



# ChromaPure Detailed Calibration Report

Technician: ChromaPure User

Company: ChromaPure Video Calibration Software

## Grayscale Performance

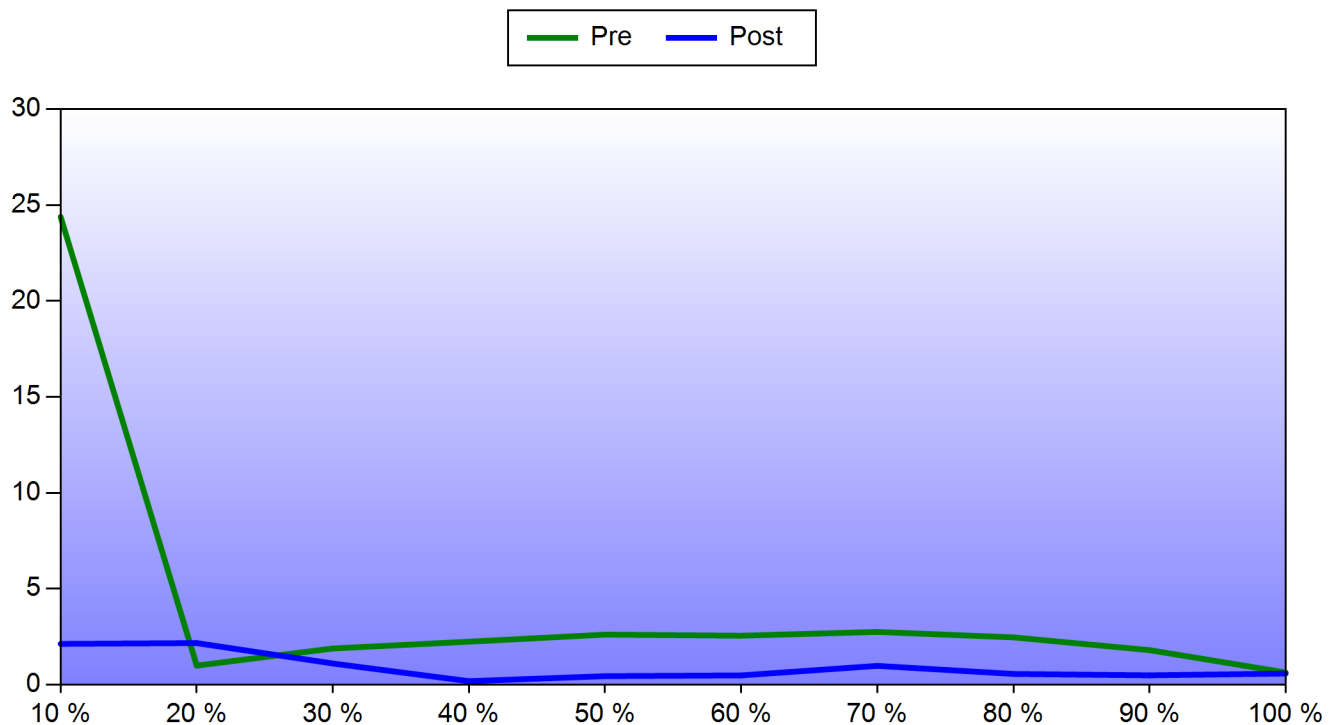
### Grayscale Before

% Stimulus	x	y	CCT	dE
10 %	0.331	0.304	5,576	24.4
20 %	0.311	0.327	6,615	1.0
30 %	0.309	0.328	6,729	1.9
40 %	0.308	0.327	6,783	2.2
50 %	0.307	0.326	6,839	2.6
60 %	0.308	0.325	6,816	2.6
70 %	0.308	0.324	6,787	2.7
80 %	0.310	0.324	6,675	2.5
90 %	0.312	0.326	6,579	1.8
100 %	0.313	0.328	6,490	0.6
Average				4.2

### Grayscale After

% Stimulus	x	y	CCT	dE
10 %	0.316	0.328	6,349	2.1
20 %	0.314	0.326	6,449	2.2
30 %	0.312	0.327	6,587	1.1
40 %	0.313	0.329	6,483	0.2
50 %	0.314	0.329	6,460	0.4
60 %	0.312	0.328	6,563	0.5
70 %	0.311	0.328	6,625	1.0
80 %	0.312	0.328	6,538	0.6
90 %	0.312	0.329	6,553	0.5
100 %	0.313	0.328	6,497	0.6
Average				0.9

### Grayscale dE



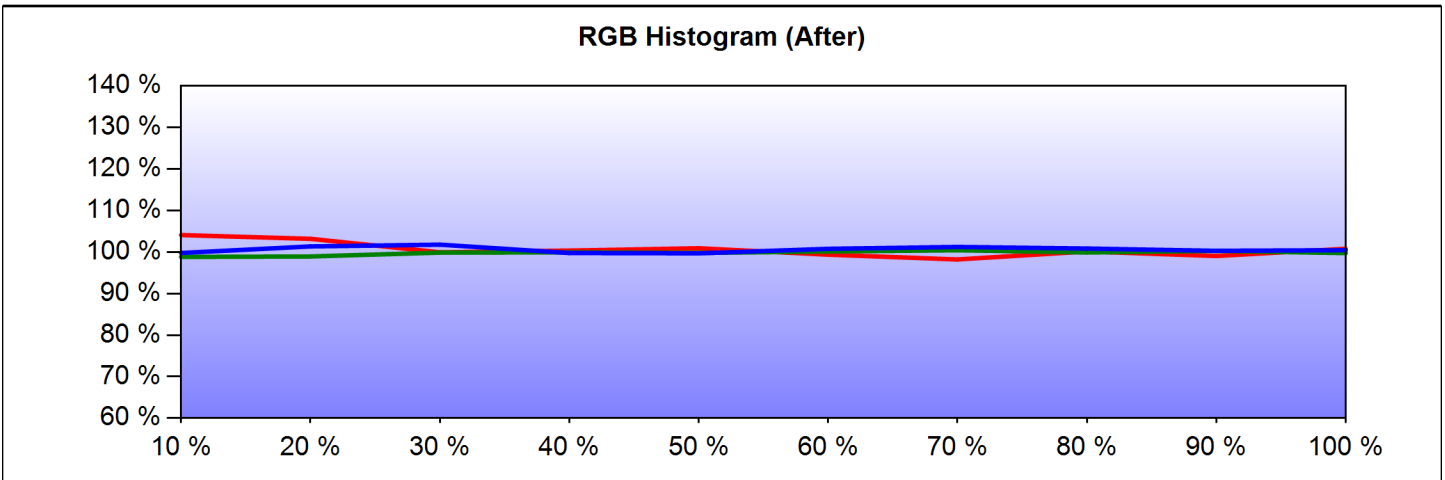
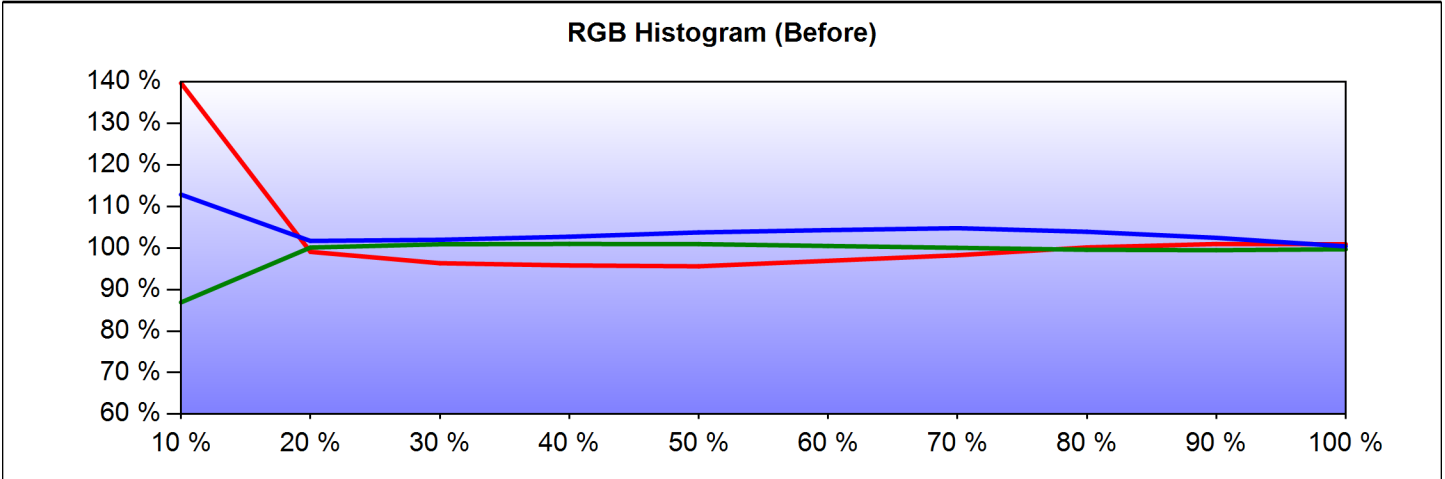


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## RGB Histogram Chart

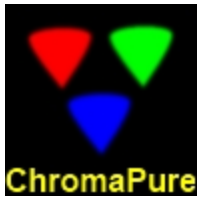


### RGB Before

% Stimulus	Red	Green	Blue
10 %	139.7 %	86.9 %	112.9 %
20 %	99.1 %	100.1 %	101.7 %
30 %	96.3 %	100.9 %	102.0 %
40 %	95.8 %	101.0 %	102.7 %
50 %	95.6 %	100.9 %	103.8 %
60 %	96.9 %	100.5 %	104.3 %
70 %	98.3 %	100.0 %	104.8 %
80 %	100.1 %	99.6 %	103.9 %
90 %	101.0 %	99.5 %	102.5 %
100 %	100.9 %	99.7 %	100.4 %
<b>Average</b>	102.4 %	98.9 %	103.9 %

### RGB After

% Stimulus	Red	Green	Blue
10 %	104.1 %	98.8 %	99.8 %
20 %	103.2 %	98.9 %	101.3 %
30 %	99.9 %	99.9 %	101.8 %
40 %	100.3 %	99.9 %	99.8 %
50 %	100.9 %	99.8 %	99.7 %
60 %	99.4 %	100.1 %	100.8 %
70 %	98.2 %	100.4 %	101.2 %
80 %	100.1 %	99.9 %	100.8 %
90 %	99.0 %	100.3 %	100.3 %
100 %	100.8 %	99.7 %	100.4 %
<b>Average</b>	100.6 %	99.8 %	100.6 %

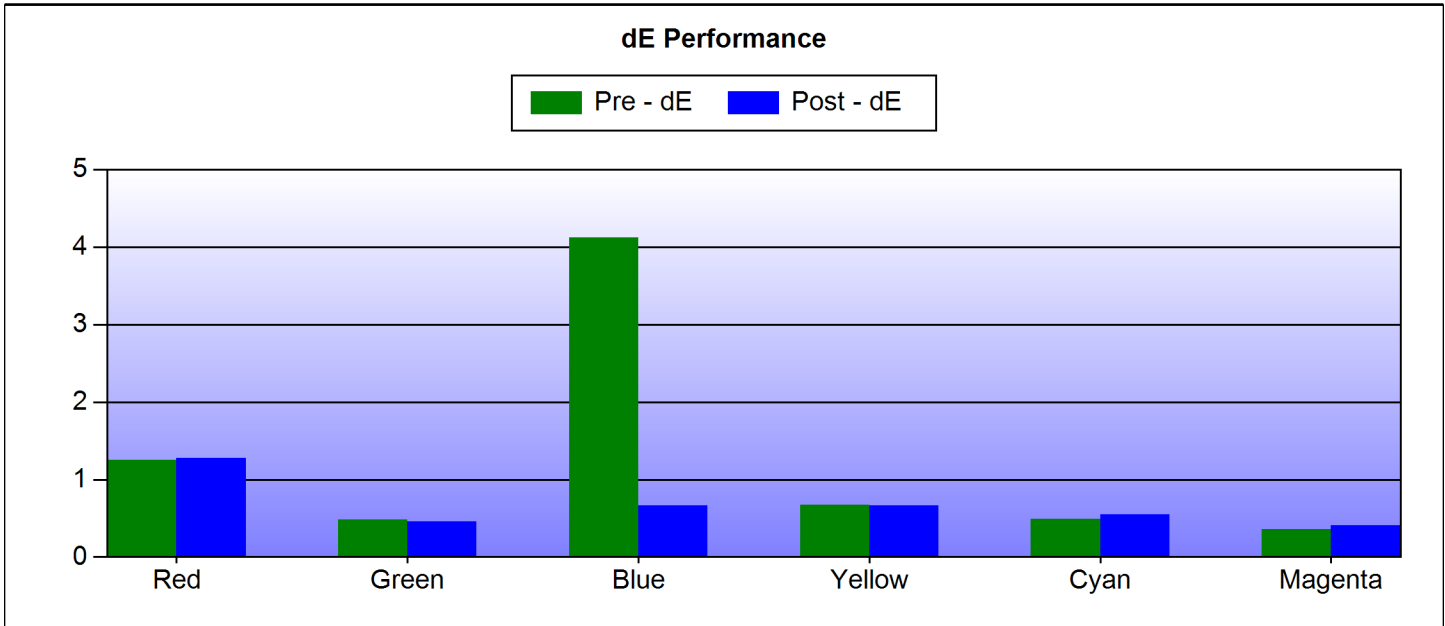


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## Chromaticity Performance



### Reference

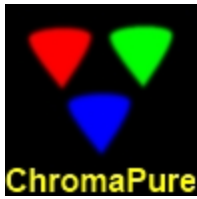
Color	x	y	Y
Red	0.6400	0.3300	0.2126
Green	0.3000	0.6000	0.7151
Blue	0.1500	0.0600	0.0722
Yellow	0.4193	0.5053	0.9278
Cyan	0.2246	0.3287	0.7873
Magenta	0.3209	0.1542	0.2849
White	0.3127	0.3290	1.0000

### Before Calibration

Color	x	y	Y	dE
Red	0.647	0.330	0.209	1.2
Green	0.302	0.600	0.721	0.5
Blue	0.151	0.050	0.058	4.1
Yellow	0.416	0.504	0.936	0.7
Cyan	0.227	0.329	0.791	0.5
Magenta	0.323	0.153	0.283	0.4
White	0.313	0.328	42.343	0.5
<b>Average</b>				<b>1.1</b>

### After Calibration

Color	x	y	Y	dE
Red	0.647	0.330	0.209	1.3
Green	0.302	0.600	0.720	0.5
Blue	0.154	0.061	0.074	0.7
Yellow	0.416	0.504	0.935	0.7
Cyan	0.227	0.329	0.789	0.6
Magenta	0.323	0.153	0.282	0.4
White	0.313	0.328	42.526	0.6
<b>Average</b>				<b>0.7</b>



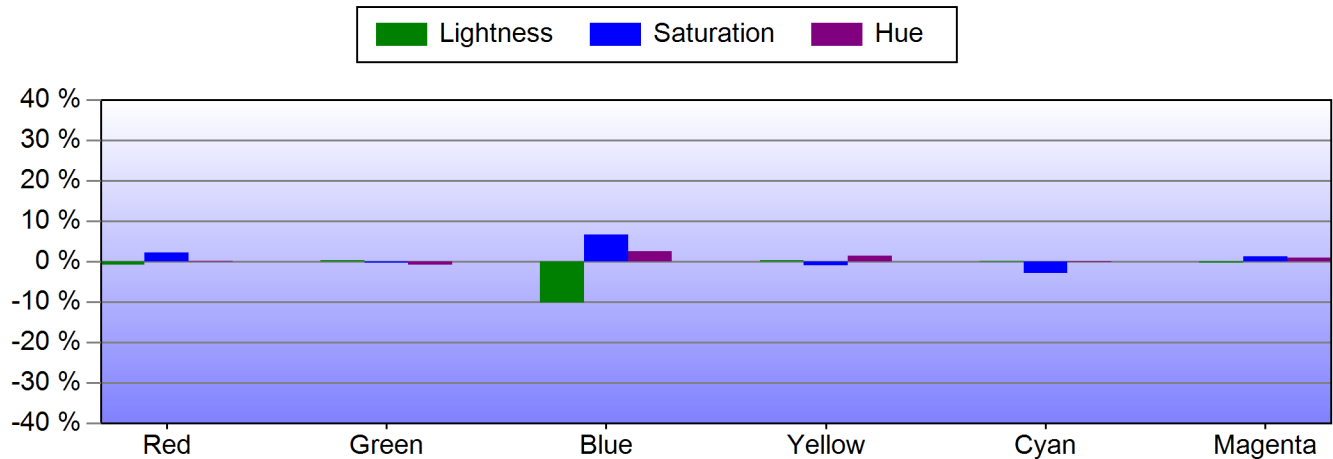
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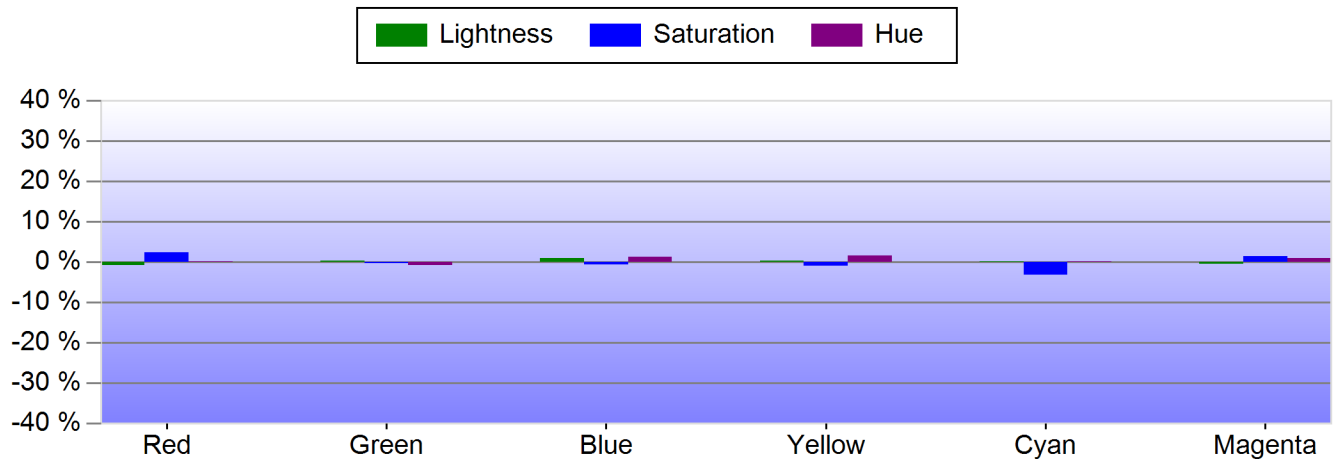
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## Lightness, Saturation, and Hue Error

Chromaticity Error (Before)



Chromaticity Error (After)



Before Calibration

Color	Lightness	Saturation	Hue
Red	-0.8 %	2.3 %	0.1 %
Green	0.3 %	-0.3 %	-0.7 %
Blue	-10.1 %	6.6 %	2.6 %
Yellow	0.3 %	-1.0 %	1.5 %
Cyan	0.2 %	-2.8 %	-0.2 %
Magenta	-0.3 %	1.3 %	1.0 %

After Calibration

Color	Lightness	Saturation	Hue
Red	-0.8 %	2.4 %	0.1 %
Green	0.3 %	-0.2 %	-0.7 %
Blue	1.0 %	-0.6 %	1.3 %
Yellow	0.3 %	-0.9 %	1.6 %
Cyan	0.1 %	-3.1 %	0.0 %
Magenta	-0.5 %	1.4 %	0.9 %



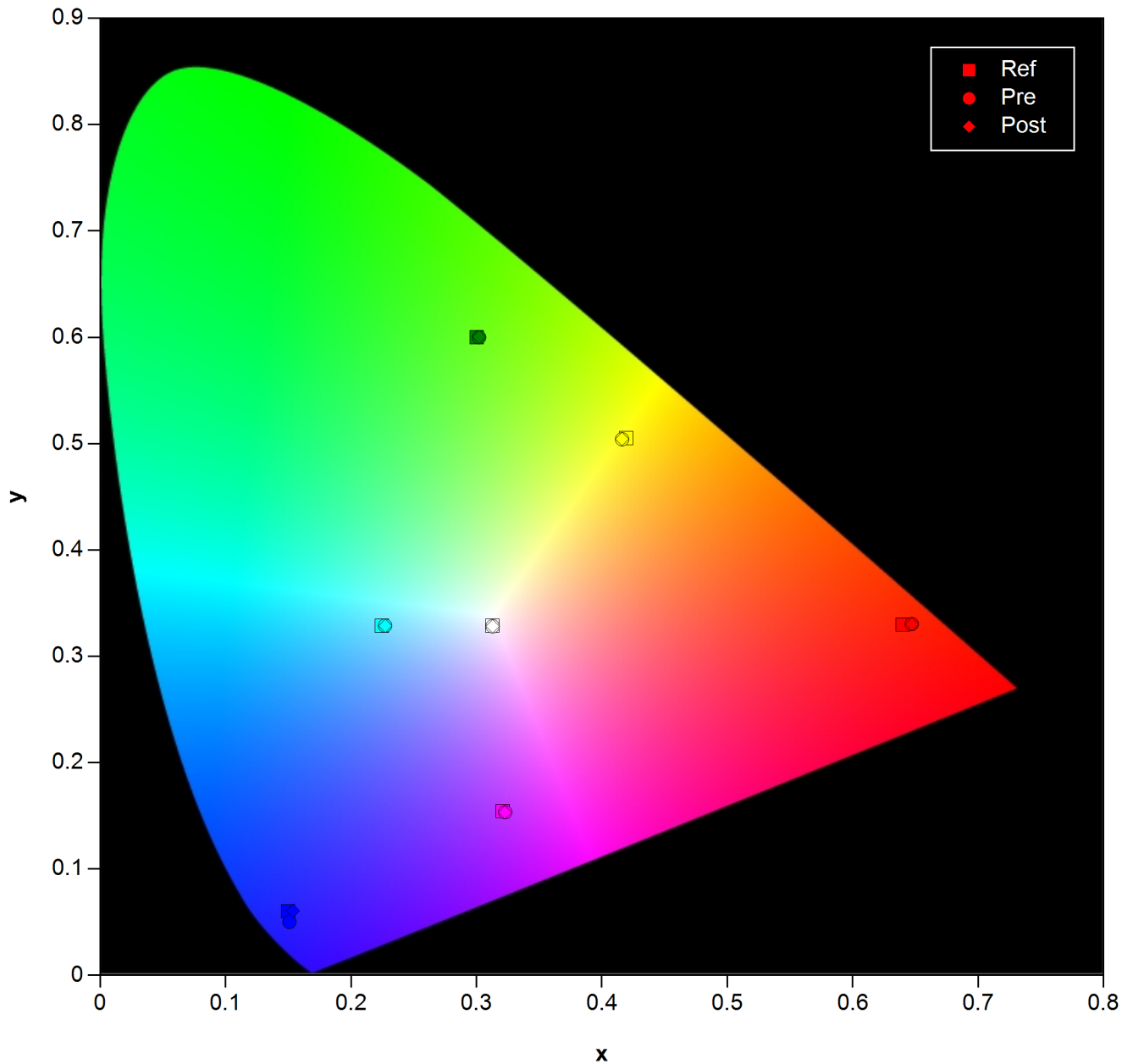
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## CIE Chart

Primary/Secondary Chromaticity 1931



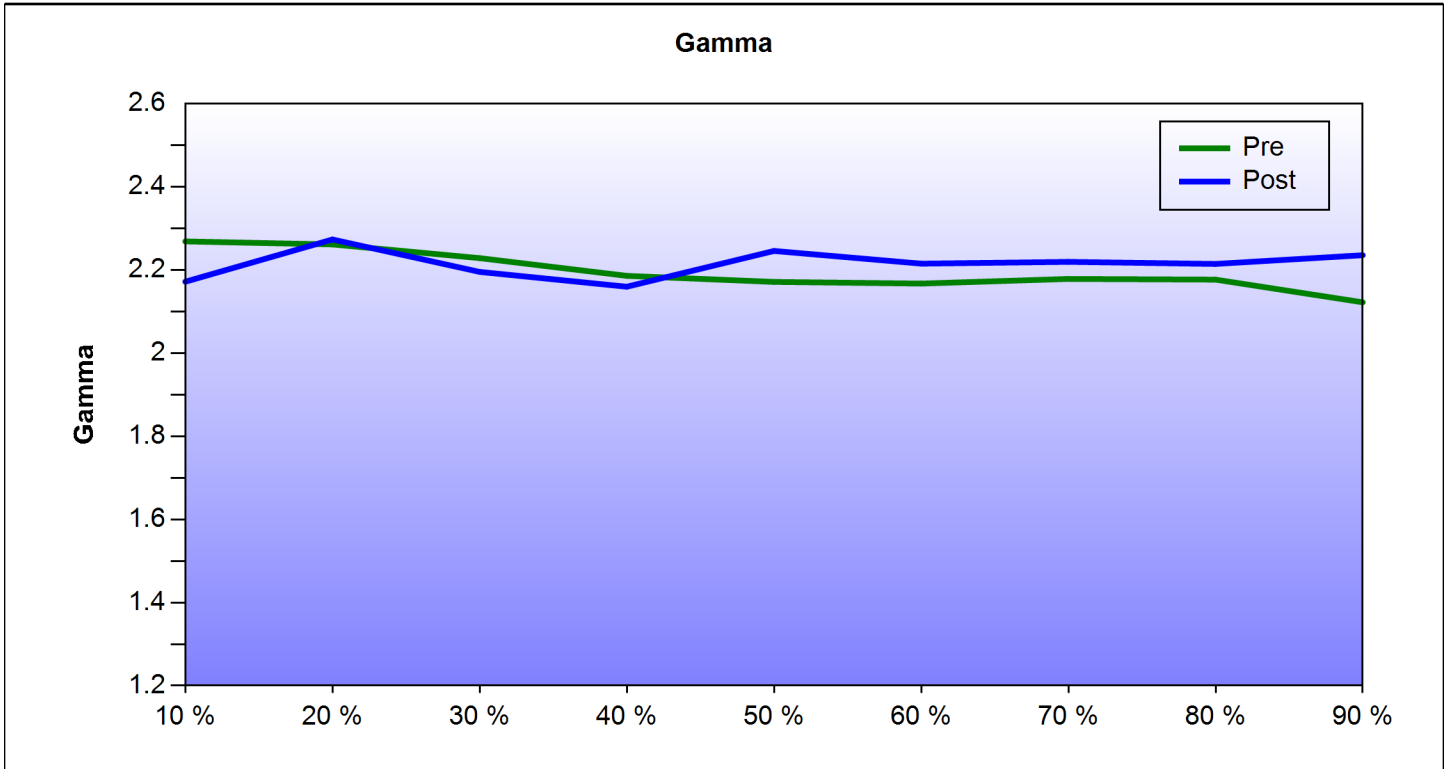


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## Gamma



### Y

Input	Pre	Post
10 %	0.23	0.29
20 %	1.11	1.10
30 %	2.90	3.03
40 %	5.72	5.88
50 %	9.40	8.97
60 %	14.00	13.72
70 %	19.48	19.27
80 %	26.06	25.94
90 %	33.87	33.60
100 %	42.36	42.53

### Gamma

Input	Pre	Post
10 %	2.27	2.17
20 %	2.26	2.27
30 %	2.23	2.20
40 %	2.19	2.16
50 %	2.17	2.25
60 %	2.17	2.22
70 %	2.18	2.22
80 %	2.18	2.21
90 %	2.12	2.24
100 %	0.00	0.00