device: XcmyNP D50 L; Measurement: L21g00NP.PDF; Date: 20070202

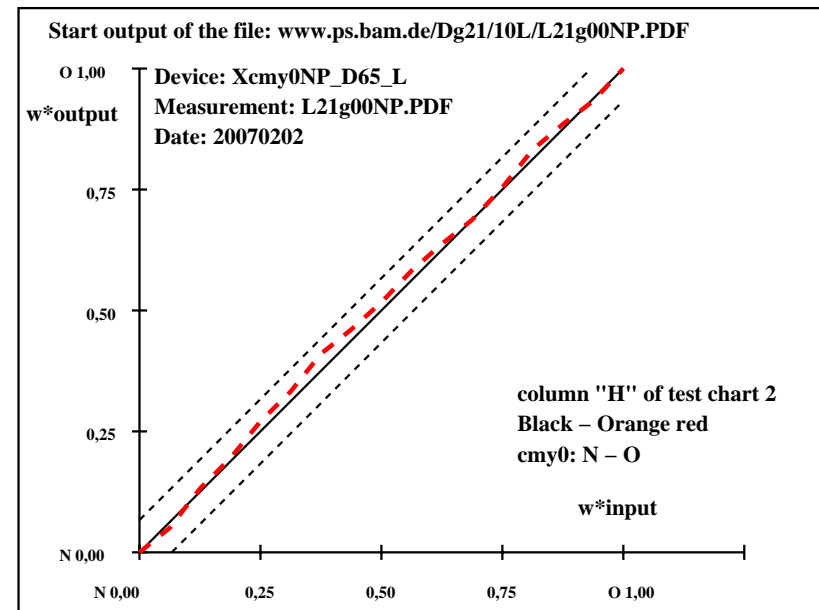


De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

Output specification of the test chart 2 according to DIN 33872-1  
17 step colour scale "H"; D50 and D65 illuminant, Page 8/24

	T	i	LAB*a <sub>1</sub> .ref		hab.ref		LAB*a <sub>2</sub> .out		hab.out		LAB*a <sub>2</sub> .out/c.ref-ΔH* ΔE*				Start output S1	
N	1	28.0	2.1	0.8	21	28.0	2.1	0.8	21	0.0	0.0	0.0	0.0	0.0	Specification according to	
	2	29.2	5.7	3.6	32	28.9	5.1	3.0	30	-0.2	-0.5	-0.5	0.9	0.9	ISO/IEC 15775:1999 Annex G	
	3	30.3	9.3	6.5	35	30.0	11.0	4.8	24	-0.2	1.7	-1.6	2.4	2.4	and DIN 33866-1:2000 Annex G	
	4	31.5	12.9	9.3	36	31.3	14.6	7.8	28	-0.1	1.7	-1.4	2.2	2.3	relative CIELAB data used for "out"	
	5	32.7	16.5	12.1	36	32.2	19.3	11.1	30	-0.4	2.8	-0.9	3.0	3.0	ΔL* = 46.67 – 27.99	
	6	33.8	20.1	15.0	37	32.8	23.1	13.8	31	-0.9	3.0	-1.1	3.2	3.4	Regularity	
	7	35.0	23.7	17.8	37	33.9	27.8	17.2	32	-1.0	4.1	-0.5	4.1	4.2	g* = 59.4	
	8	36.2	27.3	20.6	37	35.0	30.8	19.3	32	-1.1	3.5	-1.2	3.7	3.9		
	9	37.3	31.0	23.4	37	36.4	34.3	21.4	32	-0.8	3.3	-1.9	3.9	4.0	Lightness gamut relative to offset	
	10	38.5	34.6	26.3	37	37.3	37.8	24.9	33	-1.1	3.2	-1.3	3.5	3.7	f* = 24.1	
	11	39.7	38.2	29.1	37	38.3	41.1	27.3	34	-1.3	2.9	-1.7	3.5	3.7		
	12	40.8	41.8	31.9	37	38.8	43.7	30.1	35	-1.9	1.9	-1.7	2.7	3.3	Black – Orange red	
	13	42.0	45.4	34.8	37	40.2	47.2	33.6	35	-1.7	1.8	-1.1	2.2	2.8	cmY0: N – O	
	14	43.2	49.0	37.6	38	42.1	51.4	37.4	36	-1.0	2.4	-0.1	2.4	2.7		
	15	44.3	52.6	40.4	38	43.4	54.5	39.6	36	-0.9	1.9	-0.7	2.1	2.3	Mean CIELAB difference (17 steps)	
	16	45.5	56.2	43.3	38	44.4	56.9	42.2	37	-1.0	0.7	-1.0	1.3	1.7	ΔH* <sub>CIELAB</sub> = 2.4	
O	17	46.7	59.8	46.1	38	46.7	59.8	46.1	38	0.0	0.0	0.0	0.0	0.0	ΔE* <sub>CIELAB</sub> = 2.6	
N	18	28.0	2.1	0.8	21	28.0	2.1	0.8	21	0.0	0.0	0.0	0.0	0.0		
	19	32.7	16.5	12.1	36	32.2	19.3	11.1	30	-0.4	2.8	-0.9	3.0	3.0		
	20	37.3	31.0	23.4	37	36.4	34.3	21.4	32	-0.8	3.3	-1.9	3.9	4.0	Mean CIELAB difference (5 steps)	
O	21	42.0	45.4	34.8	37	40.2	47.2	33.6	35	-1.7	1.8	-1.1	2.2	2.8	ΔH* <sub>CIELAB</sub> = 1.8	
	22	46.7	59.8	46.1	38	46.7	59.8	46.1	38	0.0	0.0	0.0	0.0	0.0	ΔE* <sub>CIELAB</sub> = 2.0	
Mean colour reproduction index:										R* <sub>ab,m</sub> = 89						

De191-3N, ; Device: Xcmv0NP D65 L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

input: *cmy0 setcmykcolor*  
output: no change compared to input

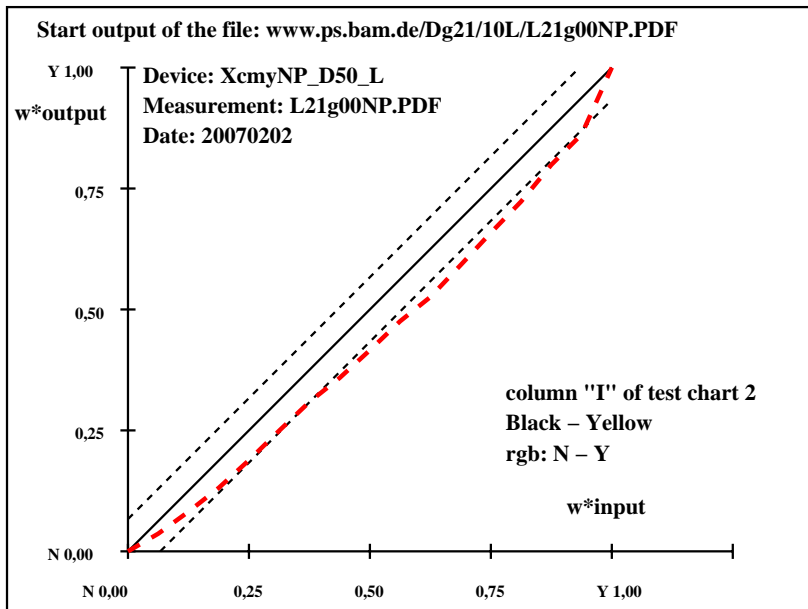


T	i	LAB*a,ref				hab,ref				LAB*a,out				hab,out				LAB*a,out/c-ref				ΔH* ΔE*				Start output S1											
N	1	28.3	4.2	1.6	21	28.3	4.2	1.6	21	0.0	0.0	0.0	0.0	0.0	Specification according to																						
	2	32.2	3.3	8.4	68	30.6	2.3	5.1	66	-1.5	-0.9	-3.2	3.5	3.8	ISO/IEC 15775:1999 Annex G																						
	3	36.1	2.4	15.2	81	33.3	0.0	9.6	91	-2.7	-2.4	-5.5	6.2	6.8	and DIN 33866-1:2000 Annex G																						
	4	40.1	1.6	22.1	86	36.3	-1.4	15.0	96	-3.7	-3.0	-7.0	7.7	8.6	relative CIELAB data used for "out"																						
	5	44.0	0.7	28.9	89	38.8	-1.3	22.3	94	-5.1	-2.0	-6.5	6.9	8.7	ΔL* = 91.4 - 28.25																						
	6	48.0	-0.1	35.7	90	41.5	-3.3	29.3	97	-6.4	-3.1	-6.3	7.1	9.7	Regularity																						
	7	51.9	-1.0	42.5	91	44.3	-2.3	36.7	94	-7.5	-1.2	-5.7	6.0	9.7	g* = 43.6																						
	8	55.9	-1.9	49.3	92	47.9	-2.8	42.0	94	-7.9	-0.8	-7.2	7.4	10.9																							
	9	59.8	-2.8	56.2	93	51.5	-2.8	48.4	93	-8.2	0.0	-7.6	7.8	11.4	Lightness gamut relative to offset																						
	10	63.8	-3.6	63.0	93	55.5	-2.7	55.0	93	-8.2	0.9	-7.9	8.0	11.6	f* = 81.6																						
	11	67.7	-4.5	69.8	94	58.8	-2.5	60.5	92	-8.8	2.0	-9.2	9.5	13.0																							
	12	71.7	-5.4	76.6	94	63.0	-3.9	67.6	93	-8.5	1.5	-8.9	9.1	12.6	Black - Yellow																						
	13	75.6	-6.3	83.4	94	67.2	-4.3	75.0	93	-8.3	2.0	-8.3	8.7	12.1	rgb: N - Y																						
	14	79.6	-7.2	90.2	95	71.8	-5.1	81.8	94	-7.7	2.1	-8.3	8.7	11.7																							
	15	83.5	-8.0	97.1	95	77.1	-6.9	89.7	94	-6.3	1.1	-7.3	7.4	9.8	Mean CIELAB difference (17 steps)																						
	16	87.5	-8.9	103.9	95	81.6	-6.5	96.4	94	-5.8	2.4	-7.4	7.9	9.8	ΔH*CIELAB = 6.6																						
Y	17	91.4	-9.8	110.7	95	91.4	-9.8	110.7	95	0.0	0.0	0.0	0.0	0.0	ΔE*CIELAB = 8.8																						
N	18	28.3	4.2	1.6	21	28.3	4.2	1.6	21	0.0	0.0	0.0	0.0	0.0																							
	19	44.0	0.7	28.9	89	38.8	-1.3	22.3	94	-5.1	-2.0	-6.5	6.9	8.7																							
	20	59.8	-2.8	56.2	93	51.5	-2.8	48.4	93	-8.2	0.0	-7.6	7.8	11.4	Mean CIELAB difference (5 steps)																						
	21	75.6	-6.3	83.4	94	67.2	-4.3	75.0	93	-8.3	2.0	-8.3	8.7	12.1	ΔH*CIELAB = 4.7																						
Y	22	91.4	-9.8	110.7	95	91.4	-9.8	110.7	95	0.0	0.0	0.0	0.0	0.0	ΔE*CIELAB = 6.4																						
Mean colour reproduction index:										R* <sub>ab,m</sub> = 62																											

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T	i	LAB*a,ref		hab,ref	LAB*a,out		hab,out	LAB*a,out/c-ref				$\Delta H^*$	$\Delta E^*$	Start output S1										
N	1	28.3	3.9	1.3	18	28.3	3.9	1.3	18	0.0	0.0	0.0	0.0	0.0	Specification according to									
	2	32.2	2.6	8.2	73	30.6	1.5	4.9	73	-1.4	-1.0	-3.2	3.5	3.8	ISO/IEC 15775:1999 Annex G									
	3	36.1	1.3	15.2	85	33.3	-1.4	9.5	99	-2.7	-2.7	-5.6	6.3	6.9	and DIN 33866-1:2000 Annex G									
	4	40.0	0.0	22.1	90	36.3	-3.5	15.1	103	-3.6	-3.5	-6.9	7.8	8.7	relative CIELAB data used for "out"									
	5	43.9	-1.2	29.0	93	38.7	-4.1	22.3	101	-5.1	-2.8	-6.6	7.3	9.0	$\Delta L^* = 90.8 - 28.27$									
	6	47.8	-2.6	36.0	94	41.4	-6.7	29.5	103	-6.3	-4.0	-6.4	7.7	10.0	Regularity									
	7	51.7	-3.9	42.9	95	44.1	-6.2	36.9	100	-7.5	-2.2	-5.9	6.4	9.9	$g^* = 43.4$									
	8	55.6	-5.2	49.8	96	47.7	-7.1	42.3	100	-7.9	-1.8	-7.4	7.8	11.1	Lightness gamut relative to offset									
	9	59.5	-6.5	56.7	97	51.3	-7.4	48.7	99	-8.2	-0.8	-7.9	8.1	11.6										
	10	63.4	-7.8	63.7	97	55.1	-7.7	55.4	98	-8.2	0.1	-8.2	8.3	11.7										
	11	67.4	-9.1	70.6	97	58.4	-7.8	61.0	97	-8.9	1.3	-9.5	9.7	13.2	Black – Yellow cmy0: N – Y									
	12	71.3	-10.4	77.5	98	62.6	-9.5	68.2	98	-8.5	0.9	-9.2	9.4	12.8										
	13	75.2	-11.8	84.5	98	66.8	-10.2	75.7	98	-8.3	1.6	-8.7	8.9	12.3										
	14	79.1	-13.1	91.4	98	71.3	-11.2	82.6	98	-7.7	1.9	-8.7	9.0	11.9	Mean CIELAB difference (17 steps) $\Delta H^*_{CIELAB} = 6.8$ $\Delta E^*_{CIELAB} = 9.0$									
	15	83.0	-14.4	98.3	98	76.6	-13.3	90.7	98	-6.3	1.1	-7.5	7.7	10.0										
	16	86.9	-15.7	105.3	99	81.0	-13.2	97.5	98	-5.8	2.5	-7.7	8.2	10.1										
Y	17	90.8	-17.0	112.2	99	90.8	-17.0	112.2	99	0.0	0.0	0.0	0.0	0.0	Mean CIELAB difference (5 steps) $\Delta H^*_{CIELAB} = 4.9$ $\Delta E^*_{CIELAB} = 6.6$									
N	18	28.3	3.9	1.3	18	28.3	3.9	1.3	18	0.0	0.0	0.0	0.0	0.0										
	19	43.9	-1.2	29.0	93	38.7	-4.1	22.3	101	-5.1	-2.8	-6.6	7.3	9.0										
	20	59.5	-6.5	56.7	97	51.3	-7.4	48.7	99	-8.2	-0.8	-7.9	8.1	11.6										
21	75.2	-11.8	84.5	98	66.8	-10.2	75.7	98	-8.3	1.6	-8.7	8.9	12.3	Mean colour reproduction index: $R^*_{ab,m} = 61$										
Y	22	90.8	-17.0	112.2	99	90.8	-17.0	112.2	99	0.0	0.0	0.0	0.0											0.0

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T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	
N	1	28.9	4.3	1.8	23	28.9	4.3	1.8	23
	2	30.1	0.2	3.5	87	31.1	-2.0	3.0	125
	3	31.2	-3.9	5.2	127	32.5	-8.6	4.3	154
	4	32.4	-8.0	6.9	139	33.2	-15.0	6.1	158
	5	33.5	-12.1	8.7	145	33.8	-19.0	7.9	158
	6	34.7	-16.3	10.4	148	35.2	-24.7	9.9	158
	7	35.8	-20.4	12.1	149	36.1	-28.2	11.7	158
	8	37.0	-24.5	13.8	151	37.1	-32.0	14.1	156
	9	38.1	-28.7	15.5	152	38.1	-34.8	15.4	156
	10	39.3	-32.8	17.2	152	39.4	-38.8	16.8	157
	11	40.4	-36.9	18.9	153	40.7	-42.2	19.0	156
	12	41.6	-41.0	20.6	153	41.7	-45.4	19.8	156
	13	42.7	-45.2	22.4	154	42.5	-48.7	22.1	156
	14	43.9	-49.3	24.1	154	43.4	-51.7	22.1	157
	15	45.0	-53.4	25.8	154	44.6	-54.2	24.2	156
	16	46.2	-57.6	27.5	155	46.1	-58.2	27.0	155
L	17	47.3	-61.7	29.2	155	47.3	-61.7	29.2	155
N	18	28.9	4.3	1.8	23	28.9	4.3	1.8	23
	19	33.5	-12.1	8.7	145	33.8	-19.0	7.9	158
	20	38.1	-28.7	15.5	152	38.1	-34.8	15.4	156
	21	42.7	-45.2	22.4	154	42.5	-48.7	22.1	156
L	22	47.3	-61.7	29.2	155	47.3	-61.7	29.2	155

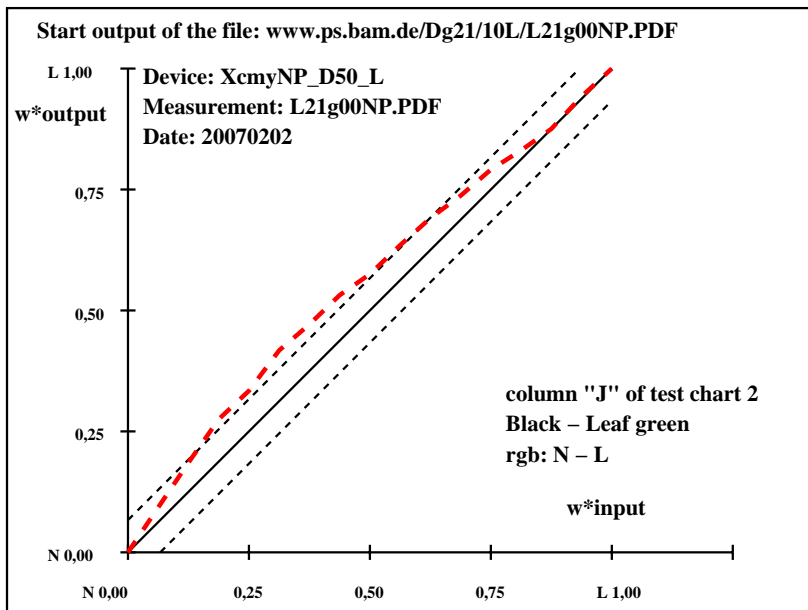
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 47.32 - 28.93$   
**Regularity**  
 $g^* = 86.2$   
**Lightness gamut relative to offset**  
 $f^* = 23.8$   
**Black – Leaf green**  
**rgb: N – L**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 4.5$   
 $\Delta E^*_{CIELAB} = 4.5$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 3.3$   
 $\Delta E^*_{CIELAB} = 3.3$   
**Mean colour reproduction index:  $R^*_{ab,m} = 81$**

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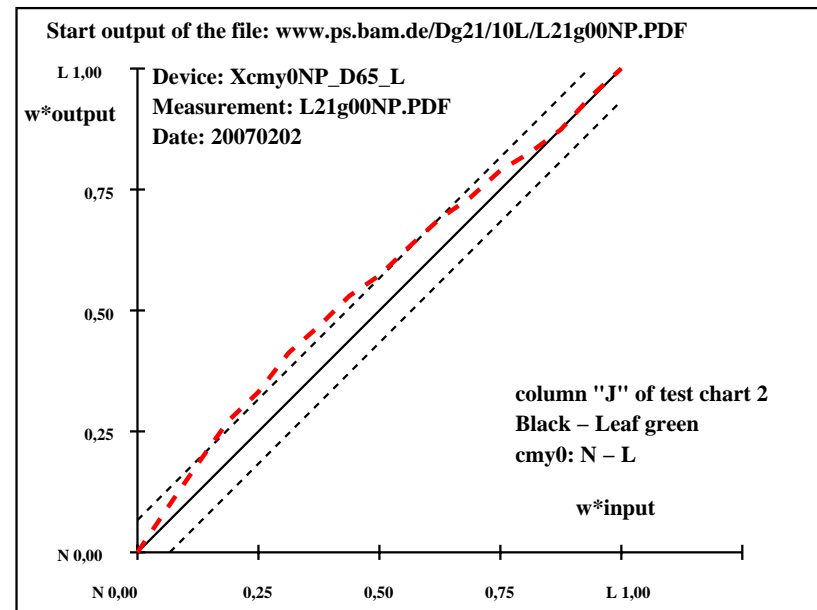
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	
N	1	29.0	3.9	1.6	22	29.0	3.9	1.6	22
	2	30.2	-0.3	3.5	96	31.3	-2.6	3.1	131
	3	31.4	-4.6	5.4	131	32.7	-9.3	4.7	153
	4	32.6	-8.8	7.3	141	33.5	-15.8	6.8	157
	5	33.8	-13.1	9.2	145	34.2	-20.0	8.8	156
	6	35.0	-17.4	11.1	148	35.6	-25.7	11.0	157
	7	36.2	-21.7	13.0	149	36.6	-29.4	13.0	156
	8	37.4	-25.9	14.9	150	37.6	-33.5	15.5	155
	9	38.6	-30.2	16.8	151	38.7	-36.3	17.0	155
	10	39.8	-34.5	18.6	152	40.0	-40.5	18.5	156
	11	41.0	-38.8	20.5	152	41.4	-44.1	20.9	155
	12	42.2	-43.0	22.4	153	42.4	-47.2	21.7	155
	13	43.4	-47.3	24.3	153	43.3	-50.8	24.2	155
	14	44.6	-51.6	26.2	153	44.2	-53.7	24.4	156
	15	45.8	-55.9	28.1	153	45.4	-56.5	26.6	155
	16	47.0	-60.1	30.0	154	46.9	-60.8	29.6	154
L	17	48.2	-64.4	31.9	154	48.2	-64.4	31.9	154
N	18	29.0	3.9	1.6	22	29.0	3.9	1.6	22
	19	33.8	-13.1	9.2	145	34.2	-20.0	8.8	156
	20	38.6	-30.2	16.8	151	38.7	-36.3	17.0	155
	21	43.4	-47.3	24.3	153	43.3	-50.8	24.2	155
L	22	48.2	-64.4	31.9	154	48.2	-64.4	31.9	154

**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 48.19 - 28.95$   
**Regularity**  
 $g^* = 83.4$   
**Lightness gamut relative to offset**  
 $f^* = 24.9$   
**Black – Leaf green**  
**cmy0: N – L**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 4.4$   
 $\Delta E^*_{CIELAB} = 4.5$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 3.3$   
 $\Delta E^*_{CIELAB} = 3.3$   
**Mean colour reproduction index:  $R^*_{ab,m} = 81$**

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

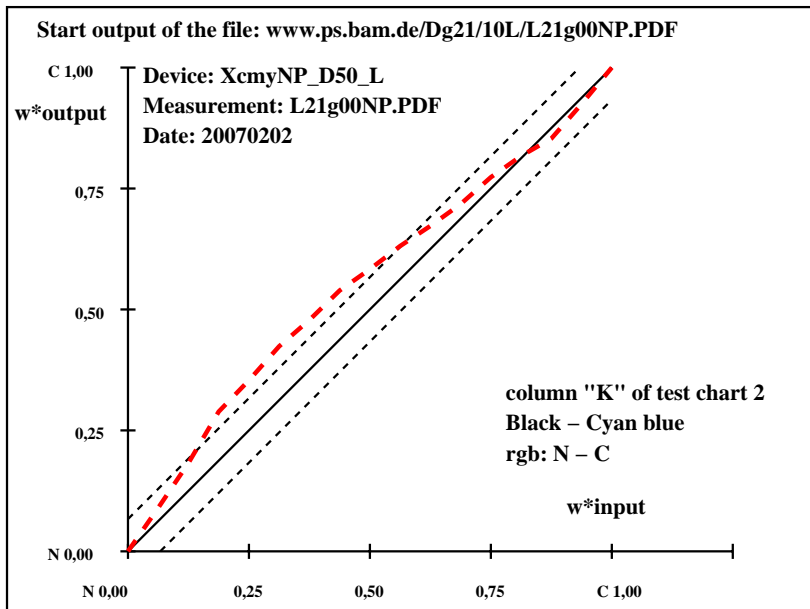


De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De.HTM](http://www.ps.bam.de/De.HTM)  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

T	i	LAB*a <sub>ref</sub>	hab <sub>ref</sub>	LAB*a <sub>out</sub>	hab <sub>out</sub>	LAB*a <sub>out</sub> /c-ref	ΔE*	Start output S1							
N	1	29.1	3.5	0.5	8	29.1	3.5	0.5	8	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	30.6	1.5	-2.2	303	30.6	-1.5	-0.3	194	0.0	-3.0	1.9	3.6	3.6	ISO/IEC 15775:1999 Annex G
	3	32.2	-0.5	-4.9	263	31.9	-6.7	-2.0	197	-0.2	-6.1	2.9	6.9	6.9	and DIN 33866-1:2000 Annex G
	4	33.7	-2.5	-7.7	251	32.6	-12.8	-3.9	197	-1.0	-10.2	3.8	11.0	11.0	relative CIELAB data used for "out"
	5	35.3	-4.5	-10.4	246	33.8	-16.4	-4.9	197	-1.4	-11.8	5.5	13.1	13.2	ΔE* = 53.76 – 29.09
	6	36.8	-6.6	-13.2	243	34.7	-20.0	-7.2	200	-2.0	-13.3	6.0	14.7	14.8	Regularity
	7	38.3	-8.6	-15.9	241	35.7	-22.8	-8.7	201	-2.6	-14.1	7.2	15.9	16.1	g* = 58.2
	8	39.9	-10.7	-18.7	240	37.3	-25.9	-10.1	201	-2.5	-15.1	8.6	17.5	17.7	
	9	41.4	-12.7	-21.5	239	39.1	-27.6	-11.9	203	-2.2	-14.8	9.5	17.7	17.8	Lightness gamut relative to offset
	10	43.0	-14.7	-24.2	239	40.7	-29.0	-15.0	207	-2.2	-14.2	9.2	17.0	17.1	f* = 31.9
	11	44.5	-16.8	-27.0	238	42.5	-30.2	-17.1	210	-1.9	-13.3	9.9	16.7	16.8	
	12	46.1	-18.8	-29.7	238	44.2	-30.2	-21.6	216	-1.8	-11.3	8.1	14.0	14.1	Black – Cyan blue
	13	47.6	-20.8	-32.5	237	45.8	-30.4	-26.4	221	-1.7	-9.5	6.1	11.3	11.5	rgb: N – C
	14	49.1	-22.9	-35.2	237	47.2	-29.6	-30.8	226	-1.9	-6.6	4.4	8.0	8.3	
	15	50.7	-24.9	-38.0	237	48.8	-29.1	-33.7	229	-1.8	-4.1	4.3	6.0	6.3	Mean CIELAB difference (17 steps)
	16	52.2	-27.0	-40.7	236	50.7	-28.9	-39.0	233	-1.4	-1.8	1.7	2.6	3.0	ΔH*CIELAB = 10.3
C	17	53.8	-29.0	-43.5	236	53.8	-29.0	-43.5	236	0.0	0.0	0.0	0.0	0.0	ΔE*CIELAB = 10.5
N	18	29.1	3.5	0.5	8	29.1	3.5	0.5	8	0.0	0.0	0.0	0.0	0.0	
	19	35.3	-4.5	-10.4	246	33.8	-16.4	-4.9	197	-1.4	-11.8	5.5	13.1	13.2	
	20	41.4	-12.7	-21.5	239	39.1	-27.6	-11.9	203	-2.2	-14.8	9.5	17.7	17.8	Mean CIELAB difference (5 steps)
	21	47.6	-20.8	-32.5	237	45.8	-30.4	-26.4	221	-1.7	-9.5	6.1	11.3	11.5	ΔH*CIELAB = 8.4
C	22	53.8	-29.0	-43.5	236	53.8	-29.0	-43.5	236	0.0	0.0	0.0	0.0	0.0	ΔE*CIELAB = 8.5
Mean colour reproduction index:										R* <sub>ab,m</sub> = 54					

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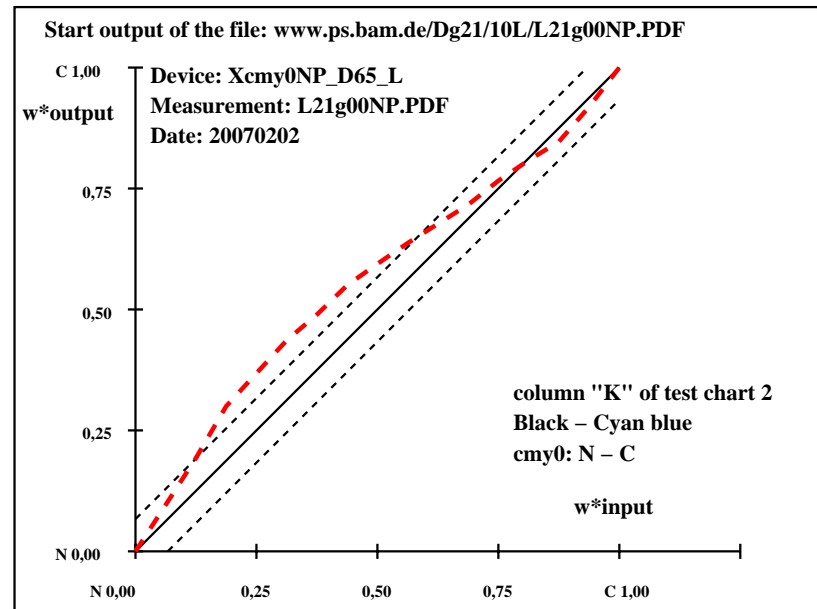


De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

Output specification of the test chart 2 according to DIN 33872-1  
17 step colour scale "K"; D50 and D65 illuminant, Page 11/24

T	i	LAB*a <sub>ref</sub>			hab <sub>ref</sub>	LAB*a <sub>out</sub>			hab <sub>out</sub>	LAB*a <sub>out</sub> /c-refΔH* ΔE*			Start output S1		
N	1	29.2	3.2	0.3	5	29.2	3.2	0.3	5	0.0	0.0	0.0	0.0	0.0	<b>Specification according to</b>
	2	30.8	1.7	-2.2	307	30.8	-1.6	-0.2	190	0.0	-3.3	2.0	3.9	3.9	<b>ISO/IEC 15775:1999 Annex G</b>
	3	32.4	0.2	-4.7	272	32.2	-6.5	-1.6	194	-0.1	-6.7	3.1	7.5	7.5	<b>and DIN 33866-1:2000 Annex G</b>
	4	34.1	-1.2	-7.3	260	33.1	-12.1	-3.1	195	-0.9	-10.8	4.2	11.7	11.7	<b>relative CIELAB data used for "out"</b>
	5	35.7	-2.7	-9.8	254	34.3	-15.5	-3.9	194	-1.3	-12.7	5.9	14.1	14.2	<b>ΔL* = 55.36 – 29.15</b>
	6	37.3	-4.2	-12.4	251	35.4	-18.6	-6.0	198	-1.9	-14.3	6.4	15.7	15.8	<b>Regularity</b>
	7	39.0	-5.7	-14.9	249	36.4	-21.0	-7.4	200	-2.4	-15.2	7.5	17.0	17.2	<b>g* = 61.5</b>
	8	40.6	-7.2	-17.5	247	38.1	-23.7	-8.6	200	-2.4	-16.4	8.9	18.7	18.9	
	9	42.3	-8.8	-20.1	246	40.0	-25.1	-10.3	202	-2.2	-16.3	9.8	19.0	19.2	<b>Lightness gamut relative to offset</b>
	10	43.9	-10.3	-22.6	245	41.6	-25.9	-13.2	207	-2.2	-15.5	9.4	18.3	18.4	<b>f* = 33.9</b>
C	11	45.5	-11.8	-25.2	245	43.6	-26.7	-15.1	210	-1.9	-14.8	10.1	18.0	18.1	
	12	47.2	-13.3	-27.7	244	45.3	-25.9	-19.5	217	-1.8	-12.5	8.2	15.1	15.2	<b>Black – Cyan blue</b>
	13	48.8	-14.8	-30.3	244	47.0	-25.2	-24.0	224	-1.7	-10.3	6.3	12.2	12.3	<b>cmY0: N – C</b>
	14	50.4	-16.3	-32.8	244	48.5	-23.6	-28.3	230	-1.9	-7.2	4.5	8.6	8.8	
	15	52.1	-17.8	-35.4	243	50.1	-22.7	-31.1	234	-1.9	-4.8	4.3	6.5	6.8	<b>Mean CIELAB difference (17 steps)</b>
	16	53.7	-19.3	-37.9	243	52.2	-21.4	-36.2	239	-1.4	-2.0	1.7	2.7	3.1	<b>ΔH*<sub>CIELAB</sub> = 11.1</b>
	17	55.4	-20.8	-40.5	243	55.4	-20.8	-40.5	243	0.0	0.0	0.0	0.0	0.0	<b>ΔE*<sub>CIELAB</sub> = 11.2</b>
	18	29.2	3.2	0.3	5	29.2	3.2	0.3	5	0.0	0.0	0.0	0.0	0.0	
	19	35.7	-2.7	-9.8	254	34.3	-15.5	-3.9	194	-1.3	-12.7	5.9	14.1	14.2	
	20	42.3	-8.8	-20.1	246	40.0	-25.1	-10.3	202	-2.2	-16.3	9.8	19.0	19.2	<b>Mean CIELAB difference (5 steps)</b>
C	21	48.8	-14.8	-30.3	244	47.0	-25.2	-24.0	224	-1.7	-10.3	6.3	12.2	12.3	<b>ΔH*<sub>CIELAB</sub> = 9.1</b>
	22	55.4	-20.8	-40.5	243	55.4	-20.8	-40.5	243	0.0	0.0	0.0	0.0	0.0	<b>ΔE*<sub>CIELAB</sub> = 9.1</b>
<b>Mean colour reproduction index:</b>													<b>R*<sub>ab,m</sub> = 51</b>		

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



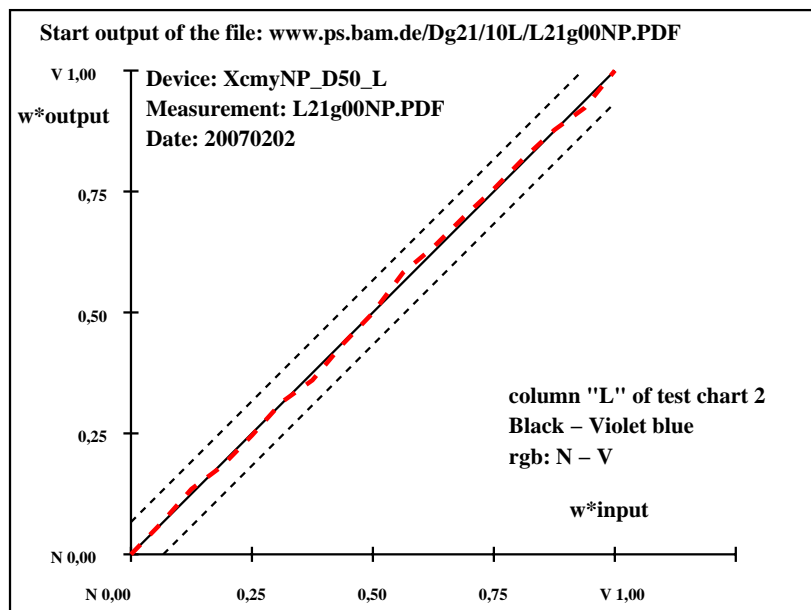
De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

```
input: cmy0 setcmykcolor
output: no change compared to input
```

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De.HTM](http://www.ps.bam.de/De.HTM)  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

T	i	LAB*a <sub>ref</sub>			hab.ref			LAB*a <sub>out</sub>			hab.out			LAB*a <sub>out</sub> /c-ref ΔH* ΔE*						<b>Start output S1</b>	
N	1	28.9	3.0	0.5	9	28.9	3.0	0.5	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>Specification according to</b>	
	2	28.6	3.6	-1.7	334	28.6	3.8	-1.7	335	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	<b>ISO/IEC 15775:1999 Annex G</b>	
	3	28.4	4.2	-4.0	316	28.5	3.6	-4.5	308	0.1	-0.5	-0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	<b>and DIN 33866-1:2000 Annex G</b>	
	4	28.2	4.8	-6.3	307	27.9	4.5	-6.1	306	-0.2	-0.2	0.2	0.4	0.5	0.5	0.5	0.5	0.5	0.5	<b>relative CIELAB data used for "out"</b>	
	5	28.0	5.4	-8.6	302	27.5	5.6	-8.3	304	-0.4	0.2	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	<b>ΔL* = 25.53 – 28.85</b>	
	6	27.8	6.0	-10.9	299	26.8	5.8	-10.9	298	-0.9	-0.1	0.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	<b>Regularity</b>	
	7	27.6	6.6	-13.2	297	26.5	6.3	-12.5	297	-1.0	-0.2	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	<b>g* = 19.3</b>	
	8	27.4	7.2	-15.5	295	26.0	6.1	-15.4	291	-1.3	-1.0	0.1	1.1	1.8	1.8	1.8	1.8	1.8	1.8		
	9	27.2	7.9	-17.8	294	26.2	7.0	-17.8	291	-0.9	-0.7	0.0	0.9	1.3	1.3	1.3	1.3	1.3	1.3	<b>Lightness gamut relative to offset</b>	
	10	27.0	8.5	-20.0	293	25.8	7.6	-20.9	290	-1.1	-0.8	-0.8	1.2	1.7	1.7	1.7	1.7	1.7	1.7	<b>f* = -4.2</b>	
	11	26.8	9.1	-22.3	292	25.5	8.6	-22.7	291	-1.2	-0.4	-0.3	0.6	1.4	1.4	1.4	1.4	1.4	1.4		
	12	26.6	9.7	-24.6	291	25.5	8.4	-25.2	288	-0.9	-1.2	-0.5	1.4	1.7	1.7	1.7	1.7	1.7	1.7	<b>Black – Violet blue</b>	
	13	26.4	10.3	-26.9	291	25.3	9.1	-27.3	288	-1.0	-1.1	-0.3	1.2	1.6	1.6	1.6	1.6	1.6	1.6	<b>rgb: N – V</b>	
	14	26.2	10.9	-29.2	290	25.2	9.6	-29.7	288	-0.8	-1.2	-0.4	1.4	1.7	1.7	1.7	1.7	1.7	1.7		
	15	25.9	11.5	-31.5	290	25.5	10.5	-31.8	288	-0.3	-0.9	-0.2	1.0	1.1	1.1	1.1	1.1	1.1	1.1	<b>Mean CIELAB difference (17 steps)</b>	
	16	25.7	12.1	-33.8	290	25.5	11.3	-33.4	289	-0.2	-0.7	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	<b>ΔH*CIELAB = 0.7</b>	
V	17	25.5	12.7	-36.1	289	25.5	12.7	-36.1	289	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>ΔE*CIELAB = 1.0</b>	
N	18	28.9	3.0	0.5	9	28.9	3.0	0.5	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	19	28.0	5.4	-8.6	302	27.5	5.6	-8.3	304	-0.4	0.2	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6		
	20	27.2	7.9	-17.8	294	26.2	7.0	-17.8	291	-0.9	-0.7	0.0	0.9	1.3	1.3	1.3	1.3	1.3	1.3	<b>Mean CIELAB difference (5 steps)</b>	
	21	26.4	10.3	-26.9	291	25.3	9.1	-27.3	288	-1.0	-1.1	-0.3	1.2	1.6	1.6	1.6	1.6	1.6	1.6	<b>ΔH*CIELAB = 0.5</b>	
V	22	25.5	12.7	-36.1	289	25.5	12.7	-36.1	289	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>ΔE*CIELAB = 0.7</b>	
<b>Mean colour reproduction index:</b>																			<b>R*<sub>ab,m</sub> = 96</b>		

De190-3N.: Device: XcmvNP D50 L: Measurement: L21g00NP.PDF: Date: 20070202

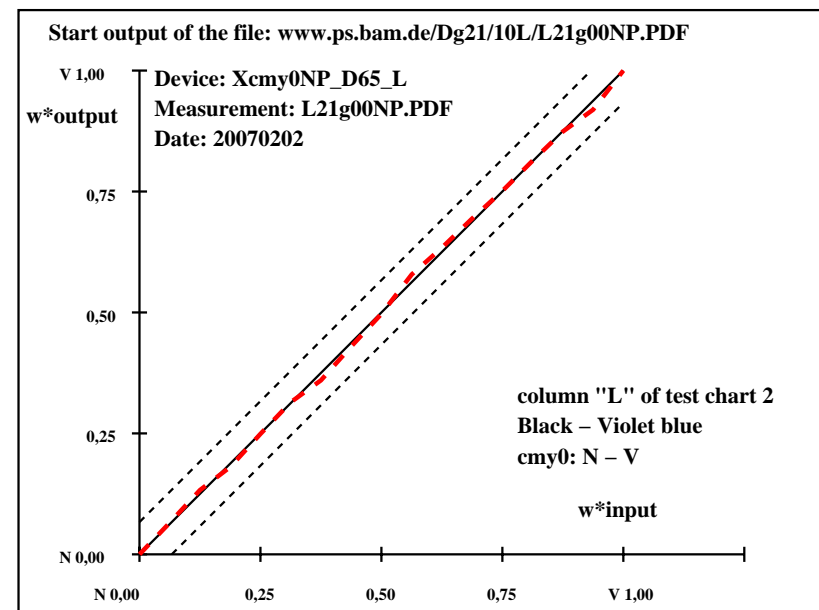


Del90-7N.; Device: XcmyNP\_D50\_L; Measurement: L2lg00NP.PDF; Date: 20070202

Output specification of the test chart 2 according to DIN 33872-1  
17 step colour scale "L"; D50 and D65 illuminant, Page 12/24

T	i	LAB*a,ref			hab,ref	LAB*a,a,out			hab,out	LAB*a,a,out/c-ref- $\Delta E^*$				Start output S1	
N	1	28.9	2.7	0.4	8	28.9	2.7	0.4	8	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	28.7	3.7	-1.8	333	28.7	3.9	-1.8	334	0.0	0.2	0.0	0.2	0.2	ISO/IEC 15775:1999 Annex G
	3	28.6	4.8	-4.0	319	28.7	4.1	-4.6	311	0.1	-0.6	-0.5	0.9	0.9	and DIN 33866-1:2000 Annex G
	4	28.4	5.8	-6.3	312	28.1	5.2	-6.2	310	-0.2	-0.5	0.1	0.6	0.7	relative CIELAB data used for "out"
	5	28.2	6.8	-8.6	308	27.7	6.7	-8.5	308	-0.5	0.0	0.1	0.1	0.6	$\Delta L^* = 26.19 - 28.92$
	6	28.1	7.9	-10.8	306	27.0	7.3	-11.0	303	-1.0	-0.5	-0.1	0.6	1.2	Regularity
	7	27.9	8.9	-13.1	304	26.7	8.1	-12.6	303	-1.1	-0.7	0.5	0.9	1.5	$g^* = 34.7$
	8	27.7	9.9	-15.3	303	26.3	8.5	-15.4	299	-1.4	-1.3	0.0	1.4	2.0	
	9	27.6	11.0	-17.6	302	26.5	9.9	-17.8	299	-1.0	-1.0	-0.1	1.1	1.5	Lightness gamut relative to offset
	10	27.4	12.0	-19.9	301	26.2	11.1	-20.8	298	-1.1	-0.8	-0.8	1.3	1.8	$f^* = -3.4$
V	11	27.2	13.0	-22.1	300	25.9	12.5	-22.6	299	-1.2	-0.4	-0.4	0.7	1.5	
	12	27.0	14.0	-24.4	300	26.0	12.8	-25.1	297	-0.9	-1.1	-0.6	1.4	1.8	Black – Violet blue
	13	26.9	15.1	-26.7	299	25.8	13.9	-27.1	297	-1.0	-1.1	-0.3	1.3	1.7	cmY0: N – V
	14	26.7	16.1	-28.9	299	25.8	14.9	-29.4	297	-0.8	-1.1	-0.4	1.3	1.6	
	15	26.5	17.1	-31.2	299	26.1	16.2	-31.5	297	-0.4	-0.8	-0.2	1.0	1.1	Mean CIELAB difference (17 steps)
	16	26.4	18.2	-33.4	298	26.1	17.3	-33.0	298	-0.2	-0.8	0.4	1.0	1.0	$\Delta H^*_{CIELAB} = 0.8$
	17	26.2	19.2	-35.7	298	26.2	19.2	-35.7	298	0.0	0.0	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 1.1$
	18	28.9	2.7	0.4	8	28.9	2.7	0.4	8	0.0	0.0	0.0	0.0	0.0	
	19	28.2	6.8	-8.6	308	27.7	6.7	-8.5	308	-0.5	0.0	0.1	0.1	0.6	
	20	27.6	11.0	-17.6	302	26.5	9.9	-17.8	299	-1.0	-1.0	-0.1	1.1	1.5	Mean CIELAB difference (5 steps)
V	21	26.9	15.1	-26.7	299	25.8	13.9	-27.1	297	-1.0	-1.1	-0.3	1.3	1.7	$\Delta H^*_{CIELAB} = 0.5$
	22	26.2	19.2	-35.7	298	26.2	19.2	-35.7	298	0.0	0.0	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 0.8$
Mean colour reproduction index: $R^*_{ab,m} = 95$															

De191-3N.: Device: Xcmv0NP D65 L: Measurement: L21g00NP.PDF: Date: 20070202



Del91-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L2lg00NP.PDF; Date: 20070202

input: *cmy0 setcmykcolor*  
output: no change compared to input

T	i	LAB*a,ref				hab,ref				LAB*a,out				hab,out				LAB*a,out/c-ref				$\Delta H^*$	$\Delta E^*$	Start output S1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
N	1	29.3	1.9	0.8	23	29.3	1.9	0.8	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$
N	1	22.7	0.1	7.5	89	22.7	0.1	7.5
	2	27.2	0.1	7.0	89	25.1	0.3	7.5
	3	31.7	0.1	6.6	89	28.2	0.2	7.2
	4	36.3	0.1	6.1	89	33.3	0.2	6.6
	5	40.8	0.1	5.7	89	37.9	0.2	6.2
	6	45.4	0.1	5.2	89	43.3	0.1	5.6
	7	49.9	0.1	4.8	89	47.2	0.1	5.1
	8	54.5	0.1	4.3	89	52.6	0.0	4.7
Z	9	59.0	0.1	3.9	89	58.4	0.0	4.1
	10	63.5	0.0	3.4	89	63.4	0.0	3.4
	11	68.1	0.0	2.9	89	68.8	0.0	2.8
	12	72.6	0.0	2.5	89	73.5	0.0	2.6
	13	77.2	0.0	2.0	89	76.8	0.0	2.0
	14	81.7	0.0	1.6	89	81.7	0.0	1.7
	15	86.3	0.0	1.1	89	85.3	0.0	1.1
	16	90.8	0.0	0.7	89	88.9	0.0	0.7
W	17	95.4	0.0	0.2	90	95.4	0.0	0.2
N	18	22.7	0.1	7.5	89	22.7	0.1	7.5
	19	40.8	0.1	5.7	89	37.9	0.2	6.2
Z	20	59.0	0.1	3.9	89	58.4	0.0	4.1
	21	77.2	0.0	2.0	89	76.8	0.0	2.0
W	22	95.4	0.0	0.2	90	95.4	0.0	0.2

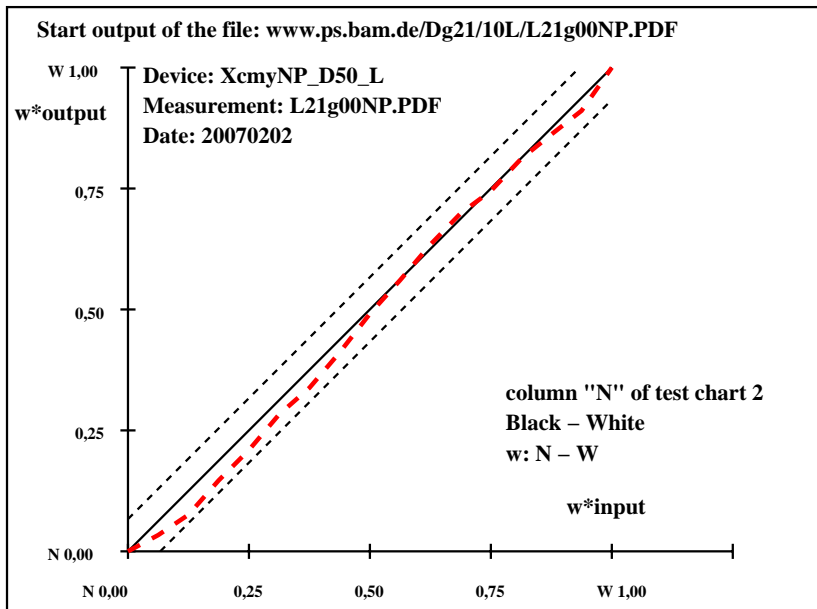
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.36 - 22.65$   
**Regularity**  
 $g^* = 74.5$   
**Lightness gamut relative to offset**  
 $f^* = 93.9$   
**Black - White**  
**w: N - W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^{*CIELAB} = 0.2$   
 $\Delta E^{*CIELAB} = 1.4$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^{*CIELAB} = 0.2$   
 $\Delta E^{*CIELAB} = 0.8$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 94$

De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

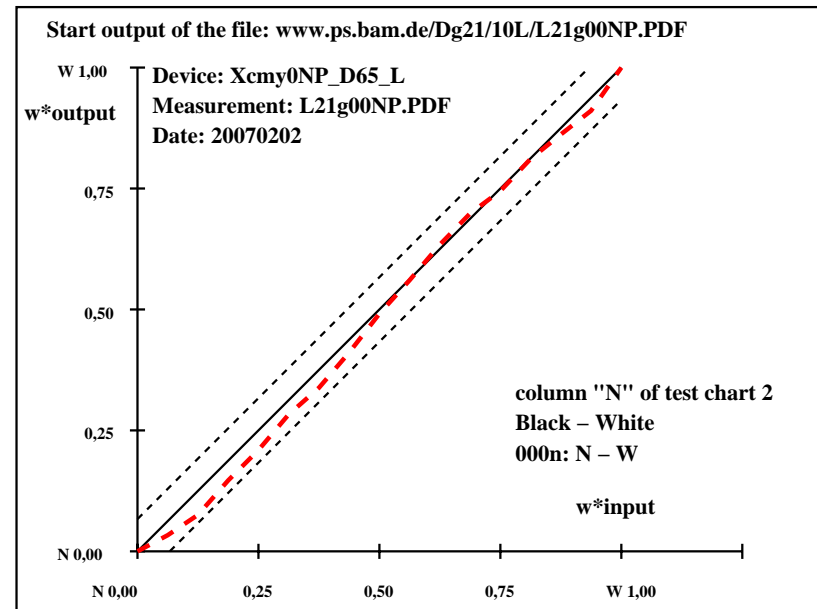
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$
N	1	22.6	0.2	7.1	88	22.6	0.2	7.1
	2	27.2	0.2	6.7	88	25.1	0.3	7.2
	3	31.7	0.2	6.2	88	28.1	0.3	6.9
	4	36.3	0.2	5.8	88	33.3	0.2	6.3
	5	40.8	0.2	5.4	88	37.9	0.2	5.9
	6	45.4	0.1	4.9	88	43.2	0.1	5.3
	7	49.9	0.1	4.5	88	47.2	0.1	4.8
	8	54.5	0.1	4.1	88	52.6	0.1	4.4
Z	9	59.0	0.1	3.7	88	58.4	0.0	3.9
	10	63.6	0.1	3.2	88	63.4	0.1	3.2
	11	68.1	0.1	2.8	88	68.8	0.0	2.7
	12	72.7	0.1	2.4	88	73.5	0.0	2.5
	13	77.2	0.1	1.9	89	76.9	0.1	1.9
	14	81.8	0.0	1.5	89	81.7	0.0	1.6
	15	86.3	0.0	1.1	89	85.4	0.0	1.0
	16	90.9	0.0	0.6	89	88.9	0.0	0.7
W	17	95.4	0.0	0.2	90	95.4	0.0	0.2
N	18	22.6	0.2	7.1	88	22.6	0.2	7.1
	19	40.8	0.2	5.4	88	37.9	0.2	5.9
Z	20	59.0	0.1	3.7	88	58.4	0.0	3.9
	21	77.2	0.1	1.9	89	76.9	0.1	1.9
W	22	95.4	0.0	0.2	90	95.4	0.0	0.2

**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.42 - 22.63$   
**Regularity**  
 $g^* = 74.4$   
**Lightness gamut relative to offset**  
 $f^* = 94.0$   
**Black - White**  
**000n: N - W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^{*CIELAB} = 0.2$   
 $\Delta E^{*CIELAB} = 1.4$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^{*CIELAB} = 0.2$   
 $\Delta E^{*CIELAB} = 0.8$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 94$

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

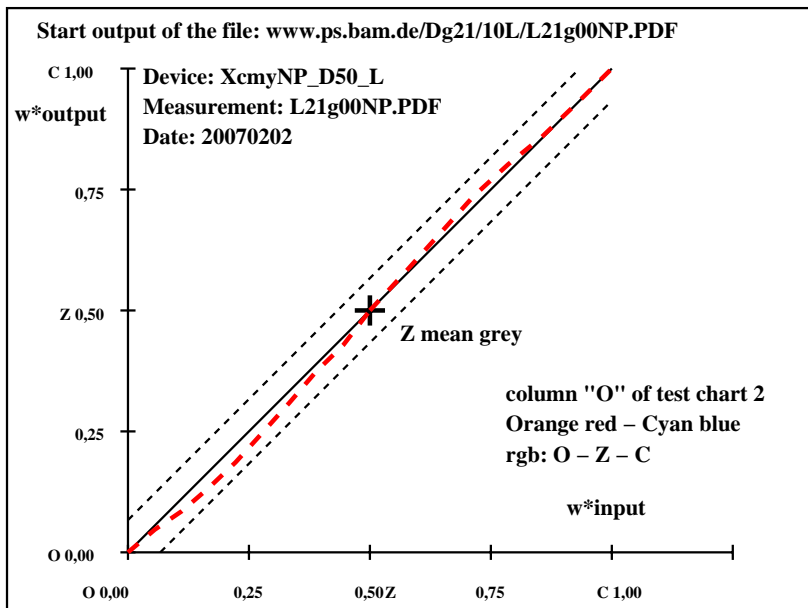


De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De.HTM](http://www.ps.bam.de/De.HTM)  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1						
O	1	50.1	62.1	48.9	38	50.1	62.1	48.9	38	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	50.5	54.3	43.6	39	50.3	55.7	43.6	38	-0.1	1.4	0.0	1.4	1.4	ISO/IEC 15775:1999 Annex G
	3	50.9	46.5	38.4	40	50.8	51.2	38.6	37	-0.1	4.7	0.2	4.7	4.7	and DIN 33866-1:2000 Annex G
	4	51.3	38.7	33.1	41	51.7	44.9	33.0	36	0.4	6.2	0.0	6.2	6.2	
	5	51.7	30.9	27.8	42	52.4	36.5	28.5	38	0.6	5.7	0.7	5.7	5.7	
	6	52.1	23.0	22.5	44	52.3	27.4	22.6	40	0.2	4.4	0.1	4.4	4.4	Regularity
	7	52.5	15.2	17.3	49	52.8	17.2	18.1	46	0.3	2.0	0.9	2.2	2.2	$g^* = 43.8$
	8	52.9	7.4	12.0	58	53.5	7.5	12.1	58	0.6	0.1	0.1	0.2	0.2	
Z	9	53.3	-0.3	6.7	93	53.3	-0.3	6.7	93	0.0	0.0	0.0	0.0	0.0	
	10	53.4	-3.8	0.4	174	53.2	-7.6	0.3	178	-0.1	-3.7	0.0	3.8	3.8	
	11	53.4	-7.3	-5.8	218	53.0	-13.4	-4.2	198	-0.3	-6.0	1.6	6.3	6.3	
	12	53.5	-10.8	-12.0	228	53.1	-18.2	-10.2	209	-0.3	-7.3	1.8	7.6	7.6	Orange red – Cyan blue
	13	53.6	-14.3	-18.3	232	53.0	-22.7	-16.4	216	-1.5	-8.3	1.9	8.6	8.8	rgb: O – Z – C
	14	53.6	-17.8	-24.6	234	52.9	-25.7	-22.2	221	-0.6	-7.8	2.4	8.2	8.3	
	15	53.7	-21.3	-30.9	235	52.7	-26.4	-28.8	227	-0.9	-5.0	2.1	5.5	5.6	Mean CIELAB difference (17 steps)
	16	53.7	-24.8	-37.1	236	53.1	-27.8	-35.8	232	-0.5	-2.9	1.3	3.3	3.3	$\Delta H^*_{CIELAB} = 4.0$
C	17	53.8	-28.3	-43.4	237	53.8	-28.3	-43.4	237	0.0	0.0	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 4.1$
O	18	50.1	62.1	48.9	38	50.1	62.1	48.9	38	0.0	0.0	0.0	0.0	0.0	
	19	51.7	30.9	27.8	42	52.4	36.5	28.5	38	0.6	5.7	0.7	5.7	5.7	
Z	20	53.3	-0.3	6.7	93	53.3	-0.3	6.7	93	0.0	0.0	0.0	0.0	0.0	Mean CIELAB difference (5 steps)
	21	53.6	-14.3	-18.3	232	52.0	-22.7	-16.4	216	-1.5	-8.3	1.9	8.6	8.8	$\Delta H^*_{CIELAB} = 2.9$
C	22	53.8	-28.3	-43.4	237	53.8	-28.3	-43.4	237	0.0	0.0	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 2.9$

De190-3N.; Device: XcmyNP D50 L; Measurement: L21g00NP.PDF; Date: 20070202

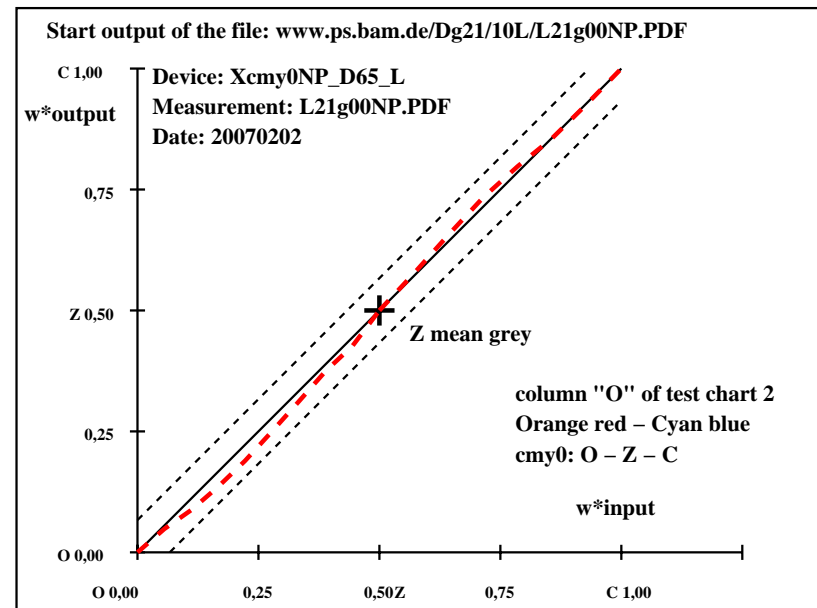


Del90-7N, ; Device: XcmyNP\_D50 L; Measurement: L2lg00NP.PDF; Date: 20070202

Output specification of the test chart 2 according to DIN 33872-1  
17 step colour scale "O"; D50 and D65 illuminant, Page 15/24

T	i	LAB*a <sub>ref</sub>			hab <sub>ref</sub>	LAB*a <sub>out</sub>			hab <sub>out</sub>	LAB*a <sub>out</sub> /c-ref ΔH* ΔE*				Start output S1	
O	1	48.3	58.2	45.6	38	48.3	58.2	45.6	38	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	48.9	50.7	40.7	39	48.7	51.8	40.6	38	-0.1	1.1	0.0	1.1	1.1	ISO/IEC 15775:1999 Annex G
	3	49.5	43.2	35.9	40	49.3	47.3	35.8	37	-0.2	4.1	0.0	4.1	4.1	and DIN 33866-1:2000 Annex G
	4	50.2	35.7	31.0	41	50.4	41.2	30.6	37	0.3	5.5	-0.3	5.5	5.5	
	5	50.8	28.2	26.2	43	51.3	33.0	26.5	39	0.5	4.8	0.4	4.8	4.8	
Z	6	51.5	20.7	21.3	46	51.5	24.3	21.1	41	0.1	3.6	-0.1	3.6	3.6	Regularity
	7	52.1	13.2	16.4	51	52.4	14.4	17.2	50	0.3	1.2	0.8	1.4	1.5	g* = 17.2
	8	52.7	5.7	11.6	64	53.3	5.4	11.7	65	0.6	-0.2	0.1	0.3	0.7	
	9	53.4	-1.7	6.7	105	53.4	-1.7	6.7	105	0.0	0.0	0.0	0.0	0.0	
	10	53.6	-4.0	0.8	169	53.5	-8.1	0.8	174	0.0	-4.0	0.0	4.1	4.1	
C	11	53.9	-6.3	-5.0	218	53.5	-13.0	-3.3	195	-0.3	-6.6	1.7	6.9	6.9	
	12	54.1	-8.6	-10.9	232	53.8	-16.8	-9.0	208	-0.3	-8.1	1.9	8.4	8.4	Orange red – Cyan blue
	13	54.4	-11.0	-16.8	237	52.9	-20.0	-14.8	217	-1.4	-9.0	2.0	9.3	9.4	cmy0: O – Z – C
	14	54.6	-13.3	-22.7	240	53.9	-21.8	-20.3	223	-0.6	-8.4	2.4	8.9	8.9	
	15	54.9	-15.6	-28.6	241	53.9	-21.3	-26.5	231	-0.9	-5.6	2.1	6.1	6.2	Mean CIELAB difference (17 steps)
O	16	55.1	-17.9	-34.5	243	54.5	-21.3	-33.2	237	-0.5	-3.3	1.3	3.7	3.7	ΔH* <sub>CIELAB</sub> = 4.0
	17	55.4	-20.2	-40.4	243	55.4	-20.2	-40.4	243	0.0	0.0	0.0	0.0	0.0	ΔE* <sub>CIELAB</sub> = 4.1
	18	48.3	58.2	45.6	38	48.3	58.2	45.6	38	0.0	0.0	0.0	0.0	0.0	
	19	50.8	28.2	26.2	43	51.3	33.0	26.5	39	0.5	4.8	0.4	4.8	4.8	
	20	53.4	-1.7	6.7	105	53.4	-1.7	6.7	105	0.0	0.0	0.0	0.0	0.0	Mean CIELAB difference (5 steps)
C	21	54.4	-11.0	-16.8	237	52.9	-20.0	-14.8	217	-1.4	-9.0	2.0	9.3	9.4	ΔH* <sub>CIELAB</sub> = 2.8
	22	55.4	-20.2	-40.4	243	55.4	-20.2	-40.4	243	0.0	0.0	0.0	0.0	0.0	ΔE* <sub>CIELAB</sub> = 2.8

Del91-3N.; Device: Xcmv0NP D65 L; Measurement: L21g00NP.PDF; Date: 20070202



Del91-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

input: *cmy0 setcmykcolor*  
output: no change compared to input

out	hab,out	LAB*a <sub>out</sub> /c-ref	ΔH <sup>a</sup> *	ΔE <sup>a</sup> *	Start output S1		
1	109.3	95	0.0	0.0	0.0	0.0	Specification according to ISO/IEC 15775:1999 Annex G and DIN 33866-1:2000 Annex G
3	91.3	95	-3.1	0.4	-5.1	5.2	
2	81.8	96	-1.9	-0.8	-1.8	2.1	

**Regularity**  
 $g^* = 52.3$

**Yellow – Violet blue**  
**rgb: Y – Z – V**

Mean CIELAB difference (17 steps)

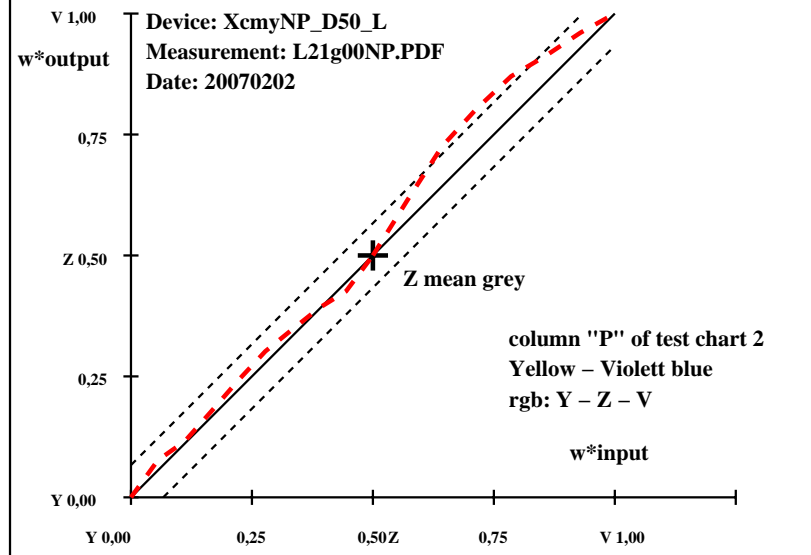
$$\Delta H^*_{\text{CIEIAR}} = 4.9$$
$$\Delta E^*_{\text{CIFLAR}} = 5.2$$

**Mean CIELAB difference (5 steps)**

$$\Delta H^*_{\text{CIEIAB}} = 3.3$$
$$\Delta E^*_{\text{CIELAB}} = 3.4$$

De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

Start output of the file: [www.ps.bam.de/Dg21/10L/L21g00NP.PDF](http://www.ps.bam.de/Dg21/10L/L21g00NP.PDF)



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

Output specification of the test chart 2 according to DIN 33872-1  
17 step colour scale "P"; D50 and D65 illuminant, Page 16/24

T	i	LAB*a.ref	hab.ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1									
Y	1	90.9	-17.3	110.7	99	90.9	-17.3	110.7	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	86.3	-15.2	97.7	99	83.1	-15.0	92.3	99	-3.1	0.2	-5.3	5.4	6.3				ISO/IEC 15775:1999 Annex G
	3	81.6	-13.1	84.7	99	79.6	-14.6	82.6	100	-1.9	-1.4	-2.0	2.6	3.3				and DIN 33866-1:2000 Annex G

8 **Regularity**  
7  $g^* = 51.7$

3 **Yellow – Violet blue**  
4 **cmv0: Y – Z – V**

8 Mean CIELAB difference (17 steps)

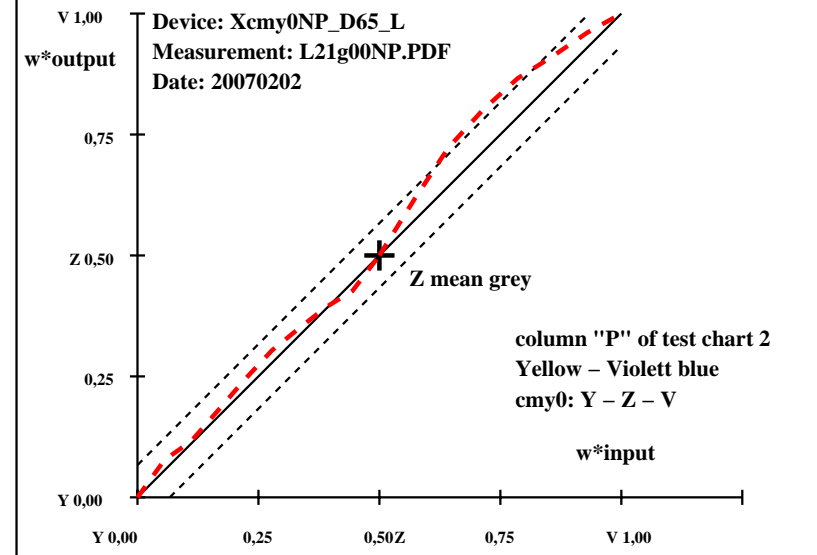
$$2 \Delta H^*_{\text{CTELAB}} = 5.1$$
$$0 \Delta E^*_{\text{CIFLAR}} = 5.4$$

0 Mean CIELAB difference (5 steps)

$$4 \Delta H^*_{\text{CTFLAB}} = 3.4$$
$$0 \leq \Delta E^*_{\text{CIELAB}} \leq 3.5$$

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

Start output of the file: [www.ps.bam.de/Dg21/10L/L21g00NP.PDF](http://www.ps.bam.de/Dg21/10L/L21g00NP.PDF)



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

input: *cmy0 setcmykcolor*  
output: no change compared to input

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De.HTM](http://www.ps.bam.de/De.HTM)  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

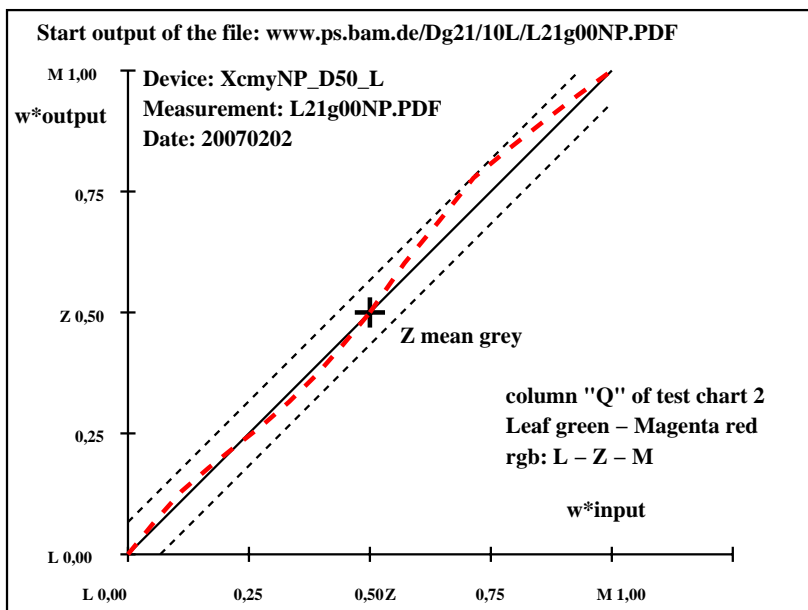
BAM registration: 20080301-De19/10/L19E0FNP.PS/PDF    BAM material: code=rha4ta  
application for output of monitor, data projector, or printer systems

BAM material: code=rha4ta

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De.HTM](http://www.ps.bam.de/De.HTM)  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1					
L	1	50.7–58.6	31.2	152	50.7–58.6	31.2	152	0.0	0.0	0.0	0.0	0.0	Specification according to	
	2	51.0–51.3	28.1	151	52.4–50.2	26.1	153	1.4	1.1	-1.9	2.3	2.6	ISO/IEC 15775:1999 Annex G	
	3	51.4–44.1	24.9	151	52.7–42.5	21.1	154	1.4	1.6	-3.7	4.1	4.3	and DIN 33866-1:2000 Annex G	
	4	51.7–36.8	21.8	149	53.3–36.6	17.3	155	1.5	0.2	-4.4	4.5	4.7		
	5	52.1–29.6	18.6	148	52.8–30.2	15.2	153	0.7	-0.5	-3.3	3.5	3.5		
	6	52.4–22.3	15.5	145	52.7–24.2	12.9	152	0.3	-1.8	-2.5	3.2	3.2	Regularity	
	7	52.8–15.0	12.3	141	53.0–17.4	10.5	149	0.2	-2.3	-1.7	3.0	3.0	$g^* = 16.7$	
	8	53.1–7.8	9.2	131	53.6–9.5	8.5	138	0.5	-1.6	-0.5	1.9	1.9		
	9	53.5–0.5	6.0	96	53.5–0.5	6.0	96	0.0	0.0	0.0	0.0	0.0		
	10	52.8	7.2	5.1	36	53.5	8.9	4.3	26	0.6	1.7	-0.7	1.9	2.0
Z	11	52.1	14.9	4.2	16	53.0	19.6	2.7	8	0.9	4.7	-1.4	4.9	5.0
	12	51.5	22.7	3.3	8	53.8	28.5	0.2	0	2.3	5.8	-3.0	6.6	7.0
	13	50.8	30.5	2.5	5	52.3	37.8	-1.6	357	1.4	7.4	-4.1	8.4	8.6
	14	50.2	38.2	1.6	2	51.4	44.2	-1.2	358	1.2	6.0	-2.8	6.6	6.7
	15	49.5	46.0	0.7	1	50.0	50.0	-2.3	357	0.5	4.0	-3.0	5.1	5.1
	16	48.8	53.7	-0.1	360	49.1	55.8	-2.5	357	0.3	2.1	-2.3	3.2	3.2
	17	48.2	61.5	-1.0	359	48.2	61.5	-1.0	359	0.0	0.0	0.0	0.0	0.0
	18	50.7–58.6	31.2	152	50.7–58.6	31.2	152	0.0	0.0	0.0	0.0	0.0		
	19	52.1–29.6	18.6	148	52.8–30.2	15.2	153	0.7	-0.5	-3.3	3.5	3.5		
	20	53.5–0.5	6.0	96	53.5–0.5	6.0	96	0.0	0.0	0.0	0.0	0.0	Mean CIELAB difference (17 steps)	
M	21	50.8	30.5	2.5	5	52.3	37.8	-1.6	357	1.4	7.4	-4.1	8.4	8.6
													$\Delta H^*_{CIELAB} = 2.4$	
	22	48.2	61.5	-1.0	359	48.2	61.5	-1.0	359	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 2.4$	
	18	50.7–58.6	31.2	152	50.7–58.6	31.2	152	0.0	0.0	0.0	0.0	0.0		
	19	52.1–29.6	18.6	148	52.8–30.2	15.2	153	0.7	-0.5	-3.3	3.5	3.5		
	20	53.5–0.5	6.0	96	53.5–0.5	6.0	96	0.0	0.0	0.0	0.0	0.0	Mean CIELAB difference (5 steps)	
	21	50.8	30.5	2.5	5	52.3	37.8	-1.6	357	1.4	7.4	-4.1	8.4	8.6
													$\Delta H^*_{CIELAB} = 2.4$	
	22	48.2	61.5	-1.0	359	48.2	61.5	-1.0	359	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 2.4$	

De190-3N.; Device: XcmyNP D50 L; Measurement: L21g00NP.PDF; Date: 20070202

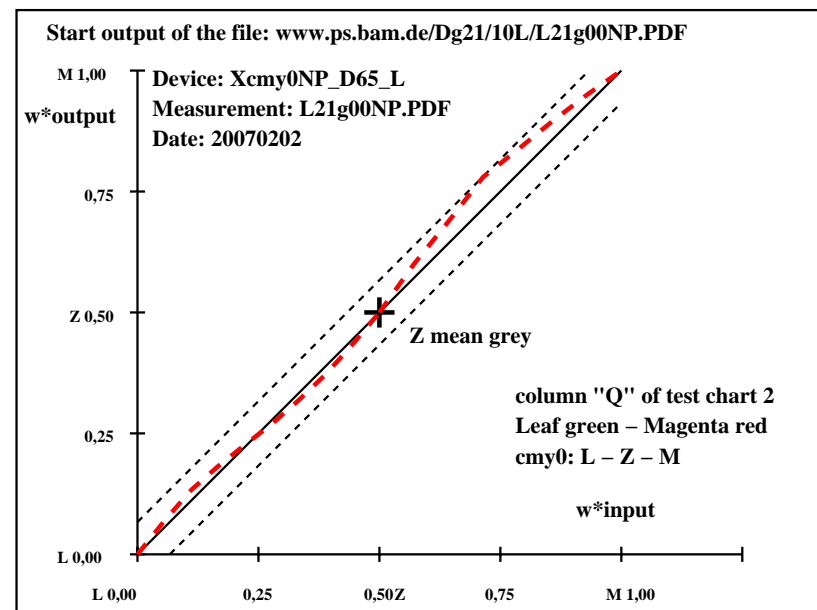


De190-7N.; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

Output specification of the test chart 2 according to DIN 33872-1  
17 step colour scale "Q"; D50 and D65 illuminant, Page 17/24

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1						
L	1	51.5	-61.7	33.8	151	51.5	-61.7	33.8	151	0.0	0.0	0.0	0.0	0.0	Specification according to
	2	51.7	-54.2	30.3	151	53.1	-52.9	28.3	152	1.4	1.3	-1.9	2.4	2.8	ISO/IEC 15775:1999 Annex G
	3	52.0	-46.7	26.9	150	53.4	-44.7	23.0	153	1.4	2.0	-3.8	4.4	4.6	and DIN 33866-1:2000 Annex G
	4	52.2	-39.2	23.4	149	53.9	-38.4	19.0	154	1.6	0.8	-4.3	4.5	4.8	
	5	52.5	-31.8	20.0	148	53.3	-31.9	16.6	153	0.8	0.0	-3.3	3.4	3.4	
	6	52.8	-24.3	16.5	146	53.1	-25.8	14.0	152	0.4	-1.4	-2.4	2.9	2.9	Regularity
	7	53.0	-16.8	13.0	142	53.3	-18.8	11.3	149	0.3	-1.9	-1.6	2.7	2.7	$g^* = 4.8$
	8	53.3	-9.3	9.6	134	53.8	-10.9	9.0	141	0.5	-1.5	-0.5	1.7	1.8	
Z	9	53.5	-1.8	6.1	107	53.5	-1.8	6.1	107	0.0	0.0	0.0	0.0	0.0	
	10	52.7	6.0	4.8	39	53.3	7.6	3.9	27	0.7	1.6	-0.8	1.8	2.0	
	11	51.8	13.9	3.4	14	52.7	18.3	1.8	6	0.8	4.4	-1.5	4.7	4.8	
	12	51.0	21.7	2.1	5	53.3	27.5	-1.0	358	2.3	5.8	-3.1	6.6	7.0	Leaf green – Magenta red
	13	50.2	29.6	0.8	1	51.5	37.1	-3.6	354	1.4	7.5	-4.4	8.7	8.8	cmY0: L – Z – M
	14	49.3	37.5	-0.5	359	50.5	43.4	-3.5	355	1.2	5.9	-2.9	6.6	6.7	
	15	48.5	45.4	-1.8	358	48.9	49.5	-5.0	354	0.5	4.2	-3.1	5.2	5.2	Mean CIELAB difference (17 steps)
	16	47.6	53.2	-3.2	356	47.9	55.4	-5.6	354	0.3	2.2	-2.3	3.3	3.3	$\Delta H^*_{CIELAB} = 3.5$
M	17	46.8	61.1	-4.5	356	46.8	61.1	-4.5	356	0.0	0.0	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 3.6$
	18	51.5	-61.7	33.8	151	51.5	-61.7	33.8	151	0.0	0.0	0.0	0.0	0.0	
L	19	52.5	-31.8	20.0	148	53.3	-31.9	16.6	153	0.8	0.0	-3.3	3.4	3.4	
	20	53.5	-1.8	6.1	107	53.5	-1.8	6.1	107	0.0	0.0	0.0	0.0	0.0	Mean CIELAB difference (5 steps)
Z	21	50.2	29.6	0.8	1	51.5	37.1	-3.6	354	1.4	7.5	-4.4	8.7	8.8	$\Delta H^*_{CIELAB} = 2.4$
	22	46.8	61.1	-4.5	356	46.8	61.1	-4.5	356	0.0	0.0	0.0	0.0	0.0	$\Delta E^*_{CIELAB} = 2.5$

Del91-3N.; Device: Xcmv0NP D65 L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N.; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

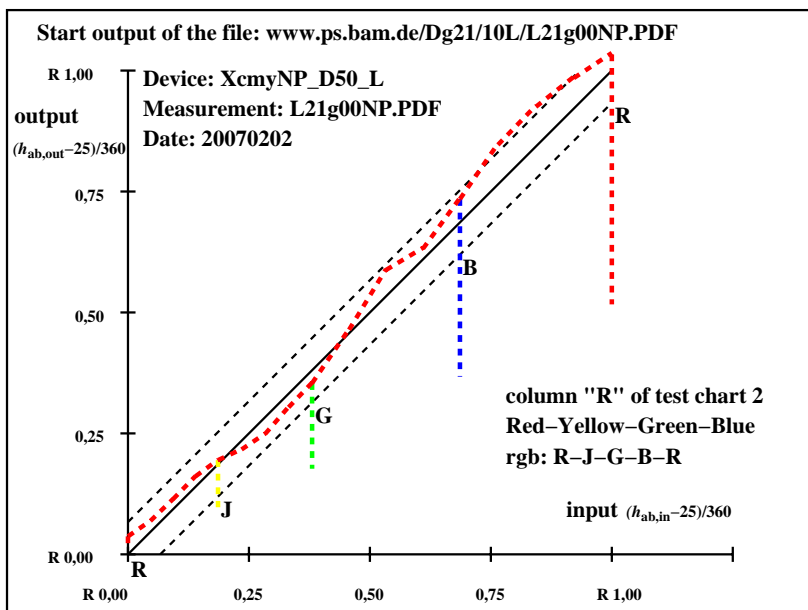
input: *cmy0 setcmykcolor*  
output: no change compared to input

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De.HTM](http://www.ps.bam.de/De.HTM)  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

BAM registration: 20080301-De19/10/L19E0HNP.PS.PDF BAM material: code=rha4ta  
- application for output of monitor, data projector, or printer systems

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out-ref	ΔH* ΔE*	Start output S1							
R	1	48.3	63.6	29.6	25	49.9	62.0	49.1	38	1.6	-1.5	19.5	19.5	19.6	Specification according to
	2	50.5	60.1	53.6	42	57.0	48.9	58.1	50	6.5	-11.1	4.5	12.0	13.7	ISO/IEC 15775:1999 Annex G
	3	61.1	42.0	68.6	58	66.6	31.8	71.5	66	5.5	-10.1	2.9	10.6	12.0	and DIN 33866-1:2000 Annex G
	4	72.6	22.3	84.8	75	78.4	11.0	90.3	83	5.8	-11.2	5.5	12.6	13.9	
J	5	87.8	-3.6	106.4	92	91.4	-9.8	110.8	95	3.6	-6.1	4.4	7.6	8.4	
	6	75.2	-28.6	81.1	110	78.1	-19.9	86.4	103	2.9	8.7	5.3	10.2	10.6	
	7	62.7	-43.4	57.7	127	66.4	-27.9	61.3	115	3.7	15.5	3.6	15.9	16.3	
	8	52.8	-55.0	39.3	145	58.6	-42.4	43.4	134	5.8	12.6	4.1	13.2	14.4	
G	9	49.0	-55.2	18.0	162	49.7	-57.9	30.3	152	0.7	-2.6	12.3	12.6	12.7	
	10	51.1	-44.0	-7.3	190	52.2	-46.0	-9.8	192	1.1	-1.9	-2.4	3.2	3.4	
C'	11	52.6	-35.5	-26.7	217	55.7	-28.3	-43.0	237	3.0	7.2	-16.2	17.8	18.1	
	12	49.1	-20.4	-42.9	245	42.8	-11.5	-36.6	252	-6.1	8.9	6.3	10.9	12.6	Red-Yellow-Green-Blue
B	13	34.1	1.3	-38.5	272	26.9	12.7	-36.0	289	-7.0	11.4	2.5	11.6	13.6	rgb: R-J-G-B-R
	14	27.1	19.1	-32.6	300	36.8	39.9	-23.2	330	9.6	20.8	9.4	22.8	24.8	
M'	15	34.8	35.0	-21.4	329	49.1	61.6	-2.0	358	14.3	26.6	19.4	32.9	35.9	Mean CIELAB difference (17 steps)
	16	47.1	60.5	-3.3	357	49.7	62.9	22.2	19	2.5	2.4	25.6	25.7	25.9	ΔH* <sub>CIELAB</sub> = 14.1
R	17	48.3	63.6	29.6	25	49.0	63.5	47.9	37	0.7	0.0	18.3	18.3	18.3	ΔE* <sub>CIELAB</sub> = 16.1
R	18	48.3	63.6	29.6	25	49.9	62.0	49.1	38	1.6	-1.5	19.5	19.5	19.6	
J	19	87.8	-3.6	106.4	92	91.4	-9.8	110.8	95	3.6	-6.1	4.4	7.6	8.4	
G	20	49.0	-55.2	18.0	162	49.7	-57.9	30.3	152	0.7	-2.6	12.3	12.6	12.7	Mean CIELAB difference (5 steps)
B	21	34.1	1.3	-38.5	272	26.9	12.7	-36.0	289	-7.0	11.4	2.5	11.6	13.6	ΔH* <sub>CIELAB</sub> = 10.3
R	22	48.3	63.6	29.6	25	49.0	63.5	47.9	37	0.7	0.0	18.3	18.3	18.3	ΔE* <sub>CIELAB</sub> = 14.5

De190-3N.; Device: XcmyNP D50 L; Measurement: L21g00NP.PDF; Date: 20070202

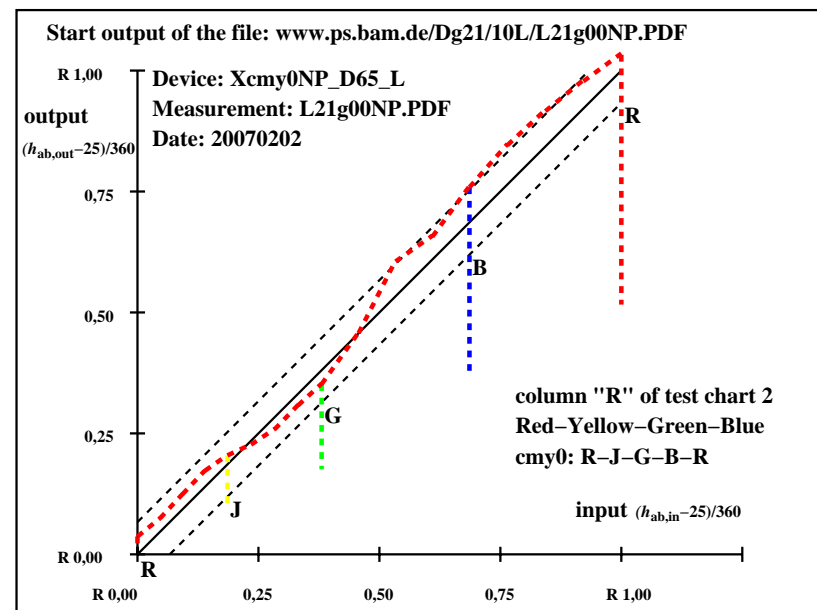


De190-7N.; Device: XcmyNP\_D50\_L; Measurement: L2lg00NP.PDF; Date: 20070202

Output specification of the test chart 2 according to DIN 33872-1  
17 step colour scale "R"; D50 and D65 illuminant, Page 18/24

T	i	LAB*a <sub>ref</sub>	hab <sub>ref</sub>	LAB*a <sub>out</sub>	hab <sub>out</sub>	LAB*a <sub>out-ref</sub>	ΔH* ΔE*	Start output S1
R	1	46.5	61.0	28.4	25	48.0 58.0 45.8 38	1.5 -2.9 17.4 17.6 17.7	<b>Specification according to</b>
	2	48.5	56.3	50.2	42	55.5 43.9 55.7 52	7.0 -12.3 5.5 13.5 15.2	<b>ISO/IEC 15775:1999 Annex G</b>
	3	58.2	39.6	64.6	58	65.4 25.9 70.2 70	7.2 -13.6 5.6 14.8 16.4	<b>and DIN 33866-1:2000 Annex G</b>
	4	68.8	21.1	80.3	75	87.5 4.3 90.4 87	8.7 -16.7 10.1 19.6 21.5	
J	5	83.0	-3.4	101.4	92	90.8 -17.0 112.2 99	7.8 -13.5 10.8 17.3 19.0	
	6	77.8	-31.2	88.3	110	77.8 -26.2 88.0 107	0.0 5.0 -0.2 5.0 5.0	
	7	64.0	-46.6	61.9	127	66.4 -33.3 62.8 118	2.4 13.3 0.9 13.3 13.5	
	8	53.5	-58.4	41.7	145	59.1 -46.7 45.4 136	5.6 11.7 3.7 12.3 13.5	
G	9	50.3	-54.5	17.7	162	50.5 -60.9 32.9 152	0.3 -6.3 15.2 16.5 16.5	
	10	52.5	-40.0	-6.6	190	53.3 -43.5 -7.3 190	0.8 -3.4 -0.6 3.6 3.7	
C	11	54.0	-30.4	-22.9	217	57.2 -20.4 -40.0 243	3.3 10.0 -17.0 19.8 20.1	
	12	55.6	-19.6	-41.1	245	44.0 -5.1 -34.8 262	-11.6 14.5 6.3 15.8 19.6	<b>Red-Yellow-Green-Blue</b>
B	13	40.2	1.3	-38.4	272	27.6 19.1 -35.6 298	-12.2 17.8 2.8 18.0 22.0	<b>cmY0: R-J-G-B-R</b>
	14	25.8	20.8	-35.5	300	36.4 42.4 -24.9 329	10.6 21.6 10.6 24.1 26.3	
M	15	34.2	38.0	-23.2	329	47.8 61.3 -5.5 355	13.5 23.3 17.7 29.3 32.2	<b>Mean CIELAB difference (17 steps)</b>
	16	46.9	62.5	-3.4	357	48.0 60.4 18.5 17	1.1 -2.0 22.0 22.2 22.2	<b>ΔH*<sub>CIELAB</sub> = 15.4</b>
R	17	46.5	61.0	28.4	25	47.1 59.6 44.4 37	0.6 -1.3 16.0 16.0 16.0	<b>ΔE*<sub>CIELAB</sub> = 17.7</b>
R	18	46.5	61.0	28.4	25	48.0 58.0 45.8 38	1.5 -2.9 17.4 17.6 17.7	
J	19	83.0	-3.4	101.4	92	90.8 -17.0 112.2 99	7.8 -13.5 10.8 17.3 19.0	
G	20	50.3	-54.5	17.7	162	50.5 -60.9 32.9 152	0.3 -6.3 15.2 16.5 16.5	<b>Mean CIELAB difference (5 steps)</b>
B	21	40.2	1.3	-38.4	272	27.6 19.1 -35.6 298	-12.6 17.8 2.8 18.0 22.0	<b>ΔH*<sub>CIELAB</sub> = 13.9</b>
R	22	46.5	61.0	28.4	25	47.1 59.6 44.4 37	0.6 -1.3 16.0 16.0 16.0	<b>ΔE*<sub>CIELAB</sub> = 18.3</b>

Del91-3N.; Device: Xcmv0NP D65 L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N.; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

input: *cmy0 setcmykcolor*  
output: no change compared to input



See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De19/10L/L19E0INP.PS/.PDF](http://www.ps.bam.de/De19/10L/L19E0INP.PS/.PDF)  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

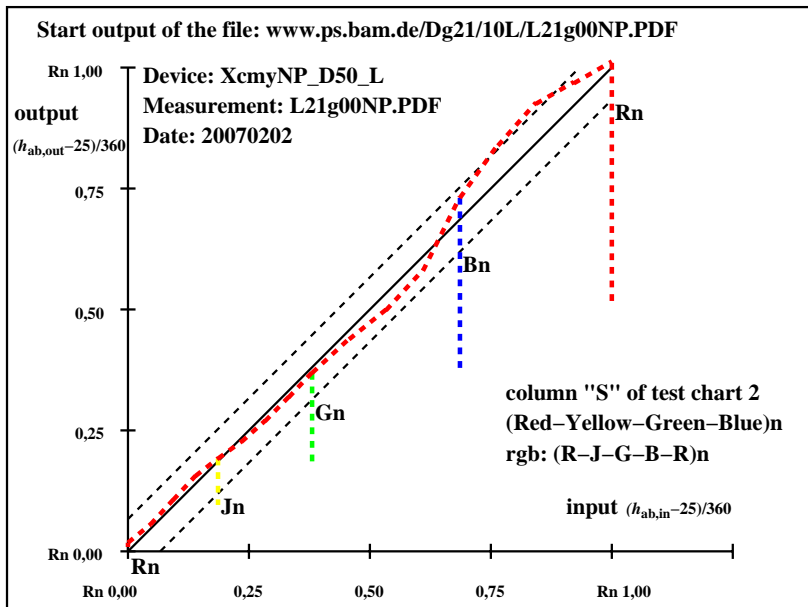
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application for output of monitor, data projector, or printer systems

Start output S1													Specification according to	
ISO/IEC 15775:1999 Annex G													and DIN 33866-1:2000 Annex G	
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out-ref	ΔH*	ΔE*						
R	1	37.5	31.8	14.8	25	40.2	37.3	22.8	31	2.6	5.5	8.0	9.7	10.0
	2	38.7	30.0	26.8	42	42.8	28.4	28.4	45	4.1	-1.5	1.6	2.3	4.7
	3	43.9	21.0	34.3	58	46.4	18.0	35.5	63	2.4	-2.9	1.2	3.2	4.1
	4	49.7	11.2	42.4	75	50.7	6.7	42.6	81	1.0	-4.4	0.2	4.5	4.6
J	5	57.3	-1.8	53.2	92	53.7	-3.3	48.3	94	-3.5	-1.4	-4.8	5.1	6.2
	6	51.0	-14.3	40.5	110	49.8	-11.6	39.4	107	-1.1	2.7	-1.0	2.9	3.1
	7	44.7	-21.6	28.8	127	46.3	-19.3	31.2	122	1.6	2.3	2.4	3.3	3.7
	8	39.8	-27.4	19.6	145	42.7	-26.7	22.9	139	2.9	0.7	3.3	3.3	4.4
G	9	37.9	-27.5	9.0	162	39.7	-33.9	13.9	158	1.8	-6.3	4.9	8.0	8.2
	10	38.9	-22.0	-3.6	190	39.8	-31.3	-1.4	183	0.9	-9.2	2.2	9.6	9.6
C	11	39.7	-17.7	-13.3	217	40.6	-26.8	-12.1	204	0.9	-9.0	1.2	9.2	9.2
	12	37.9	-10.2	-21.4	245	33.5	-11.7	-16.0	234	-4.3	-1.4	5.4	5.6	7.1
B	13	30.4	0.7	-19.2	272	27.0	6.3	-19.2	288	-3.4	5.6	0.0	5.6	6.6
	14	27.0	9.5	-16.3	300	30.9	20.5	-13.3	327	3.9	11.0	3.0	11.4	12.0
M	15	30.8	17.5	-10.6	329	37.6	37.0	-1.2	358	6.7	19.5	9.4	21.7	22.7
	16	37.0	30.2	-1.6	357	37.4	36.9	8.7	13	0.4	6.7	10.4	12.4	12.4
	17	37.5	31.8	14.8	25	37.9	37.4	20.3	28	0.4	5.6	5.5	7.8	7.9
	18	37.5	31.8	14.8	25	40.2	37.3	22.8	31	2.6	5.5	8.0	9.7	10.0
J	19	57.3	-1.8	53.2	92	53.7	-3.3	48.3	94	-3.5	-1.4	-4.8	5.1	6.2
G	20	37.9	-27.5	9.0	162	39.7	-33.9	13.9	158	1.8	-6.3	4.9	8.0	8.2
	21	30.4	0.7	-19.2	272	27.0	6.3	-19.2	288	-3.4	5.6	0.0	5.6	6.6
	22	37.5	31.8	14.8	25	37.9	37.4	20.3	28	0.4	5.6	5.5	7.8	7.9
Mean CIELAB difference (17 steps)													(Red-Yellow-Green-Blue)n	
ΔH*CIELAB = 6.9													rgb: (R-J-G-B-R)n	
ΔE*CIELAB = 8.0													Mean CIELAB difference (5 steps)	
ΔH*CIELAB = 5.7														
ΔE*CIELAB = 8.1														

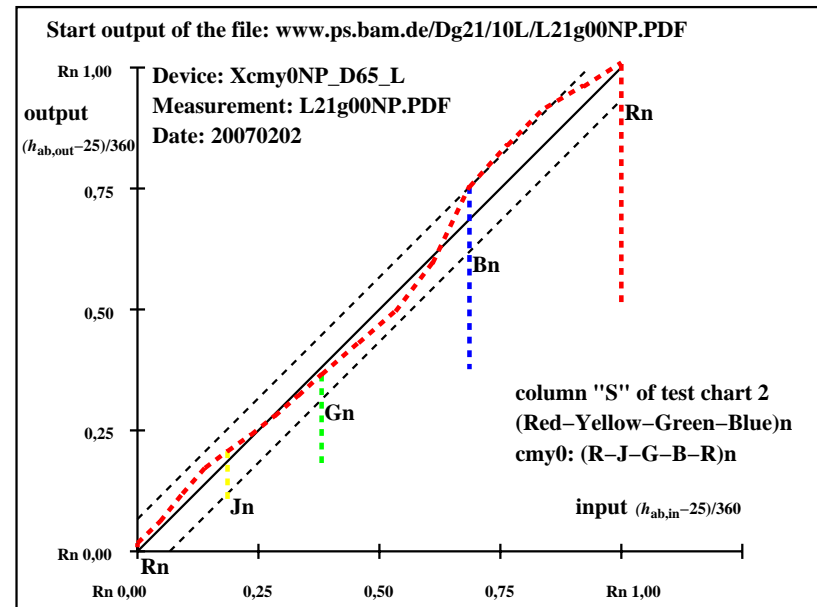
De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

Start output S1													Specification according to	
ISO/IEC 15775:1999 Annex G													and DIN 33866-1:2000 Annex G	
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out-ref	ΔH*	ΔE*						
R	1	36.7	30.5	14.2	25	39.2	34.5	20.8	31	2.4	4.0	6.6	7.7	8.1
	2	37.7	28.1	25.1	42	42.0	25.1	27.0	47	4.3	-2.9	1.9	3.6	5.6
	3	42.5	19.8	32.3	58	45.8	14.1	34.7	68	3.2	-5.6	2.4	6.2	7.0
	4	47.9	10.6	40.1	75	50.3	2.2	42.4	87	2.4	-8.3	2.3	8.7	9.0
J	5	55.0	-1.7	50.7	92	53.5	-8.0	48.6	99	-1.4	-6.2	-2.0	6.7	6.8
	6	52.4	-15.5	44.1	110	49.7	-15.8	40.0	112	-2.5	-0.2	-4.0	4.1	4.9
	7	45.5	-23.2	31.0	127	46.5	-22.8	32.1	126	1.0	0.4	1.1	1.2	1.6
	8	40.2	-29.1	20.9	145	43.1	-29.3	24.1	141	2.9	-0.1	3.2	3.2	4.3
G	9	38.6	-27.2	8.9	162	40.3	-35.3	15.4	156	1.7	-8.0	6.5	10.4	10.6
	10	39.7	-19.9	-3.3	190	40.6	-30.5	0.0	180	0.9	-10.5	3.4	11.1	11.1
C	11	40.5	-15.1	-11.4	217	41.5	-24.3	-10.5	203	1.0	-9.1	0.9	9.2	9.3
	12	41.3	-9.7	-20.5	245	34.2	-8.9	-15.0	239	-7.0	0.8	5.5	5.6	9.0
B	13	33.6	0.7	-19.1	272	27.3	9.4	-19.1	296	-6.2	8.7	0.0	8.7	10.7
	14	26.4	10.4	-17.7	300	30.8	21.9	-14.1	327	4.4	11.5	3.6	12.1	12.8
M	15	30.6	19.0	-11.5	329	36.8	36.5	-3.1	355	6.2	17.5	8.4	19.4	20.4
	16	36.9	31.3	-1.7	357	36.5	35.4	6.7	11	-0.3	4.1	8.5	9.4	9.4
	17	36.7	30.5	14.2	25	37.0	34.9	18.3	28	0.2	4.4	4.1	6.0	6.0
	18	36.7	30.5	14.2	25	39.2	34.5	20.8	31	2.4	4.0	6.6	7.7	8.1
J	19	55.0	-1.7	50.7	92	53.5	-8.0	48.6	99	-1.4	-6.2	-2.0	6.7	6.8
G	20	38.6	-27.2	8.9	162	40.3	-35.3	15.4	156	1.7	-8.0	6.5	10.4	10.6
	21	33.6	0.7	-19.1	272	27.3	9.4	-19.1	296	-6.2	8.7	0.0	8.7	10.7
	22	36.7	30.5	14.2	25	37.0	34.9	18.3	28	0.2	4.4	4.1	6.0	6.0
Mean CIELAB difference (5 steps)													(Red-Yellow-Green-Blue)n	
ΔH*CIELAB = 7.5													cmy0: (R-J-G-B-R)n	
ΔE*CIELAB = 8.6													Mean CIELAB difference (5 steps)	
ΔH*CIELAB = 6.7														
ΔE*CIELAB = 8.6														

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



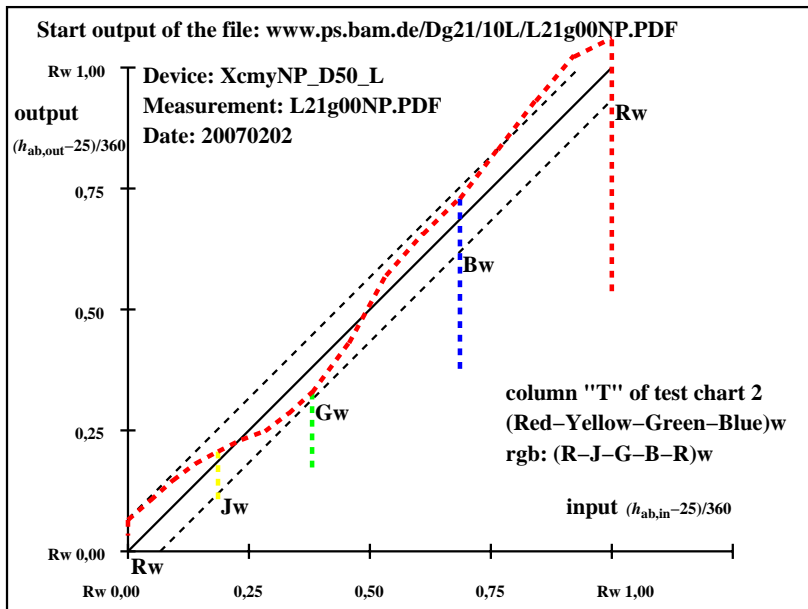
De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out-ref	ΔH*	ΔE*	Start output S1
Specification according to ISO/IEC 15775:1999 Annex G and DIN 33866-1:2000 Annex G									
R	1	71.8	31.8	14.8	25	69.1	30.4	34.2	48
		2.6	-1.3	19.4	19.4	19.6			
2	72.9	30.0	26.8	42	75.4	20.0	39.1	63	2.5
		-9.9	12.3	15.9	16.1				
3	78.2	21.0	34.3	58	81.0	9.4	43.4	78	2.8
		-11.5	9.1	14.8	15.0				
4	84.0	11.2	42.4	75	87.8	-0.1	49.4	90	3.8
		-11.3	7.0	13.3	13.9				
J	5	91.6	-1.8	53.2	92	93.2	-8.7	54.2	99
		1.6	-6.8	1.0	7.0	7.2			
6	85.3	-14.3	40.5	110	85.6	-13.5	41.8	108	0.3
		0.8	1.3	1.5	1.5				
7	79.0	-21.6	28.8	127	78.5	-14.6	32.5	114	-0.4
		7.0	3.7	7.9	7.9				
8	74.1	-27.4	19.6	145	72.4	-17.9	23.5	127	-1.6
		9.5	3.9	10.3	10.4				
G	9	72.2	-27.5	9.0	162	68.3	-22.4	16.9	143
		-3.8	5.1	7.9	9.4	10.2			
10	73.2	-22.0	-3.6	190	70.1	-19.8	0.0	180	-3.0
		2.2	3.7	4.3	5.3				
C	11	74.0	-17.7	-13.3	217	73.4	-16.1	-19.3	230
		-0.5	1.6	-5.9	6.2	6.2			
12	72.2	-10.2	-21.4	245	63.8	-3.2	-20.6	261	-8.3
		7.0	0.8	7.0	10.9				
B	13	64.7	0.7	-19.2	272	55.0	7.7	-24.5	287
		-9.6	7.0	-5.2	8.8	13.1			
14	61.2	9.5	-16.3	300	63.1	16.5	-12.0	324	1.8
		7.0	4.3	8.2	8.4				
M	15	65.1	17.5	-10.6	329	70.4	23.7	0.0	0
		5.3	6.2	10.7	12.4	13.5			
Mean CIELAB difference (17 steps) $\Delta H^*_{CIELAB} = 9.8$									
16	71.2	30.2	-1.6	357	67.5	27.0	17.5	33	-3.7
		-3.1	19.2	19.5	19.8				
R	17	71.8	31.8	14.8	25	67.7	32.3	33.3	46
		-4.0	0.5	18.5	18.5	18.9			
R	18	71.8	31.8	14.8	25	69.1	30.4	34.2	48
		-2.6	-1.3	19.4	19.4	19.6			
J	19	91.6	-1.8	53.2	92	93.2	-8.7	54.2	99
		1.6	-6.8	1.0	7.0	7.2			
G	20	72.2	-27.5	9.0	162	68.3	-22.4	16.9	143
		-3.8	5.1	7.9	9.4	10.2			
Mean CIELAB difference (5 steps) $\Delta H^*_{CIELAB} = 8.9$									
B	21	64.7	0.7	-19.2	272	55.0	7.7	-24.5	287
		-9.6	7.0	-5.2	8.8	13.1			
R	22	71.8	31.8	14.8	25	67.7	32.3	33.3	46
		-4.0	0.5	18.5	18.5	18.9			
$\Delta E^*_{CIELAB} = 13.4$									

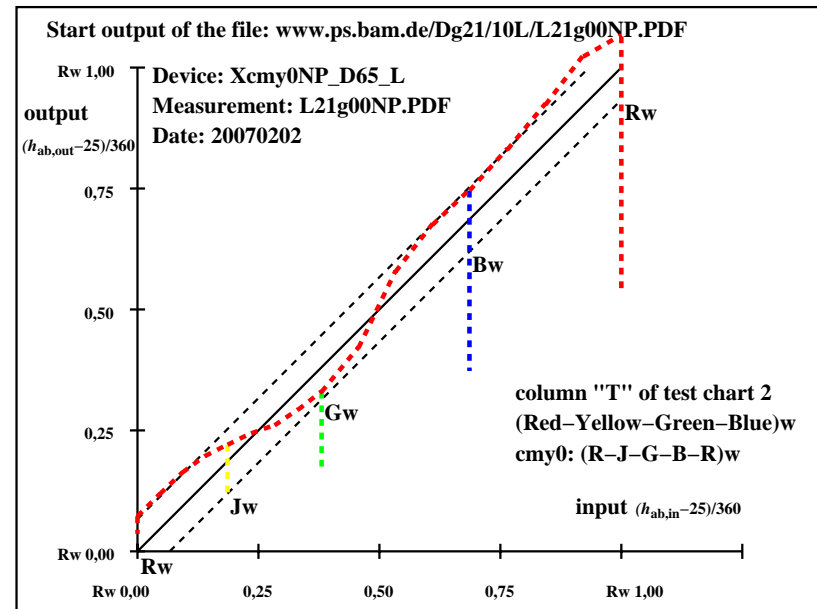
De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out-ref	ΔH*	ΔE*	Start output S1
Specification according to ISO/IEC 15775:1999 Annex G and DIN 33866-1:2000 Annex G									
R	1	71.0	30.5	14.2	25	68.2	26.2	32.5	51
		-2.7	-4.2	18.3	18.8	19.0			
2	72.0	28.1	25.1	42	74.7	15.5	37.8	68	2.7
		-12.5	12.7	17.9	18.1				
3	76.8	19.8	32.3	58	80.4	4.7	42.7	84	3.6
		-15.0	10.4	18.3	18.7				
4	82.1	10.6	40.1	75	87.3	-5.0	49.1	96	5.2
		-15.6	9.0	18.0	18.8				
J	5	89.2	-1.7	50.7	92	92.9	-13.7	54.2	104
		3.7	-11.9	3.5	12.5	13.1			
6	86.6	-15.5	44.1	110	85.5	-17.6	42.2	113	-1.1
		-2.0	-1.8	2.8	3.1				
7	79.7	-23.2	31.0	127	78.5	-18.0	33.0	119	-1.2
		5.2	2.0	5.6	5.8				
8	74.4	-29.1	20.9	145	72.6	-20.5	24.2	130	-1.7
		8.6	3.3	9.3	9.5				
G	9	72.8	-27.2	8.9	162	68.6	-24.3	17.9	144
		-4.1	2.9	9.0	9.5	10.4			
10	74.0	-19.9	-3.3	190	70.6	-19.8	1.2	177	-3.2
		0.1	4.6	4.6	5.7				
C	11	74.7	-15.1	-11.4	217	74.1	-13.4	-17.9	233
		-0.5	1.7	-6.4	6.7	6.8			
12	75.5	-9.7	-20.5	245	64.4	-0.6	-19.9	268	-11.1
		9.1	0.6	9.2	14.4				
B	13	67.8	0.7	-19.1	272	55.4	10.5	-24.2	293
		-12.3	9.8	-5.0	11.1	16.6			
14	60.6	10.4	-17.7	300	63.0	17.3	-12.5	324	2.4
		6.9	5.2	8.7	9.0				
M	15	64.8	19.0	-11.5	329	70.0	23.0	-1.0	357
		5.1	4.0	10.5	11.3	12.4			
Mean CIELAB difference (17 steps) $\Delta H^*_{CIELAB} = 10.8$									
16	71.1	31.3	-1.7	357	66.8	24.3	15.9	33	-4.3
		-6.9	17.7	19.0	19.5				
R	17	71.0	30.5	14.2	25	66.7	28.2	31.5	48
		-4.1	-2.2	17.3	17.4	17.9			
R	18	71.0	30.5	14.2	25	68.2	26.2	32.5	51
		-2.7	-4.2	18.3	18.8	19.0			
J	19	89.2	-1.7	50.7	92	92.9	-13.7	54.2	104
		3.7	-11.9	3.5	12.5	13.1			
G	20	72.8	-27.2	8.9	162	68.6	-24.3	17.9	144
		-4.1	2.9	9.0	9.5	10.4			
Mean CIELAB difference (5 steps) $\Delta H^*_{CIELAB} = 10.4$									
B	21	67.8	0.7	-19.1	272	55.4	10.5	-24.2	293
		-12.3	9.8	-5.0	11.1	16.6			
R	22	71.0	30.5	14.2	25	66.7	28.2	31.5	48
		-4.1	-2.2	17.3	17.4	17.9			
$\Delta E^*_{CIELAB} = 14.9$									

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$
N	1	22.7	0.1	7.5	89	22.7	0.1	7.5
	2	27.2	0.1	7.0	89	25.1	0.3	7.5
	3	31.7	0.1	6.6	89	28.2	0.2	7.2
	4	36.3	0.1	6.1	89	33.3	0.2	6.6
	5	40.8	0.1	5.7	89	37.9	0.2	6.2
	6	45.4	0.1	5.2	89	43.3	0.1	5.6
	7	49.9	0.1	4.8	89	47.2	0.1	5.1
	8	54.5	0.1	4.3	89	52.6	0.0	4.7
Z	9	59.0	0.1	3.9	89	58.4	0.0	4.1
	10	63.5	0.0	3.4	89	63.4	0.0	3.4
	11	68.1	0.0	2.9	89	68.8	0.0	2.8
	12	72.6	0.0	2.5	89	73.5	0.0	2.6
	13	77.2	0.0	2.0	89	76.8	0.0	2.0
	14	81.7	0.0	1.6	89	81.7	0.0	1.7
	15	86.3	0.0	1.1	89	85.3	0.0	1.1
	16	90.8	0.0	0.7	89	88.9	0.0	0.7
W	17	95.4	0.0	0.2	90	95.4	0.0	0.2
N	18	22.7	0.1	7.5	89	22.7	0.1	7.5
	19	40.8	0.1	5.7	89	37.9	0.2	6.2
Z	20	59.0	0.1	3.9	89	58.4	0.0	4.1
	21	77.2	0.0	2.0	89	76.8	0.0	2.0
W	22	95.4	0.0	0.2	90	95.4	0.0	0.2

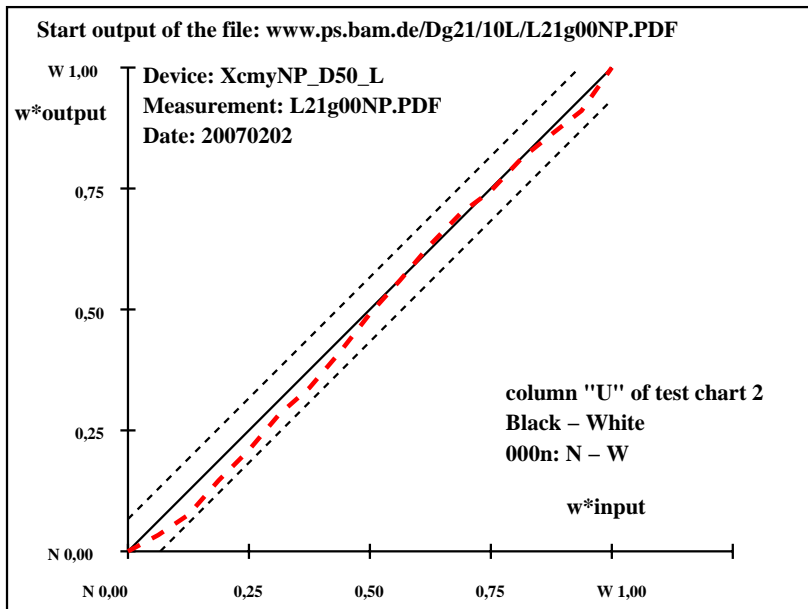
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.36 - 22.65$   
**Regularity**  
 $g^* = 74.5$   
**Lightness gamut relative to offset**  
 $f^* = 93.9$   
**Black - White**  
**000n: N - W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 0.2$   
 $\Delta E^*_{CIELAB} = 1.4$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 0.2$   
 $\Delta E^*_{CIELAB} = 0.8$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 94$

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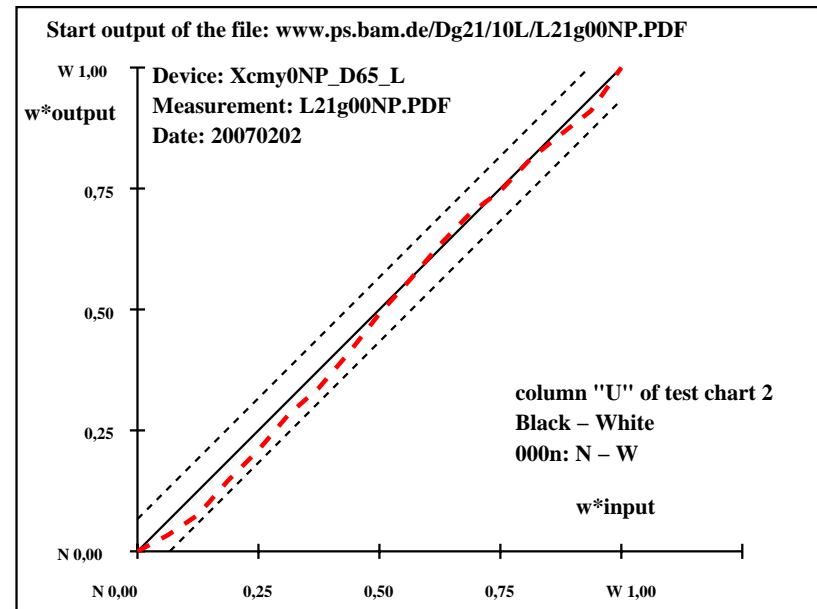
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$
N	1	22.6	0.2	7.1	88	22.6	0.2	7.1
	2	27.2	0.2	6.7	88	25.1	0.3	7.2
	3	31.7	0.2	6.2	88	28.1	0.3	6.9
	4	36.3	0.2	5.8	88	33.3	0.2	6.3
	5	40.8	0.2	5.4	88	37.9	0.2	5.9
	6	45.4	0.1	4.9	88	43.2	0.1	5.3
	7	49.9	0.1	4.5	88	47.2	0.1	4.8
	8	54.5	0.1	4.1	88	52.6	0.1	4.4
Z	9	59.0	0.1	3.7	88	58.4	0.0	3.9
	10	63.6	0.1	3.2	88	63.4	0.1	3.2
	11	68.1	0.1	2.8	88	68.8	0.0	2.7
	12	72.7	0.1	2.4	88	73.5	0.0	2.5
	13	77.2	0.1	1.9	89	76.9	0.1	1.9
	14	81.8	0.0	1.5	89	81.7	0.0	1.6
	15	86.3	0.0	1.1	89	85.4	0.0	1.0
	16	90.9	0.0	0.6	89	88.9	0.0	0.7
W	17	95.4	0.0	0.2	90	95.4	0.0	0.2
N	18	22.6	0.2	7.1	88	22.6	0.2	7.1
	19	40.8	0.2	5.4	88	37.9	0.2	5.9
Z	20	59.0	0.1	3.7	88	58.4	0.0	3.9
	21	77.2	0.1	1.9	89	76.9	0.1	1.9
W	22	95.4	0.0	0.2	90	95.4	0.0	0.2

**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.42 - 22.63$   
**Regularity**  
 $g^* = 74.4$   
**Lightness gamut relative to offset**  
 $f^* = 94.0$   
**Black - White**  
**000n: N - W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 0.2$   
 $\Delta E^*_{CIELAB} = 1.4$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 0.2$   
 $\Delta E^*_{CIELAB} = 0.8$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 94$

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De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

See for similar files: <http://www.ps.bam.de/De19/>; [www.ps.bam.de/De19/L19E0LNP.PS/.PDF](http://www.ps.bam.de/De19/L19E0LNP.PS/.PDF)  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

BAM registration: 20080301-De19/10L/L19E0LNP.PS/.PDF BAM material: code=rh4ta  
application for output of monitor, data projector, or printer systems

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$
N	1	22.7	0.1	7.5	89	22.7	0.1	7.5
	2	27.2	0.1	7.0	89	25.1	0.3	7.5
	3	31.7	0.1	6.6	89	28.2	0.2	7.2
	4	36.3	0.1	6.1	89	33.3	0.2	6.6
	5	40.8	0.1	5.7	89	37.9	0.2	6.2
	6	45.4	0.1	5.2	89	43.3	0.1	5.6
	7	49.9	0.1	4.8	89	47.2	0.1	5.1
	8	54.5	0.1	4.3	89	52.6	0.0	4.7
Z	9	59.0	0.1	3.9	89	58.4	0.0	4.1
	10	63.5	0.0	3.4	89	63.4	0.0	3.4
	11	68.1	0.0	2.9	89	68.8	0.0	2.8
	12	72.6	0.0	2.5	89	73.5	0.0	2.6
	13	77.2	0.0	2.0	89	76.8	0.0	2.0
	14	81.7	0.0	1.6	89	81.7	0.0	1.7
	15	86.3	0.0	1.1	89	85.3	0.0	1.1
	16	90.8	0.0	0.7	89	88.9	0.0	0.7
W	17	95.4	0.0	0.2	90	95.4	0.0	0.2
N	18	22.7	0.1	7.5	89	22.7	0.1	7.5
	19	40.8	0.1	5.7	89	37.9	0.2	6.2
Z	20	59.0	0.1	3.9	89	58.4	0.0	4.1
	21	77.2	0.0	2.0	89	76.8	0.0	2.0
W	22	95.4	0.0	0.2	90	95.4	0.0	0.2

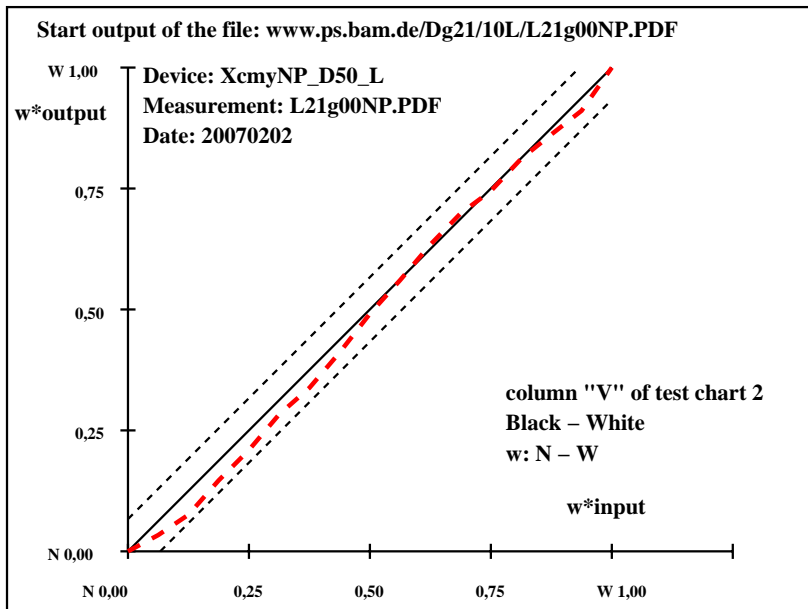
**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.36 - 22.65$   
**Regularity**  
 $g^* = 74.5$   
**Lightness gamut relative to offset**  
 $f^* = 93.9$   
**Black - White**  
**w: N - W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 0.2$   
 $\Delta E^*_{CIELAB} = 1.4$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 0.2$   
 $\Delta E^*_{CIELAB} = 0.8$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 94$

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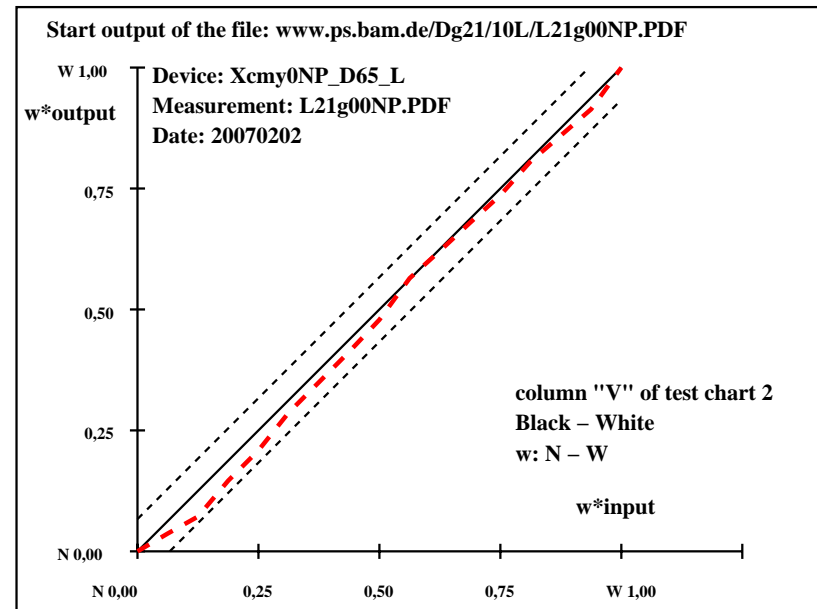
T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$
N	1	21.3	0.0	-0.1	243	21.3	0.0	-0.1
	2	25.9	0.0	-0.1	242	24.0	0.0	0.0
	3	30.6	0.0	-0.1	240	26.6	0.0	0.0
	4	35.2	0.0	-0.1	238	32.1	0.0	0.0
	5	39.8	0.0	-0.1	236	36.8	0.0	0.1
	6	44.5	0.0	0.0	234	42.6	0.0	0.0
	7	49.1	0.0	0.0	231	47.2	0.0	0.0
	8	53.8	0.0	0.0	228	51.9	0.0	0.1
Z	9	58.4	0.0	0.0	225	56.8	0.0	0.3
	10	63.0	0.0	0.0	221	63.2	0.0	0.0
	11	67.7	0.0	0.0	217	67.4	0.0	0.0
	12	72.3	0.0	0.0	212	71.7	0.0	0.3
	13	77.0	0.0	0.0	207	75.9	0.0	0.1
	14	81.6	0.0	0.0	201	81.1	0.0	0.1
	15	86.2	0.0	0.0	194	85.1	0.0	0.1
	16	90.9	0.0	0.0	187	89.1	0.0	0.0
W	17	95.5	0.0	0.0	180	95.5	0.0	0.0
N	18	21.3	0.0	-0.1	243	21.3	0.0	-0.1
	19	39.8	0.0	-0.1	236	36.8	0.0	0.1
Z	20	58.4	0.0	0.0	225	56.8	0.0	0.3
	21	77.0	0.0	0.0	207	75.9	0.0	0.1
W	22	95.5	0.0	0.0	180	95.5	0.0	0.0

**Start output S1**  
**Specification according to**  
**ISO/IEC 15775:1999 Annex G**  
**and DIN 33866-1:2000 Annex G**  
**relative CIELAB data used for "out"**  
 $\Delta L^* = 95.51 - 21.27$   
**Regularity**  
 $g^* = 77.3$   
**Lightness gamut relative to offset**  
 $f^* = 95.9$   
**Black - White**  
**w: N - W**  
**Mean CIELAB difference (17 steps)**  
 $\Delta H^*_{CIELAB} = 0.2$   
 $\Delta E^*_{CIELAB} = 1.5$   
**Mean CIELAB difference (5 steps)**  
 $\Delta H^*_{CIELAB} = 0.2$   
 $\Delta E^*_{CIELAB} = 1.1$   
**Mean colour reproduction index:**  $R^*_{ab,m} = 94$

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De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



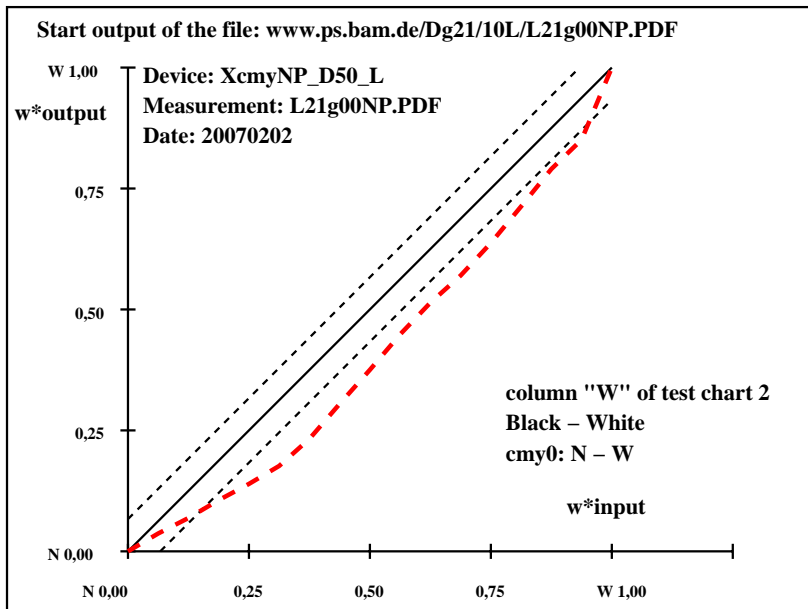
De191-7N, ; Device: XcmyNP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1											
N	1	26.8	0.0	0.0	0	26.8	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	31.1	0.0	0.0	0	29.1	-0.3	1.0	112	-1.9	-0.3	1.0	1.1	2.3	Specification according to					
	3	35.4	0.0	0.0	0	31.3	-1.1	0.9	143	-4.0	-1.1	0.9	1.5	4.4	ISO/IEC 15775:1999 Annex G					
	4	39.7	0.0	0.0	0	33.9	-1.3	0.3	168	-5.6	-1.3	0.3	1.4	5.9	and DIN 33866-1:2000 Annex G					
	5	43.9	0.0	0.0	0	36.1	-1.2	1.8	126	-7.7	-1.2	1.8	2.2	8.2	relative CIELAB data used for "out"					
	6	48.2	0.0	0.0	0	38.7	-1.0	1.9	120	-9.4	-1.0	1.9	2.2	9.8	$\Delta L^* = 95.34 - 26.8$					
	7	52.5	0.0	0.0	0	42.5	-0.4	2.9	100	-9.9	-0.4	2.9	2.9	10.5	Regularity					
	8	56.8	0.0	0.0	0	47.2	-1.4	4.4	109	-9.5	-1.4	4.4	4.6	10.7	$g^* = 36.7$					
Z	9	61.1	0.0	0.0	0	51.8	-0.4	6.0	95	-9.2	-0.4	6.0	6.0	11.1	Lightness gamut relative to offset					
	10	65.4	0.0	0.0	0	56.7	0.0	7.1	90	-8.5	0.0	7.1	7.1	11.2	$f^* = 88.6$					
	11	69.6	0.0	0.0	0	61.3	0.5	7.2	86	-8.3	0.5	7.2	7.2	11.0	Black - White					
	12	73.9	0.0	0.0	0	65.3	0.2	6.5	88	-8.5	0.2	6.5	6.5	10.8	cmy0: N - W					
	13	78.2	0.0	0.0	0	70.0	0.7	6.4	84	-8.1	0.7	6.4	6.4	10.4	Mean CIELAB difference (17 steps)					
	14	82.5	0.0	0.0	0	75.3	0.8	5.9	82	-7.1	0.8	5.9	6.0	9.3	$\Delta H^{*CIELAB} = 3.7$					
	15	86.8	0.0	0.0	0	80.7	-0.4	5.2	95	-6.0	-0.4	5.2	5.2	8.0	$\Delta E^{*CIELAB} = 7.6$					
W	16	91.1	0.0	0.0	0	85.1	0.7	1.9	70	-5.9	0.7	1.9	2.0	6.3	$\Delta H^{*CIELAB} = 3.7$					
	17	95.3	0.0	0.0	0	95.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 7.6$					
N	18	26.8	0.0	0.0	0	26.8	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	Mean CIELAB difference (5 steps)					
	19	43.9	0.0	0.0	0	36.1	-1.2	1.8	126	-7.7	-1.2	1.8	2.2	8.2	$\Delta H^{*CIELAB} = 2.9$					
Z	20	61.1	0.0	0.0	0	51.8	-0.4	6.0	95	-9.2	-0.4	6.0	6.0	11.1	$\Delta E^{*CIELAB} = 5.9$					
	21	78.2	0.0	0.0	0	70.0	0.7	6.4	84	-8.1	0.7	6.4	6.4	10.4	Mean colour reproduction index: $R^*_{ab,m} = 67$					
W	22	95.3	0.0	0.0	0	95.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0						

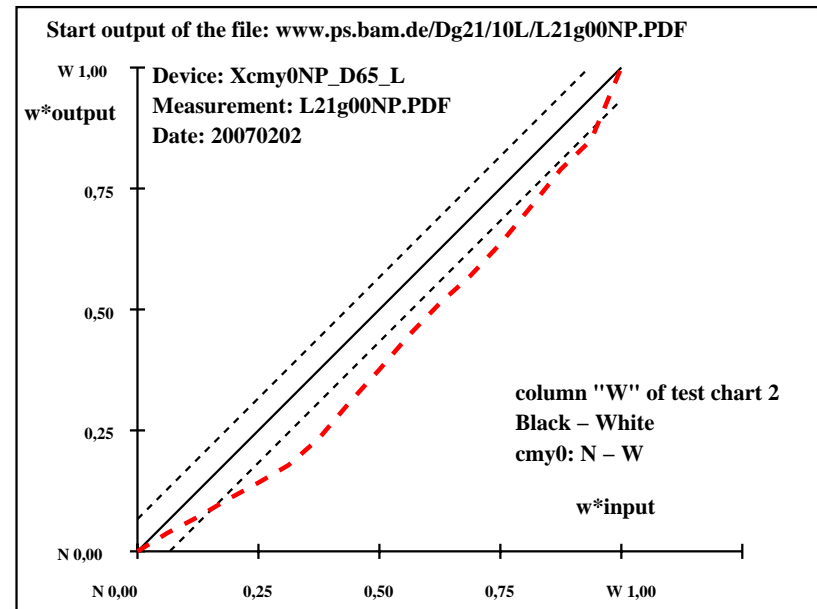
De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-ref	$\Delta H^*$	$\Delta E^*$	Start output S1											
N	1	26.9	0.0	0.0	0	26.9	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	31.2	0.0	0.0	0	29.2	-0.6	1.1	122	-1.9	-0.6	1.1	1.3	2.4	Specification according to					
	3	35.5	0.0	0.0	0	31.4	-1.5	1.0	148	-4.0	-1.5	1.0	1.9	4.5	ISO/IEC 15775:1999 Annex G					
	4	39.8	0.0	0.0	0	34.1	-1.7	0.5	164	-5.6	-1.7	0.5	1.9	6.0	and DIN 33866-1:2000 Annex G					
	5	44.1	0.0	0.0	0	36.2	-1.9	2.0	135	-7.7	-1.9	2.0	2.8	8.3	relative CIELAB data used for "out"					
	6	48.3	0.0	0.0	0	38.8	-1.7	2.1	131	-9.4	-1.7	2.1	2.8	9.9	$\Delta L^* = 95.41 - 26.94$					
	7	52.6	0.0	0.0	0	42.6	-1.3	3.0	115	-9.9	-1.3	3.0	3.3	10.6	Regularity					
	8	56.9	0.0	0.0	0	47.3	-2.5	4.6	119	-9.5	-2.5	4.6	5.3	11.0	$g^* = 36.6$					
Z	9	61.2	0.0	0.0	0	51.9	-1.7	6.1	106	-9.2	-1.7	6.1	6.4	11.3	Lightness gamut relative to offset					
	10	65.5	0.0	0.0	0	56.7	-1.3	7.2	101	-8.6	-1.3	7.2	7.3	11.4	$f^* = 88.5$					
	11	69.7	0.0	0.0	0	61.3	-0.7	7.2	96	-8.3	-0.7	7.2	7.2	11.1	Black - White					
	12	74.0	0.0	0.0	0	65.4	-0.8	6.5	98	-8.6	-0.8	6.5	6.6	10.9	cmy0: N - W					
	13	78.3	0.0	0.0	0	70.0	-0.3	6.3	94	-8.2	-0.3	6.3	6.3	10.4	Mean CIELAB difference (17 steps)					
	14	82.6	0.0	0.0	0	75.3	-0.1	5.9	92	-7.2	-0.1	5.9	5.9	9.4	$\Delta H^{*CIELAB} = 3.9$					
	15	86.9	0.0	0.0	0	80.8	-1.2	5.2	104	-6.0	-1.2	5.2	5.4	8.1	$\Delta E^{*CIELAB} = 7.7$					
W	16	91.1	0.0	0.0	0	85.1	0.3	1.9	81	-5.9	0.3	1.9	1.9	6.3	$\Delta H^{*CIELAB} = 3.9$					
	17	95.4	0.0	0.0	0	95.4	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	$\Delta E^{*CIELAB} = 7.7$					
N	18	26.9	0.0	0.0	0	26.9	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	Mean CIELAB difference (5 steps)					
	19	44.1	0.0	0.0	0	36.2	-1.9	2.0	135	-7.7	-1.9	2.0	2.8	8.3	$\Delta H^{*CIELAB} = 3.1$					
Z	20	61.2	0.0	0.0	0	51.9	-1.7	6.1	106	-9.2	-1.7	6.1	6.4	11.3	$\Delta E^{*CIELAB} = 6.0$					
	21	78.3	0.0	0.0	0	70.0	-0.3	6.3	94	-8.2	-0.3	6.3	6.3	10.4	Mean colour reproduction index: $R^*_{ab,m} = 66$					
W	22	95.4	0.0	0.0	0	95.4	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0						

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De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202

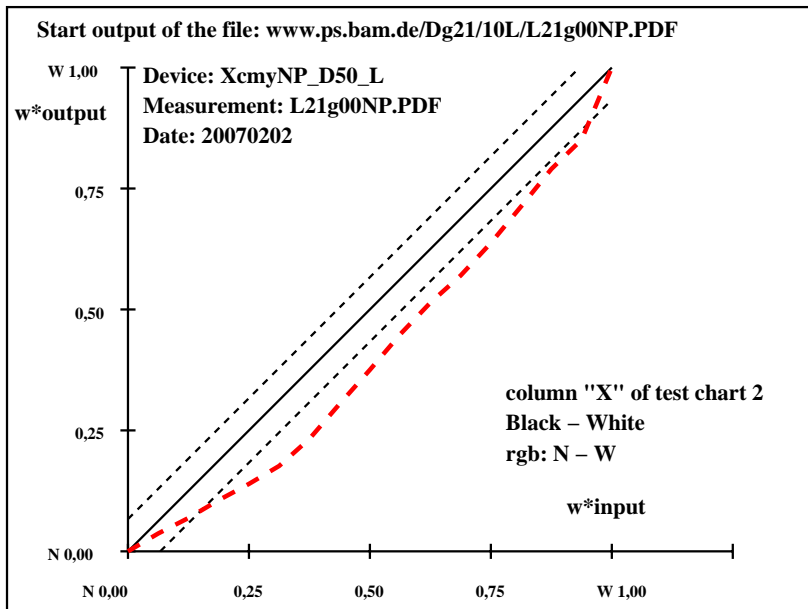


T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-refΔH*	ΔE*	Start output S1
N	1	26.8	0.0	0.0	0	26.8	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	2	31.1	0.0	0.0	0	29.1	-0.3	1.0 1.1 2.3
	3	35.4	0.0	0.0	0	31.3	-1.1	0.9 1.4 3.5
	4	39.7	0.0	0.0	0	33.9	-1.3	0.3 1.4 5.9
	5	43.9	0.0	0.0	0	36.1	-1.2	1.8 2.2 8.2
	6	48.2	0.0	0.0	0	38.7	-1.0	1.9 2.2 9.8
	7	52.5	0.0	0.0	0	42.5	-0.4	2.9 2.9 10.5
	8	56.8	0.0	0.0	0	47.2	-1.4	4.4 4.6 10.7
Z	9	61.1	0.0	0.0	0	51.8	-0.4	6.0 6.0 11.1
	10	65.4	0.0	0.0	0	56.7	0.0	7.1 7.1 11.2
	11	69.6	0.0	0.0	0	61.3	0.5	7.2 7.2 11.0
	12	73.9	0.0	0.0	0	65.3	0.2	6.5 6.5 10.8
	13	78.2	0.0	0.0	0	70.0	0.7	6.4 6.4 10.4
	14	82.5	0.0	0.0	0	75.3	0.8	5.9 6.0 9.3
	15	86.8	0.0	0.0	0	80.7	-0.4	5.2 5.2 8.0
	16	91.1	0.0	0.0	0	85.1	0.7	1.9 2.0 6.3
W	17	95.3	0.0	0.0	0	95.3	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
N	18	26.8	0.0	0.0	0	26.8	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	19	43.9	0.0	0.0	0	36.1	-1.2	1.8 2.2 8.2
Z	20	61.1	0.0	0.0	0	51.8	-0.4	6.0 6.0 11.1
	21	78.2	0.0	0.0	0	70.0	0.7	6.4 6.4 10.4
W	22	95.3	0.0	0.0	0	95.3	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Mean colour reproduction index: $R^*_{ab,m} = 67$								

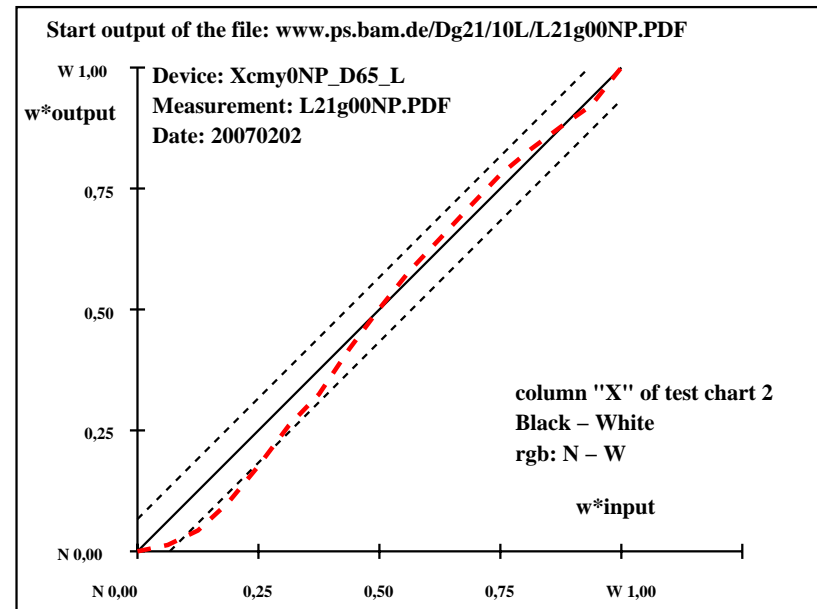
De190-3N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202

T	i	LAB*a,ref	hab,ref	LAB*a,out	hab,out	LAB*a,out/c-refΔH*	ΔE*	Start output S1
N	1	21.7	0.0	0.0	0	21.7	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	2	26.3	0.0	0.0	0	22.6	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	3	30.9	0.0	0.0	0	24.8	0.0	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
	4	35.5	0.0	0.0	0	29.1	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	5	40.1	0.0	0.0	0	34.7	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	6	44.7	0.0	0.0	0	40.8	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	7	49.3	0.0	0.0	0	45.6	0.0	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
	8	53.9	0.0	0.0	0	52.5	0.0	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
Z	9	58.6	0.0	0.0	0	58.7	0.0	0.1 0.0 0.2 0.2 0.2 0.2 0.2 0.2
	10	63.2	0.0	0.0	0	64.5	0.0	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
	11	67.8	0.0	0.0	0	69.4	0.0	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
	12	72.4	0.0	0.0	0	74.3	0.0	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
	13	77.0	0.0	0.0	0	79.1	0.0	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
	14	81.6	0.0	0.0	0	83.0	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	15	86.2	0.0	0.0	0	86.4	0.0	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
	16	90.8	0.0	0.0	0	89.7	0.0	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
W	17	95.5	0.0	0.0	0	95.5	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
N	18	21.7	0.0	0.0	0	21.7	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	19	40.1	0.0	0.0	0	34.7	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Z	20	58.6	0.0	0.0	0	58.7	0.0	0.1 0.0 0.2 0.2 0.2 0.2 0.2 0.2
	21	77.0	0.0	0.0	0	79.1	0.0	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
W	22	95.5	0.0	0.0	0	95.5	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Mean colour reproduction index: $R^*_{ab,m} = 90$								

De191-3N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202



De190-7N, ; Device: XcmyNP\_D50\_L; Measurement: L21g00NP.PDF; Date: 20070202



De191-7N, ; Device: Xcmy0NP\_D65\_L; Measurement: L21g00NP.PDF; Date: 20070202