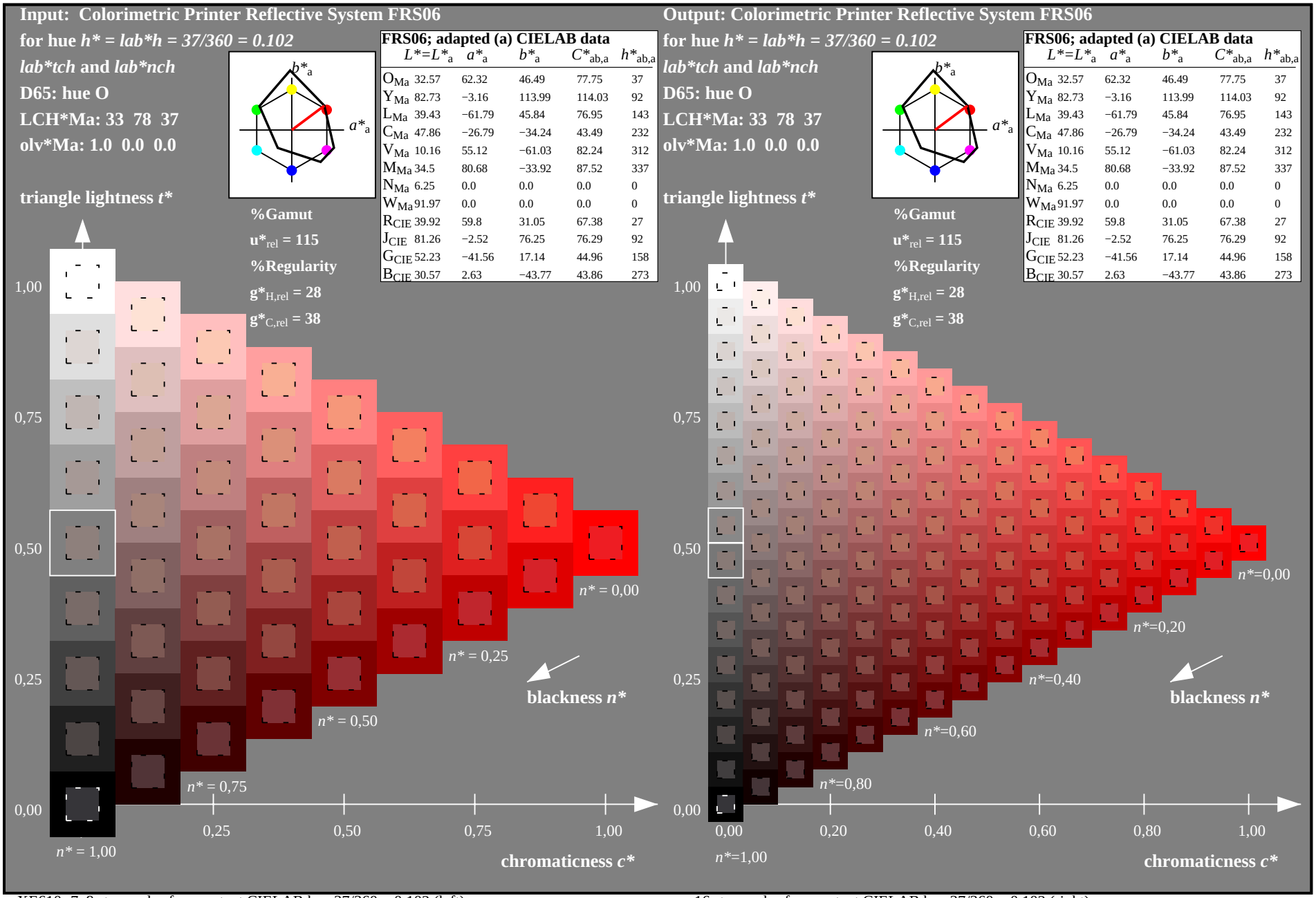


XE610−7, 9 step scales for constant CIELAB hue 37/360 = 0.102 (left)

16 step scales for constant CIELAB hue 37/360 = 0.102 (right)

Input: Colorimetric Printer Reflective System FRS06

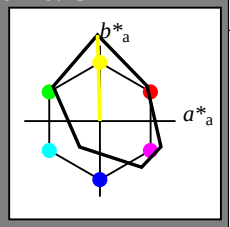
for hue *h = *lab*h* = 92/360 = 0.254**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 83 114 92

olv*Ma: 1.0 1.0 0.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

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

blackness *n**

0,25 0,50 0,75 1,00

chromaticness *c**

Output: Colorimetric Printer Reflective System FRS06

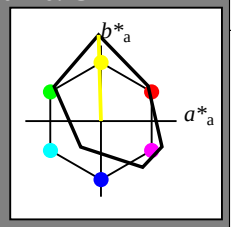
for hue *h = *lab*h* = 92/360 = 0.254**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 83 114 92

olv*Ma: 1.0 1.0 0.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

chromaticness *c**

XE610−7, 9 step scales for constant CIELAB hue 92/360 = 0.254 (left)

16 step scales for constant CIELAB hue 92/360 = 0.254 (right)

Input: Colorimetric Printer Reflective System FRS06

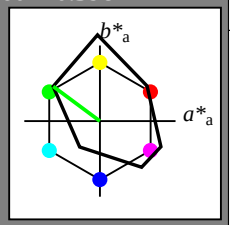
for hue *h = *lab*h* = 143/360 = 0.398**

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 39 77 143

olv*Ma: 0.0 1.0 0.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

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

blackness *n**

0,25 0,50 0,75 1,00

chromaticness *c**

Output: Colorimetric Printer Reflective System FRS06

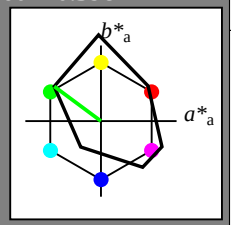
for hue *h = *lab*h* = 143/360 = 0.398**

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 39 77 143

olv*Ma: 0.0 1.0 0.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

chromaticness *c**

XE610−7, 9 step scales for constant CIELAB hue 143/360 = 0.398 (left)

16 step scales for constant CIELAB hue 143/360 = 0.398 (right)

Input: Colorimetric Printer Reflective System FRS06

for hue *h = *lab*h* = 232/360 = 0.644**

lab*tch* and *lab*nch

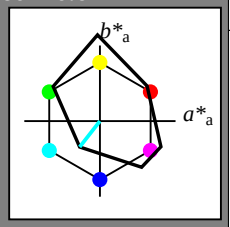
D65: hue C

LCH*Ma: 48 43 232

olv*Ma: 0.0 1.0 1.0

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273



triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

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

blackness *n**

0,25 0,50 0,75 1,00

chromaticness *c**

Output: Colorimetric Printer Reflective System FRS06

for hue *h = *lab*h* = 232/360 = 0.644**

lab*tch* and *lab*nch

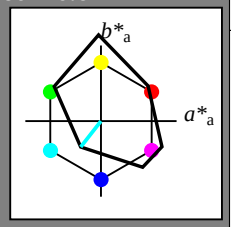
D65: hue C

LCH*Ma: 48 43 232

olv*Ma: 0.0 1.0 1.0

FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273



triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

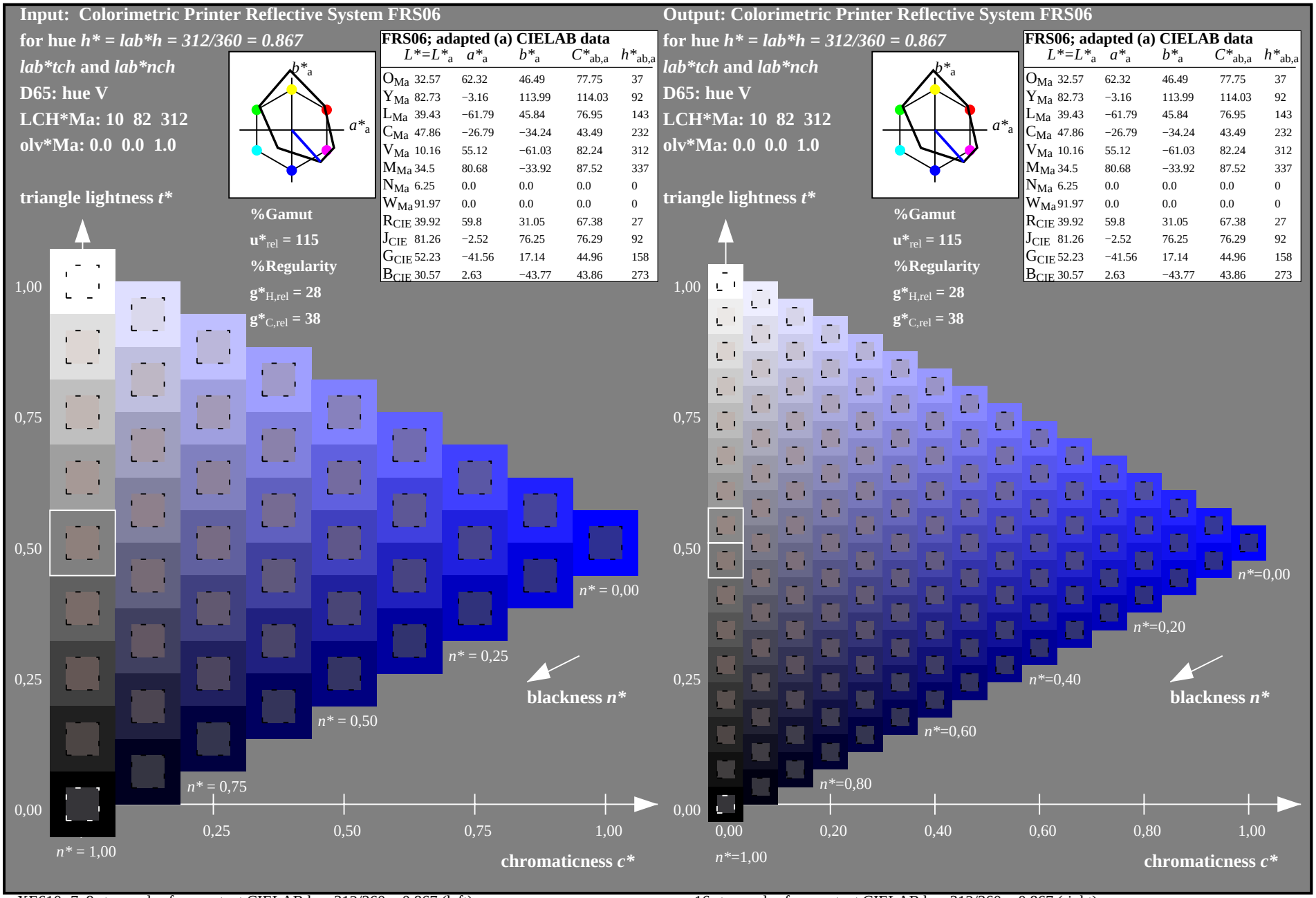
blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

chromaticness *c**

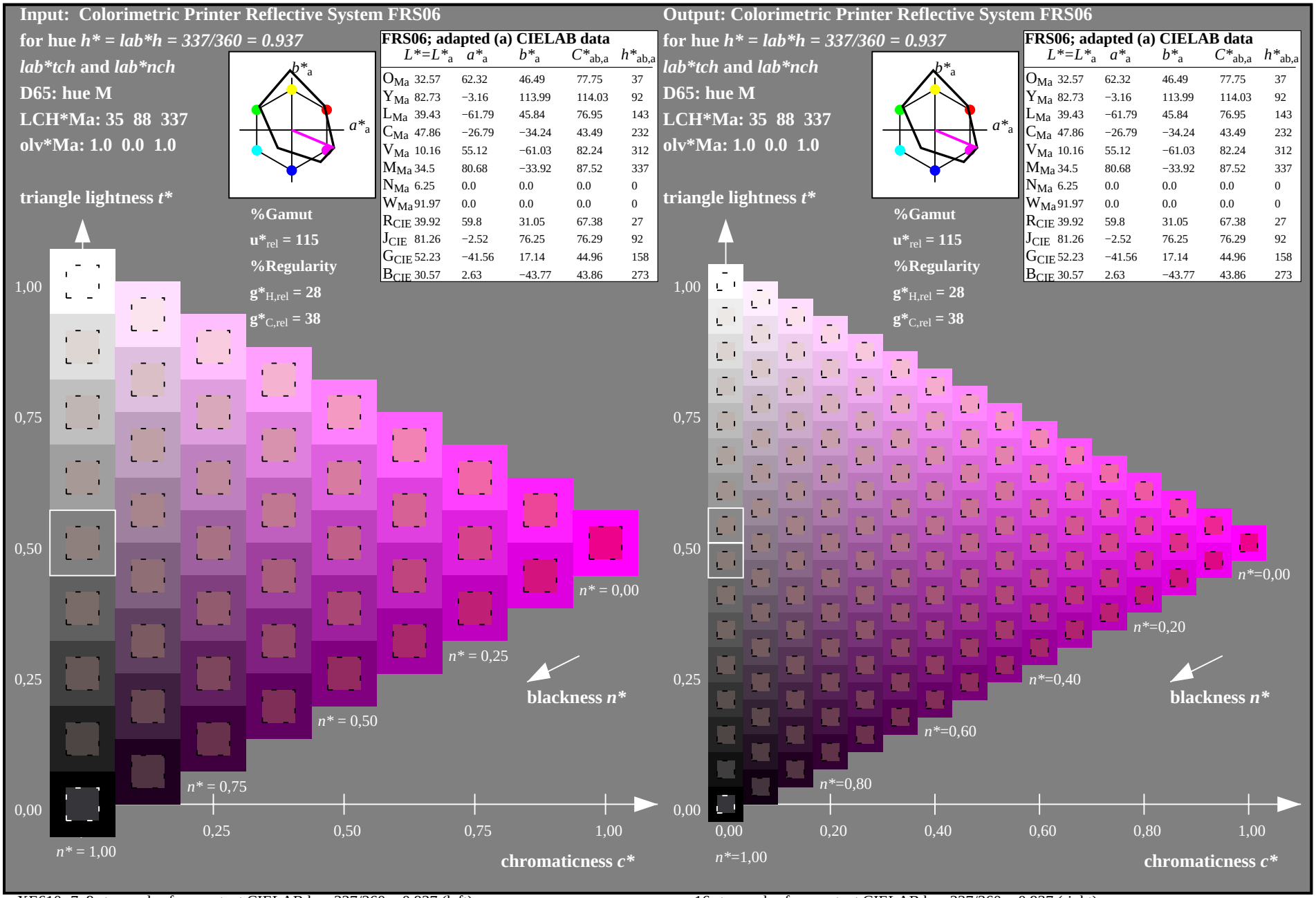
XE610−7, 9 step scales for constant CIELAB hue 232/360 = 0.644 (left)

16 step scales for constant CIELAB hue 232/360 = 0.644 (right)



XE610−7, 9 step scales for constant CIELAB hue 312/360 = 0.867 (left)

16 step scales for constant CIELAB hue 312/360 = 0.867 (right)



XE610−7, 9 step scales for constant CIELAB hue 337/360 = 0.937 (left)

16 step scales for constant CIELAB hue 337/360 = 0.937 (right)

Input: Colorimetric Printer Reflective System FRS06

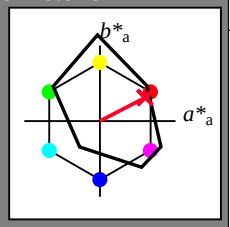
for hue *h = *lab*h* = 27/360 = 0.076**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 33 73 27

olv*Ma: 1.0 0.0 0.16



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

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

blackness *n**

0,25 0,50 0,75 1,00

chromaticness *c**

Output: Colorimetric Printer Reflective System FRS06

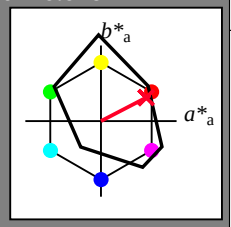
for hue *h = *lab*h* = 27/360 = 0.076**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 33 73 27

olv*Ma: 1.0 0.0 0.16



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

chromaticness *c**

XE610−7, 9 step scales for constant CIELAB hue 27/360 = 0.076 (left)

16 step scales for constant CIELAB hue 27/360 = 0.076 (right)

Input: Colorimetric Printer Reflective System FRS06

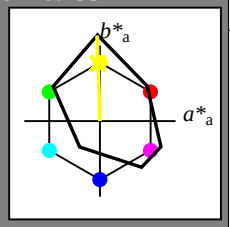
for hue *h = *lab*h* = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 82 113 92

olv*Ma: 0.99 1.0 0.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

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

blackness *n**

0,25 0,50 0,75 1,00

chromaticness *c**

Output: Colorimetric Printer Reflective System FRS06

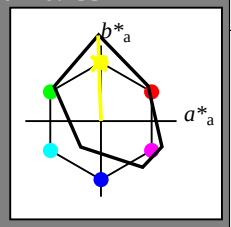
for hue *h = *lab*h* = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 82 113 92

olv*Ma: 0.99 1.0 0.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

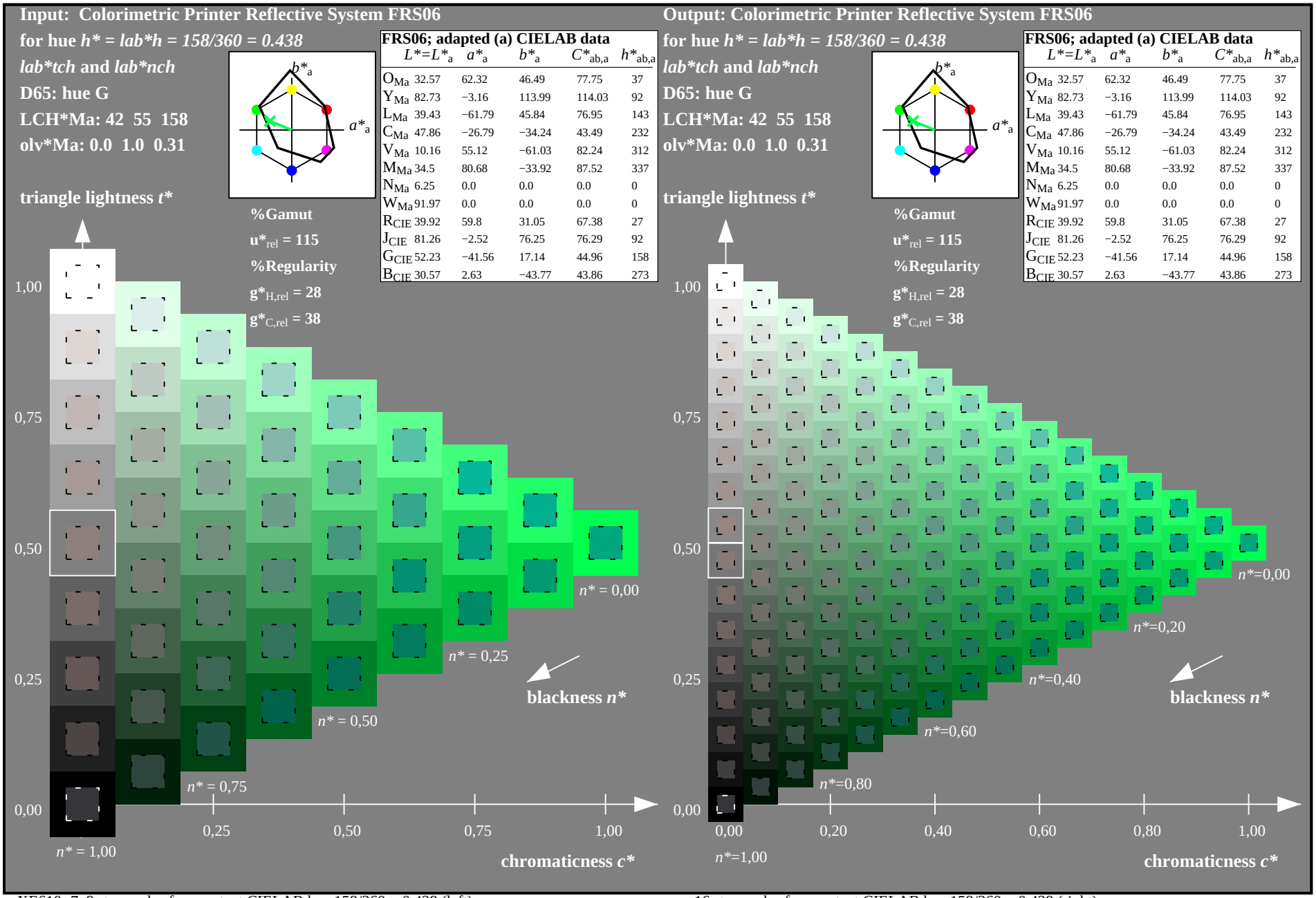
blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

chromaticness *c**

XE610−7, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left)

16 step scales for constant CIELAB hue 92/360 = 0.255 (right)



XE610−7, 9 step scales for constant CIELAB hue 158/360 = 0.438 (left)

16 step scales for constant CIELAB hue 158/360 = 0.438 (right)

Input: Colorimetric Printer Reflective System FRS06

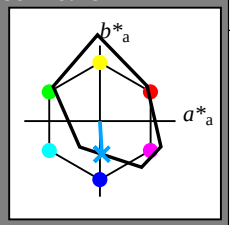
for hue *h = *lab*h* = 273/360 = 0.76**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 34 44 273

olv*Ma: 0.0 0.64 1.0



FRS06; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	32.57	62.32	46.49	77.75	37
Y_{Ma}	82.73	−3.16	113.99	114.03	92
L_{Ma}	39.43	−61.79	45.84	76.95	143
C_{Ma}	47.86	−26.79	−34.24	43.49	232
V_{Ma}	10.16	55.12	−61.03	82.24	312
M_{Ma}	34.5	80.68	−33.92	87.52	337
N_{Ma}	6.25	0.0	0.0	0.0	0
W_{Ma}	91.97	0.0	0.0	0.0	0
R_{CIE}	39.92	59.8	31.05	67.38	27
J_{CIE}	81.26	−2.52	76.25	76.29	92
G_{CIE}	52.23	−41.56	17.14	44.96	158
B_{CIE}	30.57	2.63	−43.77	43.86	273

triangle lightness *t**

%Gamut

u^*_{rel} = 115

%Regularity

$g^*_{H,rel}$ = 28

$g^*_{C,rel}$ = 38

1,00
0,75
0,50
0,25
0,00

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

blackness *n**

0,25 0,50 0,75 1,00

chromaticness *c**

Output: Colorimetric Printer Reflective System FRS06

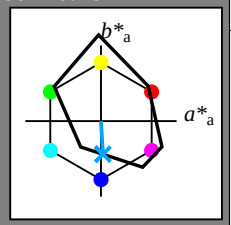
for hue *h = *lab*h* = 273/360 = 0.76**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 34 44 273

olv*Ma: 0.0 0.64 1.0



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triangle lightness *t**

%Gamut

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1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

chromaticness *c**

XE610−7, 9 step scales for constant CIELAB hue 273/360 = 0.76 (left)

16 step scales for constant CIELAB hue 273/360 = 0.76 (right)