



Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

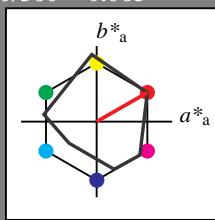
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

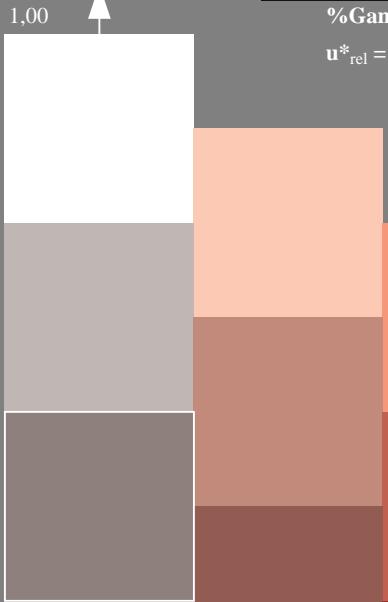
rgb*Ma: 1.0 0.0 0.0

triangle lightness



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271



$n^* = 1,0$

See for similar files: <http://www.ps.bam.de/UE43/>

Technical information: <http://www.ps.bam.de>

Version 2.1, io=0

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 24/360 = 0.066$

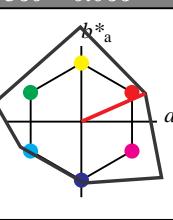
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

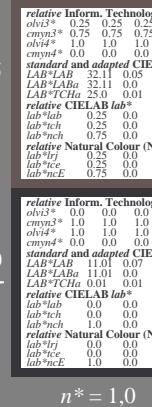
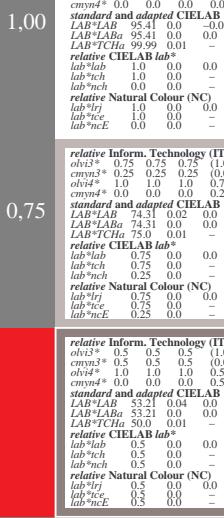
triangle lightness



%Regularity

$$g^*_{H,rel} = 41$$

$$g^*_{C,rel} = 52$$



$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

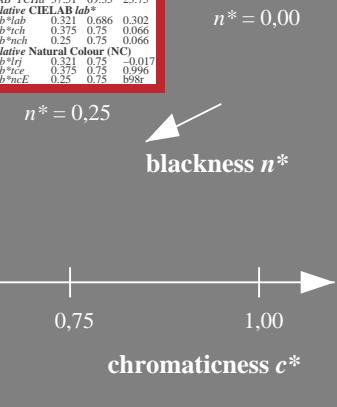
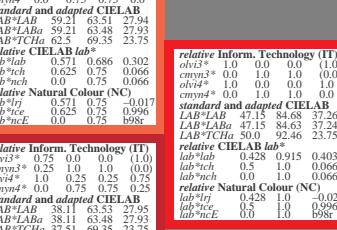
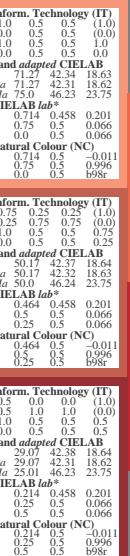
NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$$g^*_{H,rel} = 46$$

$$g^*_{C,rel} = 65$$



$n^* = 1,0$

5 step scales for constant CIELAB hue 24/360 = 0.066 (right)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input: $cmy0*$ setcmykcolor

D65: 5 step colour scales and coordinate data for 10 hues output: no change compared to input

UE430-7, 5 step scales for constant CIELAB hue 30/360 = 0.083 (left)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input: $cmy0*$ setcmykcolor

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BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input: $cmy0*$ setcmykcolor

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BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input: $cmy0*$ setcmykcolor

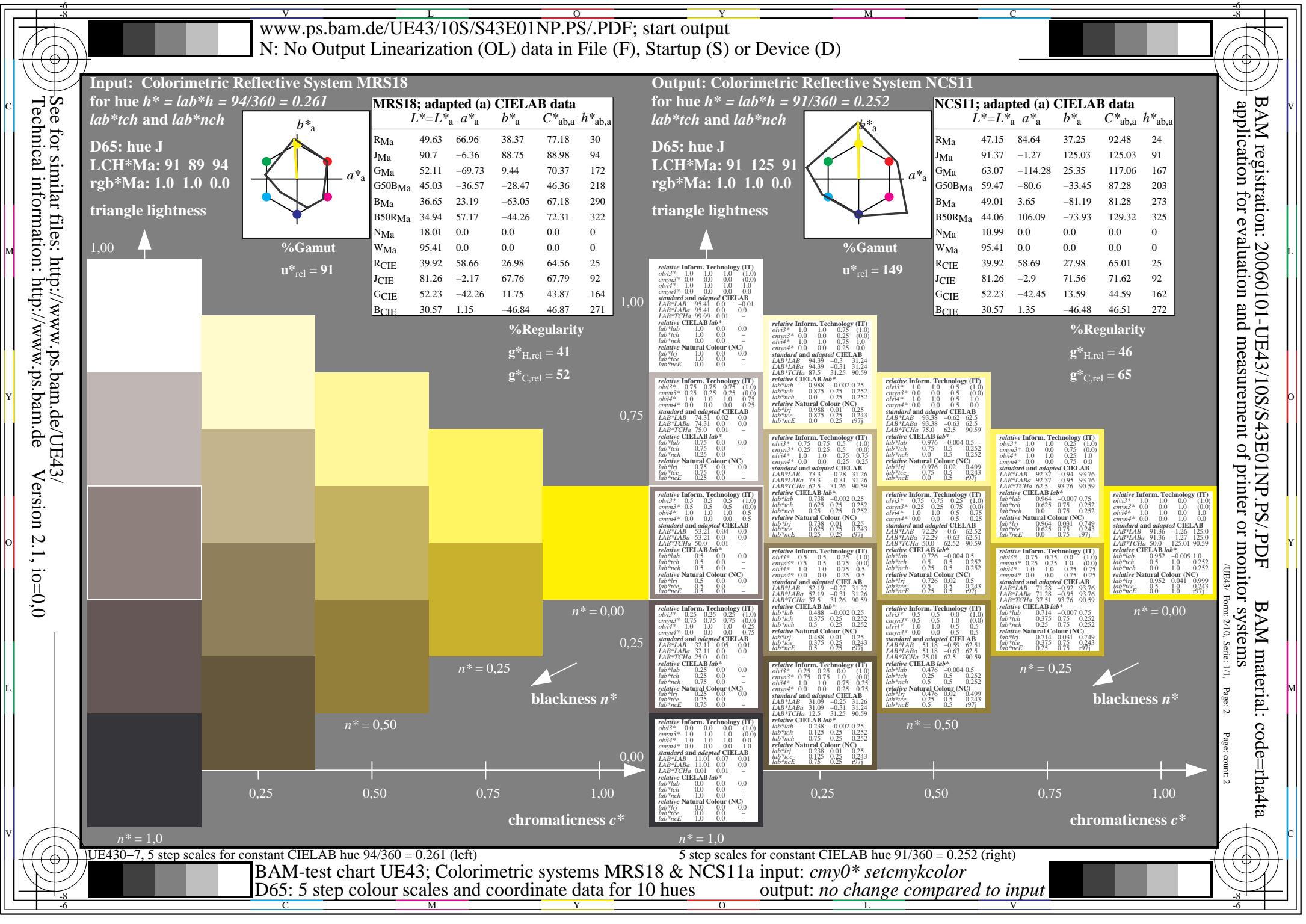
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BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input: $cmy0*$ setcmykcolor

D65: 5 step colour scales and coordinate data for 10 hues output: no change compared to input

UE430-7, 5 step scales for constant CIELAB hue



Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

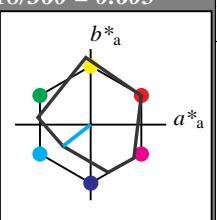
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness



MRS18; adapted (a) CIELAB data

	L^*	a^*	b^*	C^*	h^*
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Gamut

$u^*_{rel} = 91$

1,00

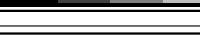
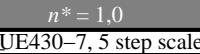
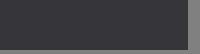


%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00



MRS18; adapted (a) CIELAB data

	L^*	a^*	b^*	C^*	h^*
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
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WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

relative Inform. Technology (IT)

$olv1^3$ 1.0 1.0 1.0 (1.0)

$cmy3^3$ 0.5 0.5 0.5 (0.0)

$olv4^3$ 1.0 1.0 1.0

$cmy4^3$ 0.0 0.0 0.0

standard and adapted CIELAB

LAB^*LAB 0.0 0.0 0.0

LAB^*LCh 95.41 0.0 0.0

LAB^*TCh 99.99 0.01

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab^*lrc 1.0 1.0 1.0

lab^*nrc 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0.75

lab^*tch 0.25 0.25 0.25

lab^*nch 0.0 0.0 0.0

relative CIELAB lab*

lab^*lab 0.75 0.75 0



$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

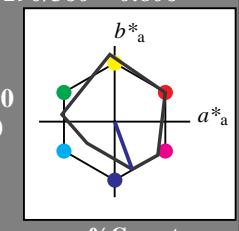
$n^* = 1,00$

$n^* = 0,00$
 $n^* = 0,25$
 $n^* = 0,50$
 $n^* = 0,75$
 $n^* = 1,00$

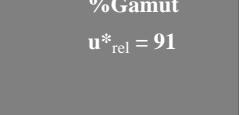
chromaticness c^*

$n^* = 0,00$
 $n^* = 0,25$
 $n^* = 0,50$
 $n^* = 0,75$
 $n^* = 1,00$

blackness n^*



	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
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WMa	95.41	0.0	0.0	0.0	0
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B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
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GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00



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BAM registration: 20060101-UE43/10S/S43E07NP.PS/.PDF
 application for evaluation and measurement of printer or monitor systems

/UE43/ Form 8/10, Serie: 1/1, Page: 8

Page: count: 8

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$n^* = 0,25$

$n^* = 0,50$

	L^*	a^*	b^*	C^*	h^*
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

	L^*	a^*	b^*	C^*	h^*
R _{Ma}	0.984	1.0	0.5	(1.0)	
cmy ₃ [*]	0.016	0.0	0.5	(0.0)	
cmy ₄ [*]	0.024	0.0	0.5	(0.0)	
cmy ₅ [*]	0.033	0.0	1.0	(0.0)	
cmy ₆ [*]	0.040	0.0	1.0	(0.0)	
standard and adapted CIELAB					
LAB ³ _{Ma}	94.16	-1.21	30.44		
LAB ⁴ _{Ma}	94.16	-1.22	30.44		
LAB ⁵ _{Ma}	87.75	30.47	92.31		
relative CIELAB lab*					
lab ³ _{lab}	0.985	0.0	0.0		
lab ⁴ _{lab}	0.985	0.0	0.0		
lab ⁵ _{lab}	0.985	0.0	0.0		
lab ⁶ _{lab}	0.985	0.0	0.0		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.742	0.75	0.75	(1.0)	
cmy ₃ [*]	0.258	0.25	0.75	(0.0)	
oliv ₄ [*]	0.75	0.5	0.75	(0.0)	
cmy ₄ [*]	0.008	0.0	0.5	(0.0)	
relative Natural Colour (NC)					
lab ³ _{lrj}	0.971	0.0	0.5		
lab ⁴ _{lrj}	0.971	0.0	0.5		
lab ⁵ _{lrj}	0.971	0.0	0.5		
lab ⁶ _{lrj}	0.971	0.0	0.5		
standard and adapted CIELAB					
LAB ³ _{LRJ}	71.83	-2.47	60.89		
LAB ⁴ _{LRJ}	71.83	-2.47	60.89		
LAB ⁵ _{LRJ}	70.59	-3.71	91.34		
LAB ⁶ _{LRJ}	70.59	-3.71	91.34		
relative CIELAB lab*					
lab ³ _{lab}	0.971	-0.019	0.499		
lab ⁴ _{lab}	0.971	0.02	0.499		
lab ⁵ _{lab}	0.971	0.02	0.499		
lab ⁶ _{lab}	0.971	0.02	0.499		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.734	0.75	0.25	(1.0)	
cmy ₃ [*]	0.266	0.25	0.75	(0.0)	
oliv ₄ [*]	0.75	0.5	0.25	(0.0)	
cmy ₄ [*]	0.024	0.0	0.5	(0.0)	
relative Natural Colour (NC)					
lab ³ _{lrj}	0.963	0.0	0.5		
lab ⁴ _{lrj}	0.963	0.0	0.5		
lab ⁵ _{lrj}	0.963	0.0	0.5		
lab ⁶ _{lrj}	0.963	0.0	0.5		
standard and adapted CIELAB					
LAB ³ _{LRJ}	71.83	-2.47	60.89		
LAB ⁴ _{LRJ}	71.83	-2.47	60.89		
LAB ⁵ _{LRJ}	70.59	-3.71	91.34		
LAB ⁶ _{LRJ}	70.59	-3.71	91.34		
relative CIELAB lab*					
lab ³ _{lab}	0.963	-0.029	0.749		
lab ⁴ _{lab}	0.963	0.025	0.756		
lab ⁵ _{lab}	0.963	0.025	0.756		
lab ⁶ _{lab}	0.963	0.025	0.756		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.967	1.0	0.0	(1.0)	
cmy ₃ [*]	0.033	0.0	1.0	(0.0)	
oliv ₄ [*]	0.967	1.0	0.0	(1.0)	
cmy ₄ [*]	0.032	0.0	1.0	(0.0)	
relative Natural Colour (NC)					
lab ³ _{lrj}	0.941	0.0	0.75		
lab ⁴ _{lrj}	0.941	0.0	0.75		
lab ⁵ _{lrj}	0.941	0.0	0.75		
lab ⁶ _{lrj}	0.941	0.0	0.75		
standard and adapted CIELAB					
LAB ³ _{LRJ}	90.45	-4.92	121.77		
LAB ⁴ _{LRJ}	90.45	-4.92	121.77		
LAB ⁵ _{LRJ}	50.50	121.87	92.32		
LAB ⁶ _{LRJ}	50.50	121.87	92.32		
relative CIELAB lab*					
lab ³ _{lab}	0.967	-0.029	0.749		
lab ⁴ _{lab}	0.967	0.025	0.756		
lab ⁵ _{lab}	0.967	0.025	0.756		
lab ⁶ _{lab}	0.967	0.025	0.756		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.726	0.75	0.0	(1.0)	
cmy ₃ [*]	0.266	0.25	0.75	(0.0)	
oliv ₄ [*]	0.75	0.5	0.25	(0.0)	
cmy ₄ [*]	0.024	0.0	0.5	(0.0)	
relative Natural Colour (NC)					
lab ³ _{lrj}	0.954	0.0	0.75		
lab ⁴ _{lrj}	0.954	0.0	0.75		
lab ⁵ _{lrj}	0.954	0.0	0.75		
lab ⁶ _{lrj}	0.954	0.0	0.75		
standard and adapted CIELAB					
LAB ³ _{LRJ}	71.83	-2.47	60.89		
LAB ⁴ _{LRJ}	71.83	-2.47	60.89		
LAB ⁵ _{LRJ}	70.59	-3.71	91.34		
LAB ⁶ _{LRJ}	70.59	-3.71	91.34		
relative CIELAB lab*					
lab ³ _{lab}	0.954	-0.024	0.999		
lab ⁴ _{lab}	0.954	0.025	0.999		
lab ⁵ _{lab}	0.954	0.025	0.999		
lab ⁶ _{lab}	0.954	0.025	0.999		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.721	0.75	0.0	(1.0)	
cmy ₃ [*]	0.255	0.25	0.75	(0.0)	
oliv ₄ [*]	0.75	0.5	0.25	(0.0)	
cmy ₄ [*]	0.024	0.0	0.5	(0.0)	
relative Natural Colour (NC)					
lab ³ _{lrj}	0.941	0.0	0.75		
lab ⁴ _{lrj}	0.941	0.0	0.75		
lab ⁵ _{lrj}	0.941	0.0	0.75		
lab ⁶ _{lrj}	0.941	0.0	0.75		
standard and adapted CIELAB					
LAB ³ _{LRJ}	71.83	-2.47	60.89		
LAB ⁴ _{LRJ}	71.83	-2.47	60.89		
LAB ⁵ _{LRJ}	70.59	-3.71	91.34		
LAB ⁶ _{LRJ}	70.59	-3.71	91.34		
relative CIELAB lab*					
lab ³ _{lab}	0.941	-0.024	0.999		
lab ⁴ _{lab}	0.941	0.025	0.999		
lab ⁵ _{lab}	0.941	0.025	0.999		
lab ⁶ _{lab}	0.941	0.025	0.999		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.722	0.75	0.0	(1.0)	
cmy ₃ [*]	0.255	0.25	0.75	(0.0)	
oliv ₄ [*]	0.75	0.5	0.25	(0.0)	
cmy ₄ [*]	0.024	0.0	0.5	(0.0)	
relative Natural Colour (NC)					
lab ³ _{lrj}	0.941	0.0	0.75		
lab ⁴ _{lrj}	0.941	0.0	0.75		
lab ⁵ _{lrj}	0.941	0.0	0.75		
lab ⁶ _{lrj}	0.941	0.0	0.75		
standard and adapted CIELAB					
LAB ³ _{LRJ}	71.83	-2.47	60.89		
LAB ⁴ _{LRJ}	71.83	-2.47	60.89		
LAB ⁵ _{LRJ}	70.59	-3.71	91.34		
LAB ⁶ _{LRJ}	70.59	-3.71	91.34		
relative CIELAB lab*					
lab ³ _{lab}	0.941	-0.024	0.999		
lab ⁴ _{lab}	0.941	0.025	0.999		
lab ⁵ _{lab}	0.941	0.025	0.999		
lab ⁶ _{lab}	0.941	0.025	0.999		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.723	0.75	0.0	(1.0)	
cmy ₃ [*]	0.256	0.25	0.75	(0.0)	
oliv ₄ [*]	0.75	0.5	0.25	(0.0)	
cmy ₄ [*]	0.024	0.0	0.5	(0.0)	
relative Natural Colour (NC)					
lab ³ _{lrj}	0.941	0.0	0.75		
lab ⁴ _{lrj}	0.941	0.0	0.75		
lab ⁵ _{lrj}	0.941	0.0	0.75		
lab ⁶ _{lrj}	0.941	0.0	0.75		
standard and adapted CIELAB					
LAB ³ _{LRJ}	71.83	-2.47	60.89		
LAB ⁴ _{LRJ}	71.83	-2.47	60.89		
LAB ⁵ _{LRJ}	70.59	-3.71	91.34		
LAB ⁶ _{LRJ}	70.59	-3.71	91.34		
relative CIELAB lab*					
lab ³ _{lab}	0.941	-0.024	0.999		
lab ⁴ _{lab}	0.941	0.025	0.999		
lab ⁵ _{lab}	0.941	0.025	0.999		
lab ⁶ _{lab}	0.941	0.025	0.999		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.724	0.75	0.0	(1.0)	
cmy ₃ [*]	0.257	0.25	0.75	(0.0)	
oliv ₄ [*]	0.75	0.5	0.25	(0.0)	
cmy ₄ [*]	0.024	0.0	0.5	(0.0)	
relative Natural Colour (NC)					
lab ³ _{lrj}	0.941	0.0	0.75		
lab ⁴ _{lrj}	0.941	0.0	0.75		
lab ⁵ _{lrj}	0.941	0.0	0.75		
lab ⁶ _{lrj}	0.941	0.0	0.75		
standard and adapted CIELAB					
LAB ³ _{LRJ}	71.83	-2.47	60.89		
LAB ⁴ _{LRJ}	71.83	-2.47	60.89		
LAB ⁵ _{LRJ}	70.59	-3.71	91.34		
LAB ⁶ _{LRJ}	70.59	-3.71	91.34		
relative CIELAB lab*					
lab ³ _{lab}	0.941	-0.024	0.999		
lab ⁴ _{lab}	0.941	0.025	0.999		
lab ⁵ _{lab}	0.941	0.025	0.999		
lab ⁶ _{lab}	0.941	0.025	0.999		
relative Inform. Technology (IT)					
oliv ₃ [*]	0.725	0.75	0.0	(1.0)	
cmy ₃ [*]	0.258	0.25	0.75	(0.0)	
oliv ₄ [*]	0.75	0.5	0.25	(0.0)	
cmy ₄ [*]	0.024	0.0	0.5	(0.0)	
relative Natural Colour (NC)					



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